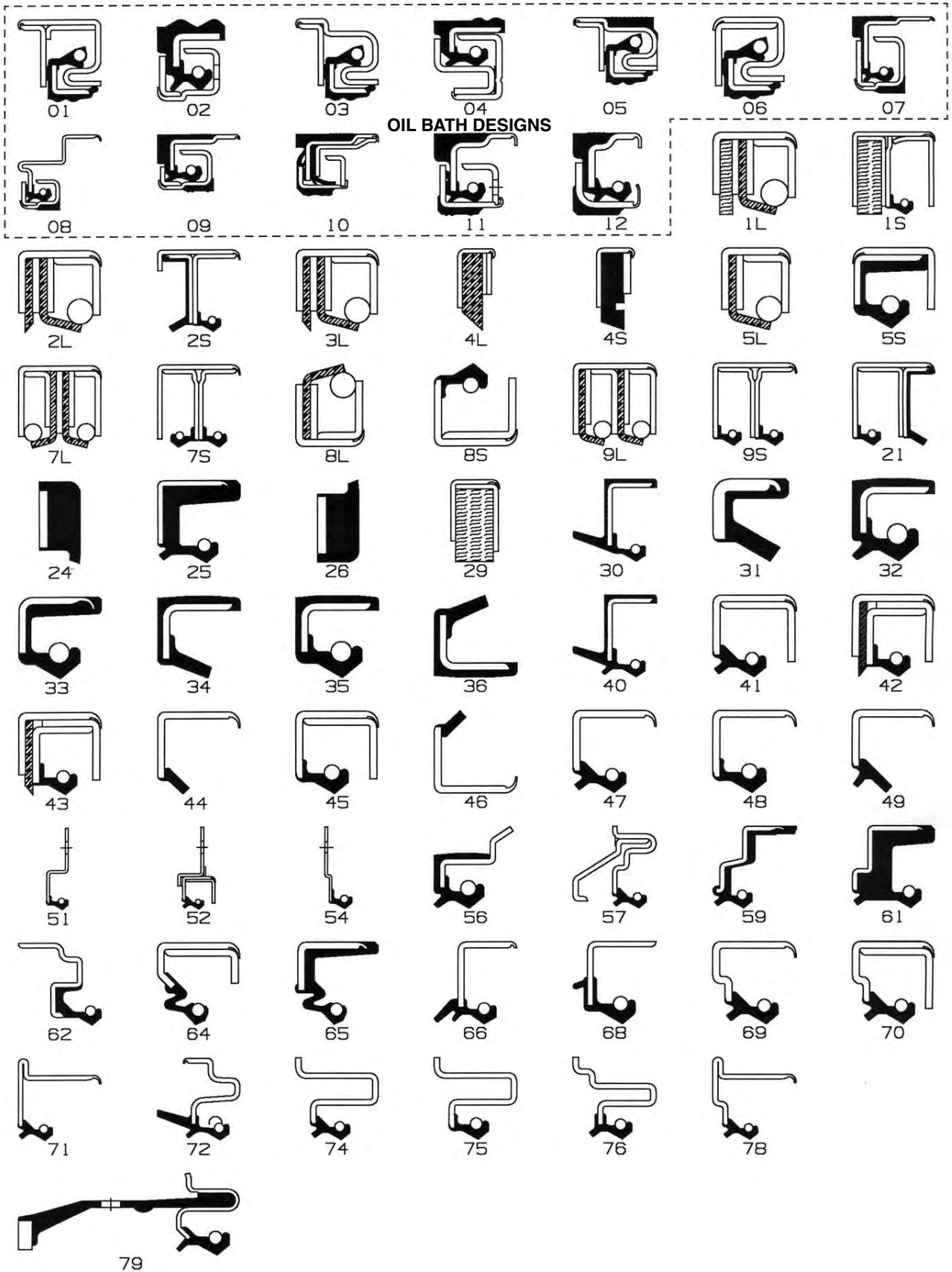
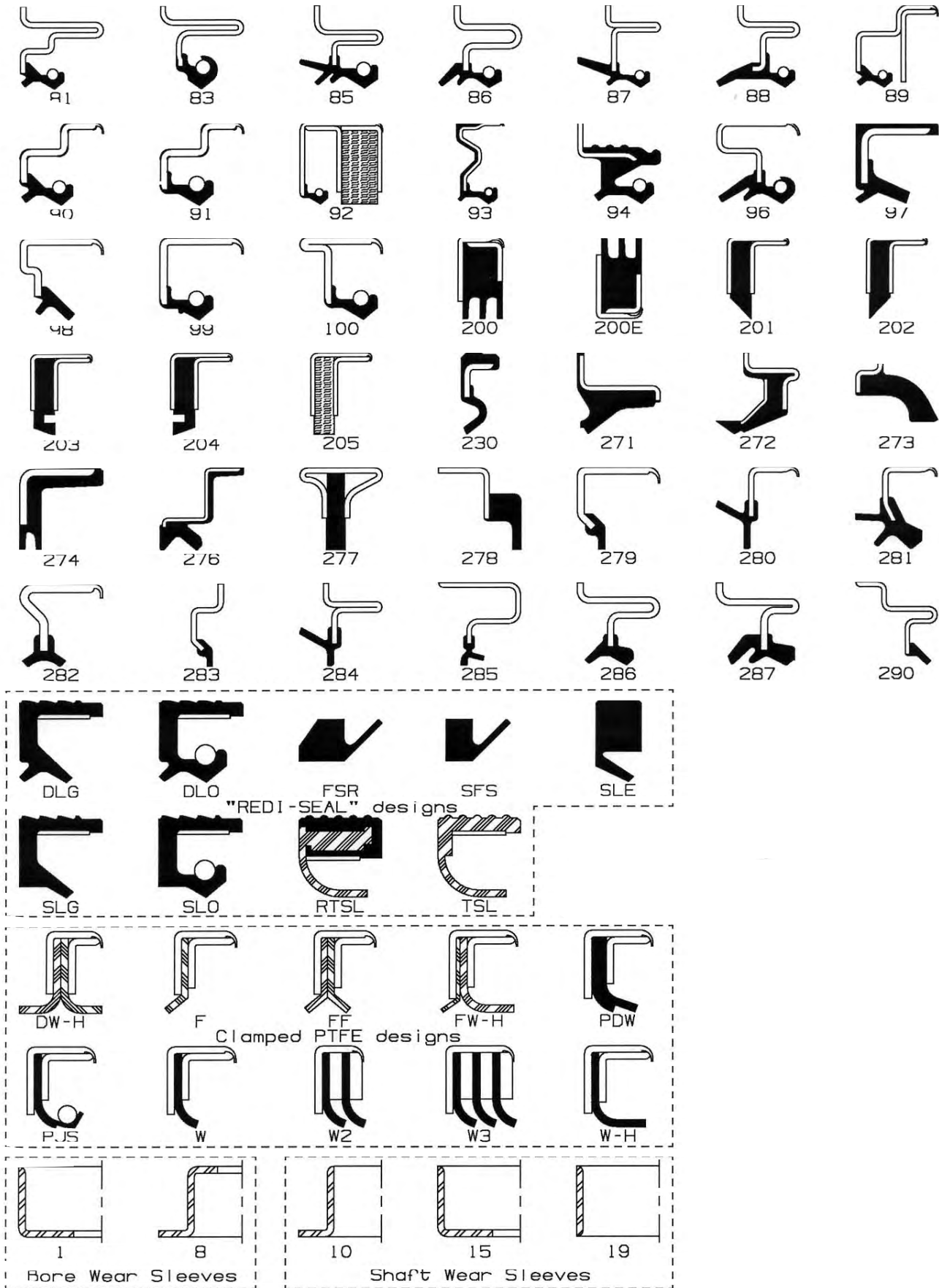


OIL SEAL DESIGN TYPES



OIL SEAL DESIGN TYPES



Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.156" (5/32") SHAFT						.250" (1/4") SHAFT					
.500	.504	.187	S	340872	34	.499	.505	.187	S	343104	34
4,50mm (.177") SHAFT						6,50mm (.256") SHAFT					
15,80	16,00	5,00	S	* 4.5X16X5★	32	14,30	14,50	7,00	S	* 6.5X14.5X7★	32
.622	.630	.197				.563	.571	.276			
15,80	16,00	7,00	S	* 4.5X16X7★	32	6,80mm (.268") SHAFT					
.622	.630	.276				21,80	22,00	7,00	S	* 6.8X22X7★	32
16,80	17,00	7,00	S	* 4.5X17X7★	32	.858	.866	.276			
.661	.669	.276				7,00mm (.276") SHAFT					
4,80mm (.189") SHAFT						16,00	16,20	7,00	V	* 7X16X7V★	35
14,80	15,00	5,00	S	* 4.8X15X5★	32	.630	.638	.276			
.583	.591	.197				16,00	16,28	7,00	S	7X16X7★	32
5,00mm (.197") SHAFT						.630	.641	.276			
14,80	15,00	6,00	S	* 5X15X6★	32	16,80	17,00	7,00	S	* 7X17X7★	32
.583	.591	.236				.661	.669	.276			
15,80	16,00	6,00	S	* 5X16X6★	32	17,80	18,00	7,00	S	* 7X18X7★	32
.622	.630	.236				.701	.709	.276			
16,00	16,20	5,00	S	* 5X16X5★	32	18,80	19,00	7,00	S	* 7X19X7★	32
.630	.638	.197				.740	.748	.276			
16,80	17,00	7,00	S	* 5X17X7★	32	21,80	22,00	6,00	S	* 7X22X6★	32
.661	.669	.276				.858	.866	.236			
17,80	18,00	6,00	S	* 5X18X6★	32	21,80	22,00	8,00	S	* 7X22X8★	32
.701	.709	.236				.858	.866	.315			
17,80	18,00	7,00	S	* 5X18X7★	32	22,00	22,28	7,00	S	7X22X7★	35
.701	.709	.276				.866	.877	.276			
17,80	18,00	10,00	S	* 5X18X10★	32	30,80	31,00	7,00	S	* 7X31X7★	32
.701	.709	.394				1.212	1.220	.276			
18,80	19,00	7,00	S	* 5X19X7★	32	.312" (5/16") SHAFT					
.740	.748	.276				.500	.506	.125	S	340826	34
21,80	22,00	7,00	S	* 5X22X7★	32	.625	.635	.175	S	240698	24
.858	.866	.276				.686	.690	.313	S	712022	#
5,50mm (.217") SHAFT						.749	.753	.250	S	712021	#
17,80	18,00	8,00	S	* 5.5X18X8★	32	.750	.756	.250	S	350364	35
.701	.709	.315				.999	1.003	.375	S	470195	47
21,80	22,00	8,00	S	* 5.5X22X8★	32	1.250	1.254	.375	L	50445	5L
.858	.866	.315				8,00mm (.315") SHAFT					
6,00mm (.236") SHAFT						13,80	14,00	7,00	S	* 8X14X7★	32
16,00	16,20	5,00	S	6X16X5★	35	.543	.551	.276			
.630	.638	.197				14,00	14,20	4,00	S	8X14X4★	35
16,00	16,20	7,00	V	* 6X16X7V★	35	.551	.559	.157			
.630	.638	.276				14,00	14,20	5,00	S	* 8X14X5★	32
16,00	16,28	7,00	S	6X16X7★	35	.551	.559	.197			
.630	.641	.276				14,80	15,00	5,00	S	* 8X15X5★	32
16,80	17,00	7,00	S	* 6X17X7★	32	.583	.591	.197			
.661	.669	.276				15,80	16,00	5,00	S	* 8X16X5★	32
17,80	18,00	6,00	S	* 6X18X6★	32	.622	.630	.197			
.701	.709	.236				15,80	16,00	6,00	S	* 8X16X6★	32
17,80	18,00	7,00	S	* 6X18X7★	32	.622	.630	.236			
.701	.709	.276				16,00	16,20	7,00	S	220860★	35
18,80	19,00	7,00	S	* 6X19X7★	32	.630	.638	.276			
.740	.748	.276				16,00	16,23	7,00	S	8X16X7★	35
19,80	20,00	5,50	S	* 6X20X5.5★	32	.630	.639	.276			
.779	.787	.217				16,80	17,00	7,00	S	* 8X17X7★	32
20,80	21,00	7,00	S	* 6X21X7★	32	.661	.669	.276			
.819	.827	.276				17,80	18,00	6,00	S	* 8X18X6★	32
22,00	22,28	7,00	S	6X22X7★	35	.701	.709	.236			
.866	.877	.276				17,80	18,00	8,00	S	* 8X18X8★	32
25,80	26,00	7,00	S	* 6X26X7★	32	.701	.709	.315			
1.016	1.024	.276				18,00	18,20	5,00	S	8X18X5★	35
34,80	35,00	7,00	S	* 6X35X7★	32	.709	.717	.197			
1.370	1.378	.276				18,00	18,20	7,00	S	8X18X7★	32
						.709	.717	.276			

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
8,00mm (.315") SHAFT (cont.)						.375" (3/8") SHAFT					
18,00	18,20	7,00	S	220818★	32	.562	.568	.125	S	340827	34
.709	.717	.276				.687	.691	.156	S	311189	31
18,80	19,00	7,00	S	*8X19X7★	32	.687	.691	.156	N	*311189N	31
.740	.748	.276				.750	.754	.250	S	*40385S	4S
19,80	20,00	7,00	S	*8X20X7★	32	.750	.754	.250	H	*50385	5S
.779	.787	.276				.750	.754	.250	S	50385S	5S
21,80	22,00	6,00	S	*8X22X6★	32	.750	.754	.250	S	*310385	31
.858	.866	.236				.750	.754	.250	S	330385	33
22,00	22,20	7,00	V	*8X22X7V★	32	.750	.756	.250	S	340385	34
.866	.874	.276				.750	.756	.250	S	*350385	35
22,00	22,28	7,00	S	8X22X7★	32	.750	.760	.175	S	240385	24
.866	.877	.276				.750	.760	.175	N	*240385N	24
22,80	23,00	5,00	S	*8X23X5★	32	.836	.841	.187	S	444258	44
.898	.906	.197				.836	.841	.187	N	474279N	47
24,00	24,28	7,00	S	8X24X7★	35	.874	.883	.312	S	350156	35
.945	.956	.276				.875	.880	.250	S	473096	47
24,80	25,00	7,00	S	*8X25X7★	32	.999	1.003	.375	H	*50197	5S
.976	.984	.276				.999	1.003	.375	S	50197S	5S
24,80	25,00	8,00	S	*8X25X8★	32	.999	1.004	.250	S	471103	47
.976	.984	.315				1.250	1.254	.375	L	*50010	5L
24,80	25,00	9,00	S	*8X25X9★	32	.390" SHAFT					
.976	.984	.354				.750	.756	.250	S	*342047	34
25,80	26,00	7,00	S	*8X26X7★	32	10,00mm (.394") SHAFT					
1.016	1.024	.276				15,80	16,00	4,00	S	*10X16X4★	32
29,80	30,00	6,00	S	*8X30X6★	32	.622	.630	.157			
1.173	1.181	.236				15,80	16,00	4,50	S	*10X16X4.5★	32
29,80	30,00	7,00	S	*8X30X7★	32	.622	.630	.177			
1.173	1.181	.276				16,80	17,00	5,00	S	*10X17X5★	32
33,80	34,00	8,00	S	*8X34X8★	32	.661	.669	.197			
1.331	1.339	.315				16,80	17,00	7,00	S	*10X17X7★	32
.344" (11/32") SHAFT						.661	.669	.276			
.999	1.003	.375	S	*53809S	5S	17,80	18,00	4,00	S	*10X18X4★	32
8,85mm (.348") SHAFT						.701	.709	.157			
16,80	17,00	5,00	S	*8.85X17X5★	32	17,80	18,00	5,00	S	*10X18X5★	32
.661	.669	.197				.701	.709	.197			
19,80	20,00	5,00	S	*8.85X20X5★	32	17,80	18,00	6,00	S	*10X18X6★	32
.779	.787	.197				.701	.709	.236			
9,00mm (.354") SHAFT						17,80	18,00	7,00	S	*10X18X7★	32
15,80	16,00	5,50	S	*9X16X5.5★	32	.701	.709	.276			
.622	.630	.217				19,00	19,20	7,00	S	10X19X7★	32
18,00	18,20	7,00	S	9X18X7★	35	.748	.756	.276			
.709	.717	.276				19,00	19,20	7,00	S	221040★	35
18,00	18,20	7,00	S	220918★	35	.748	.756	.276			
.709	.717	.276				19,80	20,00	5,00	S	*10X20X5★	32
18,80	19,00	5,00	S	*9X19X5★	32	.779	.787	.197			
.740	.748	.197				19,80	20,00	6,00	S	*10X20X6★	32
18,80	19,00	7,00	S	*9X19X7★	32	.779	.787	.236			
.740	.748	.276				19,80	20,00	7,00	S	*10X20X7★	32
19,80	20,00	7,00	S	*9X20X7★	32	.779	.787	.276			
.779	.787	.276				20,80	21,00	4,00	S	*10X21X4★	32
22,00	22,20	7,00	S	9X22X7★	35	.819	.827	.157			
.866	.874	.276				20,80	21,00	6,00	S	*10X21X6★	32
22,00	22,20	7,00	V	*9X22X7V★	35	.819	.827	.236			
.866	.874	.276				20,80	21,00	7,00	S	*10X21X7★	32
24,00	24,28	7,00	S	9X24X7★	35	.819	.827	.276			
.945	.956	.276				21,80	22,00	5,00	S	*10X22X5★	32
24,80	25,00	7,00	S	*9X25X7★	32	.858	.866	.197			
.976	.984	.276				21,80	22,00	6,00	S	*10X22X6★	32
26,00	26,28	7,00	S	9X26X7★	35	.858	.866	.236			
1.024	1.035	.276				22,00	22,20	7,00	V	*10X22X7V★	35
28,80	29,00	7,00	S	*9X29X7★	32	.866	.874	.276			
1.134	1.142	.276				22,00	22,28	7,00	S	10X22X7★	32
29,80	30,00	7,00	S	*9X30X7★	32	.866	.877	.276			
1.173	1.181	.276				22,80	23,00	7,00	S	*10X23X7★	32
						.898	.906	.276			
						22,80	23,00	8,00	S	*10X23X8★	32
						.898	.906	.315			

For Illustration and Material Data See Technical Section

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
10,00mm (.394") SHAFT (cont.)						.437" (7/16") SHAFT (cont.)					
23,30	23,50	10,00	S	* 10X23.5X10★	32	.999	1.003	.375	S	470199	47
.917	.925	.394				.999	1.003	.375	N	* 470199N	47
23,80	24,00	6,00	S	* 10X24X6★	32	.999	1.003	.375	V	* 470199V	47
.937	.945	.236				.999	1.007	.250	S	6863S	35
24,00	24,23	7,00	S	10X24X7★	35	1.124	1.128	.250	S	474277	47
.945	.954	.276				1.124	1.128	.406	S	453059	45
24,80	25,00	5,00	S	* 10X25X5★	32	11,60mm (.457") SHAFT					
.976	.984	.197				18,80	19,00	6,00	S	* 11.6X19X6★	32
24,80	25,00	10,00	S	* 10X25X10★	32	.740	.748	.236			
.976	.984	.394				23,80	24,00	10,00	S	* 11.6X24X10★	32
25,00	25,28	7,00	S	10X25X7★	32	.937	.945	.394			
.984	.995	.276				.468" (15/32") SHAFT					
25,80	26,00	8,00	S	* 10X26X8★	32	-	-	-	S	800120	VRS1
1.016	1.024	.315				1.124	1.126	.375	S	470004	47
26,00	26,23	7,00	S	10X26X7★	32	1.124	1.128	.375	L	* 50004	5L
1.024	1.033	.276				12,00mm (.472") SHAFT					
27,80	28,00	7,00	S	* 10X28X7★	32	-	-	-	S	800120	VRS1
1.094	1.102	.276				-	-	.236		99049	Redi-Sleeve
27,80	28,00	8,00	S	* 10X28X8★	32	17,80	18,00	5,00	S	* 12X18X5★	32
1.094	1.102	.315				.701	.709	.197			
29,80	30,00	7,00	S	* 10X30X7★	32	18,80	19,00	7,00	S	* 12X19X7★	32
1.173	1.181	.276				.740	.748	.276			
29,80	30,00	10,00	S	* 10X30X10★	32	19,00	19,20	5,00	S	12X19X5★	32
1.173	1.181	.394				.748	.756	.197			
.402" SHAFT						19,80	20,00	4,00	S	* 12X20X4★	32
.999	1.005	.180	V	* 8891	24	.779	.787	.157			
.408" SHAFT						19,80	20,00	6,00	S	* 12X20X6★	32
1.004	.102	.208	N	4701	49	.779	.787	.236			
1.004	1.008	.208	N	4701N	49	19,80	20,00	7,00	S	* 12X20X7★	32
11,00mm (.433") SHAFT						.779	.787	.276			
17,00	17,25	4,00	S	11X17X4★	32	20,00	20,28	5,00	S	12X20X5★	32
.669	.679	.157				.787	.798	.197			
20,80	21,00	7,00	S	* 11X21X7★	32	20,80	21,00	4,00	S	* 12X21X4★	32
.819	.827	.276				.819	.827	.157			
20,80	21,00	8,00	S	* 11X21X8★	32	20,80	21,00	7,00	S	* 12X21X7★	32
.819	.827	.315				.819	.827	.276			
22,00	22,23	7,00	S	221122★	35	21,80	22,00	5,00	S	* 12X22X5★	32
.866	.875	.276				.858	.866	.197			
22,00	22,28	7,00	S	11X22X7★	32	21,80	22,00	6,50	S	* 12X22X6.5★	32
.866	.877	.276				.858	.866	.256			
22,80	23,00	7,00	S	* 11X23X7★	32	21,80	22,00	8,00	S	* 12X22X8★	32
.898	.906	.276				.858	.866	.315			
23,30	23,50	7,00	S	* 11X23.5X7★	32	21,80	22,00	9,00	S	* 12X22X9★	32
.917	.925	.276				22,00	22,20	7,00	V	* 12X22X7V★	35
24,80	25,00	7,00	S	* 11X25X7★	32	.866	.874	.276			
.976	.984	.276				22,00	22,25	7,00	S	12X22X7★	35
26,00	26,28	7,00	S	11X26X7★	35	.866	.876	.276			
1.024	1.035	.276				22,00	22,25	7,00	S	221207★	35
27,80	28,00	7,00	S	* 11X28X7★	32	.866	.876	.276			
1.094	1.102	.276				22,00	22,25	7,00	V	221208★	35
28,80	29,00	7,00	S	* 11X29X7★	32	.866	.876	.276			
1.134	1.142	.276				22,80	23,00	7,00	S	* 12X23X7★	32
29,80	30,00	10,00	S	* 11X30X10★	32	.898	.906	.276			
1.173	1.181	.394				23,30	23,50	7,00	S	* 12X23.5X7★	32
30,00	30,20	7,00	S	11X30X7★	32	.917	.925	.276			
1.181	1.189	.276				23,80	24,00	8,00	S	* 12X24X8★	32
.437" (7/16") SHAFT						.937	.945	.315			
.624	.633	.125	S	343101	34	24,00	24,23	7,00	S	12X24X7★	32
.875	.879	.312	H	* 50470	5S	.945	.954	.276			
.875	.879	.312	S	50470S	5S	24,80	25,00	8,00	S	* 12X25X8★	32
.875	.880	.250	S	472810	47	.976	.984	.315			
.875	.880	.250	S	* 482810	48	24,80	25,00	10,00	S	* 12X25X10★	32
.875	.885	.175	S	240470	24	.976	.984	.394			
.999	1.003	.375	H	* 50199H	5S	25,00	25,20	4,50	S	12X25X4.5★	32
.999	1.003	.375	S	* 50199S	5S	.984	.992	.177			

SIZE SECTION

For Illustration and Material Data See Technical Section

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
12,00mm (.472") SHAFT (cont.)						12,50mm (.492") SHAFT (cont.)					
25,00	25,20	4,50	S	12X25X4.5★	32	28,30	28,50	7,00	S	*12.5X28.5X7★	32
.984	.992	.177				1.114	1.122	.276			
25,00	25,25	7,00	S	12X25X7★	32	.493" SHAFT					
.984	.994	.276				-	-	-	S	800130	VRS1
25,30	25,50	7,00	S	*12X25.5X7★	32	-	-	-	V	800134	VRS1
.996	1.004	.276				1.000	1.004	.250	S	*471211	47
1.000	1.006	.375	S	320457	32	.500" (1/2") SHAFT					
25,80	26,00	8,00	S	*12X26X8★	32	-	-	-	S	800130	VRS1
1.016	1.024	.315				-	-	-	V	800134	VRS1
26,00	26,20	7,00	S	12X26X7★	32	-	-	.250		99050	Redi-Sleeve
1.024	1.031	.276				.687	.693	.093	S	342805	34
26,80	27,00	9,00	S	*12X27X9★	32	.688	.696	.100	N	*7506N	24
1.055	1.063	.354				.688	.696	.100	S	*7506S	24
27,00	27,20	7,00	S	*12X27X7★	32	.749	.753	.093	S	43095S	4S
1.063	1.071	.276				.750	.756	.125	S	340847	34
27,80	28,00	8,00	S	*12X28X8★	32	.751	.756	.192	S	8792S	31
1.094	1.102	.315				.843	.848	.250	S	312196	31
28,00	28,20	7,00	S	12X28X7★	35	.875	.879	.187	S	330699	33
1.102	1.110	.276				.875	.879	.218	S	43080S	4S
28,00	28,20	7,00	V	*12X28X7V★	35	.875	.879	.313	S	712019	#
1.102	1.110	.276				.875	.881	.125	S	342613	34
28,30	28,50	7,00	S	*12X28.5X7★	32	.875	.881	.250	S	342614	34
1.114	1.122	.276				.999	1.003	.250	S	48144	#
29,80	30,00	5,00	S	*12X30X5★	32	.999	1.003	.250	S	41442S	4S
1.173	1.181	.197				.999	1.003	.250	S	471442	47
29,80	30,00	9,00	S	*12X30X9★	32	.999	1.003	.250	A	471442A	47
1.173	1.181	.354				.999	1.003	.250	H	*471442H	47
29,80	30,00	10,00	S	*12X30X10★	32	.999	1.003	.250	N	*471442N	47
1.173	1.181	.394				.999	1.003	.250	V	471442V	47
30,00	30,20	7,00	S	12X30X7★	32	.999	1.003	.250	S	*481442	48
1.181	1.189	.276				.999	1.003	.250	N	*481442N	48
30,00	30,20	7,00	V	*12X30X7V★	35	.999	1.003	.250	V	*481442V	48
1.181	1.189	.276				.999	1.003	.375	S	410119	41
31,80	32,00	5,00	S	*12X32X5★	32	.999	1.003	.375	S	*450119	45
1.252	1.260	.197				.999	1.003	.375	S	470119	47
31,80	32,00	10,00	S	*12X32X10★	32	.999	1.003	.375	S	*480119	48
1.252	1.260	.394				.999	1.010	.175	S	240119	24
32,00	32,20	7,00	S	12X32X7★	35	1.000	1.004	.250	S	*471490	47
1.260	1.268	.276				1.000	1.004	.250	S	*481490	48
34,80	35,00	10,00	S	*12X35X10★	32	1.006	1.010	.250	S	1041	48
1.370	1.378	.394				1.010	1.017	.204	V	324234V	32
35,00	35,20	7,00	S	12X35X7★	32	1.124	1.128	.250	V	471526V	47
1.378	1.386	.276				1.124	1.128	.250	S	41526S	4S
36,80	37,00	7,00	S	*12X37X7★	32	1.124	1.128	.250	S	471526	47
1.449	1.457	.276				1.124	1.128	.250	A	471526A	47
.490" SHAFT						1.124	1.128	.250	S	*481526	48
-	-	-	S	800120	VRS1	1.124	1.128	.250	N	*481526N	48
-	-	-	S	800130	VRS1	1.124	1.128	.312	S	*411294	41
-	-	-	V	800134	VRS1	1.124	1.128	.312	S	*451294	45
.688	.696	.100	S	*9791	24	1.124	1.128	.312	H	*451294H	45
12,45mm (.490") SHAFT						1.124	1.128	.312	S	*471294	47
21,80	22,00	7,00	S	*12.45X22X7★	32	1.124	1.128	.312	S	*481294	48
.858	.866	.276				1.124	1.128	.375	S	*410005	41
.490" SHAFT						1.124	1.128	.375	S	450005	45
.875	.883	.250	S	340771	34	1.124	1.128	.375	S	470005	47
1.122	1.132	.265	S	351028	35	1.124	1.128	.375	S	*480005	48
12,50mm (.492") SHAFT						1.124	1.134	.175	S	*240005	24
21,80	22,00	6,00	S	*12.5X22X6★	32	1.156	1.166	.250	S	324112	32
.858	.866	.236				1.250	1.254	.250	S	*40014S	4S
23,30	23,50	8,00	S	*12.5X23.5X8★	32	1.250	1.254	.250	S	471472	47
.917	.925	.315				1.250	1.254	.250	V	471472V	47
23,30	23,50	10,00	S	*12.5X23.5X10★	32	1.250	1.254	.250	S	*481472	48
.917	.925	.394				1.250	1.254	.250	N	*481472N	48
24,80	25,00	8,00	S	*12.5X25X8★	32	1.250	1.254	.375	S	*410014	41
.976	.984	.315				1.250	1.254	.375	S	*450014	45
						1.250	1.254	.375	S	470014	47
						1.250	1.254	.375	S	*480014	48
						1.375	1.379	.250	S	471549	47

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.500" (1/2") SHAFT (cont.)						14,00mm (.551") SHAFT (cont.)					
1.375	1.379	.312	S	* 451555	45	22,80	23,00	6,00	S	* 14X23X6★	32
1.375	1.379	.312	S	471555	47	.898	.906	.236			
1.375	1.379	.406	S	* 410019	41	23,80	24,00	4,00	S	* 14X24X4★	32
1.375	1.379	.406	S	* 450019	45	.937	.945	.157			
1.375	1.379	.406	S	* 470019	47	23,80	24,00	5,00	S	* 14X24X5★	32
1.375	1.379	.406	S	* 480019	48	.937	.945	.197			
1.378	1.382	.406	S	472467	47	23,80	24,00	6,00	S	* 14X24X6★	32
13,00mm (.512") SHAFT						14,00mm (.551") SHAFT (cont.)					
—	—	—	S	800130	VRS1	.937	.945	.236			
—	—	—	V	800134	VRS1	23,80	24,00	8,00	S	* 14X24X8★	32
19,80	20,00	5,00	S	* 13X20X5★	32	.937	.945	.315			
.779	.787	.197				24,00	24,23	7,00	S	221410★	35
21,80	22,00	5,00	S	* 13X22X5★	32	.945	.954	.276			
.858	.866	.197				24,00	24,25	12,70	S	2004★◀	#
21,80	22,00	7,00	S	* 13X22X7★	32	.945	.955	.500			
.858	.866	.276				24,80	25,00	4,00	S	* 14X25X4★	32
22,00	22,20	6,00	S	13X22X6★	32	.976	.984	.157			
.866	.874	.236				24,80	25,00	7,00	S	* 14X25X7★	32
22,00	22,20	6,00	S	710348★	32	.976	.984	.276			
.866	.874	.236				24,80	25,00	9,00	S	* 14X25X9★	32
22,80	23,00	7,00	S	* 13X23X7★	32	.976	.984	.354			
.898	.906	.276				25,00	25,20	7,00	N	710116★	32
23,80	24,00	7,00	S	* 13X24X7★	32	.984	.992	.276			
.937	.945	.276				25,00	25,23	5,00	S	14X25X5★	32
24,80	25,00	5,00	S	* 13X25X5★	32	.984	.993	.197			
.976	.984	.197				1,000	1,004	.312	S	473546	47
24,80	25,00	7,00	S	* 13X25X7★	32	25,80	26,00	8,00	S	* 14X26X8★	32
.976	.984	.276				1,016	1,024	.315			
25,80	26,00	9,00	S	* 13X26X9★	32	26,00	26,23	7,00	S	14X26X7★	32
1,016	1,024	.354				1,024	1,033	.276			
26,00	26,20	7,00	S	13X26X7★	32	26,80	27,00	10,00	S	* 14X27X10★	32
1,024	1,031	.276				1,055	1,063	.394			
27,00	27,20	7,00	S	* 13X27X7★	32	27,00	27,20	7,00	S	14X27X7★	32
1,063	1,071	.276				1,063	1,071	.276			
28,00	28,20	7,00	S	13X28X7★	32	27,80	28,00	7,00	S	* 14X28X7★	32
1,102	1,110	.276				1,094	1,102	.276			
29,80	30,00	8,00	S	* 13X30X8★	32	27,80	28,00	7,00	S	* 14X28X7★	32
1,173	1,181	.315				1,094	1,102	.276			
30,00	30,20	7,00	S	13X30X7★	32	29,80	30,00	10,00	S	* 14X30X10★	32
1,181	1,189	.276				1,173	1,181	.295			
31,80	32,00	7,00	S	* 13X32X7★	32	29,80	30,00	8,00	S	* 14X30X8★	32
1,252	1,260	.276				1,173	1,181	.315			
34,80	35,00	7,00	S	* 13X35X7★	32	29,80	30,00	9,00	S	* 14X30X9★	32
1,370	1,378	.276				1,173	1,181	.354			
.531" (17/32") SHAFT						14,00mm (.551") SHAFT (cont.)					
1.124	1.128	.312	S	471530	47	29,80	30,00	10,00	S	* 14X30X10★	32
1.124	1.128	.375	S	* 450006	45	1,173	1,181	.394			
1.250	1.254	.250	S	* 481534	48	30,00	30,20	7,00	S	14X30X7★	32
.540" SHAFT						13,80mm (.543") SHAFT					
1.219	1.213	.187	S	* 7738	#	1,181	1,189	.276			
13,80mm (.543") SHAFT						14,00mm (.551") SHAFT					
23,80	24,00	5,00	S	* 13.8X24X5★	32	30,00	30,20	7,00	S	14X30X7★	32
.937	.945	.197				1,181	1,189	.276			
14,00mm (.551") SHAFT						13,80mm (.543") SHAFT					
20,80	21,00	4,00	S	* 14X21X4★	32	31,80	32,00	7,50	S	* 14X32X7.5★	32
.819	.827	.157				1,252	1,260	.295			
21,80	22,00	4,00	S	* 14X22X4★	32	31,80	32,00	10,00	S	* 14X32X10★	32
.858	.866	.157				1,252	1,260	.394			
21,80	22,00	6,00	S	* 14X22X6★	32	32,00	32,20	7,00	S	14X32X7★	32
.858	.866	.236				1,260	1,268	.276			
21,80	22,00	7,00	S	* 14X22X7★	32	34,80	35,00	8,00	S	* 14X35X8★	32
.858	.866	.276				1,370	1,378	.315			
14,00mm (.551") SHAFT						14,00mm (.551") SHAFT					
20,80	21,00	4,00	S	* 14X21X4★	32	34,80	35,00	10,00	S	* 14X35X10★	32
.819	.827	.157				1,370	1,378	.394			
21,80	22,00	4,00	S	* 14X22X4★	32	35,00	35,22	7,00	S	14X35X7★	32
.858	.866	.157				1,378	1,387	.276			
21,80	22,00	6,00	S	* 14X22X6★	32	35,80	36,00	7,00	S	* 14X36X7★	32
.858	.866	.236				1,409	1,417	.276			
21,80	22,00	7,00	S	* 14X22X7★	32						
.858	.866	.276									

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
14,00mm (.551") SHAFT (cont.)						.590" SHAFT					
39,80	40,00	7,00	S	*14X40X7★	32	-	-	.197		99059	Redi-Sleeve
1.567	1.575	.276				.997	1.006	.200	N	*4127N	34
39,80	40,00	10,00	S	*14X40X10★	32	15,00mm (.591") SHAFT					
1.567	1.575	.394				-	-	.197		99059	Redi-Sleeve
.562" (9/16") SHAFT						20,00	20,10	5,00	S	710346★	49
-	-	.250		99056	Redi-Sleeve	.787	.791	.197			
.750	.754	.094	S	712028	#	20,80	21,00	5,00	S	*15X21X5★	32
.810	.814	.187	N	313156	31	.819	.827	.197			
.810	.814	.187	N	*313156N	31	21,80	22,00	4,00	S	*15X22X4★	32
.875	.879	.187	S	314259	31	.858	.866	.157			
.999	1.003	.250	S	*471315	47	21,80	22,00	5,00	S	*15X22X5★	32
.999	1.003	.250	S	*481315	48	.858	.866	.197			
.999	1.003	.250	N	*481315N	48	21,80	22,00	7,00	S	*15X22X7★	32
.999	1.003	.250	V	*481315V	48	.898	.906	.276			
.999	1.003	.375	S	*410202	41	22,80	23,00	7,00	S	*15X23X7★	32
.999	1.003	.375	N	*410202N	41	.937	.945	.197			
.999	1.003	.375	S	*450202	45	23,80	24,00	5,00	S	*15X24X5★	32
.999	1.003	.375	N	*450202N	45	.937	.945	.197			
.999	1.003	.375	S	*470202	47	23,80	24,00	6,00	S	*15X24X6★	32
.999	1.003	.375	S	*480202	48	.937	.945	.236			
1.000	1.004	.250	V	472705V	47	24,00	24,20	5,00	S	2027★	35
1.000	1.004	.250	S	472705	47	.945	.953	.197			
1.000	1.004	.312	S	*470650	47	24,00	24,23	7,00	S	15X24X7★	32
1.004	1.008	.254	N	718610	47	.945	.954	.276			
1.124	1.128	.250	S	471281	47	25,00	25,20	5,00	S	15X25X5★	32
1.124	1.128	.250	S	*481281	48	.984	.992	.197			
1.124	1.128	.250	N	*481281N	48	25,00	25,20	7,00	S	15X25X7★	35
1.124	1.128	.250	V	*481281V	48	.984	.992	.276			
1.124	1.128	.312	S	*411531	41	25,00	25,22	7,00	S	*350509★	35
1.124	1.128	.312	S	*451531	45	.984	.993	.276			
1.124	1.128	.375	S	*410007	41	25,00	25,25	6,00	N	15X25X6★	32
1.124	1.128	.375	S	*450007	45	.984	.994	.236			
1.124	1.128	.375	H	*450007H	45	25,00	25,25	6,00	N	221510★	32
1.124	1.128	.375	S	*470007	47	.984	.994	.236			
1.124	1.128	.375	S	*480007	48	25,30	25,50	4,50	S	*15X25.5X4.5★	32
1.124	1.128	.531	V	*3072V	49	.996	1.004	.177			
1.124	1.135	.175	S	*240007	24	25,30	25,50	7,00	S	*15X25.5X7★	32
1.234	1.238	.437	S	*7708	71	.996	1.004	.276			
1.246	1.250	.375	S	*410536	41	25,80	26,00	6,00	S	*15X26X6★	32
1.246	1.250	.375	S	450536	45	1.016	1.024	.236			
1.246	1.250	.375	N	*450536N	45	25,80	26,00	8,00	S	*15X26X8★	32
1.246	1.250	.375	S	*480536	48	1.016	1.024	.315			
1.250	1.254	.250	S	471535	47	25,80	26,00	9,00	S	*15X26X9★	32
1.250	1.254	.250	S	*481535	48	1.016	1.024	.354			
1.250	1.254	.375	S	*410016	41	26,00	26,23	7,00	S	15X26X7★	32
1.250	1.254	.375	S	*450016	45	1.024	1.033	.276			
1.250	1.254	.375	H	*450016H	45	26,80	27,00	7,00	S	*15X27X7★	32
1.250	1.254	.375	S	*470016	47	1.055	1.063	.276			
1.250	1.254	.375	S	*480016	48	26,80	27,00	8,00	S	*15X27X8★	32
1.250	1.254	.375	N	*480016N	48	1.055	1.063	.315			
1.375	1.379	.250	S	471551	47	27,80	28,00	6,00	S	*15X28X6★	32
1.375	1.379	.250	S	*481551	48	1.094	1.102	.236			
1.375	1.379	.250	H	*481551H	48	27,80	28,00	8,00	S	*15X28X8★	32
1.375	1.379	.312	S	*411557	41	1.094	1.102	.315			
1.375	1.379	.406	S	*410021	41	27,80	28,00	10,00	S	*15X28X10★	32
1.375	1.379	.406	S	*450021	45	1.094	1.102	.394			
1.375	1.379	.406	S	*470021	47	27,93	28,13	7,00	S	*15X28.13X7★	32
1.375	1.379	.406	S	*480021	48	1.099	1.107	.276			
14,50mm (.571") SHAFT						28,00	28,20	7,00	S	15X28X7★	32
31,80	32,00	7,00	S	*14.5X32X7★	32	1.102	1.110	.276			
1.252	1.260	.276				28,30	28,50	7,00	S	*15X28.5X7★	32
14,80mm (.583") SHAFT						1.114	1.122	.276			
29,80	30,00	7,50	S	*14.8X30X7.5★	32	28,80	29,00	7,00	S	*15X29X7★	32
1.173	1.181	.295				1.134	1.142	.276			
						29,80	30,00	5,00	S	*15X30X5★	32
						1.173	1.181	.197			
						29,80	30,00	7,50	S	*15X30X7.5★	32
						1.173	1.181	.295			

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Designed For A Specific Application - Not Recommended For General Use

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
15,00mm (.591") SHAFT (cont.)						.610" SHAFT					
29,80	30,00	8,00	S	* 15X30X8★	32	—	—	—	S	800160	VRS1
1.173	1.181	.315				—	—	—	V	800164	VRS1
29,80	30,00	10,00	S	* 15X30X10★	32	1.102	1.106	.600	V	710274	#
1.173	1.181	.394				.614" SHAFT					
30,00	30,23	7,00	S	221540★	35	—	—	—	S	800160	VRS1
1.181	1.190	.276				—	—	—	V	800164	VRS1
30,00	30,23	7,00	S	15X30X7★	32	15,60mm (.614") SHAFT					
1.181	1.190	.276				25,30	25,50	7,00	S	* 15.6X25.5X7★	32
30,80	31,00	7,00	S	* 15X31X7★	32	.996	1.004	.276			
1.212	1.220	.276				.614" SHAFT					
31,80	32,00	5,00	S	* 15X32X5★	32	.999	1.006	.250	S	340724	34
1.252	1.260	.197				.621" SHAFT					
31,80	32,00	7,50	S	* 15X32X7.5★	32	—	—	—	S	800160	VRS1
1.252	1.260	.295				—	—	—	V	800164	VRS1
31,80	32,00	9,00	S	* 15X32X9★	32	.937	.941	.187	S	* 311197	31
1.252	1.260	.354				.622" SHAFT					
32,00	32,20	7,00	S	15X32X7★	35	—	—	—	S	800160	VRS1
1.260	1.268	.276				—	—	—	V	800164	VRS1
32,00	32,20	7,00	V	* 15X32X7V★	35	1.559	1.567	.453	S	* 712127	32
1.260	1.268	.276				.625" (5/8") SHAFT					
32,00	32,22	8,00	S	15X32X8★	32	—	—	—	S	800160	VRS1
1.260	1.269	.315				—	—	—	V	800164	VRS1
34,80	35,00	5,00	S	* 15X35X5★	32	—	—	.313		99062	Redi-Sleeve
1.370	1.378	.197				.812	.820	.093	S	340387	34
34,80	35,00	6,00	S	* 15X35X6★	32	.875	.879	.230	S	* 9659	#
1.370	1.378	.236				.875	.879	.230	H	* 9659H	#
34,80	35,00	8,00	S	* 15X35X8★	32	.875	.880	.125	S	253747	25
1.370	1.378	.315				.875	.883	.093	S	340849	34
34,80	35,00	10,00	S	* 15X35X10★	32	.936	.942	.187	S	343105	34
1.370	1.378	.394				.937	.945	.187	S	7399S	24
35,00	35,20	7,00	V	* 15X35X7V★	35	.999	1.003	.250	S	7188S	33
1.378	1.386	.276				.999	1.005	.250	S	351487	35
35,00	35,23	7,00	S	15X35X7★	32	1.000	1.004	.156	N	* 6792	4S
1.378	1.387	.276				1.000	1.004	.250	S	* 250416	25
35,80	36,00	7,00	S	* 15X36X7★	32	1.000	1.005	.125	N	314267N	31
1.409	1.417	.276				1.124	1.128	.250	S	48146	#
36,80	37,00	7,00	S	* 15X37X7★	32	1.124	1.128	.250	S	41466S	4S
1.449	1.457	.276				1.124	1.128	.250	S	471466	47
37,00	37,20	6,00	S	15X37X6★	32	1.124	1.128	.250	A	471466A	47
1.457	1.465	.236				1.124	1.128	.250	N	* 471466N	47
37,80	38,00	10,00	S	* 15X38X10★	32	1.124	1.128	.250	V	471466V	47
1.488	1.496	.394				1.124	1.128	.250	S	* 481466	48
38,00	38,20	7,00	S	* 15X38X7★	32	1.124	1.128	.250	V	* 481466V	48
1.496	1.504	.276				1.124	1.128	.312	S	* 410791	41
39,80	40,00	8,00	S	* 15X40X8★	32	1.124	1.128	.312	V	410791V	41
1.567	1.575	.315				1.124	1.128	.312	S	* 450791	45
39,80	40,00	10,00	S	* 15X40X10★	32	1.124	1.128	.312	V	* 450791V	45
1.567	1.575	.394				1.124	1.128	.312	S	* 470791	47
40,00	40,20	7,00	S	15X40X7★	32	1.124	1.128	.312	H	* 470791H	47
1.575	1.583	.276				1.124	1.128	.312	N	* 470791N	47
41,80	42,00	7,00	S	* 15X42X7★	32	1.124	1.128	.312	S	* 480791	48
1.646	1.654	.276				1.124	1.128	.375	L	* 50009	5L
41,80	42,00	8,00	S	* 15X42X8★	32	1.124	1.128	.375	S	* 410009	41
1.646	1.654	.315				1.124	1.128	.375	N	* 410009N	41
41,80	42,00	10,00	S	* 15X42X10★	32	1.124	1.128	.375	S	* 450009	45
1.646	1.654	.394				1.124	1.128	.375	V	* 450009V	45
.593" (19/32") SHAFT						1.124	1.128	.375	S	470009	47
—	—	.197		99059	Redi-Sleeve	1.124	1.128	.375	N	* 470009N	47
.935	.943	.175	S	340797	34	1.124	1.128	.375	S	* 480009	48
1.000	1.008	.203	S	* 712128	32	1.124	1.128	.375	S	* 48009V	45
1.124	1.128	.312	S	471532	47	1.124	1.128	.375	S	470009	47
1.124	1.128	.375	S	* 450008	45	1.124	1.128	.375	N	* 470009N	47
1.250	1.254	.312	S	473405	47	1.124	1.128	.375	S	* 48009	48
1.250	1.254	.375	S	* 450017	45	1.124	1.128	.375	S	* 470009	47
1.250	1.254	.375	V	* 450017V	45	1.124	1.128	.375	N	* 470009N	47
1.375	1.379	.250	S	* 481552	48	1.124	1.128	.375	S	* 480009	48
1.375	1.379	.312	S	471558	47	1.124	1.128	.375	S	712017	#
1.375	1.379	.406	S	* 450022	45						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

SIZE SECTION

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.625" (5/8") SHAFT (cont.)						16,00mm (.630") SHAFT (cont.)					
1.124	1.128	.375	S	712024	#	21,80	22,00	7,00	S	*16X22X7★	32
1.124	1.128	.531	V	*3074V	49	.858	.866	.276			
1.124	1.129	.250	V	*3757V	35	22,00	22,20	4,00	S	16X22X4★	32
1.124	1.130	.250	S	340009S	34	.866	.874	.157			
1.124	1.130	.250	S	351466	35	23,80	24,00	4,00	S	*16X24X4★	32
1.124	1.135	.175	S	240009	24	.937	.945	.157			
1.124	1.135	.175	S	*240791	24	24,00	24,20	6,00	S	16X24X6★	32
1.124	1.135	.175	N	*240791N	24	.945	.953	.236			
1.181	1.185	.350	V	*471291V	47	24,00	24,20	7,00	S	16X24X7★	32
1.246	1.250	.375	S	450535	45	.945	.953	.276			
1.246	1.250	.375	S	*480535	48	24,80	25,00	5,00	S	*16X25X5★	32
1.250	1.254	.250	V	471264V	47	.976	.984	.197			
1.250	1.254	.250	S	41264S	4S	24,80	25,00	6,00	S	*16X25X6★	32
1.250	1.254	.250	S	471264	47	.976	.984	.236			
1.250	1.254	.250	A	471264A	47	24,80	25,00	7,00	S	*16X25X7★	32
1.250	1.254	.250	S	*481264	48	.976	.984	.276			
1.250	1.254	.375	S	*410018	41	25,00	25,20	5,00	S	16X24X5★	35
1.250	1.254	.375	S	*450018	45	.984	.992	.197			
1.250	1.254	.375	S	470018	47	25,80	26,00	5,00	S	*16X26X5★	32
1.250	1.254	.375	S	*480018	48	1.016	1.024	.197			
1.375	1.379	.250	S	*40023S	4S	25,80	26,00	6,00	S	*16X26X6★	32
1.375	1.379	.250	S	471255	47	1.016	1.024	.236			
1.375	1.379	.250	A	471255A	47	25,80	26,00	6,00	S	*16X26X6★	32
1.375	1.379	.250	V	471255V	47	1.016	1.024	.236			
1.375	1.379	.250	S	*481255	48	26,00	26,10	7,00	S	710243★	25
1.375	1.379	.250	V	*481255V	48	1.024	1.028	.276			
1.375	1.379	.312	S	*411324	41	26,00	26,20	7,00	S	16X26X7★	32
1.375	1.379	.312	S	*451324	45	1.024	1.031	.276			
1.375	1.379	.312	S	*471324	47	26,80	27,00	7,00	S	*16X27X7★	32
1.375	1.379	.312	S	*481324	48	1.055	1.063	.276			
1.375	1.379	.406	S	*410023	41	27,00	27,20	14,00	N	221607★	#
1.375	1.379	.406	S	*450023	45	1.063	1.071	.551			
1.375	1.379	.406	H	*450023H	45	27,23	27,33	9,00	V	*4662V★	47
1.375	1.379	.406	S	470023	47	1.072	1.076	.354			
1.375	1.379	.406	S	*480023	48	27,23	27,33	9,00	V	714662★	47
1.375	1.381	.250	S	351255	35	1.072	1.076	.354			
1.375	1.385	.175	S	240023	24	28,00	28,20	7,00	V	*16X28X7V★	32
1.377	1.381	.406	S	*450557	45	1.102	1.110	.276			
1.377	1.381	.406	S	470557	47	28,00	28,23	7,00	N	221610★	32
1.499	1.503	.250	S	471564	47	1.102	1.111	.276			
1.499	1.503	.312	S	*481564	48	28,00	28,23	7,00	S	16X28X7★	32
1.499	1.503	.312	S	*411577	41	1.102	1.111	.276			
1.499	1.503	.312	S	*451577	45	28,30	28,50	8,00	S	*16X28.5X8★	32
1.499	1.503	.312	S	*471577	47	1.114	1.122	.315			
1.499	1.503	.312	S	*481577	48	28,80	29,00	7,00	S	*16X29X7★	32
1.499	1.503	.390	S	*410975	41	1.134	1.142	.276			
1.499	1.503	.390	S	*450975	45	29,80	30,00	4,50	S	*16X30X4.5★	32
1.499	1.503	.390	S	*470975	47	1.173	1.181	.177			
1.499	1.503	.390	S	*480975	48	29,80	30,00	5,00	S	*16X30X5★	32
1.575	1.579	.312	S	471612	47	1.173	1.181	.197			
1.575	1.579	.312	S	*481612	48	29,80	30,00	6,00	S	*16X30X6★	32
1.624	1.628	.312	S	*411653	41	1.173	1.181	.236			
1.624	1.628	.312	S	471653	47	29,80	30,00	8,00	S	*16X30X8★	32
1.624	1.628	.437	S	*411024	41	1.173	1.181	.315			
1.624	1.628	.437	S	*451024	45	29,80	30,00	10,00	S	*16X30X10★	32
1.624	1.628	.437	S	471024	47	1.173	1.181	.394			
1.624	1.628	.437	S	*481024	48	30,00	30,20	7,00	V	*16X30X7V★	35
1.624	1.628	.489	S	*472207	47	1.181	1.189	.276			
1.625	1.629	.250	S	484114	48	30,00	30,23	7,00	S	221620★	35
1.687	1.691	.750	N	*712132	#	1.181	1.190	.276			
1.752	1.756	.312	S	*471695	47	30,00	30,23	7,00	S	16X30X7★	32
2.047	2.051	.312	S	*472137	47	1.181	1.190	.276			
2.441	2.445	.375	S	*472146	47	31,80	32,00	10,00	S	*16X32X10★	32
16,00mm (.630") SHAFT						1.252	1.260	.394			
-	-	-	S	800160	VRS1	32,00	32,28	7,00	S	16X32X7★	32
-	-	-	V	800164	VRS1	1.260	1.271	.276			
-	-	.313		99058		33,80	34,00	4,00	S	*16X34X4★	32
20,80	21,00	6,00	S	*16X21X6★	32	1.331	1.339	.157			
.819	.827	.236				34,80	35,00	8,00	S	*16X35X8★	32
						1.370	1.378	.315			
						34,80	35,00	10,00	S	*16X35X10★	32
						1.370	1.378	.394			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
16,00mm (.630") SHAFT (cont.)						17,00mm (.669") SHAFT (cont.)					
35,00	35,23	7,00	S	16X35X7★	32	24,80	25,00	7,00	S	*17X25X7★	32
1.378	1.387	.276				.976	.984	.276			
36,00	36,20	7,00	S	*16X36X7★	32	25,00	25,10	5,00	S	710362★	49
1.417	1.425	.276				.984	.988	.197			
36,80	37,00	7,00	S	*16X37X7★	32	25,80	26,00	6,00	S	*17X26X6★	32
1.449	1.457	.276				1.016	1.024	.236			
37,80	38,00	8,00	S	*16X38X8★	32	25,80	26,00	7,00	S	*17X26X7★	32
1.488	1.496	.315				1.016	1.024	.276			
38,00	38,20	7,00	S	16X38X7★	32	26,80	27,00	5,00	S	*17X27X5★	32
1.496	1.504	.276				1.055	1.063	.197			
39,80	40,00	10,00	S	*16X40X10★	32	26,80	27,00	8,00	S	*17X27X8★	32
1.567	1.575	.394				1.055	1.063	.315			
40,00	40,20	7,00	S	16X40X7★	32	26,80	27,00	10,00	S	*17X27X10★	32
1.575	1.583	.276				1.055	1.063	.394			
44,75	44,96	9,00	V	*4616V★	#	27,00	27,20	7,00	S	17X27X7★	32
1.762	1.770	.354				1.063	1.071	.276			
44,75	44,96	9,00	V	714616★	#	27,80	28,00	4,50	S	*17X28X4.5★	32
1.762	1.770	.354				1.094	1.102	.177			
56,00	56,20	6,50	V	710261★➔	32	27,80	28,00	5,00	S	*17X28X5★	32
2.205	2.213	.256				1.094	1.102	.197			
.634" SHAFT						17,00mm (.669") SHAFT (cont.)					
-	-	-	S	800160	VRS1	27,80	28,00	6,00	S	*17X28X6★	32
-	-	-	V	800164	VRS1	1.094	1.102	.236			
1.246	1.255	.300	T	*100459T	#	27,80	28,00	8,00	S	*17X28X8★	32
16,40mm (.646") SHAFT						17,00mm (.669") SHAFT (cont.)					
29,80	30,00	5,00	S	*16.4X30X5★	32	1.094	1.102	.315			
1.173	1.181	.197				28,00	28,20	7,00	V	*17X28X7V★	35
.656" (21/32") SHAFT						17,00mm (.669") SHAFT (cont.)					
-	-	-	S	800160	VRS1	1.102	1.110	.276			
-	-	-	V	800164	VRS1	28,00	28,23	7,00	S	221710★	35
1.124	1.128	.250	S	481528	48	1.102	1.111	.276			
1.125	1.129	.375	S	*451096	45	28,00	28,23	7,00	S	17X28X7★	35
1.125	1.129	.375	H	*451096H	45	1.102	1.111	.276			
1.250	1.254	.250	S	481537	48	28,00	28,23	7,00	S	*17X28X7★	35
1.250	1.254	.375	S	*450469	45	1.102	1.111	.276			
1.250	1.258	.250	S	340469	34	28,30	28,50	7,00	S	*17X28.5X7★	32
1.250	1.258	.250	N	*340469N	34	1.114	1.122	.276			
1.375	1.379	.250	S	481073	48	28,80	29,00	5,00	S	*17X29X5★	32
1.375	1.379	.312	S	*450649	45	1.134	1.142	.197			
1.375	1.379	.406	S	*450024	45	29,00	29,20	7,00	S	*17X29X7★	32
1.561	1.565	.250	S	*481592	48	1.142	1.150	.276			
1.575	1.579	.250	S	481397	48	29,80	30,00	5,00	S	*17X30X5★	32
1.575	1.579	.312	H	*481436H	48	1.173	1.181	.197			
1.575	1.579	.375	S	*450780	45	29,80	30,00	6,00	S	*17X30X6★	32
1.752	1.756	.250	S	*481682	48	1.173	1.181	.236			
.668" SHAFT						17,00mm (.669") SHAFT (cont.)					
-	-	-	S	800160	VRS1	29,80	30,00	6,00	S	*17X30X6★	32
-	-	-	V	800164	VRS1	1.173	1.181	.236			
-	-	.315		99068	Redi-Sleeve	29,80	30,00	6,00	S	*17X30X6★	32
1.187	1.191	.185	S	481481	48	1.173	1.181	.236			
17,00mm (.669") SHAFT						17,00mm (.669") SHAFT (cont.)					
-	-	-	S	800160	VRS1	29,80	30,00	8,00	S	*17X30X8★	32
-	-	-	V	800164	VRS1	1.173	1.181	.315			
-	-	.315		99068	Redi-Sleeve	29,80	30,00	8,00	S	*17X30X8★	32
20,80	20,90	3,10	S	710361★	44	1.173	1.181	.315			
.819	.823	.122				29,80	30,00	10,00	S	*17X30X10★	32
23,80	24,00	7,00	S	*17X24X7★	32	1.173	1.181	.394			
.937	.945	.276				30,00	30,20	7,00	V	*17X30X7V★	35
24,80	25,00	4,00	S	*17X25X4★	32	1.181	1.189	.276			
.976	.984	.157				30,00	30,23	8,00	S	221720★	32
24,80	25,00	6,00	S	*17X25X6★	32	1.181	1.190	.276			
.976	.984	.236				30,00	30,23	7,00	S	17X30X7★	32
17,00mm (.669") SHAFT (cont.)						17,00mm (.669") SHAFT (cont.)					
						1.181	1.190	.276			
						30,80	31,00	7,00	S	*17X31X7★	32
						1.212	1.220	.276			
						30,80	31,00	8,00	S	*17X31X8★	32
						1.212	1.220	.315			
						31,55	31,75	8,00	S	*17X31.75X8★	32
						1.242	1.250	.315			
						31,80	32,00	5,00	S	*17X32X5★	32
						1.252	1.260	.197			
						31,80	32,00	6,00	S	*17X32X6★	32
						1.252	1.260	.236			
						31,80	32,00	8,00	S	*17X32X8★	32
						1.252	1.260	.315			
						32,00	32,22	7,00	S	221730★	35
						1.260	1.269	.276			
						32,00	32,22	7,00	S	17X32X7★	32
						1.260	1.269	.276			
						32,80	33,00	7,00	S	*17X33X7★	32
						1.291	1.299	.276			
						33,80	34,00	4,00	S	*17X34X4★	32
						1.331	1.339	.157			

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
17,00mm (.669") SHAFT (cont.)						.687" (11/16") SHAFT (cont.)					
33,80	34,00	7,00	S	*17X34X7★	32	1.125	1.129	.312	S	*471297	47
1.331	1.339	.276				1.125	1.129	.312	N	*471297N	47
34,00	34,10	7,90	N	710251★	47	1.187	1.191	.187	S	*474261	47
1.339	1.343	.311				1.250	1.254	.250	S	*8773S➔	25
34,30	34,50	4,00	S	*17X34.5X4★	32	1.250	1.254	.250	S	*471538	47
1.350	1.358	.157				1.250	1.254	.250	S	*481538	48
34,80	35,00	6,00	S	*17X35X6★	32	1.250	1.254	.250	V	*481538V	48
1.370	1.378	.236				1.250	1.254	.375	S	*410355	41
34,80	35,00	10,00	S	*17X35X10★	32	1.250	1.254	.375	S	*450355	45
1.370	1.378	.394				1.250	1.254	.375	S	*470355	47
35,00	35,18	7,00	S	17X35X7★	35	1.250	1.254	.375	S	*480355	48
1.378	1.385	.276				1.375	1.379	.250	S	*471553	47
35,00	35,18	7,00	S	221735★	35	1.375	1.379	.250	S	*481553	48
1.378	1.385	.276				1.375	1.379	.312	S	*451559	45
35,00	35,20	7,00	V	*17X35X7V★	35	1.375	1.379	.312	S	*471559	47
1.378	1.386	.276				1.375	1.379	.406	S	*410025	41
35,00	35,20	8,00	S	17X35X8★	35	1.375	1.379	.406	S	*450025	45
1.378	1.386	.315				1.375	1.379	.406	S	*470025	47
36,00	36,20	7,00	S	*17X36X7★	32	1.375	1.379	.406	S	*480025	48
1.417	1.425	.276				1.499	1.503	.312	S	*471579	47
36,80	37,00	10,00	S	*17X37X10★	32	1.499	1.503	.312	S	*481579	48
1.449	1.457	.394				1.499	1.503	.390	S	*410205	41
37,00	37,20	7,00	S	17X37X7★	32	1.499	1.503	.390	S	*450205	45
1.457	1.465	.276				1.499	1.503	.390	N	*450205N	45
37,80	38,00	10,00	S	*17X38X10★	32	1.499	1.503	.390	S	*470205	47
1.488	1.496	.394				1.499	1.503	.390	S	*480205	48
38,00	38,20	7,00	S	17X38X7★	32	1.624	1.628	.250	S	*471642	47
1.496	1.504	.276				17,50mm (.689") SHAFT					
39,80	40,00	5,00	S	*17X40X5★	32	-	-	-	S	800160	VRS1
1.567	1.575	.197				-	-	-	V	800164	VRS1
39,80	40,00	8,00	S	*17X40X8★	32	27,50	27,70	7,00	N	710299★	#
1.567	1.575	.315				1.083	1.091	.276			
39,80	40,00	10,00	S	*17X40X10★	32	31,80	32,00	6,00	S	*17.5X32X6★	32
1.567	1.575	.394				1.252	1.260	.236			
40,00	40,23	7,00	S	17X40X7★	32	.690" SHAFT					
1.575	1.584	.276				-	-	-	S	800160	VRS1
42,00	42,20	7,00	S	*17X42X7★	32	-	-	-	V	800164	VRS1
1.654	1.661	.276				.997	1.003	.295	S	3667&	271
45,00	45,20	7,00	S	*17X45X7★	32	17,60mm (.693") SHAFT					
1.772	1.780	.276				29,80	30,00	7,00	S	*17.6X30X7★	32
45,80	46,00	6,00	S	*17X46X6★	32	1.173	1.181	.276			
1.803	1.811	.236				.697" SHAFT					
46,00	46,20	7,00	S	*17X46X7★	32	1.220	1.227	.204	V	*320242	32
1.811	1.819	.276				.701" SHAFT					
46,80	47,00	10,00	S	*17X47X10★	32	1.160	1.164	.250	S	331173	33
1.842	1.850	.394				18,00mm (.709") SHAFT					
47,00	47,20	7,00	S	17X47X7★	35	-	-	.315	S	*99082	Redi-Sleeve
1.850	1.858	.276				23,00	23,20	4,00	S	710297★	34
47,00	47,20	8,00	S	17X47X8★	32	.906	.913	.157			
1.850	1.858	.315				24,80	25,00	7,00	S	*18X25X7★	32
17,40mm (.685") SHAFT						.976	.984	.276			
-	-	-	S	800160	VRS1	25,80	26,00	7,00	S	*18X26X7★	32
-	-	-	V	800164	VRS1	1.016	1.024	.276			
-	-	.313		99060	Redi-Sleeve	26,00	26,10	4,00	S	710222★	98
30,00	30,20	7,00	S	710344★	32	1.024	1.028	.157			
1.181	1.189	.276				26,80	27,00	7,00	S	*18X27X7★	32
.687" (11/16") SHAFT						1.055	1.063	.276			
-	-	-	S	800160	VRS1	27,80	28,00	7,00	S	*18X28X7★	32
-	-	-	V	800164	VRS1	1.094	1.102	.276			
1.124	1.128	.250	S	*471529	47	18,00mm (.709") SHAFT					
1.124	1.128	.250	S	*481529	48	-	-	.315	S	*99082	Redi-Sleeve
1.124	1.128	.250	N	*481529N	48	23,00	23,20	4,00	S	710297★	34
1.124	1.128	.312	S	*451297	45	.906	.913	.157			
1.124	1.128	.375	S	*410137	41	24,80	25,00	7,00	S	*18X25X7★	32
1.124	1.128	.375	S	*450137	45	.976	.984	.276			
1.124	1.128	.375	S	*470137	47	25,80	26,00	7,00	S	*18X26X7★	32
1.124	1.128	.375	S	*480137	48	1.016	1.024	.276			
1.125	1.129	.312	S	*411297	41	26,00	26,10	4,00	S	710222★	98

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
18,00mm (.709") SHAFT (cont.)						18,00mm (.709") SHAFT (cont.)					
27,80	28,00	8,00	S	* 18X28X8★	32	40,00	40,22	7,00	S	18X40X7★	32
1.094	1.102	.315				1.575	1.583	.276			
27,80	28,00	10,00	S	* 18X28X10★	32	40,00	40,20	7,00	V	* 18X40X7V★	35
1.094	1.102	.394				1.575	1.583	.276			
28,00	28,20	6,00	S	1015★	35	41,80	42,00	7,00	S	* 18X42X7★	32
1.102	1.110	.236				1.646	1.654	.276			
28,00	28,20	6,00	S	1015N★	35	41,80	42,00	10,00	S	* 18X42X10★	32
1.102	1.110	.236				1.646	1.654	.394			
28,00	28,20	6,00	N	* 4400★	34	.718" SHAFT					
1.102	1.110	.236				1.250	1.254	.375	L	* 50506	5L
28,00	28,20	7,00	V	* 18X28X7V★	35	1.250	1.254	.375	S	470506	47
1.102	1.110	.276				.735" SHAFT					
28,00	28,28	6,00	S	18X28X6★	32	1.248	1.252	.250	S	472878	47
1.102	1.113	.236				18,70mm (.736") SHAFT					
28,80	29,00	7,00	S	* 18X29X7★	32	35,00	35,20	7,00	N	710272★	32
1.134	1.142	.276				1.378	1.386	.276			
29,80	30,00	6,00	S	* 18X30X6★	32	.737" SHAFT					
1.173	1.181	.236				1.375	1.379	.343	S	473416	47
29,80	30,00	6,00	S	* 18X30X6★	32	1.375	1.382	.312	S	* 3802	#
1.173	1.181	.236				.739" SHAFT					
29,80	30,00	8,00	S	* 18X30X8★	32	1.250	1.254	.407	S	* 4084	#
1.173	1.181	.315				.742" SHAFT					
29,80	30,00	10,00	S	* 18X30X10★	32	1.063	1.067	.187	S	7929S	33
1.173	1.181	.394				19,00mm (.748") SHAFT					
30,00	30,10	6,70	S	3816★&	271	-	-	.313		99076	Redi-Sleeve
1.181	1.185	.264				-	-	.375		99075	Redi-Sleeve
30,00	30,23	7,00	S	18X30X7★	32	24,80	25,00	6,00	S	* 19X25X6★	32
1.181	1.190	.276				.976	.984	.236			
30,00	30,23	9,00	S	221820★➔	32	26,80	27,00	5,00	S	* 19X27X5★	32
1.181	1.190	.354				1.055	1.063	.197			
30,80	31,00	7,00	S	* 18X31X7★	32	26,80	27,00	10,00	S	* 19X27X10★	32
1.212	1.220	.276				1.055	1.063	.394			
31,80	32,00	6,00	S	* 18X32X6★	32	27,00	27,20	6,00	S	19X27X6★	35
1.252	1.260	.236				1.063	1.071	.236			
31,80	32,00	10,00	S	* 18X32X10★	32	27,80	28,00	7,00	S	* 19X28X7★	32
1.252	1.260	.394				1.094	1.102	.276			
32,00	32,10	7,00	S	710156★	#	28,80	29,00	7,00	S	* 19X29X7★	32
1.260	1.264	.276				1.134	1.142	.276			
32,00	32,20	7,00	S	18X32X7★	35	30,00	30,20	7,00	S	19X30X7★	32
1.260	1.268	.276				1.181	1.189	.276			
32,00	32,20	7,00	V	* 18X32X7V★	35	30,00	30,20	7,00	S	221920★	32
1.260	1.268	.276				1.181	1.189	.276			
32,00	32,22	8,00	S	221830★	35	31,80	32,00	5,00	S	* 19X32X5★	32
1.260	1.269	.315				1.252	1.260	.197			
32,00	32,22	8,00	S	18X32X8★	32	31,80	32,00	6,00	S	* 19X32X6★	32
1.260	1.269	.315				1.252	1.260	.394			
32,00	32,23	12,70	N	* 4401★	#	32,00	32,20	7,00	S	19X32X7★	35
1.260	1.269	.500				1.260	1.268	.276			
33,80	34,00	7,00	S	* 18X34X7★	32	32,00	32,20	8,00	S	19X32X8★	32
1.331	1.339	.276				1.260	1.268	.315			
34,00	34,20	8,00	S	710412★	32	32,00	32,20	8,00	S	221922★	32
1.339	1.346	.315				1.260	1.268	.315			
34,80	35,00	8,00	S	* 18X35X8★	32	32,80	33,00	8,00	S	* 19X33X8★	32
1.370	1.378	.315				1.291	1.299	.315			
34,80	35,00	10,00	S	* 18X35X10★	32	33,30	33,50	7,00	S	* 19X33.5X7★	32
1.370	1.378	.394				1.311	1.319	.276			
35,00	35,18	7,00	S	18X35X7★	32						
1.378	1.385	.276									
35,00	35,20	8,00	V	* 18X35X8V★	35						
1.378	1.386	.315									
36,00	36,20	7,00	S	* 18X36X7★	32						
1.417	1.425	.276									
36,80	37,00	7,00	S	* 18X37X7★	32						
1.449	1.457	.276									
37,00	37,20	8,00	S	18X37X8★	32						
1.457	1.465	.315									
37,80	38,00	10,00	S	* 18X38X10★	32						
1.488	1.496	.394									
38,00	38,20	7,00	S	18X38X7★	32						
1.496	1.504	.276									
39,80	40,00	10,00	S	* 18X40X10★	32						
1.567	1.575	.394									

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW & Flanged O.D.
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
19,00mm (.748") SHAFT (cont.)						.750" (3/4") SHAFT (cont.)					
33,80	34,00	7,00	S	*19X34X7★	32	1.250	1.254	.250	N	*480954N	48
1.331	1.339	.276				1.250	1.254	.250	V	480954V	48
34,80	35,00	7,00	S	*19X35X7★	32	1.250	1.254	.250	S	712027	#
1.370	1.378	.276				1.250	1.254	.280	S	2287	274
34,80	35,00	8,00	S	*19X35X8★	32	1.250	1.254	.312	S	6835S	33
1.370	1.378	.315				1.250	1.254	.375	S	*410141	41
34,93	35,00	8,00	S	710445★	35	1.250	1.254	.375	S	*450141	45
1.375	1.378	.315				1.250	1.254	.375	V	*450141V	45
35,00	35,23	10,00	S	19X35X10★	32	1.250	1.254	.375	S	470141	47
1.378	1.387	.394				1.250	1.254	.375	S	*480141	48
35,00	35,23	10,00	S	710273★	35	1.250	1.254	.375	H	*480141H	48
1.378	1.387	.394				1.250	1.254	.375	S	712014	#
35,80	36,00	7,00	S	*19X36X7★	32	1.250	1.254	.437	S	*3075	282
1.409	1.417	.276				1.250	1.255	.275	S	*473571	47
36,00	36,23	6,50	S	221925★	35	1.250	1.256	.250	S	350954	35
1.417	1.426	.256				1.250	1.258	.312	S	350679	35
36,80	37,00	10,00	S	*19X37X10★	32	1.263	1.267	.250	S	*472129	47
1.449	1.457	.394				1.302	1.306	.250	S	474131	47
37,00	37,20	7,00	S	*19X37X7★	32	1.311	1.315	.312	S	*252450	25
1.457	1.465	.276				1.311	1.315	.312	S	7013S	25
37,80	38,00	8,00	S	*19X38X8★	32	1.312	1.316	.250	S	480821	48
1.488	1.496	.315				1.375	1.379	.250	S	40027S	4S
37,80	38,00	10,00	S	*19X38X10★	32	1.375	1.379	.250	S	471554	47
1.488	1.496	.394				1.375	1.379	.250	A	471554A	47
38,00	38,20	7,00	S	*19X38X7★	32	1.375	1.379	.250	N	*471554N	47
1.496	1.504	.276				1.375	1.379	.250	V	471554V	47
38,00	38,20	7,00	S	710154★	32	1.375	1.379	.250	S	*481554	48
1.496	1.504	.276				1.375	1.379	.250	N	*481554N	48
1.499	1.504	.312	S	*2855	#	1.375	1.379	.250	V	*481554V	48
39,80	40,00	7,00	S	*19X40X7★	32	1.375	1.379	.312	S	7028	25
1.567	1.575	.276				1.375	1.379	.312	V	*7028V	25
40,00	40,23	10,00	S	19X40X10★	35	1.375	1.379	.312	S	*410895	41
1.575	1.584	.394				1.375	1.379	.312	S	*450895	45
40,80	41,00	7,00	S	*19X41X7★	32	1.375	1.379	.312	V	*450895V	45
1.606	1.614	.276				1.375	1.379	.312	S	470895	47
42,00	42,20	7,00	S	*19X42X7★	32	1.375	1.379	.312	S	*480895	48
1.654	1.661	.276				1.375	1.379	.406	V	*50027	5L
45,00	45,20	7,00	S	*19X45X7★	32	1.375	1.379	.406	S	*410027	41
1.772	1.780	.276				1.375	1.379	.406	S	*450027	45
46,00	46,20	7,00	S	*19X46X7★	32	1.375	1.379	.406	H	*450027H	45
1.811	1.819	.276				1.375	1.379	.406	N	*450027N	45
47,00	47,20	7,00	S	19X47X7★	32	1.375	1.379	.406	S	470027	47
1.850	1.858	.276				1.375	1.379	.406	S	*480027	48
47,63	47,73	6,35	S	*43361★	4S	1.375	1.379	.406	H	*480027H	48
1.875	1.879	.250				1.375	1.379	.500	S	*73289S	7S
.750" (3/4") SHAFT						1.499	1.503	.250	S	471567	47
-	-	-	S	800200	VRS1	1.499	1.503	.250	S	*481567	48
-	-	-	V	800204	VRS1	1.499	1.503	.312	S	*411580	41
-	-	.313		99076	Redi-Sleeve	1.499	1.503	.312	H	*451580H	45
-	-	.375		99075	Redi-Sleeve	1.499	1.503	.312	S	*471580	47
.999	1.010	.156	S	240735	24	1.499	1.503	.312	S	*481580	48
1.000	1.004	.125	S	727410	44	1.499	1.503	.390	S	*410028	41
1.000	1.005	.125	S	312518	31	1.499	1.503	.390	S	*450028	45
1.000	1.005	.125	S	342518	34	1.499	1.503	.390	S	*480028	48
1.031	1.035	.313	S	7214	49	1.561	1.565	.375	S	*410340	41
1.062	1.072	.187	S	240816	24	1.561	1.565	.375	S	450340	45
1.124	1.128	.188	S	7750	48	1.561	1.565	.375	S	470340	47
1.124	1.129	.187	S	254270	25	1.561	1.565	.375	S	*480340	48
1.124	1.133	.250	S	340495	34	1.575	1.579	.312	S	471498	47
1.125	1.129	.250	S	1049	33	1.575	1.579	.312	H	*471498H	47
1.125	1.131	.156	S	343185	34	1.575	1.579	.375	S	*410580	41
1.187	1.191	.156	S	*313043	31	1.575	1.579	.375	S	*450580	45
1.250	1.254	.250	S	41389S	4S	1.624	1.628	.250	S	471643	47
1.250	1.254	.250	S	470954	47	1.624	1.628	.250	S	*481643	48
1.250	1.254	.250	A	470954A	47	1.624	1.628	.312	S	*411656	41
1.250	1.254	.250	H	*470954H	47	1.624	1.628	.312	S	*451656	45
1.250	1.254	.250	N	*470954N	47	1.624	1.628	.312	S	*471656	47
1.250	1.254	.250	V	470954V	47	1.624	1.628	.312	H	*471656H	47
1.250	1.254	.250	S	480954	48	1.624	1.628	.312	S	*481656	48
						1.624	1.628	.312	V	*481656V	48

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Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.750" (3/4") SHAFT (cont.)						.781" (25/32") SHAFT (cont.)					
1.624	1.628	.437	S	*410211	41	1.499	1.503	.250	S	481568	48
1.624	1.628	.437	S	*450211	45	1.499	1.503	.312	S	*451581	45
1.624	1.628	.437	S	470211	47	1.499	1.503	.312	S	*471581	47
1.624	1.628	.437	S	*480211	48	1.499	1.503	.390	S	*450029	45
1.752	1.756	.250	S	471684	47	1.499	1.503	.390	S	*470029	47
1.752	1.756	.250	S	*481684	48	1.624	1.628	.250	S	481644	48
1.752	1.756	.312	S	*411698	41	1.624	1.628	.437	S	*470212	47
1.752	1.756	.312	S	471698	47	1.752	1.756	.312	S	*411337	41
1.752	1.756	.375	S	*481428	48	1.752	1.756	.312	S	471337	47
1.752	1.756	.437	S	*410222	41	1.752	1.756	.437	S	*450223	45
1.752	1.756	.437	S	*450222	45	1.752	1.756	.437	S	*470223	47
1.752	1.756	.437	S	*470222	47	1.828	1.832	.437	S	*450034	45
1.752	1.756	.437	S	*480222	48	1.828	1.832	.437	S	470034	47
1.783	1.787	.250	S	*473196	47	1.828	1.833	.250	S	474273	47
1.828	1.832	.375	S	473406	47	1.850	1.854	.312	S	*482089	48
1.828	1.832	.437	S	*410033	41	1.850	1.854	.375	S	*472237	47
1.828	1.832	.437	S	*450033	45	1.874	1.878	.437	S	*451739	45
1.828	1.832	.437	S	470033	47	20,00mm (.787") SHAFT					
1.828	1.832	.437	S	*480033	48	-	-	-	S	800200	VRS1
1.874	1.878	.250	S	470390	47	-	-	-	V	800204	VRS1
1.874	1.878	.250	N	*470390N	47	-	-	.313		99078	Redi-Sleeve
1.874	1.878	.250	S	*480390	48	24,80	25,00	7,00	S	*20X25X7★	32
1.874	1.878	.437	S	*410610	41	.976	.984	.276			
1.874	1.878	.437	S	*450610	45	25,80	26,00	4,00	S	*20X26X4★	32
1.874	1.878	.437	S	*470610	47	1.016	1.024	.157			
1.874	1.878	.437	S	*480610	48	25,80	26,00	5,00	S	*20X26X5★	32
1.983	1.987	.250	S	473407	47	1.016	1.024	.197			
1.983	1.987	.437	S	*411385	41	25,80	26,00	5,60	S	*20X26X5.6★	32
1.983	1.987	.437	S	*451385	45	1.016	1.024	.220			
1.983	1.987	.437	S	*471385	47	26,00	26,20	4,00	S	710249★	97
1.983	1.987	.437	S	*481385	48	1.024	1.031	.157			
2.047	2.051	.312	S	472649	47	26,80	27,00	5,00	S	*20X27X5★	32
2.127	2.131	.250	S	472538	47	1.055	1.063	.197			
2.374	2.378	.375	S	*472361	47	27,80	28,00	4,00	S	*20X28X4★	32
.762" SHAFT						1.094	1.102	.157			
-	-	-	S	800200	VRS1	27,80	28,00	7,00	S	*20X28X7★	32
-	-	-	V	800204	VRS1	1.094	1.102	.276			
1.160	1.164	.250	S	8750S	33	28,00	28,20	6,00	S	20X28X6★	32
19,50mm (.768") SHAFT						1.102	1.110	.236			
34,80	35,00	6,00	S	*19.5X35X6★	32	29,80	30,00	4,50	S	*20X30X4.5★	32
1.370	1.378	.236				1.173	1.181	.177			
19,80mm (.780") SHAFT						29,80	30,00	5,50	S	*20X30X5.5★	32
29,80	30,00	5,00	S	*19.8X30X5★	32	1.173	1.181	.217			
1.173	1.181	.197				29,80	30,00	6,00	S	*20X30X6★	32
.781" (25/32") SHAFT						1.173	1.181	.236			
-	-	-	S	800200	VRS1	29,80	30,00	9,00	S	*20X30X9★	32
-	-	-	V	800204	VRS1	1.173	1.181	.354			
-	-	.313		*99080	Redi-Sleeve	29,80	30,00	10,00	S	*20X30X10★	32
1.250	1.254	.250	S	470601	47	1.173	1.181	.394			
1.250	1.254	.250	S	*480601	48	30,00	30,20	5,00	S	20X30X5★	35
1.250	1.254	.375	S	*471540	47	1.181	1.189	.197			
1.250	1.254	.375	V	471540V	47	30,00	30,20	5,00	V	*20X30X5V★	35
1.375	1.379	.250	V	481443V	48	1.181	1.189	.276			
1.375	1.379	.250	S	471443	47	30,00	30,28	7,00	S	222025★	32
1.375	1.379	.250	N	*471443N	47	1.181	1.192	.276			
1.375	1.379	.250	S	481443	48	30,00	30,28	7,00	S	20X30X7★	35
1.375	1.379	.312	S	*451560	45	1.181	1.192	.276			
1.375	1.379	.312	N	*451560N	45	30,80	31,00	5,00	S	*20X31X5★	32
1.375	1.379	.312	S	*471560	47	1.212	1.220	.197			
1.375	1.379	.406	S	*410203	41	31,00	31,20	7,00	S	*20X31X7★	32
1.375	1.379	.406	S	*450203	45	1.220	1.228	.276			
1.375	1.379	.406	S	*470203	47	31,80	32,00	5,00	S	*20X32X5★	32
1.378	1.382	.406	S	*451031	45	1.252	1.260	.197			
1.378	1.382	.406	S	*471031	47	31,80	32,00	6,00	S	*20X32X6★	32
						1.252	1.260	.236			
						31,80	32,00	7,50	S	*20X32X7.5★	32
						1.252	1.260	.295			

SIZE SECTION

For Illustration and Material Data See Technical Section
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
20,00mm (.787") SHAFT (cont.)						20,00mm (.787") SHAFT (cont.)					
31,80	32,00	8,00	S	*20X32X8★	32	40,00	40,23	7,00	S	20X40X7★	32
1.252	1.260	.315				1.575	1.584	.276			
31,80	32,00	10,00	S	*20X32X10★	32	40,00	40,23	10,00	S	20X40X10★	35
1.252	1.260	.394				1.575	1.584	.394			
32,00	32,21	5,00	N	710450★	32	41,05	41,25	7,00	S	*20X41.25X7★	32
1.260	1.268	.197				1.616	1.624	.276			
32,00	32,23	7,00	S	222020★	35	41,80	42,00	6,00	S	*20X42X6★	32
1.260	1.269	.276				1.646	1.654	.236			
32,00	32,23	7,00	S	20X32X7★	32	41,80	42,00	8,00	S	*20X42X8★	32
1.260	1.269	.276				1.646	1.654	.315			
32,80	33,00	7,00	S	*20X33X7★	32	42,00	42,15	10,00	S	20X42X10★	45
1.291	1.299	.276				1.654	1.659	.394			
32,80	33,00	10,00	S	*20X33X10★	32	42,00	42,25	7,00	S	20X42X7★	32
1.291	1.299	.394				1.654	1.663	.276			
33,80	34,00	7,00	S	*20X34X7★	32	42,00	42,25	7,00	V	*20X42X7V★	35
1.331	1.339	.276				1.654	1.663	.276			
34,00	34,25	7,00	S	222028★◀	32	43,80	44,00	7,00	S	*20X44X7★	32
1.339	1.348	.276				1.724	1.732	.276			
34,80	35,00	6,00	S	*20X35X6★	32	44,80	45,00	7,00	S	*20X45X7★	32
1.370	1.378	.236				1.764	1.772	.276			
34,80	35,00	8,00	S	*20X35X8★	32	44,80	45,00	8,00	S	*20X45X8★	32
1.370	1.378	.315				1.764	1.772	.315			
34,80	35,00	10,00	S	*20X35X10★	32	44,80	45,00	10,00	S	*20X45X10★	32
1.370	1.378	.394				1.764	1.772	.394			
35,00	35,20	7,00	V	*710280★	32	44,80	45,00	12,00	S	*20X45X12★	32
1.378	1.386	.276				1.764	1.772	.472			
35,00	35,23	5,50	S	222030★➔	32	45,80	46,00	8,00	S	*20X46X8★	32
1.378	1.387	.217				1.803	1.811	.315			
35,00	35,23	7,00	S	20X35X7★	32	46,00	46,20	7,00	S	*20X46X7★	32
1.378	1.387	.276				1.811	1.819	.276			
35,80	36,00	8,00	S	*20X36X8★	32	46,80	47,00	6,00	S	*20X47X6★	32
1.409	1.417	.315				1.842	1.850	.236			
35,80	36,00	10,00	S	*20X36X10★	32	46,80	47,00	8,00	S	*20X47X8★	32
1.409	1.417	.394				1.842	1.850	.315			
35,80	36,00	12,00	S	*20X36X12★	32	46,80	47,00	9,00	S	*20X47X9★	32
1.409	1.417	.472				1.842	1.850	.354			
36,00	36,20	7,00	S	20X36X7★	32	46,80	47,00	10,00	S	*20X47X10★	32
1.417	1.425	.276				1.842	1.850	.394			
36,00	36,20	7,00	V	222036★	32	46,80	47,00	12,00	S	*20X47X12★	32
1.417	1.425	.276				1.842	1.850	.472			
36,80	37,00	6,00	S	*20X37X6★	32	46,80	47,00	13,00	S	*20X47X13★	32
1.449	1.457	.236				1.842	1.850	.512			
36,80	37,00	10,00	S	*20X37X10★	32	47,00	47,20	7,00	V	*20X47X7V★	35
1.449	1.457	.394				1.850	1.858	.276			
37,00	37,20	7,00	S	20X37X7★	32	47,00	47,20	7,00	S	222060★	35
1.457	1.465	.276				1.850	1.858	.276			
37,00	37,20	8,00	S	20X37X8★	32	47,00	47,20	8,50	S	710342★➔	32
1.457	1.465	.315				1.850	1.858	.335			
37,50	37,70	7,00	S	*20X37.7X7★	32	47,00	47,22	7,00	S	20X47X7★	32
1.476	1.484	.276				1.850	1.859	.276			
37,80	38,00	5,00	S	*20X38X5★	32	47,80	48,00	8,00	S	*20X48X8★	32
1.488	1.496	.197				1.882	1.890	.315			
37,80	38,00	8,00	S	*20X38X8★	32	47,80	48,00	10,00	S	*20X48X10★	32
1.488	1.496	.315				1.882	1.890	.394			
37,80	38,00	10,00	S	*20X38X10★	32	48,00	48,20	7,00	S	*20X48X7★	32
1.488	1.496	.394				1.890	1.898	.276			
38,00	38,20	7,00	S	20X38X7★	32	48,80	49,00	7,00	S	*20X49X7★	32
1.496	1.504	.276				1.921	1.929	.276			
38,80	39,00	6,00	S	*20X39X6★	32	49,80	50,00	8,00	S	*20X50X8★	32
1.527	1.535	.236				1.961	1.969	.315			
39,60	39,80	6,50	S	*20X39.8X6.5★	32	49,80	50,00	10,00	S	*20X50X10★	32
1.559	1.567	.256				1.961	1.969	.394			
39,80	40,00	8,00	S	*20X40X8★	32	50,00	50,20	7,00	S	*20X50X7★	32
1.567	1.575	.315				1.969	1.976	.276			
39,80	40,00	9,00	S	*20X40X9★	32	51,75	52,00	8,00	S	*20X52X8★	32
1.567	1.575	.354				2.037	2.047	.315			
39,80	40,00	12,00	S	*20X40X12★	32	51,75	52,00	9,00	S	*20X52X9★	32
1.567	1.575	.472				2.037	2.047	.354			
40,00	40,20	7,00	V	*20X40X7V★	32	51,75	52,00	10,00	S	*20X52X10★	32
1.575	1.583	.276				2.037	2.047	.394			
40,00	40,23	7,00	S	222050★	35	51,75	52,00	12,00	S	*20X52X12★	32
1.575	1.584	.276				2.037	2.047	.472			

For Illustration and Material Data See Technical Section

➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
20,00mm (.787") SHAFT (cont.)						21,00mm (.827") SHAFT (cont.)					
52,00	52,20	7,00	S	20X52X7★	32	36,80	37,00	5,50	S	*21X37X5.5★	32
2.047	2.055	.276				1.449	1.457	.217			
.796" SHAFT						.843' (27/32") SHAFT					
—	—	—	S	800200	VRS1	—	—	—	S	800220	VRS1
—	—	—	V	800204	VRS1	—	—	—	V	800224	VRS1
1.250	1.254	.375	S	*451470	45	1.374	1.378	.312	S	*472452	47
1.499	1.503	.625	S	6357S	92	1.499	1.503	.250	S	473413	47
.812" (13/16") SHAFT						21,50mm (.846") SHAFT					
—	—	—	S	800200	VRS1	34,80	35,00	8,00	S	*21.5X35X8★	32
—	—	—	V	800204	VRS1	1.370	1.378	.315			
1.250	1.254	.250	S	*471539	47	21,70mm (.854") SHAFT					
1.250	1.254	.250	S	*481539	48	34,80	35,00	6,50	S	*21.7X35X6.5★	32
1.250	1.254	.254	S	8609	47	1.370	1.378	.256			
1.250	1.254	.375	S	450431	45	.860" SHAFT					
1.312	1.316	.250	S	*480889	48	—	—	—	S	800220	VRS1
1.312	1.316	.250	H	*480889H	48	—	—	—	V	800224	VRS1
1.367	1.372	.312	S	*252317	25	—	—	.250	S	*99086	Redi-Sleeve
1.375	1.379	.250	S	*480673	48	1.437	1.441	.250	N	482069N	48
1.375	1.379	.312	V	471231V	47	.864" SHAFT					
1.375	1.379	.312	S	*471231	47	—	—	—	S	800220	VRS1
1.375	1.379	.406	S	*450204	45	—	—	—	V	800224	VRS1
1.375	1.379	.406	N	*450204N	45	—	—	.315	S	*99085	Redi-Sleeve
1.375	1.379	.406	S	470204	47	1.375	1.379	.250	S	*472065	47
1.375	1.379	.406	S	*480204	48	1.375	1.379	.250	N	*472065N	47
1.375	1.381	.250	S	353131	35	22,00mm (.866") SHAFT					
1.499	1.503	.250	S	*474253	47	—	—	—	S	800220	VRS1
1.499	1.503	.312	S	*450592	45	—	—	—	V	800224	VRS1
1.499	1.503	.312	N	*450592N	45	—	—	.315	S	*99085	Redi-Sleeve
1.499	1.503	.312	S	470592	47	1.375	1.379	.250	S	*472065	47
1.499	1.503	.390	S	450030	45	1.375	1.379	.250	N	*472065N	47
1.499	1.503	.390	N	*450030N	45	22,00mm (.866") SHAFT					
1.499	1.503	.390	S	*480030	48	—	—	—	S	800220	VRS1
1.561	1.565	.375	S	*450515	45	—	—	—	V	800224	VRS1
1.561	1.565	.375	S	470515	47	—	—	.315	S	*99085	Redi-Sleeve
1.561	1.565	.375	S	*480515	48	28,00	28,20	8,00	S	*22X28X8★	32
1.575	1.579	.375	S	*450588	45	1.102	1.110	.315			
1.575	1.579	.375	S	470588	47	29,80	30,00	7,00	S	*22X30X7★	32
1.624	1.628	.250	S	*471645	47	1.173	1.181	.276			
1.624	1.628	.250	V	*471645V	47	29,80	30,00	8,00	S	*22X30X8★	32
1.624	1.628	.437	S	*450213	45	1.173	1.181	.315			
1.624	1.628	.437	S	*480213	48	30,80	31,00	7,00	S	*22X31X7★	32
1.750	1.754	.312	S	*472650	47	1.212	1.220	.276			
1.752	1.756	.250	S	471686	47	31,00	31,20	6,00	S	22X31X6★	32
1.752	1.756	.437	S	*450224	45	1.220	1.228	.236			
1.752	1.756	.437	S	*480224	48	31,00	31,20	8,00	S	*22X31X8★	32
1.828	1.832	.375	S	473412	47	1.220	1.228	.315			
1.828	1.832	.437	S	*450035	45	31,80	32,00	5,00	S	*22X32X5★	32
1.828	1.832	.437	S	*480035	48	1.252	1.260	.197			
1.874	1.878	.250	S	471729	47	31,80	32,00	6,00	S	*22X32X6★	32
1.874	1.878	.437	S	*450591	45	1.252	1.260	.236			
1.874	1.878	.437	S	*480591	48	21,00mm (.827") SHAFT					
2.441	2.445	.375	S	*472950	47	—	—	—	S	800200	VRS1
21,00mm (.827") SHAFT						21,00mm (.827") SHAFT					
—	—	—	S	800200	VRS1	—	—	—	V	800204	VRS1
—	—	—	V	800204	VRS1	30,80	31,00	7,00	S	*21X31X7★	32
30,80	31,00	7,00	S	*21X31X7★	32	1.212	1.220	.276			
1.212	1.220	.276				31,80	32,00	5,00	S	*21X32X5★	32
31,80	32,00	5,00	S	*21X32X5★	32	1.252	1.260	.197			
1.252	1.260	.197				32,80	33,00	7,00	S	*21X33X7★	32
32,80	33,00	7,00	S	*21X33X7★	32	1.291	1.299	.276			
1.291	1.299	.276				35,00	35,20	7,00	S	21X35X7★	32
35,00	35,20	7,00	S	21X35X7★	32	1.378	1.386	.276			
1.378	1.386	.276				35,00	35,20	8,00	S	21X35X8★	32
35,00	35,20	8,00	S	21X35X8★	32	1.378	1.386	.315			
1.378	1.386	.315				36,00	36,20	8,00	S	*21X36X8★	32
36,00	36,20	8,00	S	*21X36X8★	32	1.417	1.425	.315			
1.417	1.425	.315				21,00mm (.827") SHAFT					

SIZE SECTION

For Illustration and Material Data See Technical Section

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
22,00mm (.866") SHAFT (cont.)						22,00mm (.866") SHAFT (cont.)					
32,00	32,20	7,00	V	*22X32X7V★	35	41,80	42,00	6,00	S	*22X42X6★	32
1.260	1.268	.276				1.646	1.654	.236			
32,00	32,23	7,00	S	222210★	35	41,80	42,00	11,00	S	*22X42X11★	32
1.260	1.269	.276				1.646	1.654	.433			
32,00	32,23	7,00	S	22X32X7★	32	42,00	42,20	7,00	S	22X42X7★	32
1.260	1.269	.276				1.654	1.661	.276			
32,80	33,00	7,00	S	*22X33X7★	32	42,00	42,20	10,00	S	22X42X10★	35
1.291	1.299	.276				1.654	1.661	.394			
32,80	33,00	10,00	S	*22X33X10★	32	43,80	44,00	7,00	S	*22X44X7★	32
1.291	1.299	.394				1.724	1.732	.276			
33,80	34,00	7,00	S	*22X34X7★	32	44,80	45,00	5,00	S	*22X45X5★	32
1.331	1.339	.276				1.764	1.772	.197			
34,80	35,00	5,00	S	*22X35X5★	32	44,80	45,00	8,00	S	*22X45X8★	32
1.370	1.378	.197				1.764	1.772	.315			
34,80	35,00	8,00	S	*22X35X8★	32	44,80	45,00	10,00	S	*22X45X10★	32
1.370	1.378	.315				1.764	1.772	.394			
34,80	35,00	9,00	S	*22X35X9★	32	45,00	45,20	8,00	H	222267★◀	32
1.370	1.378	.354				1.772	1.780	.315			
34,80	35,00	10,00	S	*22X35X10★	32	45,00	45,23	7,00	S	22X45X7★	35
1.370	1.378	.394				1.772	1.781	.276			
35,00	35,20	7,00	V	*22X35X7V★	35	46,00	46,20	8,00	S	*22X46X8★	32
1.378	1.386	.276				1.811	1.819	.315			
35,00	35,23	7,00	S	222220★	32	46,80	47,00	10,00	S	*22X47X10★	32
1.378	1.387	.276				1.842	1.850	.394			
35,00	35,23	7,00	S	22X35X7★	32	47,00	47,23	7,00	S	222270★	35
1.378	1.387	.276				1.850	1.859	.276			
35,80	36,00	8,00	S	*22X36X8★	32	47,00	47,23	7,00	S	22X47X7★	32
1.409	1.417	.315				1.850	1.859	.276			
35,80	36,00	10,00	S	*22X36X10★	32	47,80	48,00	7,00	S	*22X48X7★	32
1.409	1.417	.394				1.882	1.890	.276			
36,00	36,20	7,00	S	22X36X7★	32	47,80	48,00	11,00	S	*22X48X11★	32
1.417	1.425	.276				1.882	1.890	.433			
36,80	37,00	6,00	S	*22X37X6★	32	48,00	48,20	8,00	S	*22X48X8★	32
1.449	1.457	.236				1.890	1.898	.315			
37,00	37,23	7,00	S	22X37X7★	35	49,80	50,00	5,00	S	*22X50X5★	32
1.457	1.466	.276				1.961	1.969	.197			
38,00	38,20	7,00	S	22X38X7★	35	49,80	50,00	10,00	S	*22X50X10★	32
1.496	1.504	.276				1.961	1.969	.394			
38,00	38,20	7,00	V	*22X38X7V★	35	50,00	50,20	8,00	S	*22X50X8★	32
1.496	1.504	.276				1.969	1.976	.315			
38,00	38,20	8,00	S	22X38X8★	32	51,75	52,00	10,00	S	*22X52X10★	32
1.496	1.504	.315				2.037	2.047	.394			
38,00	38,20	8,00	S	222238★	32	52,00	52,20	8,00	S	*22X52X8★	32
1.496	1.504	.315				2.047	2.055	.315			
38,80	39,00	7,00	S	*22X39X7★	32	55,75	56,00	7,00	S	*22X56X7★	32
1.527	1.535	.276				2.195	2.205	.276			
39,80	40,00	4,00	S	*22X40X4★	32	.875" (7/8") SHAFT					
1.567	1.575	.157				-	-	-	S	800220	VRS1
39,80	40,00	10,00	S	*22X40X10★	32	-	-	-	V	800224	VRS1
1.567	1.575	.394				-	-	.313		99087	Redi-Sleeve
39,80	40,00	11,00	S	*22X40X11★	32	1.124	1.135	.125	S	240733	24
1.567	1.575	.433				1.187	1.191	.185	S	*442168	44
39,80	40,00	12,00	S	*22X40X12★	32	1.187	1.193	.187	S	340850	34
1.567	1.575	.472				1.245	1.256	.187	S	5976S	34
40,00	40,18	16,00	S	*1163★	#	1.249	1.254	.187	S	7840S	31
1.575	1.582	.630				1.250	1.254	.250	S	42280S	4S
40,00	40,20	7,00	V	*22X40X7V★	32	1.250	1.255	.250	S	254287	25
1.575	1.583	.276				1.250	1.255	.250	V	*254287V	25
40,00	40,20	8,00	S	22X40X8★	35	1.250	1.256	.250	S	340483	34
1.575	1.583	.315				1.254	1.260	.205	S	7014S	4S
40,00	40,23	7,00	S	22X40X7★	32	1.260	1.265	.250	V	*250861V	25
1.575	1.584	.276				1.308	1.314	.250	S	353132	35
40,00	40,23	7,00	S	222240★	35	1.308	1.316	.250	S	340413	34
1.575	1.584	.276				1.374	1.378	.406	S	470398	47
40,00	40,23	12,00	N	222242★	32	1.374	1.379	.406	S	*410398	41
1.575	1.584	.472				1.374	1.379	.406	S	*450398	45
40,00	40,34	7,75	N	1963★➔	35	1.375	1.379	.187	S	440131	44
1.575	1.588	.305				1.375	1.379	.250	S	*441267	44
41,05	41,25	6,00	S	*22X41.25X6★	32	1.375	1.379	.250	S	41267S	4S
1.616	1.624	.236				1.375	1.379	.250	S	471267	47
41,30	41,50	6,00	S	*22X41.5X6★	32						
1.626	1.634	.236									

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.875" (7/8") SHAFT (cont.)						.875" (7/8") SHAFT (cont.)					
1.375	1.379	.250	A	471267A	47	1.752	1.756	.312	S	*481700	48
1.375	1.379	.250	H	*471267H	47	1.752	1.756	.437	S	*450226	45
1.375	1.379	.250	T	*471267T	47	1.752	1.756	.437	S	*470226	47
1.375	1.379	.250	V	471267V	47	1.752	1.756	.437	S	*480226	48
1.375	1.379	.250	S	*481267	48	1.828	1.832	.375	S	471137	47
1.375	1.379	.250	H	*481267H	48	1.828	1.832	.375	S	*481137	48
1.375	1.379	.250	N	*481267N	48	1.828	1.832	.437	S	*410037	41
1.375	1.379	.250	V	712015	#	1.828	1.832	.437	S	*450037	45
1.375	1.379	.312	T	38832	94	1.828	1.832	.437	N	*450037N	45
1.375	1.379	.312	S	*410567	41	1.828	1.832	.437	S	*470037	47
1.375	1.379	.312	S	*450567	45	1.828	1.832	.437	S	*480037	48
1.375	1.379	.312	H	*450567H	45	1.874	1.878	.250	S	471730	47
1.375	1.379	.312	N	*450567N	45	1.874	1.878	.250	H	*481730H	48
1.375	1.379	.312	V	*450567V	45	1.874	1.878	.437	S	*410424	41
1.375	1.379	.312	S	470567	47	1.874	1.878	.437	S	*450424	45
1.375	1.379	.312	H	*470567H	47	1.874	1.878	.437	S	*470424	47
1.375	1.379	.312	N	470567N	47	1.874	1.878	.437	S	*480424	48
1.375	1.379	.312	V	*470567V	47	1.874	1.878	.437	N	*480424N	48
1.375	1.379	.312	S	*480567	48	1.983	1.987	.250	S	*481741	48
1.375	1.379	.312	N	*480567N	48	2.000	2.004	.437	S	*450645	45
1.375	1.379	.375	V	*712147	43	2.000	2.004	.437	S	470645	47
1.375	1.381	.250	S	321267	32	23,00mm (.905") SHAFT					
1.375	1.381	.250	S	351267	35	-	-	-	S	800220	VRS1
1.375	1.383	.312	S	*320567	32	-	-	-	V	800224	VRS1
1.375	1.385	.312	S	350567	35	31,80	32,00	5,50	S	710254★	34
1.436	1.441	.256	S	712270	48	1.252	1.260	.217			
1.499	1.503	.250	S	*40032S	45	32,00	32,20	5,00	S	222310★	34
1.499	1.503	.250	S	471570	47	1.260	1.268	.197			
1.499	1.503	.250	V	471570V	47	34,00	34,23	6,50	S	710155★	35
1.499	1.503	.250	S	*481570	48	1.339	1.348	.256			
1.499	1.503	.250	V	*481570V	48	34,00	34,23	8,00	N	222330★◀	32
1.499	1.503	.312	S	*410680	41	1.339	1.348	.315			
1.499	1.503	.312	N	*410680N	41	40,00	40,23	7,00	N	222340★➔	32
1.499	1.503	.312	S	*450680	45	1.575	1.584	.276			
1.499	1.503	.312	H	*450680H	45	.906" (29/32") SHAFT					
1.499	1.503	.312	V	*450680V	45	-	-	-	S	800220	VRS1
1.499	1.503	.312	S	470680	47	-	-	-	V	800224	VRS1
1.499	1.503	.312	S	*480680	48	23,00mm (.906") SHAFT					
1.499	1.503	.390	S	*410032	41	31,80	32,00	7,00	S	*23X32X7★	32
1.499	1.503	.390	S	*450032	45	1.252	1.260	.276			
1.499	1.503	.390	N	*450032N	45	34,80	35,00	7,00	S	*23X35X7★	32
1.499	1.503	.390	S	470032	47	1.370	1.378	.276			
1.499	1.503	.390	S	*480032	48	35,80	36,00	6,00	S	*23X36X6★	32
1.573	1.577	.250	N	*483011N	48	1.409	1.417	.236			
1.575	1.579	.250	S	*470877	47	35,80	36,00	7,00	S	*23X36X7★	32
1.575	1.579	.375	S	*410781	41	1.409	1.417	.276			
1.575	1.579	.375	S	*450781	45	35,80	36,00	10,00	S	*23X36X10★	32
1.575	1.581	.250	S	350877	35	1.409	1.417	.394			
1.575	1.584	.669	N	*4026	#	35,80	36,00	13,00	S	*23X36X13★	32
1.575	1.750	.281	F	*6385	29	1.409	1.417	.512			
1.577	1.581	.250	S	471633	47	36,80	37,00	7,00	S	*23X37X7★	32
1.577	1.581	.250	N	*471633N	47	1.449	1.457	.276			
1.577	1.581	.250	S	*481633	48	37,80	38,00	7,00	S	*23X38X7★	32
1.624	1.628	.250	S	471646	47	1.488	1.496	.276			
1.624	1.628	.250	S	*481646	48	.906" (29/32") SHAFT					
1.624	1.628	.312	S	*411659	41	1.499	1.503	.390	S	470207	47
1.624	1.628	.312	S	*451659	45	23,00mm (.906") SHAFT					
1.624	1.628	.312	S	*471659	47	39,80	40,00	6,00	S	*23X40X6★	32
1.624	1.628	.312	S	*481659	48	1.567	1.575	.236			
1.624	1.628	.437	S	*410215	41	39,80	40,00	10,00	S	*23X40X10★	32
1.624	1.628	.437	S	*450215	45	1.567	1.575	.394			
1.624	1.628	.437	S	470215	47						
1.624	1.628	.437	S	*480215	48						
1.624	1.630	.250	S	351646	35						
1.624	1.634	.187	S	240215	24						
1.689	1.690	.250	S	*481674	48						
1.750	1.754	.312	V	*473285V	47						
1.752	1.756	.250	S	470590	47						
1.752	1.756	.250	S	*480590	48						
1.752	1.756	.312	S	*411700	41						
1.752	1.756	.312	S	*451700	45						
1.752	1.756	.312	S	*471700	47						

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

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Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	
.906" (29/32") SHAFT						24,00mm (.945") SHAFT (cont.)						
1.625	1.629	.312	S	*482371	48	35.00	35.23	7.00	S	222410★	35	
23,00mm (.906") SHAFT						1.378	1.387	.276				
41.80	42.00	7.00	S	*23X42X7★	32	35.00	35.23	7.00	S	24X35X7★	32	
1.646	1.654	.276				1.378	1.387	.276				
42.80	43.00	8.00	S	*23X43X8★	32	35.80	36.00	7.00	S	*24X36X7★	32	
1.685	1.693	.315				1.409	1.417	.276				
.906" (29/32") SHAFT						35.80	36.00	8.00	S	*24X36X8★	32	
1.828	1.832	.437	S	450038	45	1.409	1.417	.315				
23,00mm (.906") SHAFT						36.00	36.20	7.00	V	*24X36X7V★	35	
46.80	47.00	7.00	S	*23X47X7★	32	1.417	1.425	.276				
1.842	1.850	.276				37.00	37.23	7.00	S	24X37X7★	35	
46.80	47.00	8.00	S	*23X47X8★	32	1.457	1.466	.276				
1.842	1.850	.315				37.80	38.00	8.00	S	*24X38X8★	32	
46.80	47.00	10.00	S	*23X47X10★	32	1.488	1.496	.315				
1.842	1.850	.394				37.80	38.00	8.50	S	*24X38X8.5★	32	
.937" (15/16") SHAFT						1.488	1.496	.335				
—	—	—	S	800220	VRS1	37.80	38.00	10.00	S	*24X38X10★	32	
—	—	—	V	800224	VRS1	1.488	1.496	.394				
1.375	1.379	.312	S	471015	47	38.00	38.20	7.00	S	24X38X7★	32	
1.375	1.383	.250	S	340787	34	1.496	1.504	.276				
1.375	1.383	.250	N	*340787N	34	39.80	40.00	8.00	S	*24X40X8★	32	
1.497	1.501	.390	S	*481047	48	1.567	1.575	.315				
1.499	1.503	.250	V	471571V	47	40.00	40.20	6.00	V	*24X40X6V★	35	
1.499	1.503	.250	S	471571	47	1.575	1.583	.236				
1.499	1.503	.250	V	471571V	47	40.00	40.23	7.00	S	222430★	35	
1.499	1.503	.250	S	*481571	48	1.575	1.584	.276				
1.499	1.503	.250	V	481571V	48	40.00	40.23	7.00	S	24X40X7★	32	
1.499	1.503	.390	S	*450184	45	1.575	1.584	.276				
1.499	1.503	.390	S	*480184	48	42.00	42.20	7.00	S	24X42X7★	32	
1.499	1.504	.312	S	*411582	41	1.654	1.661	.276				
1.499	1.504	.312	S	*451582	45	42.00	42.25	8.00	S	*24X42X8★	35	
1.499	1.504	.312	S	*481582	48	1.654	1.663	.315				
1.624	1.628	.250	S	471647	47	42.00	42.25	10.00	S	24X42X10★	32	
1.624	1.628	.250	S	*481647	48	1.654	1.663	.394				
1.624	1.628	.312	S	*451660	45	42.80	43.00	6.00	S	*24X43X6★	32	
1.624	1.628	.312	S	*471660	47	1.685	1.693	.236				
1.624	1.628	.437	S	*450217	45	42.80	43.00	7.00	S	*24X43X7★	32	
1.624	1.628	.437	V	*450217V	45	1.685	1.693	.276				
1.624	1.628	.437	S	*480217	48	43.00	43.23	8.00	S	222450★	25	
1.750	1.754	.312	S	472951	47	1.693	1.702	.315				
1.752	1.756	.250	S	474252	47	44.80	45.00	6.00	S	*24X45X6★	32	
1.752	1.756	.312	S	*451701	45	1.764	1.772	.236				
1.752	1.756	.437	S	*450228	45	44.80	45.00	7.00	S	*24X45X7★	32	
1.752	1.756	.437	S	*480228	48	1.764	1.772	.276				
1.828	1.832	.437	S	450039	45	44.80	45.00	11.00	S	*24X45X11★	32	
1.828	1.832	.437	S	470039	47	1.764	1.772	.433				
1.828	1.832	.437	S	*480039	48	45.00	45.20	8.00	S	*24X45X8★	32	
1.850	1.854	.312	S	474235	47	1.772	1.780	.315				
24,00mm (.945") SHAFT						45.80	46.00	10.00	S	*24X46X10★	32	
—	—	—	S	800220	VRS1	1.803	1.811	.394				
—	—	—	V	800224	VRS1	46.00	46.20	8.00	S	*24X46X8★	32	
31.80	32.00	4.00	S	*24X32X4★	32	1.811	1.819	.315				
1.252	1.260	.157				46.80	47.00	10.00	S	*24X47X10★	32	
31.80	32.00	7.00	S	*24X32X7★	32	1.842	1.850	.394				
1.252	1.260	.276				47.00	47.23	7.00	S	24X47X7★	32	
32.80	33.00	7.00	S	*24X33X7★	32	1.850	1.859	.276				
1.291	1.299	.276				47.80	48.00	7.00	S	*24X48X7★	32	
33.80	34.00	7.00	S	*24X34X7★	32	1.882	1.890	.276				
1.331	1.339	.276				48.00	48.20	8.00	S	*24X48X8★	32	
34.80	35.00	6.00	S	*24X35X6★	32	1.890	1.898	.315				
1.370	1.378	.236				48.80	49.00	12.00	S	*24X49X12★	32	
34.80	35.00	8.00	S	*24X35X8★	32	1.921	1.929	.472				
1.370	1.378	.315				50.00	50.20	8.00	S	*24X50X8★	32	
.968" (31/32") SHAFT						1.969	1.976	.315				
—	—	—	S	800250	VRS1	52.00	52.20	7.00	S	24X52X7★	32	
						2.047	2.055	.276				
						76.72	77.00	18.00	S	*24X77X18★	32	
						3.020	3.031	.709				

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Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.968" (31/32") SHAFT (cont.)						25,00mm (.984") SHAFT (cont.)					
-	-	-	S	800251	VRS2	34,80	35,00	10,00	S	*25X35X10★	32
-	-	-	V	800254	VRS1	1.370	1.378	.394			
-	-	.313		99094	Redi-Sleeve	35,00	35,10	7,00	V	*25X35X7V★	48
-	-	.625		99096	Redi-Sleeve	1.378	1.382	.276			
1.499	1.503	.250	L	40208	4L	35,00	35,20	6,00	S	25X35X6★	32
1.499	1.503	.250	S	*481572	48	1.378	1.386	.236			
1.499	1.503	.250	V	*481572V	48	35,00	35,25	7,00	S	25X35X7★	35
1.499	1.503	.312	V	451583V	45	1.378	1.388	.276			
1.499	1.503	.312	S	451583	45	35,00	35,25	7,00	S	222510★	35
1.499	1.503	.312	S	*481583	48	1.378	1.388	.276			
1.499	1.503	.390	S	*450208	45	35,00	35,25	7,00	V	712007★	32
1.499	1.503	.390	S	*480208	48	1.378	1.388	.276			
1.500	1.507	.187	S	6324S	34	35,80	36,00	6,00	S	*25X36X6★	32
1.575	1.579	.375	S	450545	45	1.409	1.417	.236			
1.624	1.628	.250	S	471648	47	36,00	36,23	7,00	S	25X36X7★	32
1.624	1.628	.250	S	*481648	48	1.417	1.426	.276			
1.624	1.628	.437	S	*450218	45	36,00	36,22	8,00	S	25X36X8★	32
1.624	1.628	.437	N	*450218N	45	1.417	1.426	.315			
1.686	1.690	.312	S	8059S	25	36,80	37,00	5,00	S	*25X37X5★	32
1.750	1.754	.375	S	*452582	45	1.449	1.457	.197			
1.750	1.754	.375	S	*482582	48	36,80	37,00	6,00	S	*25X37X6★	32
1.750	1.754	.437	S	*452132	45	1.449	1.457	.236			
1.752	1.756	.250	S	471688	47	36,80	37,00	8,00	S	*25X37X8★	32
1.752	1.756	.250	S	*481688	48	1.449	1.457	.315			
1.752	1.756	.250	N	*481688N	48	37,00	37,20	5,00	V	*25X37X5V★	35
1.752	1.756	.312	S	*471702	47	1.457	1.465	.197			
1.752	1.756	.312	S	*481702	48	37,00	37,20	7,00	S	25X37X7★	32
1.752	1.756	.437	S	*450229	45	1.457	1.465	.276			
1.828	1.832	.437	S	*410040	41	37,00	37,26	7,00	S	320603★➔	32
1.828	1.832	.437	S	450040	45	1.457	1.467	.276			
1.828	1.832	.437	S	*480040	48	37,80	38,00	6,00	S	*25X38X6★	32
1.850	1.854	.312	S	*482090	48	1.488	1.496	.236			
1.850	1.854	.375	S	482309	48	37,80	38,00	8,00	S	*25X38X8★	32
1.874	1.878	.437	S	451082	45	1.488	1.496	.315			
2.048	2.052	.375	S	482310	48	37,80	38,00	10,00	S	*25X38X10★	32
2.062	2.066	.437	S	450339	45	1.488	1.496	.394			
2.062	2.066	.437	N	*450339N	45	38,00	38,20	7,00	V	*25X38X7V★	35
2.440	2.445	.375	S	472238	47	1.496	1.504	.276			
						38,00	38,23	7,00	S	25X38X7★	32
.975" SHAFT						1.496	1.505	.276			
-	-	-	S	800250	VRS1	38,00	38,23	7,00	S	222535★	32
-	-	-	S	800251	VRS2	1.496	1.505	.276			
-	-	-	V	800254	VRS1	1.499	1.503	.250	S	472324	47
1.874	1.878	.437	S	*452573	45	1.499	1.503	.250	A	472324A	47
						1.499	1.503	.250	H	*472324H	47
25,00mm (.984") SHAFT						1.499	1.503	.250	V	472324V	47
-	-	-	S	800250	VRS1	1.499	1.504	.250	V	4458V	#
-	-	-	S	800251	VRS2	1.500	1.504	.312	S	*471171	47
-	-	-	V	800254	VRS1	1.500	1.508	.410	S	6522S	34
-	-	.313		99098	Redi-Sleeve	38,80	39,00	8,00	S	*25X39X8★	32
31,80	32,00	4,00	S	*25X32X4★	32	1.527	1.535	.315			
1.252	1.260	.157				39,80	40,00	5,00	S	*25X40X5★	32
31,80	32,00	6,00	S	*25X32X6★	32	1.567	1.575	.197			
1.252	1.260	.236				39,80	40,00	6,00	S	*25X40X6★	32
31,80	32,00	7,00	S	*25X32X7★	32	1.567	1.575	.236			
1.252	1.260	.276				39,80	40,00	8,00	S	*25X40X8★	32
32,80	33,00	6,00	S	*25X33X6★	32	1.567	1.575	.315			
1.291	1.299	.236				39,80	40,00	10,00	S	*25X40X10★	32
33,80	34,00	5,00	S	*25X34X5★	32	1.567	1.575	.394			
1.331	1.339	.197				39,80	40,00	11,00	S	*25X40X11★	32
34,80	35,00	5,00	S	*25X35X5★	32	1.567	1.575	.433			
1.370	1.378	.197				39,80	40,00	12,00	S	*25X40X12★	32
34,80	35,00	8,00	S	*25X35X8★	32	1.567	1.575	.472			
1.370	1.378	.315				40,01	40,11	9,50	V	450908V★	45
34,80	35,00	8,50	S	*25X35X8.5★	32	1.575	1.579	.374			
1.370	1.378	.335				40,00	40,10	9,50	S	*450908★	45
34,80	35,00	9,00	S	*25X35X9★	32	1.575	1.579	.374			
1.370	1.378	.354				40,00	40,22	7,00	S	25X40X7★	32
						1.575	1.583	.276			

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
25,00mm (.984") SHAFT (cont.)						25,00mm (.984") SHAFT (cont.)					
40,00	40,20	7,00	V	*25X40X7V★	35	44,80	45,00	10,00	S	*25X45X10★	32
1.575	1.583	.276				1.764	1.772	.394			
40,00	40,22	7,00	S	222540★	47	44,80	45,00	11,00	S	*25X45X11★	32
1.575	1.583	.276				1.764	1.772	.433			
40,00	40,20	7,00	N	710307★◄	32	44,80	45,00	12,00	S	*25X45X12★	32
1.575	1.583	.276				1.764	1.772	.472			
40,00	40,20	8,00	S	710316★➔	32	45,00	45,23	8,00	S	25X45X8★	32
1.575	1.583	.315				1.772	1.781	.315			
40,00	40,31	8,00	S	*324151★	32	46,00	46,20	7,00	S	25X46X7★	32
1.575	1.587	.315				1.811	1.819	.276			
40,00	40,31	8,00	N	*324151N★	32	46,00	46,20	8,00	S	*25X46X8★	32
1.575	1.587	.315				1.811	1.819	.315			
40,54	40,64	6,35	S	712018★	#	1.828	1.832	.437	S	450457	45
1.596	1.600	.250				1.828	1.838	.187	S	240457	24
40,80	41,00	6,00	S	*25X41X6★	32	1.834	1.842	.250	S	*321471	32
1.606	1.614	.236				46,80	47,00	6,00	S	*25X47X6★	32
40,80	41,00	7,00	S	*25X41X7★	32	1.842	1.850	.236			
1.606	1.614	.276				46,80	47,00	8,00	S	*25X47X8★	32
41,00	41,09	8,00	T	39867★◄	W-H	1.842	1.850	.315			
1.614	1.618	.315				46,80	47,00	10,00	S	*25X47X10★	32
41,00	41,20	8,00	S	*25X41.2X8★	32	1.842	1.850	.394			
1.614	1.622	.315				47,00	47,10	9,50	S	*482583★	48
41,05	41,25	6,00	S	*25X41.25X6★	32	1.850	1.854	.374			
1.616	1.624	.236				47,00	47,20	10,00	V	*25X47X10V★	35
41,05	41,25	7,00	S	*25X41.25X7★	32	1.850	1.858	.394			
1.616	1.624	.276				47,00	47,23	7,00	S	25X47X7★	32
41,25	41,35	11,10	S	*450811★	45	1.850	1.859	.276			
1.624	1.628	.437				47,80	48,00	7,00	S	*25X48X7★	32
41,30	41,50	7,00	S	*25X41.5X7★	32	1.882	1.890	.276			
1.626	1.634	.276				47,80	48,00	10,00	S	*25X48X10★	32
41,30	41,50	10,00	S	*25X41.5X10★	32	1.882	1.890	.394			
1.626	1.634	.394				48,00	48,20	8,00	S	25X48X8★	32
41,80	42,00	5,50	S	*25X42X5.5★	32	1.890	1.898	.315			
1.646	1.654	.217				48,80	49,00	10,00	S	*25X49X10★	32
41,80	42,00	7,00	S	*25X42X7★	32	1.921	1.929	.394			
1.646	1.654	.276				49,80	50,00	12,00	S	*25X50X12★	32
41,80	42,00	8,50	S	*25X42X8.5★	32	1.961	1.969	.472			
1.646	1.654	.335				50,00	50,20	8,00	S	25X50X8★	32
41,80	42,00	12,00	S	*25X42X12★	32	1.969	1.976	.315			
1.646	1.654	.472				50,00	50,20	10,00	V	*25X50X10V★	35
42,00	42,20	6,00	S	25X42X6★	32	1.969	1.976	.394			
1.654	1.661	.236				50,00	50,28	10,00	S	25X50X10★	35
42,00	42,20	7,00	V	*25X42X7V★	32	1.969	1.980	.394			
1.654	1.661	.276				51,75	52,00	9,50	S	*25X52X9.5★	32
42,00	42,20	8,00	S	25X42X8★	32	2.037	2.047	.374			
1.654	1.661	.315				51,75	52,00	12,00	S	*25X52X12★	32
42,00	42,30	8,00	H	222556★➔	32	2.037	2.047	.472			
1.654	1.665	.315				52,00	52,10	7,90	S	*472184★	47
42,00	42,28	10,00	S	25X42X10★	35	2.047	2.051	.311			
1.654	1.665	.394				52,00	52,20	7,00	V	*25X52X7V★	35
42,70	42,90	9,50	S	*25X42.9X9.5★	32	2.047	2.055	.276			
1.681	1.689	.374				52,00	52,20	8,00	S	25X52X8★	35
42,80	43,00	7,00	S	*25X43X7★	32	2.047	2.055	.315			
1.685	1.693	.276				52,00	52,20	10,00	S	25X52X10★	35
42,80	43,00	9,00	S	*25X43X9★	32	2.047	2.055	.394			
1.685	1.693	.354				52,00	52,27	7,00	S	25X52X7★	32
42,80	43,00	10,00	S	*25X43X10★	32	2.047	2.058	.276			
1.685	1.693	.394				52,37	52,48	11,10	S	450693★	45
43,80	44,00	7,00	S	*25X44X7★	32	2.062	2.066	.437			
1.724	1.732	.276				52,75	53,00	10,00	S	*25X53X10★	32
43,80	44,00	8,00	S	*25X44X8★	32	2.077	2.087	.394			
1.724	1.732	.315				54,00	54,20	8,00	S	*25X54X8★	32
44,00	44,20	7,00	S	222558★	32	2.126	2.134	.315			
1.732	1.740	.276				54,75	55,00	10,00	S	*25X55X10★	32
44,25	44,45	10,00	S	*25X44.45X10★	32	2.155	2.165	.394			
1.742	1.750	.394				54,75	55,00	12,00	S	*25X55X12★	32
1.749	1.753	.375	V	*483027V	48	2.155	2.165	.472			
1.752	1.756	.313	V	712012	#	55,00	55,20	8,00	S	*25X55X8★	32
44,80	45,00	7,00	S	*25X45X7★	32	2.165	2.173	.315			
1.764	1.772	.276				56,00	56,20	8,00	S	*25X56X8★	32
44,80	45,00	9,00	S	*25X45X9★	32	2.205	2.213	.315			
1.764	1.772	.354									

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
25,00mm (.984") SHAFT (cont.)						1.000" SHAFT (cont.)					
57,75	58,00	10,00	S	* 25X58X10★	32	1.499	1.503	.312	H	* 480553H	48
2.273	2.283	.394				1.499	1.503	.390	S	* 9277	48
58,00	58,20	8,00	S	* 25X58X8★	32	1.499	1.503	.390	S	* 410120	41
2.283	2.291	.315				1.499	1.503	.390	N	* 410120N	41
59,75	60,00	10,00	S	* 25X60X10★	32	1.499	1.503	.390	S	* 450120	45
2.352	2.362	.394				1.499	1.503	.390	H	* 450120H	45
60,00	60,20	8,00	S	* 25X60X8★	32	1.499	1.503	.390	S	470120	47
2.362	2.370	.315				1.499	1.503	.390	N	* 470120N	47
61,75	62,00	8,00	S	* 25X62X8★	32	1.499	1.503	.390	S	* 480120	48
2.431	2.441	.315				1.499	1.507	.250	S	340120	34
62,00	62,20	7,00	S	25X62X7★	32	1.502	1.510	.312	S	350909	35
2.441	2.449	.276				1.561	1.565	.250	V	471270V	47
62,00	62,20	7,00	V	* 25X62X7V★	35	1.561	1.565	.250	S	471270	47
2.441	2.449	.276				1.561	1.565	.375	S	* 410449	41
62,00	62,28	10,00	S	25X62X10★	32	1.561	1.565	.375	S	* 450449	45
2.441	2.452	.394				1.561	1.565	.375	S	* 470449	47
62,00	62,28	10,00	S	222580★	32	1.561	1.565	.375	S	* 480449	48
2.441	2.452	.394				1.561	1.566	.375	N	* 480449N	48
64,75	65,00	10,00	S	* 25X65X10★	32	1.563	1.569	.187	S	343123	34
2.549	2.559	.394				1.575	1.579	.250	S	473380	47
65,75	66,00	8,50	S	* 25X66X8.5★	32	1.575	1.579	.312	S	* 471618	47
2.588	2.598	.335				1.575	1.579	.375	S	* 410818	41
69,75	70,00	10,00	S	* 25X70X10★	32	1.575	1.579	.375	S	* 450818	45
2.746	2.756	.394				1.624	1.628	.250	S	471649	47
71,75	72,00	8,00	S	* 25X72X8★	32	1.624	1.628	.250	A	471649A	47
2.825	2.835	.315				1.624	1.628	.250	V	471649V	47
79,72	80,00	10,00	S	* 25X80X10★	32	1.624	1.628	.250	S	* 481649	48
3.139	3.150	.394				1.624	1.628	.250	N	* 481649N	48
1.000" SHAFT						1.624	1.628	.312	S	* 411662	41
-	-	-	S	800250	VRS1	1.624	1.628	.312	S	* 451662	45
-	-	-	S	800251	VRS2	1.624	1.628	.312	S	* 471662	47
-	-	-	V	800254	VRS1	1.624	1.628	.312	S	* 481662	48
-	-	.313		99101	Redi-Sleeve	1.624	1.628	.312	H	* 481662H	48
1.247	1.253	.187	S	343098	34	1.624	1.628	.437	S	* 410219	41
1.250	1.254	.536	S	6847S	#	1.624	1.628	.437	N	* 410219N	41
1.250	1.260	.125	S	240731	24	1.624	1.628	.437	S	* 450219	45
1.312	1.318	.125	S	342517	34	1.624	1.628	.437	H	* 450219H	45
1.322	1.328	.210	S	710059	48	1.624	1.628	.437	N	* 450219N	45
1.375	1.379	.187	S	441130	44	1.624	1.628	.437	S	470219	47
1.375	1.379	.187	N	* 441130N	44	1.624	1.628	.437	N	* 470219N	47
1.375	1.379	.250	S	252277	25	1.624	1.628	.437	S	* 480219	48
1.375	1.379	.250	V	* 252277V	25	1.625	1.629	.375	S	* 481239	48
1.375	1.379	.250	S	712026	#	1.686	1.690	.250	S	474250	47
1.437	1.441	.250	T	39910◀→	W	1.689	1.693	.250	S	* 41465S	4S
1.437	1.441	.250	S	42311S	4S	1.689	1.693	.250	S	471465	47
1.437	1.441	.250	S	330414	33	1.752	1.756	.250	S	40230S	4S
1.437	1.441	.250	N	* 330414N	33	1.752	1.756	.250	S	471689	47
1.437	1.441	.250	S	472311	47	1.752	1.756	.250	A	471689A	47
1.437	1.441	.250	V	472311V	47	1.752	1.756	.250	V	471689V	47
1.437	1.445	.250	S	350414	35	1.752	1.756	.250	S	* 481689	48
1.437	1.447	.187	S	240414	24	1.752	1.756	.250	N	* 481689N	48
1.499	1.503	.250	L	* 40120	4L	1.752	1.756	.312	S	* 411703	41
1.499	1.503	.250	S	41224S	4S	1.752	1.756	.312	N	* 411703N	41
1.499	1.503	.250	S	* 451224	45	1.752	1.756	.312	S	* 451703	45
1.499	1.503	.250	S	471224	47	1.752	1.756	.312	S	* 471703	47
1.499	1.503	.250	A	471224A	47	1.752	1.756	.312	S	* 481703	48
1.499	1.503	.250	N	* 471224N	47	1.752	1.756	.313	S	712013	#
1.499	1.503	.250	V	471224V	47	1.752	1.756	.375	S	* 450541	45
1.499	1.503	.250	S	* 481224	48	1.752	1.756	.375	S	470541	47
1.499	1.503	.250	H	* 481224H	48	1.752	1.756	.375	N	* 470541N	47
1.499	1.503	.250	V	481224V	48	1.752	1.756	.375	S	* 480541	48
1.499	1.503	.250	S	712016	#	1.752	1.756	.437	S	* 410230	41
1.499	1.503	.312	F	5857	29	1.752	1.756	.437	S	* 450230	45
1.499	1.503	.312	S	* 410553	41	1.752	1.756	.437	N	* 450230N	45
1.499	1.503	.312	S	* 450553	45	1.752	1.756	.437	S	470230	47
1.499	1.503	.312	H	* 450553H	45	1.752	1.756	.437	H	* 470230H	47
1.499	1.503	.312	S	470553	47	1.752	1.756	.437	S	* 480230	48
1.499	1.503	.312	H	* 470553H	47	1.780	1.785	.468	S	203005	203
1.499	1.503	.312	N	* 470553N	47	1.780	1.785	.468	S	204005	204
1.499	1.503	.312	S	* 480553	48	1.780	1.785	.468	F	205005	205
						1.828	1.832	.296	S	450593	45

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◀→ Hydrodynamic Lip Design-Bidirectional

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.000" SHAFT (cont.)						26,00mm (1.024") SHAFT (cont.)					
1.828	1.832	.296	S	470593	47	35.80	36.00	5.00	S	*26X36X5★	32
1.828	1.832	.375	S	*452336	45	1.409	1.417	.197			
1.828	1.832	.375	S	*482336	48	35.80	36.00	7.00	S	*26X36X7★	32
1.828	1.832	.437	S	*50041S	5S	1.409	1.417	.276			
1.828	1.832	.437	S	*410041	41	36.80	37.00	8.00	S	*26X37X8★	32
1.828	1.832	.437	S	*450041	45	1.449	1.457	.315			
1.828	1.832	.437	N	*450041N	45	37.00	37.20	7.00	S	26X37X7★	32
1.828	1.832	.437	S	470041	47	1.457	1.465	.276			
1.828	1.832	.437	S	*480041	48	37.80	38.00	7.00	S	*26X38X7★	32
1.874	1.878	.250	S	471733	47	1.488	1.496	.276			
1.874	1.878	.250	N	*471733N	47	37.80	38.00	8.00	S	*26X38X8★	32
1.874	1.878	.250	S	*481733	48	1.488	1.496	.315			
1.874	1.878	.375	S	*482522	48	38.00	38.20	5.00	S	26X38X5★	32
1.874	1.878	.437	S	*410233	41	1.496	1.504	.197			
1.874	1.878	.437	S	*450233	45	38.00	38.20	8.00	N	222630★	32
1.874	1.878	.437	S	*470233	47	1.496	1.504	.315			
1.874	1.878	.437	S	*480233	48	39.80	40.00	8.00	S	*26X40X8★	32
1.936	1.948	.187	S	240462	24	1.567	1.575	.315			
1.936	1.948	.187	N	*240462N	24	39.80	40.00	10.00	S	*26X40X10★	32
1.983	1.987	.250	S	471744	47	1.567	1.575	.394			
1.983	1.987	.437	S	*450549	45	40.00	40.20	7.00	S	26X40X7★	32
2.000	2.004	.250	S	40157S	4S	1.575	1.583	.276			
2.000	2.004	.250	S	471760	47	41.10	41.30	10.00	S	*26X41.3X10★	32
2.000	2.004	.250	A	471760A	47	1.618	1.626	.394			
2.000	2.004	.250	V	471760V	47	41.80	42.00	8.00	S	*26X42X8★	32
2.000	2.004	.250	S	*481760	48	1.646	1.654	.315			
2.000	2.004	.312	S	*452997	45	42.00	42.20	7.00	S	26X42X7★	32
2.000	2.004	.375	S	*471770	47	1.654	1.661	.276			
2.000	2.004	.375	S	*481770	48	42.00	42.20	8.00	S	710399★➔	32
2.000	2.004	.437	S	*410157	41	1.654	1.661	.315			
2.000	2.004	.437	S	*450157	45	42.00	42.23	10.00	S	26X42X10★	32
2.000	2.004	.437	S	*470157	47	1.654	1.663	.394			
2.000	2.004	.437	S	*480157	48	42.80	43.00	8.00	S	*26X43X8★	32
2.000	2.004	.500	S	*484211	48	1.685	1.693	.315			
2.047	2.051	.312	S	472138	47	43.80	44.00	7.00	S	*26X44X7★	32
2.047	2.051	.312	N	*472138N	47	1.724	1.732	.276			
2.062	2.066	.250	S	471619	47	44.00	44.20	8.00	S	710153★	#
2.062	2.066	.375	S	453165	45	1.732	1.740	.315			
2.062	2.066	.437	S	*410187	41	44.80	45.00	7.00	S	*26X45X7★	32
2.062	2.066	.437	S	*450187	45	1.764	1.772	.276			
2.062	2.066	.437	S	*470187	47	44.80	45.00	10.00	S	*26X45X10★	32
2.062	2.066	.437	S	*480187	48	1.764	1.772	.394			
2.106	2.110	.468	S	*291190	29	45.00	45.20	8.00	S	*26X45X8★	32
2.441	2.445	.375	S	471516	47	1.772	1.780	.315			
2.441	2.447	.375	S	321516	32	46.00	46.20	8.00	S	*26X46X8★	32
2.533	2.537	.250	S	472539	47	1.811	1.819	.315			
2.812	2.817	1.156	N	*6855N	1S	46.80	47.00	6.00	S	*26X47X6★	32
2.875	2.879	.468	S	*3126	41	1.842	1.850	.236			
2.875	2.879	.468	S	*452744	45	46.80	47.00	8.00	S	*26X47X8★	32
						1.842	1.850	.315			
						46.80	47.00	10.00	S	*26X47X10★	32
						1.842	1.850	.394			
						46.80	47.00	11.00	S	*26X47X11★	32
						1.842	1.850	.433			
						46.80	47.00	12.00	S	*26X47X12★	32
						1.842	1.850	.472			
						47.00	47.23	7.00	S	26X47X7★	32
						1.850	1.859	.276			
						47.80	48.00	8.00	S	*26X48X8★	32
						1.882	1.890	.315			
						48.00	48.23	7.00	S	26X48X7★	32
						1.890	1.899	.276			
						48.00	48.23	7.00	S	222655★	32
						1.890	1.899	.276			
						49.80	50.00	7.00	S	*26X50X7★	32
						1.961	1.969	.276			
						49.80	50.00	10.00	S	*26X50X10★	32
						1.961	1.969	.394			
		.313		99103	Redi-Sleeve	50.00	50.20	8.00	S	*26X50X8★	32
						1.969	1.976	.315			
34.80	35.00	7.00	S	*26X35X7★	32	51.75	52.00	7.00	S	*26X52X7★	32
1.370	1.378	.276				2.037	2.047	.276			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
26,00mm (1.024") SHAFT (cont.)						1.062" (1-1/16") SHAFT (cont.)					
52,00	52,20	8,00	S	26X52X8★	32	1.686	1.690	.375	S	470606	47
2.047	2.055	.315				1.689	1.693	.250	S	*481677	48
61,75	62,00	9,00	S	*26X62X9★	32	1.750	1.754	.375	S	*471001	47
2.431	2.441	.354				1.752	1.756	.312	S	*451705	45
71,75	72,00	10,00	S	*26X72X10★	32	1.752	1.756	.312	S	471705	47
2.825	2.835	.394				1.752	1.756	.375	S	*451718	45
1.031" (1-1/32") SHAFT						1.752	1.756	.375	S	*471718	47
—	—	—	S	800250	VRS1	1.752	1.756	.375	S	*481718	48
—	—	—	S	800251	VRS2	1.752	1.756	.437	S	*450232	45
—	—	—	V	800254	VRS1	1.752	1.756	.437	S	*480232	48
1.499	1.503	.390	L	50209	5L	1.828	1.832	.375	S	473419	47
1.575	1.579	.312	V	471076V	47	1.828	1.832	.375	V	*482584V	48
1.575	1.579	.312	S	471076	47	1.828	1.832	.437	S	450043	45
1.575	1.579	.312	V	471076V	47	1.828	1.832	.437	S	*480043	48
1.575	1.579	.312	S	*481076	48	1.874	1.878	.250	S	471735	47
1.624	1.628	.250	S	481650	48	1.874	1.878	.250	H	*471735H	47
1.624	1.628	.437	S	*450220	45	1.874	1.878	.375	S	*473378	47
1.037" SHAFT						1.874	1.878	.437	S	*450127	45
—	—	—	S	800250	VRS1	1.874	1.878	.437	H	*450127H	45
—	—	—	S	800251	VRS2	1.874	1.878	.437	S	*480127	48
—	—	—	V	800254	VRS1	1.874	1.878	.437	N	*480127N	48
1.575	1.579	.333	S	*4346➔	#	1.938	1.942	.625	F	*205011	205
1.040" SHAFT						1.983	1.987	.437	S	450342	45
—	—	—	S	800250	VRS1	1.983	1.987	.437	N	*450342N	45
—	—	—	S	800251	VRS2	1.983	1.987	.437	S	470342	47
—	—	—	V	800254	VRS1	1.983	1.987	.437	S	*480342	48
1.811	1.815	.280	S	*484132	48	2.000	2.004	.250	S	471762	47
1.044" SHAFT						2.000	2.004	.375	S	*451772	45
.000	1.713	.275	V	710511	32	2.000	2.004	.375	S	471772	47
1.047" SHAFT						2.000	2.004	.375	S	*481772	48
—	—	—	S	800250	VRS1	2.000	2.004	.437	S	*450158	45
—	—	—	S	800251	VRS2	2.000	2.004	.437	S	*480158	48
—	—	—	V	800254	VRS1	2.062	2.066	.375	S	473420	47
1.811	1.815	.285	S	710053	48	2.062	2.066	.437	S	*450628	45
1.055" SHAFT						2.062	2.066	.437	S	*480628	48
—	—	—	S	800250	VRS1	2.750	2.754	.437	S	*204084	204
—	—	—	S	800251	VRS2	2.835	2.839	.375	S	472953	47
—	—	—	V	800254	VRS1	2.835	2.839	.375	V	472953V	47
1.500	1.504	.268	S	9376	68	27,00mm (1.063") SHAFT					
1.062" (1-1/16") SHAFT						—	—	—	S	800250	VRS1
—	—	—	S	800250	VRS1	—	—	—	S	800251	VRS2
—	—	—	S	800251	VRS2	—	—	—	V	800254	VRS1
—	—	—	V	800254	VRS1	—	—	.313		99106	Redi-Sleeve
—	—	.313		99106	Redi-Sleeve	35,80	36,00	6,00	S	*27X36X6★	32
1.499	1.503	.312	S	480210	48	1.409	1.417	.236			
1.499	1.503	.312	H	*480210H	48	36,80	37,00	8,50	S	*27X37X8.5★	32
1.499	1.503	.390	S	*450210	45	1.449	1.457	.335			
1.499	1.507	.250	S	340210	34	37,00	37,15	7,00	S	27X37X7★	35
1.561	1.565	.375	S	450188	45	1.457	1.463	.276			
1.561	1.565	.375	S	*480188	48	37,00	37,20	7,00	V	*27X37X7V★	35
1.575	1.579	.312	S	*481343	48	1.457	1.465	.276			
1.575	1.581	.250	S	3732S➔	48	37,80	38,00	5,00	S	*27X38X5★	32
1.624	1.628	.250	S	471651	47	1.488	1.496	.197			
1.624	1.628	.250	S	*481651	48	37,80	38,00	6,00	S	*27X38X6★	32
1.624	1.628	.312	S	*451664	45	1.488	1.496	.236			
1.624	1.628	.312	N	*451664N	45	39,80	40,00	6,00	S	*27X40X6★	32
1.624	1.628	.437	S	*450221	45	1.567	1.575	.236			
1.624	1.628	.437	S	*480221	48	39,80	40,00	7,00	S	*27X40X7★	32
1.686	1.690	.375	L	*50606	5L	1.567	1.575	.276			
						39,80	40,00	8,00	S	*27X40X8★	32
						1.567	1.575	.315			
						39,80	40,00	10,00	S	*27X40X10★	32
						1.567	1.575	.394			
						39,80	40,00	12,00	S	*27X40X12★	32
						1.567	1.575	.472			
						40,00	40,20	8,00	V	712009★	32
						1.575	1.583	.315			

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
27,00mm (1.063") SHAFT (cont.)						28,00mm (1.102") SHAFT (cont.)					
41,00	41,10	9,50	S	*1193★	#	34,80	35,00	5,00	S	*28X35X5★	32
1.614	1.618	.374				1.370	1.378	.197			
41,80	42,00	5,00	S	*27X42X5★	32	34,80	35,00	7,00	S	*28X35X7★	32
1.646	1.654	.197				1.370	1.378	.276			
41,80	42,00	8,00	S	*27X42X8★	32	34,80	35,00	10,00	S	*28X35X10★	32
1.646	1.654	.315				1.370	1.378	.394			
42,00	42,10	7,00	V	222742★	48	35,80	36,00	7,00	S	*28X36X7★	32
1.654	1.657	.276				1.409	1.417	.276			
42,00	42,20	7,00	S	27X42X7★	35	37,80	38,00	5,00	S	*28X38X5★	32
1.654	1.661	.276				1.488	1.496	.197			
42,00	42,23	10,00	S	27X42X10★	35	37,80	38,00	8,00	S	*28X38X8★	32
1.654	1.663	.394				1.488	1.496	.315			
42,80	43,00	9,00	S	*27X43X9★	32	38,00	38,20	10,00	S	710347★◄	32
1.685	1.693	.354				1.496	1.504	.394			
43,00	43,20	8,00	S	27X43X8★	32	38,00	38,23	7,00	S	28X38X7★	32
1.693	1.701	.315				1.496	1.505	.276			
43,00	43,20	9,00	H	222743★◄	32	38,00	38,25	7,00	T	712104★►	PDW
1.693	1.701	.354				1.496	1.506	.276			
43,00	43,25	9,00	N	1990★►	32	39,80	40,00	9,00	S	*28X40X9★	32
1.693	1.703	.354				1.567	1.575	.354			
45,00	45,25	8,00	S	27X45X8★	35	39,80	40,00	10,00	S	*28X40X10★	32
1.772	1.781	.315				1.567	1.575	.394			
45,00	45,25	9,00	N	222745★►	32	40,00	40,20	7,00	V	*28X40X7V★	35
1.772	1.781	.354				1.575	1.583	.276			
46,00	46,20	8,00	S	*27X46X8★	32	40,00	40,20	7,00	S	710325★►	32
1.811	1.819	.315				1.575	1.583	.276			
46,80	47,00	7,00	S	*27X47X7★	32	40,00	40,20	8,00	S	28X40X8★	32
1.842	1.850	.276				1.575	1.583	.315			
47,00	47,23	8,00	S	*27X47X8★	35	40,00	40,26	7,00	S	28X40X7★	32
1.850	1.859	.315				1.575	1.585	.276			
47,00	47,23	10,00	S	27X47X10★	35	40,00	40,31	7,00	S	*1107★	33
1.850	1.859	.394				1.575	1.587	.276			
48,00	48,20	8,00	S	*27X48X8★	32	40,00	40,34	7,00	S	222820★	33
1.890	1.898	.315				1.575	1.588	.276			
49,80	50,00	10,00	S	*27X50X10★	32	41,00	41,10	8,00	T	39869★►	#
1.961	1.969	.394				1.614	1.618	.315			
50,00	50,20	8,00	S	*27X50X8★	32	41,00	41,27	7,00	N	222830★◄	32
1.969	1.976	.315				1.614	1.625	.276			
52,00	52,20	8,00	S	27X52X8★	35	41,05	41,25	6,00	S	*28X41.25X6★	32
2.047	2.055	.315				1.616	1.624	.236			
52,75	53,00	7,00	S	*27X53X7★	32	41,30	41,50	8,00	S	*28X41.5X8★	32
2.077	2.087	.276				1.626	1.634	.315			
27,60mm (1.087") SHAFT						28,00mm (1.102") SHAFT (cont.)					
39,80	40,00	5,50	S	*27.6X40X5.5★	32	1.646	1.654	.236			
1.567	1.575	.217				41,80	42,00	7,00	S	*28X42X7★	32
1.093" (1-3/32") SHAFT						1.646	1.654	.276			
-	-	-	S	800280	VRS1	41,80	42,00	10,00	S	*28X42X10★	32
-	-	-	V	800284	VRS1	1.646	1.654	.394			
1.625	1.628	.312	S	*482454	48	42,00	42,20	8,00	H	712008★	32
1.828	1.832	.437	S	450044	45	1.654	1.661	.315			
1.874	1.878	.437	H	*480235H	48	42,00	42,20	10,00	V	*28X42X10V★	35
1.874	1.878	.437	V	*480235V	48	1.654	1.661	.394			
2.000	2.004	.437	S	450159	45	42,00	42,23	8,00	S	28X42X8★	35
1.100" SHAFT						1.654	1.663	.315			
-	-	-	S	800280	VRS1	42,30	42,50	8,00	S	*28X42.5X8★	32
-	-	-	V	800284	VRS1	1.665	1.673	.315			
-	-	.375		99111	Redi-Sleeve	42,50	42,72	8,00	S	710216★	35
1.572	1.578	.308	N	2503►	48	1.673	1.682	.315			
1.572	1.578	.308	N	2503N►	48	42,80	43,00	6,00	S	*28X43X6★	32
28,00mm (1.102") SHAFT						1.685	1.693	.236			
-	-	-	S	800280	VRS1	42,80	43,00	10,00	S	*28X43X10★	32
-	-	-	V	800284	VRS1	1.685	1.693	.394			
-	-	.375		99111	Redi-Sleeve	43,00	43,23	7,00	S	710157★►	32
1.572	1.578	.308	N	2503►	48	1.693	1.702	.276			
1.572	1.578	.308	N	2503N►	48	43,00	43,23	8,00	N	710119★	32
28,00mm (1.102") SHAFT						1.693	1.702	.315			
-	-	-	S	800280	VRS1	43,80	44,00	7,00	S	*28X44X7★	32
-	-	-	V	800284	VRS1	1.724	1.732	.276			
-	-	.375		99111	Redi-Sleeve	43,80	44,00	8,00	S	*28X44X8★	32
1.572	1.578	.308	N	2503►	48	1.724	1.732	.315			
1.572	1.578	.308	N	2503N►	48	44,00	44,20	6,00	N	222835★	32
28,00mm (1.102") SHAFT						1.732	1.740	.236			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ► Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

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Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
28,00mm (1.102") SHAFT (cont.)						1.125" (1-1/8") SHAFT (cont.)					
44,00	44,23	6,00	N	28X44X6★	32	—	—	—	V	800284	VRS1
1.732	1.741	.236				—	—	.313		99112	Redi-Sleeve
44,80	45,00	7,00	S	*28X45X7★	32	1.375	1.381	.125	S	340835	34
1.764	1.772	.276				1.438	1.444	.215	S	313842	31
44,80	45,00	8,70	S	*28X45X8.7★	32	1.494	1.505	.250	S	340815	34
1.764	1.772	.343				1.500	1.504	.250	S	1037	35
44,80	45,00	10,00	S	*28X45X10★	32	1.502	1.506	.250	S	312140	31
1.764	1.772	.394				1.561	1.565	.250	N	472560N	47
45,00	45,20	7,00	V	*28X45X7V★	35	1.561	1.565	.250	V	*472560V	47
1.772	1.780	.276				1.561	1.565	.375	S	50151S	5S
45,00	45,20	8,00	S	28X45X8★	32	1.561	1.567	.250	S	352560	35
1.772	1.780	.315				1.561	1.569	.250	S	340151	34
46,00	46,20	8,00	S	*28X46X8★	32	1.561	1.572	.187	S	240151	24
1.811	1.819	.315				1.562	1.566	.220	S	7941	44
46,80	47,00	6,00	S	*28X47X6★	32	1.563	1.583	.375	S	*712140	35
1.842	1.850	.236				1.564	1.568	.250	S	43072S	4S
46,80	47,00	9,00	S	*28X47X9★	32	1.624	1.628	.190	N	3638	48
1.842	1.850	.354				1.624	1.628	.245	S	482208	48
46,80	47,00	10,00	S	*28X47X10★	32	1.624	1.628	.250	S	471652	47
1.842	1.850	.394				1.624	1.628	.250	A	471652A	47
46,89	47,00	8,00	S	*333860★	33	1.624	1.628	.250	H	*471652H	47
1.846	1.850	.315				1.624	1.628	.250	N	*471652N	47
47,00	47,20	7,00	V	*28X47X7V★	35	1.624	1.628	.250	V	481652V	48
1.850	1.858	.276				1.624	1.628	.312	S	*411100	41
47,00	47,22	7,00	S	28X47X7★	32	1.624	1.628	.250	N	*481652N	48
1.850	1.859	.276				1.624	1.628	.250	V	481652V	48
47,00	47,22	8,00	S	*28X47X8★	33	1.624	1.628	.312	S	*411100	41
1.850	1.859	.315				1.624	1.628	.312	N	*411100N	41
47,00	47,22	8,00	N	222860★➔	32	1.624	1.628	.312	S	*451100	45
1.850	1.859	.315				1.624	1.628	.312	H	*451100H	45
47,80	48,00	7,00	S	*28X48X7★	32	1.624	1.628	.312	N	*451100N	45
1.882	1.890	.276				1.624	1.628	.312	S	471100	47
47,80	48,00	11,00	S	*28X48X11★	32	1.624	1.628	.312	N	*471100N	47
1.882	1.890	.433				1.624	1.628	.312	S	*481100	48
48,00	48,20	8,00	S	28X48X8★	32	1.624	1.628	.437	S	*410381	41
1.890	1.898	.315				1.624	1.628	.437	S	*450381	45
49,80	50,00	10,00	S	*28X50X10★	32	1.624	1.628	.437	S	*470381	47
1.961	1.969	.394				1.624	1.628	.437	S	*480381	48
50,00	50,20	8,00	S	*28X50X8★	32	1.630	1.634	.313	S	710181	#
1.969	1.976	.315				1.630	1.634	.313	S	710285	#
50,75	51,00	10,00	S	*28X51X10★	32	1.689	1.693	.250	S	*481678	48
1.998	2.008	.394				1.752	1.756	.250	V	471692V	47
51,75	52,00	6,00	S	*28X52X6★	32	1.752	1.756	.250	S	471692	47
2.037	2.047	.236				1.752	1.756	.250	A	471692A	47
51,75	52,00	8,00	S	*28X52X8★	32	1.752	1.756	.250	N	*471692N	47
2.037	2.047	.315				1.752	1.756	.250	S	*481692	48
51,75	52,00	10,00	S	*28X52X10★	32	1.752	1.756	.312	S	*411706	41
2.037	2.047	.394				1.752	1.756	.312	S	*451706	45
52,00	52,20	7,00	V	*28X52X7V★	32	1.752	1.756	.312	S	*471706	47
2.047	2.055	.276				1.752	1.756	.312	N	*471706N	47
52,00	52,23	7,00	S	28X52X7★	32	1.752	1.756	.312	S	*481706	48
2.047	2.056	.276				1.752	1.756	.375	S	*451133	45
2.087	2.091	.378	S	710433	#	1.752	1.756	.375	S	*471133	47
55,75	56,00	6,00	S	*28X56X6★	32	1.752	1.756	.375	S	*481133	48
2.195	2.205	.236				1.752	1.756	.437	S	*410189	41
55,75	56,00	7,00	S	*28X56X7★	32	1.752	1.756	.437	S	*450189	45
2.195	2.205	.276				1.752	1.756	.437	H	*450189H	45
57,75	58,00	6,00	S	*28X58X6★	32	1.752	1.756	.437	S	470189	47
2.273	2.283	.236				1.752	1.756	.437	H	470189H	47
57,75	58,00	10,00	S	*28X58X10★	32	1.752	1.756	.437	N	*470189N	47
2.273	2.283	.394				1.752	1.756	.437	S	*480189	48
61,75	62,00	10,00	S	*28X62X10★	32	1.752	1.756	.437	H	*480189H	48
2.431	2.441	.394				1.780	1.785	.250	S	204505	204
28,50mm (1.122") SHAFT						1.780	1.785	.468	S	203020	203
39,30	39,50	9,50	S	*28.5X39.5X9.5★	32	1.780	1.785	.468	S	204020	204
1.547	1.555	.374				1.781	1.785	.468	F	*205020	205
1.125" (1-1/8") SHAFT						1.781	1.787	.406	S	323133	32
—	—	—	S	800280	VRS1	1.828	1.832	.312	S	476838	47
						1.828	1.832	.375	S	*451258	45
						1.828	1.832	.375	S	*481258	48
						1.828	1.832	.437	S	*410045	41

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.125" (1-1/8") SHAFT (cont.)						1.125" (1-1/8") SHAFT (cont.)					
1.828	1.832	.437	S	*450045	45	2.441	2.445	.375	V	472681V	47
1.828	1.832	.437	H	*450045H	45	2.533	2.537	.250	S	472535	47
1.828	1.832	.437	N	*450045N	45	2.835	2.839	.375	S	472954	47
1.828	1.832	.437	V	*450045V	45	2.835	2.839	.375	V	472954V	47
1.828	1.832	.437	S	470045	47	2.875	2.879	.468	S	450430	45
1.828	1.832	.437	S	*480045	48	28,60mm (1.126") SHAFT					
1.850	1.859	.312	S	350974	35	-	-	-	S	800280	VRS1
1.874	1.878	.250	S	470712	47	-	-	-	V	800284	VRS1
1.874	1.878	.250	A	470712A	47	-	-	.313		99112	Redi-Sleeve
1.874	1.878	.250	N	*470712N	47	39,80	40,00	8,00	S	*28.6X40X8★	32
1.874	1.878	.250	V	470712V	47	1.567	1.575	.315			
1.874	1.878	.250	S	*480712	48	43,00	43,15	6,50	S	1989★	47
1.874	1.878	.375	S	*472523	47	1.693	1.699	.256			
1.874	1.878	.375	S	*482523	48	29,00mm (1.142") SHAFT					
1.874	1.878	.437	S	*410236	41	-	-	-	S	800300	VRS1
1.874	1.878	.437	H	*410236H	41	0,00	37,01	5,00	S	710504★	35
1.874	1.878	.437	S	*450236	45	.000	1.457	.197			
1.874	1.878	.437	H	*450236H	45	42,80	43,00	8,00	S	*29X43X8★	32
1.874	1.878	.437	S	470236	47	1.685	1.693	.315			
1.874	1.878	.437	S	*480236	48	43,80	44,00	7,00	S	*29X44X7★	32
1.874	1.878	.625	L	6704	1L	1.724	1.732	.276			
1.935	1.942	.625	S	6832S	204	44,80	45,00	9,00	S	*29X45X9★	32
1.937	1.942	.562	S	203003	203	1.764	1.772	.354			
1.937	1.942	.625	S	*203004	203	45,00	45,23	8,00	S	320595★	32
1.937	1.942	.625	F	205004	205	1.772	1.781	.315			
1.983	1.987	.250	S	471747	47	45,80	46,00	10,00	S	*29X46X10★	32
1.983	1.987	.375	S	472674	47	1.803	1.811	.394			
1.983	1.987	.375	S	*482674	48	46,80	47,00	8,00	S	*29X47X8★	32
1.983	1.987	.437	S	*410182	41	1.842	1.850	.315			
1.983	1.987	.437	S	*450182	45	46,80	47,00	10,00	S	*29X47X10★	32
1.983	1.987	.437	S	*470182	47	1.842	1.850	.394			
1.983	1.987	.437	S	*480182	48	49,80	50,00	10,00	S	*29X50X10★	32
2.000	2.004	.250	S	40160S	4S	1.961	1.969	.394			
2.000	2.004	.250	S	471763	47	55,75	56,00	10,00	S	*29X56X10★	32
2.000	2.004	.250	A	471763A	47	2.195	2.205	.394			
2.000	2.004	.250	V	471763V	47	61,95	62,20	9,00	S	*29X62.2X9★	32
2.000	2.004	.250	S	*481763	48	2.439	2.449	.354			
2.000	2.004	.312	H	*471464H	47	1.145" SHAFT					
2.000	2.004	.375	S	*450426	45	-	-	-	S	800300	VRS1
2.000	2.004	.437	S	*50160	5S	1.765	1.722	.070	S	*8734	#
2.000	2.004	.437	S	*410160	41	1.153" SHAFT					
2.000	2.004	.437	S	*450160	45	-	-	-	S	800300	VRS1
2.000	2.004	.437	S	*470160	47	1.686	1.690	.437	S	*7392S	#
2.000	2.004	.437	S	*480160	48	1.156" (1-5/32") SHAFT					
2.000	2.004	.500	S	*470642	47	-	-	-	S	800300	VRS1
2.047	2.051	.312	S	472644	47	-	-	.375	S	*99120	Redi-Sleeve
2.047	2.051	.312	V	472644V	47	1.575	1.580	.312	V	250437V	25
2.062	2.066	.250	S	*41785S	4S	1.686	1.690	.250	S	474260	47
2.062	2.066	.250	S	471785	47	1.686	1.690	.375	S	450502	45
2.062	2.066	.250	V	*471785V	47	1.686	1.690	.375	S	*480502	48
2.062	2.066	.375	S	*451135	45	1.752	1.756	.312	S	*451707	45
2.062	2.066	.375	H	*451135H	45	1.752	1.756	.312	S	471707	47
2.062	2.066	.375	S	*481135	48	1.752	1.756	.312	N	471707N	47
2.062	2.066	.375	H	*481135H	48	1.828	1.832	.437	S	450482	45
2.062	2.066	.437	S	*410241	41	1.828	1.832	.437	S	*480482	48
2.062	2.066	.437	S	*450241	45	1.874	1.878	.250	S	471736	47
2.062	2.066	.437	S	470241	47	1.874	1.878	.250	S	*481736	48
2.062	2.066	.437	V	*470241V	47	1.874	1.878	.437	H	*482457H	48
2.062	2.066	.437	S	*480241	48	1.875	1.878	.437	S	*450948	45
2.125	2.129	.250	S	481792	48	1.983	1.987	.250	N	*481748N	48
2.125	2.129	.250	N	*481792N	48	1.983	1.987	.375	S	*480906	48
2.125	2.129	.437	S	*411060	41	1.983	1.987	.437	S	*450046	45
2.125	2.129	.437	S	*451060	45	1.125" (1-1/8") SHAFT (cont.)					
2.125	2.129	.437	S	*471060	47	2.441	2.445	.375	V	472681V	47
2.250	2.254	.500	S	450604	45	2.533	2.537	.250	S	472535	47
2.250	2.254	.500	N	*450604N	45	2.835	2.839	.375	S	472954	47
2.250	2.254	.500	S	470604	47	2.835	2.839	.375	V	472954V	47
2.250	2.254	.500	S	*480604	48	2.875	2.879	.468	S	450430	45
2.437	2.441	.468	S	450332	45	28,60mm (1.126") SHAFT					
2.441	2.445	.250	S	473259	47	-	-	-	S	800280	VRS1
2.441	2.445	.250	V	*473259V	47	-	-	-	V	800284	VRS1
2.441	2.445	.375	S	472681	47	-	-	.313		99112	Redi-Sleeve

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Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.156" (1-5/32") SHAFT (cont.)						30,00mm (1,181") SHAFT					
1.984	1.988	.250	V	*473428V	47	40,00	40,20	7,00	V	*30X40X7V★	32
1.984	1.988	.250	S	473428	47	1.575	1.583	.276			
2.000	2.004	.250	S	*471764	47	40,00	40,23	7,00	S	30X40X7★	32
2.000	2.004	.375	S	481773	48	1.575	1.584	.276			
2.000	2.004	.437	S	450161	45	40,00	40,23	7,00	S	223005★	48
2.000	2.004	.437	H	*450161H	45	1.575	1.584	.276			
2.000	2.004	.437	V	*450161V	45	40,00	40,25	7,00	S	1129★	35
2.000	2.004	.437	S	*480161	48	1.575	1.585	.276			
2.062	2.066	.375	S	*473427	47	30,00mm (1.181") SHAFT					
2.062	2.066	.437	S	*450051	45	40,80	41,00	7,00	S	*30X41X7★	32
2.062	2.066	.437	V	*450051V	45	1.606	1.614	.276			
2.062	2.066	.437	S	*470051	47	41,80	42,00	4,50	S	*30X42X4.5★	32
2.125	2.129	.437	S	*450362	45	1.646	1.654	.177			
2.125	2.129	.437	S	470362	47	41,80	42,00	8,00	S	*30X42X8★	32
2.250	2.254	.500	S	*450600	45	1.646	1.654	.315			
2.834	2.839	.375	S	*472239	47	41,80	42,00	10,00	S	*30X42X10★	32
						1.646	1.654	.394			
1.170" SHAFT						30,00mm (1,181") SHAFT					
-	-	-	S	800300	VRS1	42,00	42,20	7,00	S	30X42X7★	35
2.000	2.004	.250	S	*43069S	4S	1.654	1.661	.276			
2.031	2.035	.375	S	*451182	45	42,00	42,20	7,00	V	*30X42X7V★	32
1.175" SHAFT						42,00	42,20	7,00	S	223010★➔	32
-	-	-	S	800300	VRS1	1.654	1.661	.276			
-	-	.313		*99122	Redi-Sleeve	42,00	42,20	7,00	S	1970★	35
1.771	1.775	.275	S	483488➔	48	1.654	1.661	.276			
1.828	1.832	.312	N	483054N	48	42,00	42,27	7,00	S		
1.828	1.832	.312	V	*483054V	48	1.654	1.664	.276			
1.178" SHAFT						30,00mm (1.181") SHAFT					
-	-	-	S	800300	VRS1	42,80	43,00	7,00	S	*30X43X7★	32
-	-	.313		*99122	Redi-Sleeve	1.685	1.693	.276			
1.654	1.659	.276	N	*3241	33	42,80	43,00	8,00	S	*30X43X8★	32
2.447	2.452	.500	V	4813V➔	86	1.685	1.693	.315			
30,00mm (1,181") SHAFT						42,80	43,00	8,50	S	*30X43X8.5★	32
-	-	-	S	800300	VRS1	1.685	1.693	.335			
-	-	.315		99114	Redi-Sleeve	42,80	43,00	9,00	S	*30X43X9★	32
0,00	61,20	9,00	S	710516★	#	1.685	1.693	.354			
.000	2.409	.354				43,80	44,00	9,00	S	*30X44X9★	32
30,00mm (1.181") SHAFT						1.724	1.732	.354			
36,80	37,00	6,00	S	*30X37X6★	32	43,80	44,00	10,00	S	*30X44X10★	32
1.449	1.457	.236				1.724	1.732	.394			
30,00mm (1,181") SHAFT						30,00mm (1,181") SHAFT					
37,00	37,30	3,50	S	710401★	#	44,00	44,20	7,00	N	223012★➔	32
1.457	1.461	.138				1.732	1.740	.276			
30,00mm (1.181") SHAFT						44,00	44,28	7,00	S	30X44X7★	32
37,80	38,00	5,00	S	*30X38X5★	32	1.732	1.743	.276			
1.488	1.496	.197				30,00mm (1.181") SHAFT					
37,80	38,00	6,00	S	*30X38X6★	32	44,30	44,50	7,00	S	*30X44.5X7★	32
1.488	1.496	.236				1.744	1.752	.276			
37,80	38,00	7,00	S	*30X38X7★	32	44,80	45,00	6,00	S	*30X45X6★	32
1.488	1.496	.276				1.764	1.772	.236			
39,80	40,00	5,00	S	*30X40X5★	32	44,80	45,00	7,00	S	*30X45X7★	32
1.567	1.575	.197				1.764	1.772	.276			
39,80	40,00	8,00	S	*30X40X8★	32	44,80	45,00	10,00	S	*30X45X10★	32
1.567	1.575	.315				1.764	1.772	.394			
39,80	40,00	10,00	S	*30X40X10★	32	44,80	45,00	13,00	S	*30X45X13★	32
1.567	1.575	.394				1.764	1.772	.512			
39,80	40,00	12,00	S	*30X40X12★	32	30,00mm (1,181") SHAFT					
1.567	1.575	.472				45,00	45,22	5,00	S	30X45X5★	32
						1.772	1.780	.197			
						45,00	45,20	6,00	S	223014★	32
						1.772	1.780	.236			

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
30,00mm (1,181") SHAFT (cont.)						30,00mm (1,181") SHAFT					
45,00	45,20	8,00	S	30X45X8★	32	50,00	50,20	8,00	S	30X50X8★	48
1.772	1.780	.315				1.969	1.976	.315			
45,00	45,20	8,00	V	*30X45X8V★	35	50,00	50,20	10,00	V	*30X50X10V★	35
1.772	1.780	.315				1.969	1.976	.394			
45,00	45,20	8,00	S	710359★◄	#	50,00	50,23	7,00	S	30X50X7★	32
1.772	1.780	.315				1.969	1.978	.276			
45,00	45,20	15,00	S	2016★◄	#	50,00	50,23	7,00	S	223050★►	32
1.772	1.780	.591				1.969	1.978	.276			
45,00	45,23	8,00	S	1981★	35						
1.772	1.781	.315				30,00mm (1,181") SHAFT					
30,00mm (1,181") SHAFT						50,75	51,00	10,00	S	*30X51X10★	32
45,80	46,00	8,00	S	*30X46X8★	32	1.998	2.008	.394			
1.803	1.811	.315				51,75	52,00	8,00	S	*30X52X8★	32
30,00mm (1,181") SHAFT						2.037	2.047	.315			
46,00	46,20	7,00	S	30X46X7★	32	51,75	52,00	10,00	S	*30X52X10★	32
1.811	1.819	.276				2.037	2.047	.394			
46,00	46,23	7,00	S	223018★	32	51,75	52,00	11,00	S	*30X52X11★	32
1.811	1.820	.276				2.037	2.047	.433			
46,00	46,30	8,00	N	712001★►	32	51,75	52,00	12,00	S	*30X52X12★	32
1.811	1.823	.315				2.037	2.047	.472			
30,00mm (1,181") SHAFT						30,00mm (1,181") SHAFT					
46,80	47,00	5,00	S	*30X47X5★	32	52,00	52,18	7,00	S	223035★	35
1.842	1.850	.197				2.047	2.054	.276			
46,80	47,00	6,00	S	*30X47X6★	32	52,00	52,20	10,00	V	*30X52X10V★	32
1.842	1.850	.236				2.047	2.055	.394			
46,80	47,00	8,00	S	*30X47X8★	32	52,00	52,23	7,00	S	30X52X7★	35
1.842	1.850	.315				2.047	2.056	.276			
46,80	47,00	10,00	S	*30X47X10★	32	30,00mm (1,181") SHAFT					
1.842	1.850	.394				53,75	54,00	9,00	S	*30X54X9★	32
30,00mm (1,181") SHAFT						2.116	2.126	.354			
47,00	47,20	7,00	V	*30X47X7V★	32	30,00mm (1,181") SHAFT					
1.850	1.858	.276				54,00	54,20	9,00	S	710267★	32
47,00	47,25	7,00	S	30X47X7★	32	2.126	2.134	.354			
1.850	1.860	.276				30,00mm (1,181") SHAFT					
47,00	47,25	8,00	S	223020★	35	54,75	55,00	8,00	S	*30X55X8★	32
1.850	1.860	.315				2.155	2.165	.315			
30,00mm (1,181") SHAFT						54,75	55,00	11,00	S	*30X55X11★	32
47,80	48,00	7,00	S	*30X48X7★	32	2.155	2.165	.433			
1.882	1.890	.276				54,75	55,00	12,00	S	*30X55X12★	32
47,80	48,00	10,00	S	*30X48X10★	32	2.155	2.165	.472			
1.882	1.890	.394				30,00mm (1,181") SHAFT					
30,00mm (1,181") SHAFT						55,00	55,20	7,00	S	30X55X7★	47
48,00	48,28	8,00	S	30X48X8★	32	2.165	2.173	.276			
1.890	1.901	.315				55,00	55,20	10,00	V	*30X55X10V★	32
48,00	48,30	8,00	S	714619★	35	2.165	2.173	.394			
1.890	1.902	.315				55,00	55,28	10,00	S	30X55X10★	35
30,00mm (1,181") SHAFT						2.165	2.176	.394			
48,30	48,50	8,00	S	*30X48.5X8★	32	30,00mm (1,181") SHAFT					
1.901	1.909	.315				55,75	56,00	10,00	S	*30X56X10★	32
48,80	49,00	8,00	S	*30X49X8★	32	2.195	2.205	.394			
1.921	1.929	.315				55,75	56,00	12,00	S	*30X56X12★	32
49,80	50,00	10,00	S	*30X50X10★	32	2.195	2.205	.472			
1.961	1.969	.394				30,00mm (1,181") SHAFT					
49,80	50,00	11,00	S	*30X50X11★	32	56,00	56,20	8,00	S	30X56X8★	35
1.961	1.969	.433				2.205	2.213	.315			
49,80	50,00	11,00	S	*30X50X11★	32						
1.961	1.969	.433									
49,80	50,00	12,00	S	*30X50X12★	32						
1.961	1.969	.472									

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ► Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
30,00mm (1.181") SHAFT						30,00mm (1.181") SHAFT					
56,75	57,00	10,00	S	* 30X57X10★	32	68,00	68,20	8,00	S	* 30X68X8★	32
2.234	2.244	.394				2.677	2.685	.315			
57,75	58,00	10,00	S	* 30X58X10★	32	70,00	70,20	8,00	S	* 30X70X8★	32
2.273	2.283	.394				2.756	2.764	.315			
30,00mm (1.181") SHAFT						30,00mm (1.181") SHAFT					
58,00	58,09	9,50	N	3907★↔	57	71,75	72,00	8,00	S	* 30X72X8★	32
2.283	2.287	.374				2.825	2.835	.315			
58,00	58,20	8,00	S	* 30X58X8★	32	30,00mm (1.181") SHAFT					
2.283	2.291	.315				72,00	72,14	9,50	V	* 470442V★	47
58,00	63,50	13,90	N	* 3607★↔	57	2.835	2.840	.374			
2.283	2.500	.547				72,00	72,20	7,00	S	30X72X7★	47
30,00mm (1.181") SHAFT						2.835	2.843	.276			
59,75	60,00	7,00	S	* 30X60X7★	32	72,00	72,20	8,00	V	* 30X72X8V★	32
2.352	2.362	.276				2.835	2.843	.315			
59,75	60,00	10,00	S	* 30X60X10★	32	72,00	72,27	10,00	S	30X72X10★	35
2.352	2.362	.394				2.835	2.845	.394			
30,00mm (1.181") SHAFT						30,00mm (1.181") SHAFT					
60,00	60,20	8,00	S	* 30X60X8★	32	74,75	75,00	9,00	S	* 30X75X9★	32
2.362	2.370	.315				2.943	2.953	.354			
30,00mm (1.181") SHAFT						74,75	75,00	10,00	S	* 30X75X10★	32
61,75	62,00	5,00	S	* 30X62X5★	32	2.943	2.953	.394			
2.431	2.441	.197				76,72	77,00	9,00	S	* 30X77X9★	32
61,75	62,00	8,00	S	* 30X62X8★	32	3.020	3.031	.354			
2.431	2.441	.315				76,72	77,00	10,00	S	* 30X77X10★	32
61,75	62,00	9,00	S	* 30X62X9★	32	3.020	3.031	.394			
2.431	2.441	.354				79,72	80,00	10,00	S	* 30X80X10★	32
61,75	62,00	10,00	S	* 30X62X10★	32	3.139	3.150	.394			
2.431	2.441	.394				1.187" (1-3/16") SHAFT					
61,75	62,00	11,00	S	* 30X62X11★	32	-	-	-	S	800300	VRS1
2.431	2.441	.433				-	-	.313		99118	Redi-Sleeve
61,75	62,00	12,00	S	* 30X62X12★	32	1.627	1.635	.250	S	340817	34
2.431	2.441	.472				1.686	1.690	.375	S	470328	47
30,00mm (1.181") SHAFT						1.686	1.690	.375	S	* 480328	48
62,00	62,10	7,00	V	* 473049V★	47	1.687	1.691	.250	S	481213	48
2.441	2.445	.276				1.713	1.718	.500	S	* 2551↔	25
62,00	62,10	9,50	S	* 471353★	47	1.716	1.720	.248	S	9487	68
2.441	2.445	.374				1.718	1.722	.550	S	* 712133	#
62,00	62,15	6,35	S	* 43493★	4S	1.752	1.756	.250	S	473203	47
2.441	2.447	.250				1.752	1.756	.250	S	* 483203	48
62,00	62,20	7,00	V	* 30X62X7V★	35	1.752	1.756	.312	S	* 451708	45
2.441	2.449	.276				1.752	1.756	.312	S	* 481708	48
62,00	62,28	7,00	S	30X62X7★	32	1.752	1.756	.375	S	* 450868	45
2.441	2.452	.276				1.828	1.832	.375	S	473425	47
30,00mm (1.181") SHAFT						1.828	1.832	.437	S	* 410344	41
64,75	65,00	10,00	S	* 30X65X10★	32	1.828	1.832	.437	S	* 450344	45
2.549	2.559	.394				1.828	1.832	.437	S	* 470344	47
30,00mm (1.181") SHAFT						1.828	1.832	.437	S	* 480344	48
65,00	65,20	8,00	S	* 30X65X8★	32	1.874	1.878	.250	S	472475	47
2.559	2.567	.315				1.874	1.878	.437	S	* 482475	48
65,00	65,23	34,00	S	710065★	#	1.874	1.878	.437	S	* 411456	41
2.559	2.568	1.339				1.874	1.878	.437	S	* 451456	45
30,00mm (1.181") SHAFT						1.874	1.878	.437	S	* 471456	47
67,75	68,00	10,00	S	* 30X68X10★	32	1.874	1.878	.437	S	* 481456	48
2.667	2.677	.394				1.968	1.972	.468	S	* 203055	203
						1.983	1.987	.250	S	* 471749	47
						1.983	1.987	.375	S	473426	47
						1.983	1.987	.437	S	* 410047	41
						1.983	1.987	.437	S	* 450047	45
						1.983	1.987	.437	S	* 470047	47
						1.983	1.987	.437	S	* 480047	48
						1.996	2.000	.250	S	40576S	4S
						2.000	2.004	.250	S	40162S	4S
						2.000	2.004	.250	S	471765	47
						2.000	2.004	.250	N	* 471765N	47

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ↔ Hydrodynamic Lip Design-CCW ↔ Hydrodynamic Lip Design-Bidirectional
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.187" (1-3/16") SHAFT (cont.)						1.218" SHAFT (cont.)					
2.000	2.004	.250	S	*481765	48	1.983	1.987	.437	S	450048	45
2.000	2.004	.437	S	*410162	41	2.000	2.004	.437	S	450173	45
2.000	2.004	.437	N	*410162N	41	2.062	2.066	.375	S	*454242	45
2.000	2.004	.437	S	*450162	45	31,00mm (1.220") SHAFT					
2.000	2.004	.437	N	*450162N	45	-	-	-	S	800300	VRS1
2.000	2.004	.437	S	470162	47	-	-	-	S	800320	VRS1
2.000	2.004	.437	N	*470162N	47	-	-	-	S	800321	VRS2
2.000	2.004	.437	S	*480162	48	-	-	-	V	800324	VRS1
2.047	2.051	.250	S	43076S	4S	-	-	.315		99123	Redi-Sleeve
2.047	2.051	.437	S	453063	45	42,00	42,20	8,00	V	710172★	35
2.062	2.066	.250	S	471354	47	1.654	1.661	.315			
2.062	2.066	.250	S	*481354	48	44,00	44,20	8,00	S	31X44X8★	32
2.062	2.066	.250	N	*481354N	48	1.732	1.740	.315			
2.062	2.066	.375	S	*452585	45	46,00	46,20	8,00	N	710332★◄	32
2.062	2.066	.375	S	*482585	48	1.811	1.819	.315			
2.062	2.066	.437	S	*410052	41	46,00	46,28	8,00	V	1121★◄	32
2.062	2.066	.437	S	*450052	45	1.811	1.822	.315			
2.062	2.066	.437	S	*470052	47	46,80	47,00	10,00	S	*31X47X10★	32
2.062	2.066	.437	S	*480052	48	1.842	1.850	.394			
2.125	2.129	.250	S	473205	47	48,80	49,00	7,00	S	*31X49X7★	32
2.125	2.129	.250	S	*483205	48	1.921	1.929	.276			
2.125	2.129	.375	S	*413293	41	49,80	50,00	8,00	S	*31X50X8★	32
2.125	2.129	.375	N	*413293N	41	1.961	1.969	.315			
2.125	2.129	.437	S	*410152	41	51,75	52,00	6,00	S	*31X52X6★	32
2.125	2.129	.437	N	*410152N	41	2.037	2.047	.236			
2.125	2.129	.437	S	*450152	45	51,75	52,00	7,00	S	*31X52X7★	32
2.125	2.129	.437	S	*470152	47	2.037	2.047	.276			
2.125	2.129	.437	S	*480152	48	1.238" SHAFT					
2.165	2.169	.250	S	472350	47	-	-	-	S	800320	VRS1
2.165	2.169	.250	S	*482350	48	-	-	-	S	800321	VRS2
2.250	2.254	.250	S	474255	47	-	-	-	V	800324	VRS1
2.250	2.254	.500	S	*410336	41	-	-	.315		*99141	Redi-Sleeve
2.250	2.254	.500	S	*450336	45	2.250	2.254	.500	S	8293S	48
2.250	2.254	.500	H	*450336H	45	1.247" SHAFT					
2.250	2.254	.500	S	470336	47	-	-	-	S	800320	VRS1
2.250	2.254	.500	S	*480336	48	-	-	-	S	800321	VRS2
2.437	2.441	.250	S	474254	47	-	-	-	V	800324	VRS1
2.437	2.441	.468	S	*450347	45	-	-	.313		99125	Redi-Sleeve
2.437	2.441	.468	S	470347	47	-	2.633	.480	S	8429S	#
2.441	2.445	.250	S	474256	47	1.687	1.691	.312	S	6859S	33
2.441	2.445	.375	S	472432	47	1.250" (1-1/4") SHAFT					
2.686	2.690	.500	S	470946	47	-	-	-	S	800320	VRS1
30,20mm (1.189") SHAFT						-	-	-	S	800321	VRS2
-	-	-	S	800300	VRS1	-	-	-	V	800324	VRS1
-	-	.313		99118	Redi-Sleeve	-	-	.313		99125	Redi-Sleeve
42,00	42,10	6,00	V	710340★	44	1.250	1.838	.187	S	240949	24
1.654	1.657	.236				1.499	1.505	.125	S	343186	34
1.190" SHAFT						1.499	1.509	.156	S	240736	24
-	-	-	S	800300	VRS1	1.625	1.630	.188	S	251511	25
-	-	.313		99118	Redi-Sleeve	1.685	1.691	.252	S	323126	32
1.889	1.892	.651	V	*4748V◄►	#	1.686	1.690	.375	S	480356	48
1.969	1.975	.261	N	*4738N◄►	48	1.686	1.690	.375	V	*480356V	48
1.969	1.975	.312	V	*4738V◄►	48	1.686	1.691	.250	S	*473135	47
2.122	2.128	.350	S	710068	#	1.686	1.691	.250	V	473135V	47
30,50mm (1.201") SHAFT						1.686	1.691	.250	S	474278	47
51,75	52,00	8,00	S	*30.5X52X8★	32	1.686	1.691	.375	S	*330356	33
2.037	2.047	.315				1.686	1.692	.219	S	353135	35
1.218" SHAFT						1.686	1.696	.218	S	340356	34
-	-	-	S	800300	VRS1	1.686	1.697	.187	S	240356	24
-	-	.315		99123	Redi-Sleeve	1.687	1.693	.250	S	322353	32
1.968	1.972	.468	S	203016	203	1.750	1.754	.250	H	*7412H	48
1.979	1.983	.250	S	441319	44	1.750	1.754	.250	S	7412S►	48
1.979	1.983	.406	S	203025	203						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ► Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

◄► Hydrodynamic Lip Design-Bidirectional

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
1.250" (1-1/4") SHAFT (cont.)						32,00mm (1.260") SHAFT (cont.)					
2.686	2.690	.375	S	481859	48	45,00	45,23	7,00	S	223230★	32
2.713	2.717	.468	S	*410341	41	1.772	1.781	.276			
2.713	2.717	.468	S	450341	45	45,00	45,23	7,00	S	32X45X7★	32
2.835	2.839	.468	S	*410806	41	1.772	1.781	.276			
2.835	2.839	.468	S	*450806	45	45,80	46,00	7,00	S	*32X46X7★	32
2.835	2.839	.468	S	470806	47	1.803	1.811	.276			
2.835	2.839	.468	S	*480806	48	45,80	46,00	8,00	S	*32X46X8★	32
2.877	2.881	.250	S	472536	47	1.803	1.811	.315			
3.150	3.155	.375	S	*472651	47	46,00	46,20	6,00	N	*324115N★	32
3.150	3.155	.375	V	472651V	47	1.811	1.819	.236			
3.155	3.160	.500	S	453279	45	46,00	46,23	6,00	S	32X46X6★	32
32,00mm (1.260") SHAFT						1.811	1.820	.236			
-	-	-	S	800320	VRS1	46,00	46,23	6,00	N	223235★	32
-	-	-	S	800321	VRS2	1.811	1.820	.236			
-	-	-	V	800324	VRS1	46,80	47,00	6,00	S	*32X47X6★	32
-	-	.315		99128	Redi-Sleeve	1.842	1.850	.236			
39,80	40,00	7,00	S	*32X40X7★	32	46,80	47,00	10,00	S	*32X47X10★	32
1.567	1.575	.276				1.842	1.850	.394			
39,80	40,00	10,00	S	*32X40X10★	32	47,00	47,20	6,00	N	710310★➔	32
1.567	1.575	.394				1.850	1.858	.236			
40,00	40,15	5,00	S	223210★	34	47,00	47,20	7,00	V	*32X47X7V★	32
1.575	1.581	.197				1.850	1.858	.276			
40,80	41,00	7,00	S	*32X41X7★	32	47,00	47,20	8,00	S	*580387★➔	32
1.606	1.614	.276				1.850	1.858	.315			
41,80	42,00	6,00	S	*32X42X6★	32	47,00	47,23	7,00	S	32X47X7★	35
1.646	1.654	.236				1.850	1.859	.276			
42,00	42,20	7,00	S	32X42X7★	35	47,00	47,24	10,00	N	3476★➔	32
1.654	1.661	.276				1.850	1.860	.394			
42,00	42,20	8,00	S	32X42X8★	32	47,80	48,00	7,00	S	*32X48X7★	32
1.654	1.661	.315				1.882	1.890	.276			
42,00	42,20	8,00	S	710282★	32	47,80	48,00	10,00	S	*32X48X10★	32
1.654	1.661	.315				1.882	1.890	.394			
42,00	42,20	10,00	S	223215★☛	32	48,00	48,20	7,00	S	710327★➔	32
1.654	1.661	.394				1.890	1.898	.276			
43,00	43,20	7,00	S	32X43X7★	32	48,00	48,20	8,00	S	32X48X8★	32
1.693	1.701	.276				1.890	1.898	.315			
43,00	43,20	7,00	S	710370★	32	48,00	48,20	8,00	V	*32X48X8V★	35
1.693	1.701	.276				1.890	1.898	.315			
43,00	43,28	4,00	N	*4596★	35	48,00	48,20	9,00	N	223240★	40
1.693	1.704	.157				1.890	1.898	.354			
43,80	44,00	5,00	S	*32X44X5★	32	48,00	48,20	10,00	S	710317★☛	32
1.724	1.732	.197				1.890	1.898	.394			
43,80	44,00	6,00	S	*32X44X6★	32	49,80	50,00	7,00	S	*32X50X7★	32
1.724	1.732	.236				1.961	1.969	.276			
43,80	44,00	7,00	S	*32X44X7★	32	49,80	50,00	10,00	S	*32X50X10★	32
1.724	1.732	.276				1.961	1.969	.394			
43,80	44,00	8,00	S	*32X44X8★	32	50,00	50,14	8,00	V	710164★	48
1.724	1.732	.315				1.969	1.974	.315			
43,80	44,00	8,00	S	*32X44X8★	32	50,00	50,20	10,00	V	*32X50X10V★	35
1.724	1.732	.315				1.969	1.976	.394			
43,80	44,00	9,00	S	*32X44X9★	32	50,00	50,23	8,00	S	32X50X8★	35
1.724	1.732	.354				1.969	1.978	.315			
43,80	44,00	10,00	S	*32X44X10★	32	50,00	50,23	8,00	S	223250★➔	32
1.724	1.732	.394				1.969	1.978	.315			
44,00	44,23	6,00	N	223220★➔	32	50,00	50,23	8,00	S	710415★➔	32
1.732	1.741	.236				1.969	1.978	.315			
44,30	44,50	8,00	S	*32X44.5X8★	32	51,75	52,00	8,00	S	*32X52X8★	32
1.744	1.752	.315				2.037	2.047	.315			
44,30	44,50	10,00	S	*32X44.5X10★	32	51,75	52,00	10,00	S	*32X52X10★	32
1.744	1.752	.394				2.037	2.047	.394			
44,80	45,00	6,00	S	*32X45X6★	32	51,75	52,00	11,00	S	*32X52X11★	32
1.764	1.772	.236				2.037	2.047	.433			
44,80	45,00	6,50	S	*32X45X6.5★	32	51,75	52,00	12,00	S	*32X52X12★	32
1.764	1.772	.256				2.037	2.047	.472			
44,80	45,00	8,00	S	*32X45X8★	32	52,00	52,20	7,00	V	*32X52X7V★	35
1.764	1.772	.315				2.047	2.055	.276			
44,80	45,00	10,00	S	*32X45X10★	32	52,00	52,20	10,00	S	710306★☛	32
1.764	1.772	.394				2.047	2.055	.394			
45,00	45,21	6,00	V	320348★➔	32	52,00	52,25	11,00	N	1167★	32
1.772	1.780	.236				2.047	2.057	.433			

For Illustration and Material Data See Technical Section

➔ Hydrodynamic Lip Design-CW ☛ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
32,00mm (1.260") SHAFT (cont.)						1.281" (1-9/32") SHAFT (cont.)					
52,00	52,28	7,00	S	32X52X7★	32	2.000	2.004	.375	S	473424	47
2.047	2.058	.276				2.000	2.004	.437	S	*450164	45
52,00	52,28	7,00	S	223255★	35	2.000	2.006	.250	S	353137	35
2.047	2.058	.276				2.062	2.066	.437	S	*450124	45
52,00	52,28	11,00	N	223252★◀	32	33,00mm (1.299") SHAFT					
2.047	2.058	.433				—	—	—	S	800320	VRS1
52,75	53,00	7,00	S	*32X53X7★	32	—	—	—	S	800321	VRS2
2.077	2.087	.276				—	—	—	V	800324	VRS1
53,00	53,28	7,00	N	223253★➔	32	43,80	44,00	7,00	S	*33X44X7★	32
2.087	2.098	.276				1.724	1.732	.276			
53,75	54,00	8,00	S	*32X54X8★	32	43,80	44,00	8,00	S	*33X44X8★	32
2.116	2.126	.315				1.724	1.732	.315			
54,00	54,20	10,00	S	2008★&	#	44,00	44,18	7,00	S	710070★	47
2.126	2.134	.394				1.732	1.739	.276			
54,00	54,23	10,00	S	32X54X10★	32	44,80	45,00	8,00	S	*33X45X8★	32
2.126	2.135	.394				1.764	1.772	.315			
54,75	55,00	6,50	S	*32X55X6.5★	32	44,80	45,00	10,00	S	*33X45X10★	32
2.155	2.165	.256				1.764	1.772	.394			
54,75	55,00	7,00	S	*32X55X7★	32	1.779	1.784	.256	T	39879▶▶	FW-H
2.155	2.165	.276				45,80	46,00	7,00	S	*33X46X7★	32
54,75	55,00	8,00	S	*32X55X8★	32	1.803	1.811	.276			
2.155	2.165	.315				46,43	46,53	9,53	N	6370N★	33
54,75	55,00	10,00	S	*32X55X10★	32	1.828	1.832	.375			
2.155	2.165	.394				46,80	47,00	8,00	S	*33X47X8★	32
54,75	55,00	11,00	S	*32X55X11★	32	1.842	1.850	.315			
2.155	2.165	.433				47,00	47,20	8,00	S	223340▶▶	32
55,75	56,00	8,00	S	*32X56X8★	32	1.850	1.858	.315			
2.195	2.205	.315				47,10	47,30	7,00	S	*33X47.3X7★	32
56,00	56,28	10,00	S	32X56X10★	32	1.854	1.862	.276			
2.205	2.216	.394				47,80	48,00	6,00	S	*33X48X6★	32
57,75	58,00	10,00	S	*32X58X10★	32	1.882	1.890	.236			
2.273	2.283	.394				47,80	48,00	8,00	S	*33X48X8★	32
57,75	58,00	12,00	S	*32X58X12★	32	1.882	1.890	.315			
2.273	2.283	.472				49,00	49,23	8,00	N	710236▶▶	32
58,00	58,20	8,00	S	32X58X8★	32	1.929	1.938	.315			
2.283	2.291	.315				49,80	50,00	6,00	S	*33X50X6★	32
58,00	58,29	12,70	S	*1204★	32	1.961	1.969	.236			
2.283	2.295	.500				49,80	50,00	7,00	S	*33X50X7★	32
60,00	60,20	8,00	S	32X60X8★	32	1.961	1.969	.276			
2.362	2.370	.315				49,80	50,00	10,00	S	*33X50X10★	32
60,00	60,20	10,00	S	32X60X10★	48	1.961	1.969	.394			
2.362	2.370	.394				50,00	50,20	7,00	S	710328★	35
61,75	62,00	10,00	S	*32X62X10★	32	1.969	1.976	.276			
2.431	2.441	.394				50,00	50,25	12,00	S	33X50X12★	32
61,75	62,00	12,00	S	*32X62X12★	32	1.969	1.978	.472			
2.431	2.441	.472				50,00	50,25	12,00	S	1168★	32
62,00	62,20	8,00	S	32X62X8★	32	1.969	1.978	.472			
2.441	2.449	.315				56,00	56,23	8,00	N	710132★	#
64,75	65,00	7,50	S	*32X65X7.5★	32	2.008	2.214	.315			
2.549	2.559	.295				51,75	52,00	5,00	S	*33X52X5★	32
64,75	65,00	8,00	S	*32X65X8★	32	2.037	2.047	.197			
2.549	2.559	.315				51,75	52,00	10,00	S	*33X52X10★	32
64,75	65,00	10,00	S	*32X65X10★	32	2.037	2.047	.394			
2.549	2.559	.394				51,92	52,02	12,45	S	3348★◀▶	47
69,75	70,00	8,00	S	*32X70X8★	32	2.044	2.048	.490			
2.746	2.756	.315				52,00	52,25	6,00	S	33X52X6★	32
69,75	70,00	11,00	S	*32X70X11★	32	2.047	2.057	.236			
2.746	2.756	.433				54,75	55,00	10,00	S	*33X55X10★	32
71,75	72,00	10,00	S	*32X72X10★	32	2.155	2.165	.394			
2.825	2.835	.394				55,75	56,00	10,00	S	*33X56X10★	32
72,00	72,20	8,00	S	32X72X8★	32	2.195	2.205	.394			
2.835	2.843	.315				55,75	56,00	12,00	S	*33X56X12★	32
1.281" (1-9/32") SHAFT						2.195	2.205	.472			
—	—	—	S	800320	VRS1	59,00	59,20	17,00	N	710124★	#
—	—	—	S	800321	VRS2	2.323	2.331	.669			
—	—	—	V	800324	VRS1	61,75	62,00	7,00	S	*33X62X7★	32
1.752	1.756	.375	S	51032S	5S	2.431	2.441	.276			
1.983	1.987	.437	S	*450050	45	71,75	72,00	10,00	S	*33X72X10★	32
1.983	1.987	.437	S	470050	47	2.825	2.835	.394			
1.997	2.005	.375	S	*350878	35						

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

◀▶ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
33,00mm (1.299") SHAFT (cont.)						1.312" (1-5/16") SHAFT (cont.)					
89,90	89,60	40,00	N	5210★⑤	35	2.502	2.506	.375	S	481834	48
3.539	3.528	1.575				2.750	2.754	.500	S	* 481901	48
1.301" SHAFT						2.835	2.839	.468	S	471904	47
			S	800350	VRS1	2.875	2.879	.437	S	* 451905	45
			V	800354	VRS1	2.996	3.001	.500	S	450147	45
			V	800355	VRS2	1.318" SHAFT					
2.000	2.004	.437	S	471193	47				S	800350	VRS1
2.000	2.004	.437	N	471193N	47				V	800354	VRS1
2.000	2.004	.437	N	* 481193N	48				V	800355	VRS2
2.620	2.625	.315	S	710043	#	2.280	2.286	.906	S	5131 ◀▶	#
1.312" (1-5/16") SHAFT						2.620	2.625	.875	S	2300	#
			S	800350	VRS1	1.322" SHAFT					
			V	800354	VRS1				S	800350	VRS1
			V	800355	VRS2				V	800354	VRS1
		.250		99129	Redi-Sleeve				V	800355	VRS2
		.500		99131	Redi-Sleeve	2.227	2.231	.375	S	484058	48
1.625	1.662	.156	N	722108	VRS1	1.326" SHAFT					
1.627	.000	.331	S	710455	#				S	800350	VRS1
1.750	1.758	.250	S	* 342214	34				V	800354	VRS1
1.752	1.760	.187	S	240716	24				V	800355	VRS2
1.828	1.833	.250	T	39904⑥	FF	2.061	2.065	.375	S	484054	48
1.874	1.878	.375	S	473423	47	2.226	2.231	.500	S	* 3145	#
1.874	1.878	.437	S	* 410521	41	2.226	2.247	.500	S	5124	48
1.874	1.878	.437	S	* 450521	45	2.312	2.316	.435	S	9161	48
1.874	1.878	.437	S	* 470521	47	34,00mm (1.339") SHAFT					
1.874	1.878	.437	S	* 480521	48				S	800350	VRS1
1.983	1.987	.375	S	473422	47				V	800354	VRS1
1.983	1.987	.437	S	* 471755	47				V	800355	VRS2
2.000	2.004	.250	S	* 43093S	4S			.500		99134	Redi-Sleeve
2.000	2.004	.312	S	473210	47	41,80	42,00	5,00	S	* 34X42X5★	32
2.000	2.004	.312	V	* 473210V	47	1.646	1.654	.197			
2.000	2.004	.375	S	* 470561	47	43,80	44,00	7,00	S	* 34X44X7★	32
2.000	2.004	.375	S	* 480561	48	1.724	1.732	.276			
2.000	2.004	.437	S	* 411352	41	43,80	44,00	8,00	S	* 34X44X8★	32
2.062	2.066	.312	S	472826	47	1.724	1.732	.315			
2.062	2.066	.375	S	* 484178	48	44,00	44,23	8,00	N	223400★	32
2.062	2.066	.437	S	* 410129	41	1.732	1.741	.315			
2.062	2.066	.437	S	470129	47	45,00	45,20	8,00	S	34X45X8★	32
2.062	2.066	.437	S	* 480129	48	1.772	1.780	.315			
2.097	2.105	.375	F	* 712135	#	45,80	46,00	8,00	S	* 34X46X8★	32
2.106	2.110	.375	S	473421	47	1.803	1.811	.315			
2.106	2.110	.468	S	* 410179	41	46,80	47,00	8,00	S	* 34X47X8★	32
2.106	2.110	.468	S	* 450179	45	1.842	1.850	.315			
2.125	2.129	.312	S	473211	47	46,80	47,00	9,00	S	* 34X47X9★	32
2.125	2.129	.437	S	* 410247	41	1.842	1.850	.354			
2.125	2.129	.437	N	* 410247N	41	47,80	48,00	7,00	S	* 34X48X7★	32
2.125	2.129	.437	S	* 450247	45	1.882	1.890	.276			
2.125	2.129	.437	S	* 470247	47	47,80	48,00	8,00	S	* 34X48X8★	32
2.125	2.129	.437	S	* 480247	48	1.882	1.890	.315			
2.166	2.170	.375	S	473812	47	48,00	48,20	7,00	S	* 580388★▶	32
2.250	2.254	.312	S	473212	47	1.890	1.898	.276			
2.250	2.254	.312	A	473212A	47	48,00	48,28	7,50	S	710416★	35
2.250	2.254	.500	S	* 410167	41	1.890	1.901	.295			
2.250	2.254	.500	S	* 450167	45	48,00	48,28	7,50	S	223410★	35
2.250	2.254	.500	S	* 470167	47	1.890	1.901	.295			
2.250	2.254	.500	S	* 480167	48	48,00	48,28	8,00	N	223420★▶	32
2.282	2.286	.250	S	40769S	4S	1.890	1.901	.315			
2.374	2.378	.250	S	* 40053S	4S	49,80	50,00	7,00	S	* 34X50X7★	32
2.374	2.378	.312	S	473213	47	1.961	1.969	.276			
2.374	2.378	.500	S	* 410053	41	49,80	50,00	8,00	S	* 34X50X8★	32
2.374	2.378	.500	S	* 450053	45	1.961	1.969	.315			
2.374	2.378	.500	S	* 470053	47	49,80	50,00	10,00	S	* 34X50X10★	32
2.374	2.378	.500	S	* 480053	48	1.961	1.969	.394			
2.437	2.441	.468	S	* 410503	41						
2.437	2.441	.468	S	* 450503	45						
2.437	2.441	.468	S	470503	47						
2.437	2.441	.468	S	* 480503	48						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀▶ Hydrodynamic Lip Design-Bidirectional

⑤ Seal & Installation Sleeve

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
34,00mm (1.339") SHAFT (cont.)						1.343" (1-11/32") SHAFT (cont.)					
49,80	50,00	12,00	S	*34X50X12★	32	2.374	2.378	.500	S	450054	45
1.961	1.969	.472				2.441	2.445	.375	S	483793	48
50,00	50,20	8,00	N	223430★➔	35	1.350" SHAFT					
1.969	1.976	.315				-	-	-	S	800350	VRS1
50,00	50,20	8,00	N	710417★	35	-	-	-	V	800354	VRS1
1.969	1.976	.315				-	-	-	V	800355	VRS2
51,75	52,00	10,00	S	*34X52X10★	32	1.620	1.625	.355	S	710076	#
2.037	2.047	.394				2.502	2.506	.500	S	*453309	45
51,75	52,00	11,00	S	*34X52X11★	32	2.571	2.575	.706	S	8594S	62
2.037	2.047	.433				34,50mm (1.358") SHAFT					
52,00	52,28	8,00	S	34X52X8★	32	-	-	-	S	800350	VRS1
2.047	2.058	.315				-	-	-	V	800354	VRS1
52,75	53,00	8,00	S	*34X53X8★	32	-	-	-	V	800355	VRS2
2.077	2.087	.315				71,00	71,10	42,00	N	710250★	#
53,00	53,28	8,00	N	710418★	32	2.795	2.799	1.654			
2.087	2.098	.315				1.362" SHAFT					
53,00	53,28	8,00	N	223440★	32	-	-	-	S	800350	VRS1
2.087	2.098	.315				-	-	-	V	800354	VRS1
53,75	54,00	8,00	S	*34X54X8★	32	-	-	-	V	800355	VRS2
2.116	2.126	.315				2.191	2.195	.250	S	8133S	48
54,00	54,20	9,00	S	34X54X9★	35	2.241	2.249	.250	S	*341518	34
2.126	2.134	.354				2.241	2.249	.250	S	*351518	35
54,00	54,25	9,00	N	710110★↔↔	40	1.365" SHAFT					
2.126	2.136	.354				-	-	-	S	800350	VRS1
54,75	55,00	11,00	S	*34X55X11★	32	-	-	-	V	800354	VRS1
2.155	2.165	.433				-	-	-	V	800355	VRS2
55,00	55,20	9,00	S	34X55X9★	32	1.955	1.960	.435	S	3214	48
2.165	2.173	.354				2.081	2.085	.435	S	*8883	48
56,00	56,20	8,00	S	*34X56X8★	32	2.081	2.085	.435	S	51322	5S
2.205	2.213	.315				2.259	2.264	.435	S	9569S	99
57,75	58,00	10,00	S	*34X58X10★	32	2.374	2.379	.435	S	9568	48
2.273	2.283	.394				1.370" SHAFT					
58,00	58,20	8,00	S	*34X58X8★	32	1.375	2.438	.250	S	*715101%	#
2.283	2.291	.315				1.372" SHAFT					
60,00	60,20	8,00	S	*34X60X8★	32	-	-	-	S	800350	VRS1
2.362	2.370	.315				-	-	-	V	800354	VRS1
61,75	62,00	7,00	S	*34X62X7★	32	-	-	-	V	800355	VRS2
2.431	2.441	.276				-	-	.313		99133	Redi-Sleeve
61,75	62,00	14,00	S	*34X62X14★	32	-	-	.500		99138	Redi-Sleeve
2.431	2.441	.551				-	4.560	.480	S	8549S&	#
62,00	62,18	10,00	S	34X62X10★	35	2.250	2.515	1.197	S	7715S	#
2.441	2.448	.394				1.375" (1-3/8") SHAFT					
62,00	62,20	10,00	S	710422★	35	-	-	-	S	800350	VRS1
2.441	2.449	.394				-	-	-	V	800354	VRS1
62,00	62,20	10,00	S	223462★	35	-	-	-	V	800355	VRS2
2.441	2.449	.394				-	-	.313		99133	Redi-Sleeve
63,00	63,09	9,00	N	710109★↔↔	40	-	-	.500		99138	Redi-Sleeve
2.480	2.484	.354				-	-	.512		99139	Redi-Sleeve
65,00	65,10	12,00	S	710151★	47	-	4.582	.259	S	8676S	54
2.559	2.563	.472				-	4.582	.259	S	9344S	54
69,75	70,00	10,00	S	*34X70X10★	32	1.750	1.756	.187	S	340853	34
2.746	2.756	.394				1.828	1.832	.375	S	*330480	33
71,75	72,00	10,00	S	*34X72X10★	32	1.828	1.832	.375	N	*330480N	33
2.825	2.835	.394				1.828	1.834	.250	S	323138	32
71,75	72,00	12,00	S	*34X72X12★	32	1.828	1.839	.255	S	*6622	34
2.825	2.835	.472				1.829	1.837	.187	S	6597S	34
1.340" SHAFT											
.000	1.910	.275	T	710515	32						
1.343" (1-11/32") SHAFT											
-	-	-	S	800350	VRS1						
-	-	-	V	800354	VRS1						
-	-	-	V	800355	VRS2						
2.106	2.110	.312	N	*413697N	41						
2.106	2.110	.375	S	473435	47						
2.106	2.110	.468	S	*450180	45						
2.125	2.129	.375	S	473436	47						
2.125	2.129	.437	S	*450248	45						
2.125	2.129	.437	S	*480248	48						

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).
★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
1.375" (1-3/8") SHAFT (cont.)						1.375" (1-3/8") SHAFT (cont.)					
1.874	1.878	.250	V	472354V	47	2.125	2.129	.375	N	482576N	48
1.874	1.878	.250	L	40395	4L	2.125	2.129	.437	S	*410135	41
1.874	1.878	.250	S	472354	47	2.125	2.129	.437	N	*410135N	41
1.874	1.878	.312	S	330663	33	2.125	2.129	.437	S	*450135	45
1.874	1.878	.312	N	*330663N	33	2.125	2.129	.437	S	470135	47
1.874	1.878	.437	S	50395S	5S	2.125	2.129	.437	N	*470135N	47
1.874	1.879	.240	V	484156V	48	2.125	2.129	.437	S	*480135	48
1.874	1.879	.250	S	40395S	4S	2.125	2.129	.812	S	*70135S	7S
1.874	1.880	.250	S	352354	32	2.125	2.130	.375	S	*453022	45
1.875	1.878	.187	S	6668S	33	2.125	2.130	.375	S	*483022	48
1.947	1.951	.500	S	1097	33	2.166	2.176	.485	N	*324152	32
1.947	1.951	.500	S	1097N	33	2.244	2.254	1.197	N	2655◀	79
1.952	1.957	.500	N	2443◀	25	2.248	2.252	.375	S	*471136	47
1.981	1.989	.252	N	714655▶	48	2.248	2.252	.375	S	*481136	48
1.982	1.989	.192	N	4638N	#	2.250	2.252	1.062	L	6200	9L
1.982	1.989	.312	N	*4655N▶	48	2.250	2.254	.250	S	40169S	4S
1.983	1.987	.312	S	482163	48	2.250	2.254	.312	V	473214V	47
1.983	1.987	.312	N	482163N	48	2.250	2.254	.312	S	473214	47
1.983	1.987	.375	S	*483562	48	2.250	2.254	.312	A	473214A	47
1.983	1.987	.375	N	*483562N	48	2.250	2.254	.312	S	*483214	48
2.000	2.004	.250	S	40522S	4S	2.250	2.254	.325	S	*482167	48
2.000	2.004	.300	S	*472083	47	2.250	2.254	.375	S	*411000	41
2.000	2.004	.312	S	472258	47	2.250	2.254	.375	S	*481000	48
2.000	2.004	.312	A	472258A	47	2.250	2.254	.500	S	*410169	41
2.000	2.004	.312	N	*472258N	47	2.250	2.254	.500	N	*410169N	41
2.000	2.004	.312	V	472258V	47	2.250	2.254	.500	S	*450169	45
2.000	2.004	.312	S	*482258	48	2.250	2.254	.500	N	*450169N	45
2.000	2.004	.312	V	482258V	48	2.250	2.254	.500	V	*450169V	45
2.000	2.004	.320	S	5872S	45	2.250	2.254	.500	S	470169	47
2.000	2.004	.328	S	480570	48	2.250	2.254	.500	S	*480169	48
2.000	2.004	.375	S	*6340	45	2.250	2.254	.713	S	7495S	61
2.000	2.004	.375	S	*411268	41	2.282	2.286	.250	S	42763	4S
2.000	2.004	.375	N	*411268N	41	2.282	2.286	.500	L	50402	5L
2.000	2.004	.375	H	*451268H	45	2.327	2.332	.406	S	204027	204
2.000	2.004	.375	S	471268	47	2.328	2.332	.406	F	*205027	205
2.000	2.004	.375	N	471268N	47	2.373	2.378	.500	N	*4419	#
2.000	2.004	.375	V	*471268V	47	2.374	2.378	.250	S	43089S	4S
2.000	2.004	.375	S	*481268	48	2.374	2.378	.312	S	473215	47
2.000	2.004	.375	V	*481268V	48	2.374	2.378	.312	S	*483215	48
2.000	2.004	.437	S	*410522	41	2.374	2.378	.312	V	*483215V	48
2.000	2.004	.437	S	*470522	47	2.374	2.378	.375	S	*451131	45
2.000	2.004	.437	S	*480522	48	2.374	2.378	.375	S	*471131	47
2.004	2.004	.437	S	*450522	45	2.374	2.378	.375	N	*471131N	47
2.047	2.051	.312	S	472642	47	2.374	2.378	.375	S	*481131	48
2.047	2.051	.312	V	472642V	47	2.374	2.378	.437	S	*411302	41
2.047	2.052	.330	N	4529N▶	68	2.374	2.378	.500	N	3116◀	71
2.062	2.066	.375	S	*450774	45	2.374	2.378	.500	N	3116N◀	71
2.062	2.066	.375	S	470774	47	2.374	2.378	.500	S	*410055	41
2.062	2.066	.375	N	*470774N	47	2.374	2.378	.500	S	*450055	45
2.062	2.066	.375	V	470774V	47	2.374	2.378	.500	N	*450055N	45
2.062	2.066	.375	S	*480774	48	2.374	2.378	.500	V	*450055V	45
2.062	2.066	.437	S	*50403	5S	2.374	2.378	.500	S	*470055	47
2.062	2.066	.437	S	*410403	41	2.374	2.378	.500	N	470055N	47
2.062	2.066	.437	S	*450403	45	2.374	2.378	.500	S	480055	48
2.062	2.066	.437	S	470403	47	2.374	2.378	.750	S	*412691	41
2.062	2.066	.437	S	*480403	48	2.437	2.441	.250	S	6241S	48
2.062	2.066	.437	H	*480403H	48	2.437	2.441	.250	S	*7769	48
2.062	2.066	.437	N	*480403N	48	2.437	2.441	.250	S	*40061S	4S
2.062	2.066	.437	V	*480403V	48	2.437	2.441	.375	S	470950	47
2.062	2.072	.250	S	6760S	35	2.437	2.441	.375	S	*480950	48
2.082	2.087	.312	S	*473304	47	2.437	2.441	.375	N	*480950N	48
2.106	2.110	.312	S	472287	47	2.437	2.441	.468	S	*410061	41
2.106	2.110	.468	S	*410153	41	2.437	2.441	.468	S	*450061	45
2.106	2.110	.468	S	*450153	45	2.437	2.441	.468	S	*470061	47
2.106	2.110	.468	N	*450153N	45	2.437	2.441	.468	S	*480061	48
2.125	2.129	.312	V	471192V	47	2.437	2.441	.468	N	*480061N	48
2.125	2.129	.312	S	471192	47	2.441	2.445	.375	S	471276	47
2.125	2.129	.312	N	*471192N	47	2.441	2.445	.375	N	*471276N	47
2.125	2.129	.312	S	*481192	48	2.441	2.445	.375	V	471276V	47
2.125	2.129	.312	H	*481192H	48	2.441	2.445	.375	S	*481276	48
2.125	2.129	.375	T	39140◀	94	2.502	2.506	.250	L	7245	4L
2.125	2.129	.375	S	*482576	48	2.502	2.506	.375	S	471835	47

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
35,00mm (1.378") SHAFT (cont.)						35,00mm (1.378") SHAFT (cont.)					
49,80	50,00	10,00	S	*35X50X10★	32	54,00	54,30	8,00	V	1119★↔	32
1,961	1,969	.394				2,126	2,138	.315			
49,80	50,00	11,00	S	*35X50X11★	32	54,75	55,00	7,00	S	*35X55X7★	32
1,961	1,969	.433				2,155	2,165	.276			
50,00	50,20	7,00	S	35X50X7★	32	54,75	55,00	9,00	S	*35X55X9★	32
1,969	1,976	.276				2,155	2,165	.354			
50,00	50,20	8,00	V	*35X50X8V★	32	54,75	55,00	10,00	S	*35X55X10★	32
1,969	1,976	.315				2,155	2,165	.394			
50,00	50,20	8,00	H	710329★◀	32	54,75	55,00	12,00	S	*35X55X12★	32
1,969	1,976	.315				2,155	2,165	.472			
50,00	50,20	11,00	S	710324★◀	32	54,89	55,04	14,66	H	3543★◀↔	57
1,969	1,976	.433				2,161	2,167	.577			
50,00	50,24	8,00	S	35X50X8★	35	55,00	55,18	8,00	S	473823★	47
1,969	1,978	.315				2,165	2,172	.315			
50,00	50,24	8,00	S	223520★	35	55,00	55,20	10,00	V	*35X55X10V★	32
1,969	1,978	.315				2,165	2,173	.394			
50,00	50,25	10,00	H	*1980★↔	32	55,00	55,10	8,00	S	35X55X8★	47
1,969	1,978	.394				2,165	2,174	.315			
50,00	50,24	12,00	N	*1169★	32	55,00	55,23	11,00	S	35X55X11★	32
1,969	1,978	.472				2,165	2,174	.433			
50,00	50,28	11,50	N	710111★◀	#	55,00	55,23	11,00	N	223542★	32
1,969	1,980	.453				2,165	2,174	.433			
50,00	50,34	7,00	H	3771★↔	35	55,00	55,30	11,00	S	*1171★	32
1,969	1,982	.276				2,165	2,177	.433			
50,00	50,34	7,00	V	713771★↔	35	55,00	55,45	8,00	N	223540★↔↔	40
1,969	1,982	.276				2,165	2,183	.315			
50,75	51,00	7,00	S	*35X51X7★	32	55,75	56,00	5,80	S	*35X56X5.8★	32
1,998	2,008	.276				2,195	2,205	.228			
50,75	51,00	8,00	S	*35X51X8★	32	55,75	56,00	12,00	S	*35X56X12★	32
1,998	2,008	.315				2,195	2,205	.472			
50,75	51,00	10,00	S	*35X51X10★	32	56,00	56,10	16,00	V	710218★	#
1,998	2,008	.394				2,205	2,209	.630			
51,75	52,00	9,00	S	*35X52X9★	32	56,00	56,20	8,00	S	35X56X8★	35
2,037	2,047	.354				2,205	2,213	.315			
51,75	52,00	10,00	S	*35X52X10★	32	56,00	56,20	8,00	N	710314★◀	40
2,037	2,047	.394				2,205	2,213	.315			
51,75	52,00	11,00	S	*35X52X11★	32	56,00	56,20	8,00	S	710315★↔	40
2,037	2,047	.433				2,205	2,213	.315			
51,75	52,00	12,00	S	*35X52X12★	32	56,00	56,20	9,00	S	710396★↔↔	40
2,037	2,047	.472				2,205	2,213	.354			
52,00	52,10	7,90	S	*484063★	48	56,00	56,20	10,00	V	*35X56X10V★	35
2,047	2,051	.311				2,205	2,213	.394			
52,00	52,13	8,00	S	35X52X8★	33	56,00	56,27	10,00	S	35X56X10★	32
2,047	2,052	.315				2,205	2,215	.394			
52,00	52,13	8,00	S	223535★	33	56,00	56,27	10,00	S	223543★	32
2,047	2,052	.315				2,205	2,215	.394			
52,00	52,13	8,00	N	*4052★↔	47	56,00	56,27	10,00	S	*320857★	32
2,047	2,052	.315				2,205	2,215	.394			
52,00	52,13	8,50	S	*1077★	33	56,00	56,30	9,00	S	2007★↔	#
2,047	2,052	.335				2,205	2,217	.354			
52,00	52,20	7,00	S	35X52X7★	32	56,00	56,30	9,00	S	2007N★↔	#
2,047	2,055	.276				2,205	2,217	.354			
52,00	52,25	10,00	S	1170★	32	56,75	57,00	9,00	S	*35X57X9★	32
2,047	2,057	.394				2,234	2,244	.354			
52,00	52,35	7,75	N	3655★↔	32	56,75	57,00	10,00	S	*35X57X10★	32
2,047	2,061	.305				2,234	2,244	.394			
52,00	52,35	7,75	N	713655★◀	32	56,90	57,05	18,64	N	*4150N★↔↔	#
2,047	2,061	.305				2,240	2,246	.734			
53,26	53,67	7,75	N	4040N★◀	32	56,90	57,05	19,41	N	710096★↔↔	74
2,097	2,113	.305				2,240	2,246	.764			
53,75	54,00	10,00	S	*35X54X10★	32	57,00	57,30	15,27	S	100165★	#
2,116	2,126	.394				2,244	2,246	.601			
54,00	54,10	8,00	S	710217★	#	57,75	58,00	9,00	S	*35X58X9★	32
2,126	2,130	.315				2,273	2,283	.354			
54,00	54,10	9,00	N	710199★↔↔	#	57,75	58,00	12,00	S	*35X58X12★	32
2,126	2,130	.354				2,273	2,283	.472			
54,00	54,20	8,00	S	35X54X8★	35	57,75	58,00	13,00	S	*35X58X13★	32
2,126	2,134	.315				2,273	2,283	.512			
54,00	54,20	8,00	V	710331★◀	32	57,75	58,00	18,00	S	*35X58X18★	32
2,126	2,134	.315				2,273	2,283	.709			
54,00	54,20	10,00	V	*35X54X10V★	35	58,00	58,10	10,00	S	223550★	45
2,126	2,134	.394				2,283	2,287	.394			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ↔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

↔↔ Hydrodynamic Lip Design-Bidirectional

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
35,00mm (1.378") SHAFT (cont.)						35,00mm (1.378") SHAFT (cont.)					
58,00	58,14	11,90	S	* 1086★	33	67,00	67,27	12,00	N	1173★	32
2.283	2.289	.469				2.638	2.648	.472			
58,00	58,28	10,00	S	35X58X10★	35	67,75	68,00	6,00	S	* 35X68X6★	32
2.283	2.294	.394				2.667	2.677	.236			
58,75	59,00	12,00	S	* 35X59X12★	32	68,00	68,16	9,00	S	223580★➔	40
2.313	2.323	.472				2.677	2.683	.354			
59,75	60,00	8,00	S	* 35X60X8★	32	68,00	68,20	9,00	N	710336★◀	40
2.352	2.362	.315				2.677	2.685	.354			
59,75	60,00	11,00	S	* 35X60X11★	32	68,00	68,20	10,00	V	* 35X68X10V★	35
2.352	2.362	.433				2.677	2.685	.394			
59,75	60,00	12,00	S	* 35X60X12★	32	68,00	68,23	10,00	S	* 35X68X10★	35
2.352	2.362	.472				2.677	2.686	.394			
60,00	60,23	10,00	S	35X60X10★	35	68,00	68,23	12,50	N	* 1140★	32
2.362	2.371	.394				2.677	2.686	.492			
60,00	60,23	10,00	S	223551★	35	69,00	69,20	8,00	S	* 35X69X8★	32
2.362	2.371	.394				2.717	2.724	.315			
60,00	60,23	10,00	S	710424★	35	69,75	70,00	10,00	S	* 35X70X10★	32
2.362	2.371	.394				2.746	2.756	.394			
60,00	60,30	12,00	S	710201★	47	70,00	70,20	8,00	S	35X70X8★	32
2.362	2.374	.472				2.756	2.764	.315			
61,75	62,00	6,00	S	* 35X62X6★	32	71,75	72,00	7,00	S	* 35X72X7★	32
2.431	2.441	.236				2.825	2.835	.276			
61,75	62,00	8,00	S	* 35X62X8★	32	71,75	72,00	11,00	S	* 35X72X11★	32
2.431	2.441	.315				2.825	2.835	.433			
61,75	62,00	8,00	S	* 35X62X8★	32	71,75	72,00	12,00	S	* 35X72X12★	32
2.431	2.441	.315				2.825	2.835	.472			
61,75	62,00	9,50	S	* 35X62X9.5★	32	72,00	72,20	8,00	S	35X72X8★	32
2.431	2.441	.374				2.835	2.843	.315			
61,75	62,00	11,00	S	* 35X62X11★	32	72,00	72,20	10,00	V	* 35X72X10V★	35
2.431	2.441	.433				2.835	2.843	.394			
61,75	62,00	12,00	S	* 35X62X12★	32	72,00	72,28	10,00	S	35X72X10★	35
2.431	2.441	.472				2.835	2.846	.394			
62,00	62,20	7,00	V	* 35X62X7V★	35	72,00	72,28	10,00	S	710360★	35
2.441	2.449	.276				2.835	2.846	.394			
62,00	62,20	10,00	S	35X62X10★	35	74,75	75,00	8,00	S	* 35X75X8★	32
2.441	2.449	.394				2.943	2.953	.315			
62,00	62,28	7,00	S	35X62X7★	32	76,00	76,28	9,00	N	1147★➔	32
2.441	2.452	.276				2.992	3.003	.354			
62,00	62,28	8,00	N	4901★◀➔	40	76,00	76,30	12,50	N	1136★◀	30
2.441	2.452	.315				2.992	3.004	.492			
62,00	62,28	9,00	N	223553★➔	40	78,00	78,20	8,00	S	* 35X78X8★	32
2.441	2.452	.354				3.071	3.079	.315			
62,00	62,28	9,50	S	223552★	32	79,72	80,00	10,00	S	* 35X80X10★	32
2.441	2.452	.374				3.139	3.150	.394			
63,00	63,20	9,00	S	710138★◀➔	40	79,72	80,00	12,00	S	* 35X80X12★	32
2.480	2.488	.354				3.139	3.150	.472			
63,00	63,28	10,00	S	710419★	#	79,72	80,00	13,00	S	* 35X80X13★	32
2.480	2.491	.394				3.139	3.150	.512			
63,00	63,28	10,00	S	223554★	#	80,00	80,20	8,00	S	35X80X8★	32
2.480	2.491	.394				3.150	3.150	.315			
63,45	63,55	7,92	S	* 6952S★	#	81,72	82,00	7,00	S	* 35X82X7★	32
2.498	2.502	.312				3.217	3.228	.276			
63,50	63,83	11,05	S	7687S★	#	1.380" SHAFT					
2.500	2.513	.435				-	-	-	S	800350	VRS1
63,75	64,00	12,00	S	* 35X64X12★	32	-	-	-	V	800354	VRS1
2.510	2.520	.472				-	-	-	V	800355	VRS2
63,75	64,00	13,00	S	* 35X64X13★	32	-	-	.512		99139	Redi-Sleeve
2.510	2.520	.512				2.288	2.291	.750	V	710429	87
64,00	64,13	8,00	N	35X64X8★	47	1.399" SHAFT					
2.520	2.525	.315				-	-	-	S	800350	VRS1
64,00	64,13	8,00	N	223555★	47	-	-	-	V	800354	VRS1
2.520	2.525	.315				-	-	-	V	800355	VRS2
64,00	64,14	9,50	N	* 474125N★	47	2.250	2.254	.250	S	470672	47
2.520	2.525	.374				2.290	2.294	.500	S	710166	74
64,75	65,00	12,00	S	* 35X65X12★	32	2.292	2.296	.460	S	* 3237◀➔	33
2.549	2.559	.472				2.292	2.296	.460	S	8660S◀➔	48
65,00	65,20	8,00	S	35X65X8★	32	2.292	2.296	.500	L	8660L**	5L
2.559	2.567	.394				2.482	2.750	.310	V	4795V◀➔	74
65,00	65,20	10,00	S	35X65X10★	32						
2.559	2.567	.394									
65,00	65,20	12,00	S	710335★	32						
2.559	2.567	.472									

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW
 ◀➔ Hydrodynamic Lip Design-Bidirectional ** Canada Only
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.437" (1-7/16") SHAFT (cont.)						1.437" (1-7/16") SHAFT (cont.)					
2.000	2.004	.437	S	*410930	41	2.750	2.754	.500	S	*450808	45
2.000	2.004	.437	N	*410930N	41	2.750	2.754	.500	S	470808	47
2.000	2.004	.437	S	*450930	45	2.750	2.754	.500	S	*480808	48
2.000	2.006	.125	S	340930	34	3.000	3.005	.500	S	*471405	47
2.059	2.065	.315	T	*712141➔	32	1.440" SHAFT					
2.061	2.066	.312	S	*3395	47	-	-	-	S	800381	VRS2
2.061	2.066	.312	S	*474090	47	-	-	-	V	800385	VRS2
2.062	2.066	.375	S	*482422	48	-	-	.375		99145	Redi-Sleeve
2.062	2.068	.250	S	352444	35	2.061	2.075	.315	H	3394➔	32
2.125	2.129	.312	S	*473224	47	2.756	2.764	.551	N	*712134	35
2.125	2.129	.437	S	*410453	41	37,00mm (1.457") SHAFT					
2.125	2.129	.437	N	*410453N	41	-	-	-	S	800381	VRS2
2.125	2.129	.437	V	*410453V	41	-	-	-	V	800385	VRS2
2.125	2.129	.437	S	*450453	45	-	-	.375		99145	Redi-Sleeve
2.125	2.129	.437	N	*450453N	45	0,00	55,52	8,01	S	710524★	47
2.125	2.129	.437	S	*470453	47	.000	2,186	.315			
2.125	2.129	.437	N	*470453N	47	46,80	47,00	10,00	S	*37X47X10★	32
2.125	2.129	.437	S	*480453	48	1,842	1,850	.394			
2.125	2.129	.437	N	*480453N	48	50,00	50,25	6,00	N	223750★➔	32
2.188	2.192	.480	S	*9249	47	1,969	1,978	.236			
2.250	2.254	.312	S	*473016	47	50,50	50,70	7,00	N	710355★➔	32
2.250	2.254	.312	N	*473016N	47	1,988	1,996	.276			
2.250	2.254	.500	S	*410171	41	52,00	52,15	6,00	S	710149★	#
2.250	2.254	.500	S	*470171	47	2,047	2,053	.236			
2.250	2.254	.500	H	*470171H	47	52,00	52,28	8,00	S	37X52X8★	35
2.250	2.254	.500	N	*470171N	47	2,047	2,058	.315			
2.250	2.254	.500	S	*480171	48	52,75	53,00	7,00	S	*37X53X7★	32
2.312	2.316	.375	S	*472655	47	2,077	2,087	.276			
2.374	2.378	.312	S	*473225	47	54,75	55,00	8,00	S	*37X55X8★	32
2.374	2.378	.375	S	*471809	47	2,155	2,165	.315			
2.374	2.378	.375	S	*481809	48	56,00	56,20	12,50	V	710259★↔➔	32
2.374	2.378	.500	S	*410057	41	2,205	2,213	.492			
2.374	2.378	.500	S	*450057	45	56,75	57,00	10,00	S	*37X57X10★	32
2.374	2.378	.500	V	*450057V	45	2,234	2,244	.394			
2.374	2.378	.500	S	*470057	47	57,75	58,00	7,00	S	*37X58X7★	32
2.374	2.378	.500	S	*480057	48	2,273	2,283	.276			
36,50mm (1.437") SHAFT						57,75	58,00	10,00	S	*37X58X10★	32
61,75	62,00	7,00	S	*36.5X62X7★	32	2,273	2,283	.394			
2.431	2.441	.276				57,75	58,00	13,00	S	*37X58X13★	32
1.437" (1-7/16") SHAFT						2,273	2,283	.512			
2.437	2.441	.250	S	*6966S	44	58,00	58,10	10,00	S	710353★➔	66
2.437	2.441	.312	S	*474264	47	2,283	2,287	.394			
2.437	2.441	.468	S	*410062	41	62,00	62,23	10,00	S	710228★	40
2.437	2.441	.468	S	*450062	45	2,441	2,450	.394			
2.437	2.441	.468	S	470062	47	63,75	64,00	13,00	S	*37X64X13★	32
2.437	2.441	.468	S	*480062	48	2,510	2,520	.512			
2.441	2.445	.374	S	4989	#	78,00	78,30	12,00	S	239134★	#
2.441	2.445	.375	S	481826	48	3,071	3,083	.472			
2.500	2.508	.687	S	*8673	25	1.460" SHAFT					
2.502	2.506	.312	S	*473226	47	-	-	-	S	800381	VRS2
2.502	2.506	.500	S	*410144	41	-	-	-	V	800385	VRS2
2.502	2.506	.500	S	*450144	45	-	-	.375		99145	Redi-Sleeve
2.502	2.506	.500	S	*470144	47	2.077	2.034	.070	S	*8733	#
2.502	2.506	.500	S	*480144	48	1.465" SHAFT					
2.502	2.506	.500	V	*480144V	48	-	-	-	S	800381	VRS2
2.623	2.627	.375	S	473437	47	-	-	-	V	800385	VRS2
2.623	2.627	.500	S	*410122	41	2.372	2.374	.433	S	710426	#
2.623	2.627	.500	H	*410122H	41	2.372	2.374	1.508	N	710441&	#
2.623	2.627	.500	S	*450122	45	1.468" (1-15/32") SHAFT					
2.623	2.627	.500	S	*470122	47	-	-	-	S	800381	VRS2
2.623	2.627	.500	S	*480122	48	-	-	-	V	800385	VRS2
2.686	2.690	.250	S	*43088S	4S						
2.686	2.690	.375	S	*471862	47						
2.686	2.690	.500	S	*410746	41						
2.686	2.690	.500	S	*450746	45						
2.686	2.690	.500	S	*470746	47						
2.686	2.690	.500	S	*480746	48						
2.750	2.754	.500	S	*410808	41						

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.500" (1-1/2") SHAFT (cont.)						1.521" SHAFT					
2.623	2.627	.500	S	*411857	41	-	-	-	S	800400	VRS1
2.623	2.627	.500	N	*411857N	41	-	-	-	V	800404	VRS1
2.623	2.627	.500	S	*451857	45	-	-	.438		99152	Redi-Sleeve
2.623	2.627	.500	S	*481857	48	2.656	2.660	.424	S	8610	74
2.686	2.690	.500	S	*410487	41	2.656	2.660	.594	S	8611N	74
2.686	2.690	.500	S	*450487	45	1.523" SHAFT					
2.686	2.690	.500	S	470487	47	-	-	-	S	800400	VRS1
2.686	2.690	.500	N	*470487N	47	-	-	-	V	800404	VRS1
2.686	2.690	.500	S	*480487	48	-	-	.438		99152	Redi-Sleeve
2.716	2.720	.250	S	*43808	4S	2.714	2.718	.500	S	8940S	48
2.716	2.720	.468	S	*410984	41	1.531" (1-17/32") SHAFT					
2.716	2.720	.468	S	*450984	45	-	-	-	S	800400	VRS1
2.750	2.754	.312	S	*473440	47	-	-	-	V	800404	VRS1
2.750	2.754	.500	S	*410461	41	2.374	2.378	.375	S	*452222	45
2.750	2.754	.500	S	450461	45	2.374	2.378	.500	S	*410060	41
2.750	2.754	.500	S	*470461	47	2.374	2.378	.500	V	*410060V	41
2.750	2.754	.500	S	*480461	48	2.374	2.379	.375	S	472222	47
2.758	2.762	.500	S	*410077	41	2.623	2.627	.250	S	*40369S	4S
2.758	2.762	.500	S	*450077	45	2.623	2.627	.500	S	*410369	41
2.758	2.762	.500	N	*450077N	45	39,00mm (1.535") SHAFT					
2.758	2.762	.500	S	470077	47	-	-	-	S	800400	VRS1
2.758	2.762	.500	S	*480077	48	-	-	-	V	800404	VRS1
2.758	2.763	.312	S	*474281	47	0,00	53,20	8,00	N	710451★	32
2.835	2.839	.468	S	471915	47	.000	2,094	.315			
2.875	2.879	.468	S	*410523	41	50,00	50,29	11,00	N	710120★	#
2.875	2.879	.468	S	*450523	45	1,969	1,980	.433			
2.875	2.879	.468	S	*470523	47	50,50	50,75	8,50	S	1126★	25
2.875	2.879	.468	S	*480523	48	1,988	1,998	.335			
2.996	3.001	.500	S	*410326	41	50,75	51,00	7,50	S	*39X51X7.5★	32
2.996	3.001	.500	S	*450326	45	1,998	2,008	.295			
2.996	3.001	.500	S	*470326	47	50,80	51,00	7,50	S	1128★	35
2.996	3.001	.500	S	*480326	48	2,000	2,008	.295			
3.000	3.005	.375	S	*471958	47	52,00	52,10	6,00	S	710338★	66
3.000	3.005	.375	S	*481958	48	2,047	2,051	.236			
3.000	3.005	.500	S	*451235	45	52,00	52,10	11,30	S	1205N★	47
3.125	3.130	.625	S	*210914	21	2,047	2,051	.445			
3.150	3.155	.500	S	*472446	47	52,00	52,30	11,30	S	1205★	47
3.189	3.194	.437	S	450540	45	2,047	2,059	.445			
3.350	3.355	.468	S	*450493	45	54,00	54,10	6,00	S	710404★	49
3.543	3.548	.375	S	*477340	47	2,126	2,130	.236			
3.543	3.548	.500	S	*415308	41	54,75	55,00	9,00	S	*39X55X9★	32
3.544	3.548	.500	S	455308	45	2,155	2,165	.354			
1.502" SHAFT						55,00	55,11	7,50	S	710158★	40
-	-	-	S	800400	VRS1	2,165	2,170	.295			
-	-	-	V	800404	VRS1	55,75	56,00	7,00	S	*39X56X7★	32
-	-	.375		99150	Redi-Sleeve	2,195	2,205	.276			
-	-	.563		99149	Redi-Sleeve	57,00	57,20	17,00	N	710123★	40
2.126	2.132	.492	N	4530	96	2,244	2,252	.669			
2.377	2.381	.374	N	4583	86	57,00	57,20	21,50	N	710122★	40
1.503" SHAFT						2,244	2,252	.846			
-	-	-	S	800400	VRS1	57,00	57,38	9,65	V	324204★	32
-	-	-	V	800404	VRS1	2,244	2,259	.380			
-	-	.375		99150	Redi-Sleeve	58,75	59,00	8,00	S	*39X59X8★	32
-	-	.563		99149	Redi-Sleeve	2,313	2,323	.315			
1.937	1.950	.475	N	710247	#	59,00	59,28	11,00	N	710214★	40
2.374	2.379	.374	N	4934	79	2,323	2,334	.433			
2.376	2.383	.420	N	4370N	88	59,00	59,30	11,00	S	710118★	40
38,50mm (1.516") SHAFT						2,323	2,335	.433			
-	-	-	S	800400	VRS1	64,75	65,00	8,00	S	*39X65X8★	32
-	-	-	V	800404	VRS1	2,549	2,559	.315			
53,00	53,23	8,00	N	710233★	32	1.546" SHAFT					
2.087	2.096	.315				-	-	-	S	800400	VRS1
58,00	58,20	8,50	N	710318★	32	-	-	-	V	800404	VRS1
2.283	2.291	.335				2.375	2.385	.500	S	*712144	32

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ⚡ Hydrodynamic Lip Design-CCW
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.562" (1-9/16") SHAFT (cont.)						40,00mm (1.575") SHAFT (cont.)					
2.758	2.762	.500	S	* 470273	47	52,00	52,20	7,00	V	* 40X52X7V★	32
2.758	2.762	.500	S	* 480273	48	2,047	2,055	.276			
2.758	2.762	.500	N	* 480273N	48	52,00	52,22	9,00	S	4175★	#
2.833	2.840	.493	V	4889	#	2,047	2,056	.354			
2.873	2.880	.493	V	4890	#	52,00	52,25	6,00	S	1178★	32
2.875	2.879	.375	S	473442	47	2,047	2,057	.236			
2.875	2.879	.468	S	* 410418	41	52,00	52,25	7,00	S	40X52X7★	32
2.875	2.879	.468	S	* 450418	45	2,047	2,057	.276			
2.875	2.879	.468	S	* 470418	47	52,00	52,28	7,00	S	224010★	35
2.875	2.879	.468	S	* 480418	48	2,047	2,058	.276			
2.875	3.062	.468	N	* 7525N	47	52,00	52,28	7,00	S	224015★	32
2.996	3.000	.312	S	* 453510	45	2,047	2,058	.276			
2.996	3.001	.500	S	* 411962	41	52,00	52,28	7,00	H	224052★➔	32
3.150	3.155	.312	S	473490	47	2,047	2,058	.276			
3.543	3.548	.375	S	476510	47	52,00	52,28	9,00	N	1217★&	35
1.565" SHAFT						40,00mm (1.575") SHAFT (cont.)					
-	-	-	S	800400	VRS1	2,047	2,058	.354			
-	-	-	V	800404	VRS1	52,75	53,00	8,00	S	* 40X53X8★	32
-	-	.563		99156	Redi-Sleeve	2,077	2,087	.315			
2.372	2.382	.394	S	710198	#	53,75	54,00	7,00	S	* 40X54X7★	32
1.574" SHAFT						40,00mm (1.575") SHAFT (cont.)					
-	-	-	S	800400	VRS1	2,116	2,126	.276			
-	-	-	V	800404	VRS1	53,75	54,00	8,00	S	* 40X54X8★	32
-	-	.512		99157	Redi-Sleeve	2,116	2,126	.315			
2.410	2.415	.540	V	714569↔	#	53,75	54,00	10,00	S	* 40X54X10★	32
2.676	2.683	.500	N	4141	#	2,116	2,126	.394			
40,00mm (1.575") SHAFT						40,00mm (1.575") SHAFT (cont.)					
-	-	-	S	800400	VRS1	53,90	54,00	6,00	S	710444★↔	32
-	-	-	V	800404	VRS1	2,122	2,126	.236			
-	-	.512		99157	Redi-Sleeve	54,00	54,10	5,50	S	1213★	47
0,00	58,24	5,99	S	710505★	32	2,126	2,130	.217			
.000	2.293	.236				54,00	54,10	5,50	S	1213N★	47
0,00	72,00	11,00	S	710523★	#	2,126	2,130	.217			
.000	2.835	.433				54,00	54,10	8,00	S	710311★	25
49,80	50,00	5,00	S	* 40X50X5★	32	2,126	2,130	.315			
1.961	1.969	.197				54,00	54,20	5,50	S	40X54X6★	47
49,80	50,00	6,50	S	* 40X50X6.5★	32	2,126	2,134	.217			
1.961	1.969	.256				54,00	54,20	10,00	N	710287★↔	32
49,80	50,00	7,00	S	* 40X50X7★	32	2,126	2,134	.394			
1.961	1.969	.276				54,75	55,00	7,00	S	* 40X55X7★	32
49,80	50,00	10,00	S	* 40X50X10★	32	2,155	2,165	.276			
1.961	1.969	.394				54,75	55,00	10,00	S	* 40X55X10★	32
50,00	50,20	8,00	S	40X50X8★	35	2,155	2,165	.394			
1.969	1.976	.315				54,89	55,00	13,00	N	710443★	#
51,75	52,00	6,00	S	* 40X52X6★	32	2,161	2,165	.512			
2.037	2.047	.236				55,00	55,09	8,00	S	473677★	47
51,75	52,00	8,00	S	* 40X52X8★	32	2,165	2,169	.315			
2.037	2.047	.315				55,00	55,09	8,00	S	* 476677★	47
51,75	52,00	9,00	S	* 40X52X9★	32	2,165	2,169	.315			
2.037	2.047	.354				55,00	55,17	9,60	S	3392★↔	47
51,75	52,00	10,00	S	* 40X52X10★	32	2,165	2,172	.378			
2.037	2.047	.394				55,00	55,20	6,50	S	40X55X6★	35
52,00	0,00	7,00	V	224053★	32	2,165	2,173	.256			
2.047	.000	.276				55,00	55,20	8,00	V	* 40X55X8V★	32
52,00	52,12	7,50	S	* 3967★	#	2,165	2,173	.315			
2.047	2.052	.295				55,00	55,28	8,00	S	40X55X8★	32
52,00	52,12	8,00	S	* 3609★	47	2,165	2,176	.315			
2.047	2.052	.315				55,00	55,28	9,00	S	224020★➔	32
52,00	52,12	8,50	S	1962★&	78	2,165	2,176	.315			
2.047	2.052	.335				55,75	56,00	8,00	S	* 40X56X8★	32
52,00	52,20	6,00	S	710308★➔	32	2,195	2,205	.315			
2.047	2.055	.236				55,75	56,00	8,00	S	* 40X56X8★	32
52,00	52,20	6,50	S	239201★&	32	2,195	2,205	.315			
2.047	2.055	.256				55,75	56,00	8,00	S	* 40X56X8★	32

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-CCW
 ↔ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
40,00mm (1.575") SHAFT (cont.)						40,00mm (1.575") SHAFT (cont.)					
56,00	56,26	7,00	V	*350612★	35	63,25	63,50	10,00	S	*40X63.5X10★	32
2.205	2.215	.276				2.490	2.500	.394			
56,00	56,26	8,00	S	712551★	32	63,75	64,00	10,00	S	*40X64X10★	32
2.205	2.215	.315				2.510	2.520	.394			
56,00	56,26	9,00	V	224026★	35	63,75	64,00	12,00	S	*40X64X12★	32
2.205	2.215	.354				2.510	2.520	.472			
56,75	57,00	7,00	S	*40X57X7★	32	64,00	64,00	11,98	N	1216★&	74
2.234	2.244	.276				2.520	2.520	.472			
56,90	57,15	10,00	S	*40X57.15X10★	32	64,00	64,10	12,00	N	1216N★&	74
2.240	2.250	.394				2.520	2.524	.472			
57,00	57,20	10,00	S	40X57X10★	32	64,00	64,10	12,00	S	710326★	66
2.244	2.252	.394				2.520	2.524	.472			
57,00	57,20	10,00	S	710432★	32	64,75	65,00	8,00	S	*40X65X8★	32
2.244	2.252	.394				2.549	2.559	.315			
57,75	58,00	6,50	S	*40X58X6.5★	32	64,75	65,00	12,00	S	*40X65X12★	32
2.273	2.283	.256				2.549	2.559	.472			
58,00	58,14	9,00	N	3459★<=>	74	65,00	65,13	9,53	S	474161★	47
2.283	2.289	.354				2.559	2.564	.375			
58,00	58,20	8,00	S	40X58X8★	32	65,00	65,20	20,00	S	710134★	#
2.283	2.291	.315				2.559	2.567	.787			
58,00	58,20	10,00	V	*40X58X10V★	35	65,00	65,28	10,00	S	40X65X10★	32
2.283	2.291	.394				2.559	2.570	.394			
58,00	58,28	10,00	S	40X58X10★	32	65,00	65,28	10,00	S	224100★	35
2.283	2.294	.394				2.559	2.570	.394			
58,75	59,00	10,00	S	*40X59X10★	32	66,00	66,30	8,00	N	224066★<=>	40
2.313	2.323	.394				2.598	2.610	.315			
59,75	60,00	7,00	S	*40X60X7★	32	67,75	68,00	7,00	S	*40X68X7★	32
2.352	2.362	.276				2.667	2.677	.276			
59,75	60,00	12,00	S	*40X60X12★	32	67,75	68,00	10,00	S	*40X68X10★	32
2.352	2.362	.472				2.667	2.677	.394			
60,00	60,20	8,00	S	710147★	#	68,00	68,10	9,00	N	224068★	40
2.362	2.370	.315				2.677	2.681	.354			
60,00	60,20	10,00	S	224040★	35	68,00	68,25	12,00	S	40X68X12★	35
2.362	2.370	.394				2.677	2.687	.472			
60,00	60,20	10,00	S	40X60X10★	32	68,00	68,80	8,00	S	40X68X8★	35
2.362	2.370	.394				2.677	2.709	.315			
60,00	60,20	10,00	V	*40X60X10V★	35	69,75	70,00	10,00	S	*40X70X10★	32
2.362	2.370	.394				2.746	2.756	.394			
60,00	60,20	10,00	S	*1078★	33	69,75	70,00	12,00	S	*40X70X12★	32
2.362	2.370	.394				2.746	2.756	.472			
61,75	62,00	9,00	S	*40X62X9★	32	70,00	70,20	8,00	S	40X70X8★	32
2.431	2.441	.354				2.756	2.764	.315			
61,75	62,00	10,00	S	*40X62X10★	32	71,75	72,00	10,00	S	*40X72X10★	32
2.431	2.441	.394				2.825	2.835	.394			
61,75	62,00	11,00	S	*40X62X11★	32	71,75	72,00	12,00	S	*40X72X12★	32
2.431	2.441	.433				2.825	2.835	.472			
61,75	62,00	11,50	S	*40X62X11.5★	32	72,00	72,35	7,00	S	40X72X7★	35
2.431	2.441	.453				2.835	2.848	.276			
62,00	62,20	7,00	S	40X62X7★	35	72,00	72,35	7,00	V	350572★	35
2.441	2.449	.276				2.835	2.848	.276			
62,00	62,20	7,00	V	*40X62X7V★	32	73,00	73,10	10,00	N	710284★	#
2.441	2.449	.276				2.874	2.878	.394			
62,00	62,20	9,00	S	710131★	#	73,75	74,00	10,00	S	*40X74X10★	32
2.441	2.449	.354				2.903	2.913	.394			
62,00	62,25	8,00	S	40X62X8★	32	74,00	74,12	10,00	S	474133★	47
2.441	2.451	.315				2.913	2.918	.394			
62,00	62,25	10,00	S	*1179★	#	74,00	74,20	8,00	S	*40X74X8★	32
2.441	2.451	.394				2.913	2.921	.315			
62,00	62,25	11,50	S	40X62X12★	35	74,75	75,00	10,00	S	*40X75X10★	32
2.441	2.451	.453				2.943	2.953	.394			
62,00	62,27	10,00	V	710196★	32	74,75	75,00	13,00	S	*40X75X13★	32
2.441	2.452	.394				2.943	2.953	.512			
62,00	62,27	11,00	S	224045★	32	75,00	75,20	8,00	S	40X75X8★	32
2.441	2.452	.433				2.953	2.961	.315			
62,00	62,30	6,50	S	710227★	#	75,00	75,20	12,00	S	712011★	32
2.441	2.453	.256				2.953	2.961	.472			
62,25	62,50	11,00	S	*40X62.5X11★	32	75,00	75,26	12,00	N	2011★<=>	40
2.451	2.461	.433				2.953	2.963	.472			
62,75	63,00	7,00	S	*40X63X7★	32	75,00	75,26	18,00	N	712020★<=>	32
2.470	2.480	.276				2.953	2.963	.709			
63,00	63,30	8,00	N	224063★<=>	32	75,00	75,30	12,00	S	*710050★	32
2.480	2.492	.315				2.953	2.965	.472			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use <=> Hydrodynamic Lip Design-CW <=> Hydrodynamic Lip Design-CCW

<=> Hydrodynamic Lip Design-Bidirectional & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
40,00mm (1.575") SHAFT (cont.)						1.594" SHAFT (cont.)					
75,00	75,30	12,00	S	710113★	#	58,00	58,23	8,00	S	710140★	32
2.953	2.965	.472				2.283	2.293	.315			
75,75	76,00	8,00	S	*40X76X8★	32	1.598" SHAFT					
2.982	2.992	.315				-	-	-	S	800400	VRS1
76,00	76,25	8,00	S	1036★➔	40	-	-	-	V	800404	VRS1
2.992	3.002	.315				2.476	2.483	.350	N	4765◀	79
76,00	76,28	12,50	N	1146★◀	32	2.476	2.483	.420	N	4764◀	86
2.992	3.003	.492				1.603" SHAFT					
78,00	78,20	10,00	S	40X78X10★	35	-	-	-	S	800400	VRS1
3.071	3.079	.394				-	-	-	V	800404	VRS1
78,00	78,80	8,00	S	40X78X8★	32	-	-	.500		99160	Redi-Sleeve
3.071	3.102	.315				2.282	2.292	.530	N	*7456N&	94
79,72	80,00	7,00	S	*40X80X7★	32	2.375	2.379	.187	N	*8073	#
3.139	3.150	.276				1.605" SHAFT					
79,72	80,00	12,00	S	*40X80X12★	32	-	-	-	S	800400	VRS1
3.139	3.150	.472				-	-	-	V	800404	VRS1
80,00	80,20	10,00	V	*40X80X10V★	32	-	-	.500		99160	Redi-Sleeve
3.150	3.157	.394				2.374	2.386	.375	S	1192	32
80,00	80,28	10,00	S	40X80X10★	35	2.560	2.565	.693	N	714679◀➔	#
3.150	3.161	.394				2.795	2.804	.364	N	4674N◀➔	#
80,22	80,50	10,00	S	*40X80.5X10★	32	1.609" SHAFT					
3.158	3.169	.394				-	-	-	S	800400	VRS1
82,00	82,20	8,00	S	*40X82X8★	32	-	-	-	V	800404	VRS1
3.228	3.236	.315				-	-	.500		99160	Redi-Sleeve
85,00	85,20	8,00	S	*40X85X8★	32	2.374	2.386	.375	S	1192	32
3.346	3.354	.315				2.560	2.565	.693	N	714679◀➔	#
88,00	88,20	8,00	S	*40X88X8★	32	2.795	2.804	.364	N	4674N◀➔	#
3.465	3.472	.315				1.610" SHAFT					
89,72	90,00	10,00	S	*40X90X10★	32	-	-	-	S	800400	VRS1
3.532	3.543	.394				-	-	-	V	800404	VRS1
89,72	90,00	12,00	S	*40X90X12★	32	2.435	2.441	.300	V	2658V	75
3.532	3.543	.472				2.435	2.441	.300	H	2658➔	75
90,00	90,20	8,00	S	40X90X8★	35	2.750	2.754	.500	S	*413310	41
3.543	3.551	.315				1.610" SHAFT					
1.578" SHAFT						-	-	-	S	800400	VRS1
-	-	-	S	800400	VRS1	-	-	-	V	800404	VRS1
-	-	.512		99157	Redi-Sleeve	2.500	2.531	.300	S	6283S	26
2.000	2.004	.250	S	43074S	4S	41,00mm (1.614") SHAFT					
2.408	2.412	.500	S	450666	45	-	-	-	S	800400	VRS1
1.593" (1-19/32") SHAFT						-	-	-	V	800404	VRS1
-	-	-	S	800400	VRS1	50,75	51,00	5,00	S	*41X51X5★	32
-	-	-	V	800404	VRS1	1.998	2.008	.197			
2.437	2.441	.468	S	450065	45	52,75	53,00	7,00	S	*41X53X7★	32
2.437	2.441	.500	S	*482042	48	2.077	2.087	.276			
2.502	2.506	.250	S	482253	48	53,00	53,25	7,00	S	1950★	41
2.502	2.506	.250	N	*482253N	48	2.087	2.096	.276			
2.502	2.506	.281	N	*482605N	48	53,75	54,00	7,00	S	*41X54X7★	32
2.502	2.506	.375	S	*481838	48	2.116	2.126	.276			
2.502	2.506	.500	S	*450258	45	54,00	54,23	7,00	N	224150★	35
2.623	2.627	.340	S	451469	45	2.126	2.135	.276			
2.623	2.627	.500	S	*451858	45	55,00	55,29	7,00	S	41X55X7★	32
2.623	2.627	.500	H	*451858H	45	2.165	2.177	.276			
2.758	2.762	.500	S	450274	45	55,00	55,29	7,00	S	1180★	32
2.758	2.762	.500	H	*450274H	45	2.165	2.177	.276			
1.594" SHAFT						55,45	55,70	9,00	S	*41X55.7X9★	32
-	-	-	S	800400	VRS1	2.183	2.193	.354			
-	-	-	V	800404	VRS1	56,00	0,00	8,00	V	711181★	32
.000	2.291	.354	N	710512	40	2.205	.000	.315			
52,50	52,70	6,00	N	710436★➔	35	56,00	56,25	7,00	S	41X56X7★	32
2.067	2.075	.236				2.205	2.215	.276			
2.125	2.129	.250	S	480581	48	56,00	56,25	7,00	S	1181★	35
2.125	2.129	.281	S	*481384	48	2.205	2.215	.276			
2.125	2.129	.281	N	*481384N	48	59,00	59,10	10,00	N	710114★➔	98
2.125	2.129	.281	V	*481384V	48	2.323	2.327	.394			
						61,00	61,20	10,00	N	710141★◀	#
						2.402	2.409	.394			

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW
 ◀➔ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
41,00mm (1.614") SHAFT (cont.)						1.625" (1-5/8") SHAFT (cont.)					
62,00	62,20	8,00	S	*41X62X8★	32	2.374	2.378	.500	S	*480358	48
2.441	2.449	.315				2.374	2.378	.500	N	*710358	45
62,00	62,23	9,00	N	710220★➔	32	2.374	2.385	.375	S	*321150	32
2.441	2.450	.354				2.437	2.441	.250	S	*40066S	4S
63,00	63,20	9,00	N	710291★◄	40	2.437	2.441	.312	V	473367V	47
2.480	2.488	.354				2.437	2.441	.312	S	473367	47
63,75	64,00	10,00	S	*41X64X10★	32	2.437	2.441	.312	V	483367V	48
2.510	2.520	.394				2.437	2.441	.375	S	471419	47
68,00	68,20	13,00	S	710402★	#	2.437	2.441	.375	S	*481419	48
2.677	2.685	.512				2.437	2.441	.375	H	*481419H	48
1.618" SHAFT						2.437	2.441	.468	S	*410066	41
-	-	-	S	800400	VRS1	2.437	2.441	.468	S	450066	45
-	-	-	V	800404	VRS1	2.437	2.441	.468	N	*450066N	45
2.000	2.004	.235	S	*484206	48	2.437	2.441	.500	S	*480066	48
2.124	2.128	.250	V	*483525V	48	2.437	2.441	.500	S	*452401	45
2.531	2.535	.750	S	8477S	48	2.437	2.441	.500	V	*452401V	45
2.574	2.579	.460	S	*3983◄➔	47	2.437	2.441	.500	S	*482401	48
2.575	2.579	.460	L	8835L**	33	2.437	2.441	.500	V	*482401V	48
2.575	2.579	.500	S	8835S◄➔	33	2.440	2.444	.500	S	*710063	#
2.841	2.849	.500	N	4762N◄➔	74	2.441	2.445	.375	S	471829	47
1.625" (1-5/8") SHAFT						2.441	2.445	.375	V	471829V	47
-	-	-	S	800400	VRS1	2.441	2.445	.500	S	*410795	41
-	-	-	V	800404	VRS1	2.448	2.502	.250	F	*6356	29
-	-	.313		*99161	Redi-Sleeve	2.462	-	.250	S	200641%	200E
-	-	.563		99162	Redi-Sleeve	2.502	2.506	.250	S	*472758	47
2.000	2.004	.250	S	473694	47	2.502	2.506	.250	N	*472758N	47
2.087	2.091	.275	S	*413799	41	2.502	2.506	.250	V	472758V	47
2.116	2.120	.312	S	472419	47	2.502	2.506	.250	S	*482758	48
2.116	2.120	.312	N	*472419N	47	2.502	2.506	.312	V	473010V	47
2.116	2.127	.312	S	324939	32	2.502	2.506	.312	S	473010	47
2.125	2.129	.250	S	481181	48	2.502	2.506	.312	N	*473010N	47
2.125	2.129	.250	H	*481181H	48	2.502	2.506	.312	S	*483010	48
2.125	2.129	.250	N	481181N	48	2.502	2.506	.375	N	*483010N	48
2.250	2.254	.312	S	473230	47	2.502	2.506	.375	N	*451839N	45
2.250	2.254	.312	S	*483230	48	2.502	2.506	.375	S	*471839	47
2.250	2.254	.312	V	483230V	48	2.502	2.506	.375	H	*471839H	47
2.250	2.254	.500	S	*410755	41	2.502	2.506	.375	N	*471839N	47
2.250	2.254	.500	S	*450755	45	2.502	2.506	.375	S	*481839	48
2.250	2.254	.500	S	*450755H	45	2.502	2.506	.375	N	*481839N	48
2.250	2.254	.500	S	*470755	47	2.502	2.506	.500	S	*410194	41
2.250	2.254	.500	S	*480755	48	2.502	2.506	.500	V	410194V	41
2.251	2.255	.375	S	1999	48	2.502	2.506	.500	S	450194	45
2.251	2.256	.375	S	*471289	47	2.502	2.506	.500	H	*450194H	45
2.251	2.256	.375	S	*481289	48	2.502	2.506	.500	N	*450194N	45
2.282	2.286	.313	S	710204	48	2.502	2.506	.500	S	*470194	47
2.327	2.332	.406	S	204017	204	2.502	2.506	.500	S	*480194	48
2.327	2.332	.440	S	*204075	204	2.562	2.566	.250	S	204500	4S
2.328	2.332	.406	F	205017	205	2.562	2.566	.375	F	291099	29
2.328	2.332	.437	S	473117	47	2.562	2.566	.437	S	4763S	#
2.328	2.332	.437	N	*473117N	47	2.623	2.627	.250	S	*42135S	4S
2.374	2.378	.312	V	473231V	47	2.623	2.627	.312	S	473232	47
2.374	2.378	.312	S	473231	47	2.623	2.627	.312	S	*483232	48
2.374	2.378	.312	A	473231A	47	2.623	2.627	.500	S	*410069	41
2.374	2.378	.312	S	*483231	48	2.623	2.627	.500	N	*450069N	45
2.374	2.378	.375	S	*471150	47	2.623	2.627	.500	V	*450069V	45
2.374	2.378	.375	S	*481150	48	2.623	2.627	.500	S	*470069	47
2.374	2.378	.375	H	*481150H	48	2.623	2.627	.500	H	*470069H	47
2.374	2.378	.375	N	*481150N	48	2.623	2.627	.500	S	*480069	48
2.374	2.378	.437	S	453341	45	2.625	2.629	.250	S	40568S	4S
2.374	2.378	.500	S	*410358	41	2.625	2.629	.500	T	50568➔	5S
2.374	2.378	.500	H	*410358H	41	2.625	2.629	.500	T	50569	5S
2.374	2.378	.500	N	*410358N	41	2.686	2.690	.375	S	481864	48
2.374	2.378	.500	S	*450358	45	2.686	2.690	.375	H	*481864H	48
2.374	2.378	.500	N	*450358N	45	2.686	2.690	.500	S	*450072	45
2.374	2.378	.500	S	470358	47	2.686	2.690	.500	S	*480072	48
2.374	2.378	.500	H	*470358H	47	2.722	2.727	.406	F	5727	205
2.374	2.378	.500	N	470358N	47	2.750	2.754	.180	N	*8994N	48
						2.750	2.754	.250	L	40286	4L

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

◄➔ Hydrodynamic Lip Design-Bidirectional ** Canada Only % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.625" (1-5/8") SHAFT (cont.)						1.652" SHAFT					
2.750	2.754	.250	S	*42754S	4S	-	-	-	S	800400	VRS1
2.750	2.754	.312	S	*474247	47	-	-	-	V	800404	VRS1
2.750	2.754	.312	S	*474274	47	-	-	.445		99166	Redi-Sleeve
2.750	2.754	.375	S	473443	47	-	-	.563		99169	Redi-Sleeve
2.750	2.754	.500	S	*410286	41	-	-				
2.750	2.754	.500	N	*410286N	41	2.518	2.524	.394	S	3622↔	74
2.750	2.754	.500	S	*450286	45	42,00mm (1.654") SHAFT					
2.750	2.754	.500	N	*450286N	45	-	-	-	S	800400	VRS1
2.750	2.754	.500	S	470286	47	-	-	-	V	800404	VRS1
2.750	2.754	.500	S	*480286	48	-	-	.445		99166	Redi-Sleeve
2.758	2.762	.500	S	450275	45	-	-	.563		99169	Redi-Sleeve
2.758	2.762	.500	S	*480275	48	-	-				
2.835	2.839	.468	S	*450819	45	49,80	50,00	6,00	S	*42X50X6★	32
2.875	2.879	.375	S	*473444	47	1.961	1.969	.236			
2.875	2.879	.375	V	473444V	47	49,80	50,00	7,00	S	*42X50X7★	32
2.875	2.879	.437	N	*411923N	41	1.961	1.969	.276			
2.875	2.879	.437	N	471923N	47	51,75	52,00	4,00	S	*42X52X4★	32
2.875	2.879	.468	S	450078	45	2.037	2.047	.157			
2.875	2.879	.468	S	*480078	48	51,75	52,00	6,00	S	*42X52X6★	32
2.875	2.879	.500	S	*452170	45	2.037	2.047	.236			
2.875	2.879	.500	S	*482170	48	51,75	52,00	7,00	S	*42X52X7★	32
2.996	3.001	.500	S	450415	45	2.037	2.047	.276			
2.996	3.001	.500	S	*480415	48	53,75	54,00	7,00	S	*42X54X7★	32
3.000	3.004	.312	S	*414268	41	2.116	2.126	.276			
3.000	3.005	.500	S	*410539	41	54,75	55,00	9,00	S	*42X55X9★	32
3.000	3.005	.500	N	*410539N	41	2.155	2.165	.354			
3.000	3.005	.500	S	450539	45	54,89	55,00	8,00	S	1214★	47
3.000	3.005	.500	S	*480539	48	2.161	2.165	.315			
3.062	3.066	.500	S	450335	45	54,89	55,00	8,00	S	1214N★	47
3.125	3.130	.500	N	*411978N	41	2.161	2.165	.315			
3.251	3.256	.500	S	*410467	41	55,00	55,12	8,00	H	3051★↔	33
3.251	3.256	.500	S	450467	45	2.165	2.170	.315			
3.543	3.548	.375	S	*477104	47	55,00	55,12	8,00	H	3051N★↔	33
3.937	3.942	.375	S	*476878	47	2.165	2.170	.315			
1.628" SHAFT											
-	-	-	S	800400	VRS1	2.165	2.170	.315			
-	-	-	V	800404	VRS1	55,00	55,20	7,00	S	42X55X7★	32
-	-	.313		*99161	Redi-Sleeve	2.165	2.173	.276			
-	-	.563		99162	Redi-Sleeve	55,00	55,20	7,50	S	224200★	32
2.122	2.126	.343	S	710202	#	2.165	2.173	.295			
2.278	2.282	.343	S	710241	68	55,00	55,20	8,00	V	*42X55X8V★	35
1.630" SHAFT											
-	-	-	S	800400	VRS1	2.165	2.173	.315			
-	-	-	V	800404	VRS1	55,00	55,28	8,00	S	224210★	35
2.415	2.441	.492	N	4143	#	2.165	2.176	.315			
41,70mm (1.642") SHAFT											
54,75	55,00	7,00	S	*41.7X55X7★	32	55,00	55,28	8,00	S	42X55X8★	35
2.155	2.165	.276				2.165	2.176	.315			
54,75	55,00	10,00	S	*41.7X55X10★	32	55,00	55,28	8,00	S	42X55X8★	35
2.155	2.165	.394				2.165	2.176	.315			
1.645" SHAFT											
-	-	-	S	800400	VRS1	55,00	55,28	8,00	S	42X55X8★	35
-	-	-	V	800404	VRS1	2.195	2.205	.236			
2.656	2.660	.406	N	8620N	47	55,75	56,00	10,00	S	*42X56X10★	32
1.650" SHAFT											
-	-	-	S	800400	VRS1	2.195	2.205	.394			
-	-	-	V	800404	VRS1	56,00	56,10	14,00	N	710221★	#
-	-	.445		99166	Redi-Sleeve	2.205	2.209	.551			
-	-	.563		99169	Redi-Sleeve	56,00	56,13	7,00	S	42X56X7★	32
2.282	2.336	.768	H	3083↔	48	2.205	2.210	.276			
2.410	2.414	.361	S	710102	#	56,00	56,13	7,00	H	*1944★↔	32
						2.205	2.210	.276			
						56,00	56,16	7,00	N	473560N★↔	47
						2.205	2.211	.276			
						56,00	56,21	6,00	S	710097★	#
						2.205	2.213	.236			
						56,00	56,20	7,00	V	*42X56X7V★	35
						2.205	2.213	.276			
						56,00	56,21	7,00	S	224220★	49
						2.205	2.213	.276			
						56,00	56,20	7,00	H	710386★↔	32
						2.205	2.213	.276			
						56,00	56,28	7,00	S	494117★	49
						2.205	2.216	.276			
						56,00	56,34	7,00	H	3774★↔	35
						2.205	2.218	.276			

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ↗ Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-Bidirectional

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
42,00mm (1.654") SHAFT (cont.)						42,00mm (1.654") SHAFT (cont.)					
56,30	56,44	8,00	S	710186★	#	64,75	65,00	7,50	S	*42X65X7.5★	32
2.216	2.222	.315				2.549	2.559	.295			
56,50	56,70	8,00	S	710244★	#	64,75	65,00	9,00	S	*42X65X9★	32
2.224	2.232	.315				2.549	2.559	.354			
57,75	58,00	8,00	S	*42X58X8★	32	64,75	65,00	12,00	S	*42X65X12★	32
2.273	2.283	.315				2.549	2.559	.472			
57,75	58,00	10,00	S	*42X58X10★	32	64,80	65,00	13,50	S	710179★➔	32
2.273	2.283	.394				2.551	2.555	.531			
58,00	58,10	7,00	S	42X58X7★	48	65,00	65,15	10,00	N	42X65X10★	47
2.283	2.287	.276				2.559	2.565	.394			
58,00	58,10	10,00	S	*2000★	33	65,00	65,15	10,00	N	224255★	47
2.283	2.287	.394				2.559	2.565	.394			
58,00	58,17	7,00	V	474241V★➔	47	65,00	65,20	10,00	V	*42X65X10V★	35
2.283	2.290	.276				2.559	2.567	.394			
58,00	58,18	7,00	S	224235★	48	65,05	65,15	9,50	N	*474135N★	47
2.283	2.291	.276				2.561	2.565	.374			
58,00	58,20	12,00	S	710517★	#	66,00	66,28	10,00	S	224266★	32
2.283	2.291	.472				2.598	2.609	.394			
58,00	58,28	8,00	N	224215★◄	32	67,00	67,13	7,16	V	4615V★➔	83
2.283	2.294	.315				2.638	2.643	.282			
59,00	59,10	7,00	N	710442★➔	48	67,00	67,20	10,00	N	710286★◄➔	32
2.323	2.327	.276				2.638	2.646	.394			
59,75	60,00	8,00	S	*42X60X8★	32	68,00	68,20	8,00	S	42X68X8★	32
2.352	2.362	.315				2.677	2.685	.315			
59,75	60,00	9,00	S	*42X60X9★	32	68,00	68,20	10,00	S	42X68X10★	32
2.352	2.362	.354				2.677	2.685	.394			
59,75	60,00	10,00	S	*42X60X10★	32	69,75	70,00	8,00	S	*42X70X8★	32
2.352	2.362	.394				2.746	2.756	.315			
59,75	60,00	12,00	S	*42X60X12★	32	69,75	70,00	12,00	S	*42X70X12★	32
2.352	2.362	.472				2.746	2.756	.472			
60,00	60,20	10,00	V	*42X60X10V★	35	70,00	70,20	10,00	S	42X70X10★	32
2.362	2.370	.394				2.756	2.764	.394			
60,00	60,22	7,00	S	42X60X7★	32	72,00	72,20	8,00	S	42X72X8★	32
2.362	2.371	.276				2.835	2.843	.315			
60,00	60,22	7,00	V	*320563★	32	72,00	72,20	10,00	V	*42X72X10V★	35
2.362	2.371	.276				2.835	2.843	.394			
60,00	60,22	7,00	S	*323715★	32	72,00	72,27	10,00	S	42X72X10★	32
2.362	2.371	.276				2.835	2.845	.394			
60,00	60,22	7,04	N	1953★	32	72,00	72,27	10,00	S	224270★	32
2.362	2.371	.277				2.835	2.845	.394			
60,00	60,42	7,00	V	2025★	32	72,00	72,28	10,00	S	710207★	40
2.362	2.379	.276				2.835	2.846	.394			
61,75	62,00	7,00	S	*42X62X7★	32	74,75	75,00	10,00	S	*42X75X10★	32
2.431	2.441	.276				2.943	2.953	.394			
61,75	62,00	10,00	S	*42X62X10★	32	74,75	75,00	12,00	S	*42X75X12★	32
2.431	2.441	.394				2.943	2.953	.472			
61,75	62,00	12,00	S	*42X62X12★	32	75,00	75,20	8,00	S	*42X75X8★	32
2.431	2.441	.472				2.953	2.961	.315			
62,00	62,10	12,00	S	710403★	#	75,75	76,00	12,00	S	*42X76X12★	32
2.441	2.445	.472				2.982	2.992	.472			
62,00	62,20	7,00	S	710301★	97	76,00	76,10	14,00	N	710245★➔	#
2.441	2.449	.276				2.992	2.996	.551			
62,00	62,20	8,00	V	*42X62X8V★	32	76,00	76,28	12,00	S	710195★	40
2.441	2.449	.315				2.992	3.003	.472			
62,00	62,20	8,00	N	710408★	32	77,72	78,00	10,00	S	*42X78X10★	32
2.441	2.449	.315				3.060	3.071	.394			
62,00	62,27	8,00	S	224250★	35	78,00	78,20	8,00	S	*42X78X8★	32
2.441	2.452	.315				3.071	3.079	.315			
62,00	62,27	8,00	S	42X62X8★	35	80,00	80,20	8,00	S	42X80X8★	32
2.441	2.452	.315				3.150	3.157	.315			
62,00	62,27	10,00	S	*1946★	35	80,00	80,20	10,00	S	42X80X10★	35
2.441	2.452	.394				3.150	3.157	.394			
62,00	62,27	10,00	S	224252★	32	90,00	90,09	9,00	N	710133★	#
2.441	2.452	.394				3.543	3.547	.354			
62,75	63,00	7,00	S	*42X63X7★	32	90,00	90,28	12,00	N	710246★	#
2.470	2.480	.276				3.543	3.554	.472			
63,00	63,20	9,00	N	710298★➔	40	1.656" (1-21/32") SHAFT					
2.480	2.488	.354				-	-	-	S	800400	VRS1
63,75	64,00	8,00	S	*42X64X8★	32	-	-	-	V	800404	VRS1
2.510	2.520	.315				2.502	2.506	.500	S	450260	45
64,00	64,18	6,00	S	224254★	34						
2.520	2.527	.236									

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

◄➔ Hydrodynamic Lip Design-Bidirectional

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.656" (1-21/32") SHAFT (cont.)						1.687" (1-11/16") SHAFT (cont.)					
2.623	2.627	.455	N	7457N	1S	2.502	2.506	.312	S	473234	47
2.623	2.627	.455	N	*9541N	#	2.502	2.506	.375	S	*450363	45
2.686	2.690	.500	S	450073	45	2.502	2.506	.375	H	*450363H	45
2.686	2.690	.500	S	*480073	48	2.502	2.506	.500	S	*480363	48
2.750	2.754	.500	S	*450284	45	2.502	2.506	.500	S	*410154	41
2.875	2.879	.468	S	*450079	45	2.502	2.506	.500	N	*410154N	41
2.937	2.941	.375	S	472660	47	2.502	2.506	.500	S	450154	45
1.670" SHAFT						2.502	2.506	.500	S	*470154	47
-	-	-	S	800400	VRS1	2.502	2.506	.500	H	*470154H	47
-	-	-	V	800404	VRS1	2.502	2.506	.582	S	*480154	48
2.686	2.690	.500	S	452086	45	2.560	2.579	.375	S	2146	#
1.673" SHAFT						2.560	2.579	.375	S	*5114	#
-	-	-	S	800400	VRS1	2.560	2.579	.470	S	712146↔↔	25
-	-	-	V	800404	VRS1	2.561	2.565	.500	S	*410460	41
2.162	2.166	.285	S	4099&	287	2.561	2.565	.500	S	470460	47
1.675" SHAFT						2.561	2.566	.500	S	*203041	203
-	-	-	S	800400	VRS1	2.605	2.609	.235	S	9178S	4S
-	-	-	V	800404	VRS1	2.623	2.627	.312	S	473235	47
2.000	2.175	.200	S	710385	#	2.623	2.627	.375	S	440265	44
1.680" SHAFT						2.623	2.627	.437	N	8516N	47
2.500	2.506	1.535	S	2465	79	2.623	2.627	.500	S	*410265	41
1.685" SHAFT						2.623	2.627	.500	N	*410265N	41
-	-	-	S	800400	VRS1	2.623	2.627	.500	S	*450265	45
-	-	-	V	800404	VRS1	2.623	2.627	.500	S	*470265	47
-	-	.313		*99167	Redi-Sleeve	2.623	2.627	.500	S	*470265H	47
-	-	.563		99168	Redi-Sleeve	2.623	2.627	.500	S	*480265	48
2.500	2.506	.421	V	4981V	#	2.624	2.628	.609	V	*8547	#
2.500	2.506	1.250	N	7300S↔	79	2.624	2.628	.609	H	*8547H	#
1.687" (1-11/16") SHAFT						2.650	2.725	.290	S	200886%	200E
-	-	-	S	800400	VRS1	2.684	2.706	.250	S	7381S	24
-	-	-	V	800404	VRS1	2.686	2.690	.500	S	*410074	41
-	-	.313		*99167	Redi-Sleeve	2.686	2.690	.500	S	*450074	45
-	-	.563		99168	Redi-Sleeve	2.686	2.690	.500	S	470074	47
2.279	2.283	.500	L	*6084	5L	2.686	2.690	.500	S	*480074	48
2.279	2.285	.250	S	353141	35	2.686	2.691	.312	S	474265	47
2.327	2.332	.500	S	203008	203	2.714	2.718	.468	S	*410421	41
2.327	2.332	.500	S	204008	204	2.716	2.720	.468	S	*410765	41
2.328	2.332	.312	S	473317	47	2.716	2.720	.468	S	450765	45
2.328	2.332	.312	N	*473317N	47	2.750	2.754	.312	S	473236	47
2.328	2.332	.437	S	*471410	47	2.750	2.754	.500	S	*410186	41
2.328	2.332	.437	S	*481410	48	2.750	2.754	.500	S	*450186	45
2.328	2.332	.531	S	7022S	276	2.750	2.754	.500	S	*470186	47
2.363	2.367	.437	S	*481345	48	2.750	2.754	.500	S	*480186	48
2.363	2.367	.437	H	*481345H	48	2.835	2.839	.468	S	*410596	41
2.363	2.367	.437	N	*481345N	48	2.835	2.839	.468	S	*450596	45
2.374	2.378	.312	S	473233	47	2.835	2.839	.468	S	470596	47
2.374	2.378	.375	S	*471812	47	2.835	2.839	.468	V	470596V	47
2.374	2.378	.375	S	*481812	48	2.835	2.839	.468	S	*480596	48
2.374	2.378	.500	S	*410562	41	2.875	2.879	.375	S	473446	47
2.437	2.441	.312	S	473445	47	2.875	2.879	.468	S	*410080	41
2.437	2.441	.312	V	*473445V	47	2.875	2.879	.468	S	*450080	45
2.437	2.441	.468	S	*410479	41	2.875	2.879	.468	S	*470080	47
2.437	2.441	.468	S	*450479	45	2.875	2.879	.468	S	*480080	48
2.437	2.441	.468	S	*470479	47	2.875	2.879	.500	S	*452629	45
2.437	2.441	.468	S	*480479	48	2.875	2.879	.500	S	*482629	48
2.437	2.441	.468	H	480479H	48	2.875	2.885	.622	S	*4020	#
2.437	2.441	.468	V	*480479V	48	2.875	2.885	.625	S	*712143	32
2.500	2.506	1.535	N	*2854↔	79	3.000	3.005	.375	S	471981	47
2.502	2.506	.250	S	40154S	4S	3.000	3.005	.500	S	*451226	45
						3.062	3.066	.500	S	*410086	41
						3.062	3.066	.500	S	*450086	45
						3.062	3.066	.500	S	470086	47
						3.062	3.066	.500	S	*480086	48
						3.125	3.130	.375	S	*481982	48
						3.125	3.130	.500	S	*450687	45
						3.125	3.130	.500	S	470687	47
						3.125	3.130	.500	N	*470687N	47
						3.125	3.130	.500	S	*480687	48
						3.189	3.194	.437	S	450533	45
						.000	2.551	.595	S	710502	#

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ↔ Hydrodynamic Lip Design-CCW ↔↔ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
42,90mm (1.689") SHAFT					
61,75	62,00	8,00	S	*42.9X62X8★	32
2.431	2.441	.315			
43,00mm (1.693") SHAFT					
—	—	—	S	800400	VRS1
—	—	—	V	800404	VRS1
49,80	50,00	7,00	S	*43X50X7★	32
1.961	1.969	.276			
54,00	54,10	6,50	S	224400★	25
2.126	2.130	.256			
54,00	54,10	7,50	S	334111★	33
2.126	2.130	.295			
54,75	55,00	9,00	S	*43X55X9★	32
2.155	2.165	.354			
55,00	55,20	6,00	V	2012★➔	32
2.165	2.173	.236			
55,00	55,20	6,00	V	2012V★➔	32
2.165	2.173	.236			
55,00	55,20	8,00	H	710264★➔	32
2.165	2.173	.236			
55,00	55,20	8,00	S	43X55X8★	32
2.165	2.173	.315			
55,00	55,25	8,00	S	1183★	34
2.165	2.175	.315			
57,00	57,20	8,00	S	*43X57X8★	32
2.244	2.252	.315			
57,75	58,00	8,00	S	*43X58X8★	32
2.273	2.283	.315			
58,47	58,62	7,50	S	710159★	#
2.302	2.308	.295			
60,00	60,30	8,00	S	320583★➔	32
2.362	2.374	.315			
61,75	62,00	8,00	S	*43X62X8★	32
2.431	2.441	.315			
61,75	62,00	12,00	S	*43X62X12★	32
2.431	2.441	.472			
62,00	62,10	9,50	S	224320★	47
2.441	2.445	.374			
62,00	62,10	9,50	S	*474137★	47
2.441	2.445	.374			
2.480	2.488	.394	S	710431	#
65,00	65,20	8,00	S	43X65X8★	32
2.559	2.567	.315			
65,04	65,14	9,50	S	710387★	47
2.561	2.565	.374			
65,75	66,00	10,00	S	*43X66X10★	32
2.588	2.598	.394			
69,00	69,20	8,00	S	*43X69X8★	32
2.717	2.724	.315			
70,00	70,20	9,00	S	710142★	#
2.756	2.764	.354			
73,00	73,20	8,00	S	*43X73X8★	32
2.874	2.882	.315			
1.694" SHAFT					
.000	2.462	.433	V	710513	#
1.703" SHAFT					
—	—	—	S	800450	VRS1
—	—	—	S	800451	VRS2
—	—	—	V	800454	VRS1
—	—	—	V	800455	VRS2
3.030	3.039	.500	S	710067◀➔	69
3.084	3.090	.500	S	3747◀➔	69
1.705" SHAFT					
—	—	—	S	800450	VRS1
—	—	—	S	800451	VRS2
—	—	—	V	800454	VRS1

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.705" SHAFT (cont.)					
—	—	—	V	800455	VRS2
3.034	3.039	.562	V	100357	86
3.080	3.084	.461	S	710105◀➔	#
1.709" SHAFT					
—	—	—	S	800450	VRS1
—	—	—	S	800451	VRS2
—	—	—	V	800454	VRS1
—	—	—	V	800455	VRS2
2.205	2.213	.292	N	2955➔	71
43,50mm (1.713") SHAFT					
61,75	62,00	6,50	S	*43.5X62X6.5★	32
2.431	2.441	.256			
1.718" (1-23/32") SHAFT					
—	—	—	S	800450	VRS1
—	—	—	S	800451	VRS2
—	—	—	V	800454	VRS1
—	—	—	V	800455	VRS2
—	—	.563		99171	Redi-Sleeve
2.228	2.185	.056	S	*9087	#
2.437	2.441	.468	L	50327	5L
2.561	2.565	.500	V	442251V	44
2.561	2.565	.500	S	442251	44
2.561	2.565	.500	S	473336	47
2.562	2.566	.500	F	*205051	205
2.623	2.627	.500	S	450068	45
2.875	2.879	.468	L	50081	5L
2.996	3.000	.375	F	6101	29
1.730" SHAFT					
—	—	—	S	800450	VRS1
—	—	—	S	800451	VRS2
—	—	—	V	800454	VRS1
—	—	—	V	800455	VRS2
2.336	2.340	.250	S	6840S	4S
2.336	2.340	.280	F	7607	#
2.336	2.340	.470	N	8121S	25
2.758	2.762	.882	S	*7729	39
2.834	2.838	.375	S	*483602	48
2.834	2.838	.468	S	*483326	48
2.875	2.879	.468	S	*473559	47
44,00mm (1.732") SHAFT					
—	—	—	S	800450	VRS1
—	—	—	S	800451	VRS2
—	—	—	V	800454	VRS1
—	—	—	V	800455	VRS2
53,75	54,00	7,00	S	*44X54X7★	32
2.116	2.126	.276			
58,00	58,20	8,00	S	*44X58X8★	32
2.283	2.291	.315			
59,00	59,23	6,80	N	224450★➔	35
2.323	2.332	.268			
59,75	60,00	9,00	S	*44X60X9★	32
2.352	2.362	.354			
60,00	60,20	7,00	S	44X60X7★	32
2.362	2.370	.276			
60,00	60,20	10,00	S	44X60X10★	35
2.362	2.370	.394			
60,00	60,28	10,00	H	224460★➔	32
2.362	2.373	.394			
61,75	62,00	7,00	S	*44X62X7★	32
2.431	2.441	.276			
61,75	62,00	10,00	S	*44X62X10★	32
2.431	2.441	.394			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀➔ Hydrodynamic Lip Design-Bidirectional

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
44,00mm (1.732") SHAFT (cont.)						1.750" (1-3/4") SHAFT					
62,00	62,26	8,00	S	44X62X8★↔↔	32	-	-	-	S	800450	VRS1
2.441	2.451	.315				-	-	-	S	800451	VRS2
62,00	62,26	8,00	S	224462★↔↔	32	-	-	-	V	800454	VRS1
2.441	2.451	.315				-	-	-	V	800455	VRS2
62,00	62,28	10,00	N	224464★↔	32	-	-	.375		99172	Redi-Sleeve
2.441	2.452	.394				-	-	.531		* 99180	Redi-Sleeve
64,75	65,00	11,00	S	* 44X65X11★	32	-	-	.563		99174	Redi-Sleeve
2.549	2.559	.433				-	-	.750		99175	Redi-Sleeve
65,00	65,20	11,00	S	224465★↔	32	-	-				
2.559	2.567	.433				2.250	-	.250	U	710024	#
65,00	65,28	10,00	S	44X65X10★	35	2.250	2.254	.250	S	42352S	4S
2.559	2.570	.394				2.250	2.254	.359	S	450400	45
66,00	66,10	6,00	S	710223★	#	2.250	2.254	.359	V	* 450400V	45
2.598	2.602	.236				2.250	2.258	.187	S	6703S	35
68,00	68,30	8,00	N	350609★↔	35	2.250	2.258	.250	S	340400	34
2.677	2.689	.315				2.250	2.258	.250	H	* 340400H	34
69,75	70,00	12,00	S	* 44X70X12★	32	2.328	2.332	.437	S	482126	48
2.746	2.756	.472				2.374	2.378	.250	S	* 41206S	4S
70,00	70,20	8,00	S	44X70X8★	32	2.374	2.378	.312	S	473237	47
2.756	2.764	.315				2.374	2.378	.312	V	473237V	47
72,00	72,11	10,00	S	44X72X10★	32	2.374	2.378	.312	S	* 483237	48
2.835	2.839	.394				2.374	2.378	.375	S	* 471288	47
72,00	72,11	10,00	S	224470★	35	2.374	2.378	.375	N	* 471288N	47
2.835	2.839	.394				2.374	2.378	.375	S	* 481288	48
74,00	74,20	11,00	S	710525★	#	2.374	2.378	.437	S	* 472246	47
2.913	2.921	.433				2.374	2.378	.437	S	* 482246	48
80,00	80,12	8,00	S	710115★↔↔	98	2.374	2.378	.484	S	710062	#
3.150	3.154	.315				2.374	2.378	.500	S	* 410929	41
90,00	90,10	9,00	N	710283★	#	2.374	2.378	.500	S	* 450929	45
3.543	3.547	.354				2.374	2.378	.500	S	* 470929	47
92,00	92,28	12,50	S	710208★	#	2.374	2.378	.500	S	* 480929	48
3.622	3.633	.492				2.374	2.379	.250	S	204503	204
						2.374	2.381	.437	S	7486S	35
1.734" SHAFT						2.411	2.415	.380	N	* 451169N	45
-	-	-	S	800450	VRS1	2.411	2.415	.380	S	471169	47
-	-	-	S	800451	VRS2	2.411	2.415	.380	N	471169N	47
-	-	-	V	800454	VRS1	2.412	2.416	.468	S	* 481243	48
-	-	-	V	800455	VRS2	2.436	2.441	.300	S	* 4771S↔↔	#
2.400	2.405	.230	S	8705S	277	2.437	2.441	.250	S	43071S	4S
2.726	2.730	.500	L	5836	201	2.437	2.441	.312	S	471504	47
2.835	2.839	.312	S	* 484103	48	2.437	2.441	.312	V	471504V	47
						2.437	2.441	.312	S	* 481504	48
						2.437	2.441	.312	H	* 481504H	48
						2.437	2.441	.375	S	* 471122	47
						2.437	2.441	.375	S	* 481122	48
						2.437	2.441	.375	U	710013	#
						2.437	2.441	.468	S	* 450351	45
						2.437	2.441	.468	N	* 450351N	45
						2.437	2.441	.468	S	470351	47
						2.437	2.441	.468	S	* 480351	48
						2.437	2.441	.468	H	* 480351H	48
						2.437	2.441	.500	S	* 452418	45
						2.440	2.445	.468	S	* 203007	203
						2.440	2.445	.468	S	* 204007	204
						2.441	2.445	.375	S	471831	47
						2.441	2.445	.375	H	* 471831H	47
						2.441	2.445	.375	N	* 471831N	47
						2.441	2.445	.375	V	* 471831V	47
						2.449	2.453	.312	S	473157	47
						2.497	2.501	.500	S	* 483565	48
						2.500	2.504	.375	S	* 483503	48
						2.500	2.504	.484	S	710389	7S
						2.500	2.508	.375	T	354040	35
						2.502	2.506	.250	S	40494S	4S
						2.502	2.506	.250	S	* 50352	5S
						2.502	2.506	.312	N	* 452164N	45
						2.502	2.506	.312	S	472164	47
						2.502	2.506	.312	A	472164A	47
						2.502	2.506	.312	V	472164V	47
						2.502	2.506	.312	S	* 482164	48
						2.502	2.506	.312	N	482164N	48

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ↗ Hydrodynamic Lip Design-CW ↖ Hydrodynamic Lip Design-CCW

↔↔ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.750" (1-3/4") SHAFT (cont.)						1.750" (1-3/4") SHAFT (cont.)					
2.502	2.506	.375	S	450494	45	2.750	2.754	.500	S	*410183	41
2.502	2.506	.375	S	*470494	47	2.750	2.754	.500	N	410183N	41
2.502	2.506	.375	N	*470494N	47	2.750	2.754	.500	S	450183	45
2.502	2.506	.375	S	*480494	48	2.750	2.754	.500	N	*450183N	45
2.502	2.506	.375	N	*480494N	48	2.750	2.754	.500	V	*450183V	45
2.502	2.506	.406	H	451147H	45	2.750	2.754	.500	S	*470183	47
2.502	2.506	.406	N	*451147N	45	2.750	2.754	.500	N	*470183N	47
2.502	2.506	.500	S	*410352	41	2.750	2.754	.500	S	*480183	48
2.502	2.506	.500	S	450352	45	2.750	2.754	.500	H	*480183H	48
2.502	2.506	.500	H	*450352H	45	2.758	2.762	.375	S	473447	47
2.502	2.506	.500	N	*450352N	45	2.758	2.762	.500	S	*410155	41
2.502	2.506	.500	S	*470352	47	2.758	2.762	.500	S	*450155	45
2.502	2.506	.500	H	*470352H	47	2.758	2.762	.500	S	*470155	47
2.502	2.506	.500	S	*480352	48	2.758	2.762	.500	S	*480155	48
2.502	2.506	.680	L	7834	#	2.783	2.787	.531	L	50289	5L
2.502	2.506	.750	S	*7731	2S	2.786	2.876	.285	S	200600%	200E
2.561	2.565	.250	S	204502	204	2.810	2.814	.315	S	712260	47
2.561	2.565	.500	V	470361V	47	2.875	2.879	.375	V	471141V	47
2.561	2.565	.500	S	*410361	41	2.875	2.879	.375	S	471141	47
2.561	2.565	.500	S	450361	45	2.875	2.879	.468	S	*410291	41
2.561	2.565	.500	S	470361	47	2.875	2.879	.468	N	*410291N	41
2.561	2.565	.500	S	*480361	48	2.875	2.879	.468	S	450291	45
2.561	2.566	.312	S	472193	47	2.875	2.879	.468	N	450291N	45
2.561	2.566	.500	S	*204015	204	2.875	2.879	.468	V	*450291V	45
2.562	2.566	.500	S	203015	203	2.875	2.879	.468	S	*470291	47
2.562	2.566	.500	F	205015	205	2.875	2.879	.468	S	*480291	48
2.565	2.570	.312	S	473796	47	2.875	2.879	.500	S	*481067	48
2.566	2.574	.311	S	324941	32	2.875	2.880	.500	S	6949S	274
2.621	2.625	.937	V	710428	87	2.983	2.987	.438	S	5711	41
2.623	2.627	.250	S	*43092S	4S	2.996	3.001	.375	S	473448	47
2.623	2.627	.290	S	200335	200	2.996	3.001	.437	S	*411983	41
2.623	2.627	.312	V	472185V	47	2.996	3.001	.500	S	*410359	41
2.623	2.627	.312	S	472185	47	2.996	3.001	.500	S	*450359	45
2.623	2.627	.312	S	*482185	48	2.996	3.001	.500	S	*470359	47
2.623	2.627	.375	S	*481019	48	2.996	3.001	.500	S	*480359	48
2.623	2.627	.500	S	*50070	5S	3.000	3.005	.250	S	204501	204
2.623	2.627	.500	F	*290070	29	3.000	3.005	.375	S	471984	47
2.623	2.627	.500	S	*410070	41	3.000	3.005	.375	N	*471984N	47
2.623	2.627	.500	N	*410070N	41	3.000	3.005	.375	S	*481984	48
2.623	2.627	.500	S	450070	45	3.000	3.005	.375	N	*481984N	48
2.623	2.627	.500	H	*450070H	45	3.000	3.005	.500	S	*410719	41
2.623	2.627	.500	N	*450070N	45	3.000	3.005	.500	S	*450719	45
2.623	2.627	.500	V	*450070V	45	3.000	3.005	.500	H	*450719H	45
2.623	2.627	.500	S	*470070	47	3.000	3.005	.500	S	*470719	47
2.623	2.627	.500	S	*480070	48	3.000	3.005	.500	H	*470719H	47
2.623	2.627	.500	N	*480070N	48	3.000	3.005	.500	S	*480719	48
2.624	2.628	.250	S	*443389	44	3.036	3.040	.500	S	*4302↔	47
2.630	2.930	.290	S	200912%	200E	3.061	3.066	.375	S	473313	47
2.686	2.690	.375	S	470334	47	3.061	3.066	.500	S	*410087	41
2.686	2.690	.437	S	*451879	45	3.061	3.066	.500	S	450087	45
2.686	2.690	.500	S	*410076	41	3.061	3.066	.500	S	*470087	47
2.686	2.690	.500	S	450076	45	3.061	3.066	.500	S	*480087	48
2.686	2.690	.500	N	*450076N	45	3.062	3.066	.485	S	710005	86
2.686	2.690	.500	V	*450076V	45	3.125	3.130	.500	S	*451350	45
2.686	2.690	.500	S	*470076	47	3.149	3.154	.291	S	*200303	200
2.686	2.690	.500	S	*480076	48	3.153	3.159	.312	S	482267	48
2.686	2.690	.500	N	*480076N	48	3.189	3.193	.400	N	*9158	47
2.715	2.721	.437	S	323119	32	3.189	3.194	.437	S	*410088	41
2.716	2.721	.359	S	204038	204	3.189	3.194	.437	N	*410088N	41
2.716	2.721	.406	S	204002	204	3.189	3.194	.437	S	*450088	45
2.717	2.721	.406	S	203002	203	3.189	3.194	.437	S	470088	47
2.717	2.721	.468	S	*411030	41	3.189	3.194	.437	S	*480088	48
2.717	2.721	.468	S	*451030	45	3.371	3.376	.625	S	210945	21
2.718	2.722	.359	S	200354	200	3.543	3.548	.500	S	455536	45
2.718	2.728	.294	S	200854%	200E	3.937	3.942	.312	S	476820	47
2.750	2.754	.250	S	*40183S	4S	1.751" SHAFT					
2.750	2.754	.312	V	472179V	47	2.533	2.608	.290	S	*200895%	200E
2.750	2.754	.312	S	472179	47						
2.750	2.754	.312	A	472179A	47						
2.750	2.754	.312	S	*482179	48						
2.750	2.754	.484	L	5827	201						
2.750	2.754	.500	S	*50183	5S						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ↔ Hydrodynamic Lip Design-Bidirectional % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
44,50mm (1.752") SHAFT						45,00mm (1.772") SHAFT (cont.)					
61,75	62,00	10,00	S	* 44.5X62X10★	32	58,00	58,28	7,00	S	45X58X7★	35
2.431	2.441	.394				2.283	2.294	.276			
1.763" SHAFT											
-	-	-	S	800450	VRS1	58,00	58,30	7,00	S	224510★	32
-	-	-	S	800451	VRS2	2.283	2.295	.276			
-	-	-	V	800454	VRS1	58,75	59,00	7,00	S	* 45X59X7★	32
-	-	-	V	800455	VRS2	2.313	2.323	.276			
-	-	.563		99176	Redi-Sleeve	58,75	59,00	10,00	S	* 45X59X10★	32
2.126	2.134	.382	S	1906	31	2.313	2.323	.394			
2.409	2.416	.375	V	9845V	47	59,00	59,28	7,50	S	710193★	32
2.409	2.416	.375	V	9845➔	47	2.323	2.334	.295			
2.409	2.416	.380	V	* 3517V➔	47	59,75	60,00	9,00	S	* 45X60X9★	32
2.409	2.416	.380	S	* 3517➔	47	2.352	2.362	.472			
2.412	2.416	.375	S	6936S	45	60,00	60,20	7,00	S	45X60X7★	35
2.412	2.416	.468	S	* 410375	41	2.362	2.370	.276			
2.412	2.416	.468	S	* 480375	48	60,00	60,20	8,00	S	45X60X8★	35
1.765" SHAFT											
-	-	-	S	800450	VRS1	2.362	2.370	.315			
-	-	-	S	800451	VRS2	60,00	60,25	10,00	S	45X60X10★	32
-	-	-	V	800454	VRS1	2.362	2.372	.394			
-	-	-	V	800455	VRS2	60,00	60,25	10,00	S	224520★	35
-	-	.563		99176	Redi-Sleeve	2.362	2.372	.394			
2.412	2.416	.468	S	450375	45	60,00	60,25	10,80	N	2440➔	69
1.771" SHAFT											
-	-	-	S	800450	VRS1	2.362	2.372	.425			
-	-	-	S	800451	VRS2	61,00	61,16	9,00	V	* 484236V★	48
-	-	-	V	800454	VRS1	2.402	2.408	.354			
-	-	-	V	800455	VRS2	61,75	62,00	7,00	S	* 45X62X7★	32
-	-	.551		99177	Redi-Sleeve	2.431	2.441	.276			
2.500	2.504	.359	H	* 4075	#	61,75	62,00	9,00	S	* 45X62X9★	32
2.500	2.504	.359	H	714075	#	2.431	2.441	.354			
2.622	2.628	.500	T	354041	35	61,75	62,00	10,00	S	* 45X62X10★	32
3.656	3.656	.282	S	1952	54	2.431	2.441	.394			
45,00mm (1.772") SHAFT											
-	-	-	S	800450	VRS1	61,75	62,00	10,00	S	* 45X62X12★	32
-	-	-	S	800451	VRS2	2.431	2.441	.472			
-	-	-	V	800454	VRS1	61,90	62,00	10,00	S	* 323871★	32
-	-	-	V	800455	VRS2	2.437	2.441	.394			
-	-	.551		99177	Redi-Sleeve	62,00	62,10	6,00	S	494122★	49
53,75	54,00	4,50	S	* 45X54X4.5★	32	2.441	2.445	.236			
2.116	2.126	.177				62,00	62,10	9,00	S	710321★	47
54,75	55,00	5,00	S	* 45X55X5★	32	2.441	2.445	.354			
2.155	2.165	.197				62,00	62,10	10,16	S	* 1997★	#
54,75	55,00	7,00	S	* 45X55X7★	32	2.441	2.445	.400			
2.155	2.165	.276				62,00	62,15	8,00	V	710078★	47
54,75	55,00	8,00	S	* 45X55X8★	32	2.441	2.447	.315			
2.155	2.165	.315				62,00	62,20	8,00	V	* 45X62X8V★	35
54,75	55,00	10,00	S	* 45X55X10★	32	2.441	2.449	.315			
2.155	2.165	.394				62,00	62,30	8,00	S	45X62X8★	35
55,75	56,00	6,00	S	* 45X56X6★	32	2.441	2.453	.315			
2.195	2.205	.236				62,00	62,30	8,00	S	1012★	35
55,75	56,00	8,00	S	* 45X56X8★	32	2.441	2.453	.315			
2.195	2.205	.315				62,00	62,30	8,00	S	1012N★	35
56,75	57,00	5,50	S	* 45X57X5.5★	32	2.441	2.453	.315			
2.234	2.244	.217				62,00	62,30	10,00	S	* 1185★	32
56,75	57,00	9,00	S	* 45X57X9★	32	2.441	2.453	.394			
2.234	2.244	.354				62,00	62,30	12,00	S	* 2013★	32
57,75	58,00	8,00	S	* 45X58X8★	32	2.441	2.453	.472			
2.273	2.283	.315				62,75	63,00	7,00	S	* 45X63X7★	32
57,75	58,00	10,00	S	* 45X58X10★	32	2.470	2.480	.276			
2.273	2.283	.394				63,25	63,50	10,00	S	* 45X63.5X10★	32
						2.490	2.500	.394			
						63,75	64,00	7,00	S	* 45X64X7★	32
						2.510	2.520	.276			
						63,75	64,00	10,00	S	* 45X64X10★	32
						2.510	2.520	.394			
						64,00	64,11	11,86	S	1951★&	87
						2.520	2.524	.467			
						64,00	64,11	16,40	S	* 3966★	#
						2.520	2.524	.646			

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
45,00mm (1.772") SHAFT (cont.)						45,00mm (1.772") SHAFT (cont.)					
64,00	64,27	12,00	S	239155★	#	72,20	72,34	7,50	S	*444118★	44
2.520	2.530	.472				2.843	2.848	.295			
64,00	64,26	13,00	S	1939★	#	74,25	74,50	12,00	S	*45X74.5X12★	32
2.520	2.530	.512				2.923	2.933	.472			
64,00	64,25	19,00	S	1938★	#	74,75	75,00	8,00	S	*45X75X8★	32
2.520	2.530	.748				2.943	2.953	.315			
64,75	65,00	7,00	S	*45X65X7★	32	74,75	75,00	10,00	S	*45X75X10★	32
2.549	2.559	.276				2.943	2.953	.394			
64,75	65,00	9,00	S	*45X65X9★	32	74,75	75,00	12,00	S	*45X75X12★	32
2.549	2.559	.354				2.943	2.953	.472			
64,75	65,00	10,00	S	*45X65X10★	32	75,00	75,10	12,00	N	1979★➔	47
2.549	2.559	.394				2.953	2.957	.472			
64,75	65,00	12,00	S	*45X65X12★	32	75,00	75,20	7,00	S	45X75X7★	32
2.549	2.559	.472				2.953	2.961	.276			
65,00	65,10	5,00	S	1992★	47	75,00	75,20	10,00	V	*45X75X10V★	32
2.559	2.563	.197				2.953	2.961	.394			
65,00	65,10	5,00	S	*3985★	#	77,72	78,00	12,00	S	*45X78X12★	32
2.559	2.563	.197				3.060	3.071	.472			
65,00	65,20	8,00	V	*45X65X8V★	35	78,00	78,10	11,00	N	710248★➔	66
2.559	2.567	.315				3.071	3.075	.433			
65,00	65,28	8,00	S	45X65X8★	32	79,72	80,00	12,00	S	*45X80X12★	32
2.559	2.570	.315				3.139	3.150	.472			
65,00	65,28	8,00	S	224550★	35	80,00	80,28	10,00	S	45X80X10★	32
2.559	2.570	.315				3.150	3.161	.394			
65,75	66,00	10,00	S	*45X66X10★	32	81,72	82,00	12,00	S	*45X82X12★	32
2.588	2.598	.394				3.217	3.228	.472			
66,00	66,24	7,50	S	710160★	#	82,00	82,20	8,00	S	*45X82X8★	32
2.598	2.608	.295				3.228	3.236	.315			
67,00	67,20	8,00	S	710289★➔	32	84,72	85,00	12,00	S	*45X85X12★	32
2.638	2.646	.315				3.335	3.346	.472			
67,75	68,00	8,00	S	*45X68X8★	32	85,00	85,20	10,00	S	45X85X10★	35
2.667	2.677	.315				3.346	3.354	.394			
67,75	68,00	9,00	S	*45X68X9★	32	85,00	85,25	13,00	S	45X85X13★	45
2.667	2.677	.354				3.346	3.356	.512			
67,75	68,00	10,00	S	*45X68X10★	32	89,72	90,00	10,00	S	*45X90X10★	32
2.667	2.677	.394				3.532	3.543	.394			
67,75	68,00	12,00	S	*45X68X12★	32	98,00	98,10	10,50	N	710364★	#
2.667	2.677	.472				3.858	3.862	.413			
68,00	68,20	10,00	V	*45X68X10V★	35	99,72	100,00	10,00	S	*45X100X10★	32
2.677	2.685	.394				3.926	3.937	.394			
68,00	68,20	12,00	S	710345★➔	32	1.775" SHAFT					
2.677	2.685	.472				-	-	-	S	800450	VRS1
68,00	68,28	7,00	S	45X68X7★	32	-	-	-	S	800451	VRS2
2.677	2.688	.276				-	-	-	V	800454	VRS1
68,00	68,28	7,00	S	224560★	32	-	-	-	V	800455	VRS2
2.677	2.688	.276				-	-	.551		99177	Redi-Sleeve
68,00	68,28	7,00	V	320564★	32	-	-	-	-	-	-
2.677	2.688	.276				-	1.970	.365	S	710095	#
68,05	68,30	7,00	S	*45X68.3X7★	32	1.781" (1-25/32") SHAFT					
2.679	2.689	.276				-	-	-	S	800450	VRS1
69,75	70,00	12,00	S	*45X70X12★	32	-	-	-	S	800451	VRS2
2.746	2.756	.472				-	-	-	V	800454	VRS1
70,00	70,18	10,00	S	45X70X10★	32	-	-	-	V	800455	VRS2
2.756	2.763	.394				-	-	.675		99179	Redi-Sleeve
71,75	72,00	8,00	S	*45X72X8★	32	2.251	2.259	.375	S	321460	32
2.825	2.835	.315				2.500	2.505	.312	T	39925➔	FW-H
72,00	72,20	8,00	V	*45X72X8V★	32	2.502	2.506	.312	S	452742	45
2.835	2.843	.315				2.623	2.627	.500	L	50266	5L
72,00	72,20	10,00	S	45X72X10★	35	2.686	2.690	.500	S	450269	45
2.835	2.843	.394				2.686	2.690	.500	S	*480269	48
72,00	72,20	12,00	N	710270★	32	2.750	2.754	.500	S	450285	45
2.835	2.843	.472				2.758	2.762	.500	S	450280	45
72,00	72,25	10,00	S	45X72X95★	32	3.189	3.194	.437	S	450089	45
2.835	2.844	.394				3.189	3.194	.437	S	*480089	48
72,00	72,28	7,00	S	45X72X7★	35	1.787" SHAFT					
2.835	2.846	.276				-	-	-	S	800450	VRS1
72,00	72,28	12,00	S	45X72X12★	35						
2.835	2.846	.472									
72,00	72,28	12,00	S	224570★	35						
2.835	2.846	.472									
72,20	72,34	7,50	S	1943★	44						
2.843	2.848	.295									

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.787" SHAFT (cont.)						46,00mm (1.811") SHAFT (cont.)					
-	-	-	S	800451	VRS2	68,00	68,20	8,00	S	*46X68X8★	32
-	-	-	V	800454	VRS1	2.677	2.685	.315			
-	-	-	V	800455	VRS2	68,50	68,70	7,50	S	710161★	#
3.228	3.238	.335	N	4918	83	2.697	2.705	.295			
3.229	3.238	.335	N	4072➔	83	69,40	69,60	10,00	S	710128★	#
3.229	3.238	.335	N	4072N➔	83	2.732	2.740	.394			
1.790" SHAFT						46,00mm (1.811") SHAFT (cont.)					
.000	2.488	.275	V	710521	32	69,40	69,60	11,00	S	710126★	#
1.796" SHAFT						46,00mm (1.811") SHAFT (cont.)					
-	-	-	S	800450	VRS1	2.732	2.740	.433			
-	-	-	S	800451	VRS2	70,00	70,10	8,00	S	710238★➔	32
-	-	-	V	800454	VRS1	2.756	2.760	.315			
-	-	-	V	800455	VRS2	70,00	70,20	8,00	S	46X70X8★	32
2.524	2.800	.599	S	8314	#	2.756	2.764	.315			
2.725	2.730	.500	L	6781	201	61,00	61,20	8,00	S	710260★◀	32
1.803" SHAFT						46,00mm (1.811") SHAFT (cont.)					
-	-	-	S	800450	VRS1	2.756	2.764	.315			
-	-	-	S	800451	VRS2	72,00	72,20	8,00	S	*46X72X8★	32
-	-	-	V	800454	VRS1	2.835	2.843	.315			
-	-	-	V	800455	VRS2	73,00	73,20	8,00	S	*46X73X8★	32
2.965	2.969	.250	F	5070	29	2.874	2.882	.315			
1.809" SHAFT						46,00mm (1.811") SHAFT (cont.)					
-	-	-	S	800450	VRS1	94,50	94,70	8,00	S	710377★	#
-	-	-	S	800451	VRS2	3.720	3.728	.315			
-	-	-	V	800454	VRS1	1.812" (1-13/16") SHAFT					
-	-	-	V	800455	VRS2	-	-	-	S	800450	VRS1
2.965	2.969	.250	F	5070	29	-	-	-	S	800451	VRS2
1.809" SHAFT						-	-	-	V	800454	VRS1
-	-	-	S	800450	VRS1	-	-	-	V	800455	VRS2
-	-	-	S	800451	VRS2	-	-	.563	99181	Redi-Sleeve	
-	-	-	V	800454	VRS1	2.250	2.258	.312	S	*6402S	35
-	-	-	V	800455	VRS2	2.327	2.332	.437	S	444116	44
-	-	.563	99181	Redi-Sleeve	2.437	2.441	.468	S	*451817	45	
2.361	2.365	.380	S	4249&	287	2.437	2.441	.468	S	471817	47
46,00mm (1.811") SHAFT						2.561	2.565	.437	S	*452872	45
-	-	-	S	800450	VRS1	2.561	2.566	.500	S	*203071	203
-	-	-	S	800451	VRS2	2.561	2.566	.500	S	203006	203
-	-	-	V	800454	VRS1	2.561	2.566	.500	F	*205006	205
-	-	-	V	800455	VRS2	2.562	2.566	.312	V	5133	48
-	-	.563	99181	Redi-Sleeve	2.562	2.567	.315	T	39930➔	FW-H	
2.361	2.365	.380	S	4249&	287	2.563	2.567	.375	T	39835➔	W
46,00mm (1.811") SHAFT						2.563	2.567	.375	S	*472070	47
-	-	-	S	800450	VRS1	2.623	2.627	.455	S	8181NA➔	74
-	-	-	S	800451	VRS2	2.623	2.627	.455	S	*9540➔	#
-	-	-	V	800454	VRS1	2.623	2.627	.500	S	*450267	45
-	-	-	V	800455	VRS2	2.623	2.627	.500	N	*450267N	45
-	-	.563	99181	Redi-Sleeve	2.623	2.627	.500	S	*470267	47	
53,75	54,00	9,00	S	*46X54X9★	32	2.623	2.627	.500	V	*470267V	47
2.116	2.126	.354				2.623	2.627	.500	S	*480267	48
57,75	58,00	7,00	S	*46X58X7★	32	2.623	2.627	.500	N	*480267N	48
2.273	2.283	.276				2.623	2.627	.615	S	3618➔	86
58,00	58,28	7,00	N	224650★➔	32	2.624	2.629	.500	S	*482695N	48
2.283	2.294	.276				2.686	2.690	.375	S	*471866	47
58,85	59,10	12,00	S	*46X59.1X12★	32	2.686	2.690	.375	N	*471866N	47
2.317	2.327	.472				2.686	2.690	.437	S	*451508	45
59,00	59,20	8,00	S	*46X59X8★	32	2.686	2.690	.500	S	*450270	45
2.323	2.331	.315				2.686	2.690	.500	S	*480270	48
59,75	60,00	7,00	S	*46X60X7★	32	2.718	2.722	.270	S	7186S	200
2.352	2.362	.276				2.718	2.727	.400	S	*200169	200
59,75	60,00	10,00	S	*46X60X10★	32	2.750	2.754	.375	S	*473449	47
2.352	2.362	.394				2.750	2.754	.500	S	450118	45
60,00	60,20	8,00	S	*46X60X8★	32	2.750	2.754	.500	S	*480118	48
2.362	2.370	.315				2.758	2.762	.500	S	*450281	45
60,00	60,28	7,00	H	224660★➔	32	2.758	2.762	.500	S	480281	48
2.362	2.373	.276				2.777	2.783	.416	S	*9190N&	47
62,00	62,10	8,00	S	224662★	35	2.777	2.783	.575	V	3604➔	86
2.441	2.445	.315				2.874	2.878	.290	S	*200334	200
62,00	62,20	8,00	S	*46X62X8★	32	2.875	2.879	.375	S	*473450	47
2.441	2.449	.315				2.875	2.879	.375	V	473450V	47
62,00	62,20	20,50	S	710394★	#	2.875	2.879	.468	S	450116	45
2.441	2.449	.807				2.875	2.879	.468	S	*480116	48
63,00	63,40	7,70	N	224663★➔	35	2.996	3.001	.500	S	*450193	45
2.480	2.496	.303				2.996	3.001	.500	S	*480193	48
65,00	65,20	7,00	S	46X65X7★	32	3.000	3.005	.455	S	*3700➔	86
2.559	2.567	.276									

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.812" (1-13/16") SHAFT (cont.)						1.843" (1-27/32") SHAFT (cont.)					
3.000	3.005	.455	S	7044NA➔	86	2.672	2.676	.187	N	*8250	#
3.091	3.096	.485	V	4278&	86	2.748	2.751	.425	V	714675◄➔	#
3.125	3.130	.375	S	481992	48	2.750	2.754	.375	S	473452	47
3.125	3.130	.500	S	*451993	45	2.750	2.754	.500	S	*450331	45
3.189	3.194	.437	S	*410090	41	2.750	2.754	.500	N	*450331N	45
3.189	3.194	.437	S	450090	45	2.750	2.754	.500	N	470331N	47
3.189	3.194	.437	S	*470090	47	2.750	2.754	.500	N	*480331N	48
3.189	3.194	.437	S	*480090	48	2.875	2.879	.375	S	473453	47
4.123	4.128	.746	L	6930	21	2.875	2.879	.468	S	*450293	45
1.813" SHAFT						47,00mm (1.850") SHAFT					
2.408	—	.300	S	710409%	#	—	—	—	S	800450	VRS1
1.815" SHAFT						—	—	—	S	800451	VRS2
—	—	—	S	800450	VRS1	—	—	—	V	800454	VRS1
—	—	—	S	800451	VRS2	—	—	—	V	800455	VRS2
—	—	—	V	800454	VRS1	0,00	61,98	10,29	S	710501★	#
—	—	—	V	800455	VRS2	.000	2,440	.405			
—	—	.563		99181	Redi-Sleeve	56,75	57,00	7,00	S	*47X57X7★	32
2.562	2.566	.562	S	2207	290	2.234	2.244	.276			
1.821" SHAFT						59,75	60,00	7,00	S	*47X60X7★	32
—	—	—	S	800450	VRS1	2.352	2.362	.276			
—	—	—	S	800451	VRS2	60,00	60,20	8,00	S	*47X60X8★	32
—	—	—	V	800454	VRS1	2.362	2.370	.315			
—	—	—	V	800455	VRS2	61,75	62,00	6,00	S	*47X62X6★	32
2.623	2.627	.250	S	44053	4S	2.431	2.441	.236			
1.825" SHAFT						62,00	62,10	9,00	S	710320★	48
—	—	—	S	800450	VRS1	2.441	2.445	.354			
—	—	—	S	800451	VRS2	62,00	62,20	8,00	S	47X62X8★	32
—	—	—	V	800454	VRS1	2.441	2.449	.315			
—	—	—	V	800455	VRS2	64,00	64,08	7,00	S	710191★	25
2.750	2.754	.468	S	7600S	47	2.520	2.523	.276			
1.830" SHAFT						64,00	64,28	14,00	S	1937★	#
—	—	—	S	800450	VRS1	2.520	2.531	.551			
—	—	—	S	800451	VRS2	64,75	65,00	10,00	S	*47X65X10★	32
—	—	—	V	800454	VRS1	2.549	2.559	.394			
—	—	—	V	800455	VRS2	65,00	65,20	8,00	S	47X65X8★	32
2.570	2.574	.250	L	6960	4L	2.559	2.567	.315			
2.570	2.574	.250	S	*8473S	29	66,00	66,10	11,00	S	710215★	66
46,50mm (1.831") SHAFT						2.598	2.602	.433			
—	—	—	S	800450	VRS1	68,00	68,27	10,00	S	47X68X10★	32
—	—	—	S	800451	VRS2	2.677	2.688	.394			
—	—	—	V	800454	VRS1	68,00	68,27	10,00	S	1187★	32
—	—	—	V	800455	VRS2	2.677	2.688	.394			
90,00	90,20	12,00	N	710397★	#	69,00	69,14	10,10	N	3606★◄➔	7S
3.543	3.551	.472				2.717	2.722	.398			
1.843" (1-27/32") SHAFT						70,00	70,20	10,00	S	47X70X10★	32
—	—	—	S	800450	VRS1	2.756	2.764	.394			
—	—	—	S	800451	VRS2	72,00	72,23	8,00	S	224772★	48
—	—	—	V	800454	VRS1	2.835	2.844	.315			
—	—	—	V	800455	VRS2	72,20	72,40	6,00	S	710337★	34
2.400	2.404	.235	F	291295	29	2.843	2.850	.236			
2.502	2.506	.375	S	471841	47	80,00	80,20	12,70	S	710150★	#
2.502	2.506	.500	S	*450783	45	3.150	3.157	.500			
2.502	2.506	.500	S	*470783	47	84,00	84,20	11,00	S	710143★	#
2.623	2.627	.250	S	*40268S	4S	3.307	3.315	.433			
2.623	2.627	.375	S	473451	47	1.869" SHAFT					
2.623	2.627	.500	S	*450268	45	—	—	—	S	800450	VRS1
2.623	2.627	.500	N	*450268N	45	—	—	—	S	800451	VRS2
2.623	2.627	.500	S	*480268	48	—	—	—	V	800454	VRS1
2.623	2.627	.500	N	*480268N	48	—	—	—	V	800455	VRS2
1.873" SHAFT						—	—	.889		99186	Redi-Sleeve
—	—	—	S	800450	VRS1	2.518	2.522	.375	S	332062➔	33
1.869" SHAFT						2.518	2.522	.437	S	*2102	#
—	—	—	S	800450	VRS1	2.781	2.789	.354	S	1959	32
—	—	—	S	800451	VRS2	3.744	3.749	.500	N	*456053N	45
—	—	—	V	800454	VRS1	1.873" SHAFT					
—	—	—	V	800455	VRS2	—	—	—	S	800450	VRS1

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◄➔ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.873" SHAFT (cont.)						1.875" (1-7/8") SHAFT (cont.)					
-	-	-	S	800451	VRS2	2.623	2.627	.500	S	*470071	47
-	-	-	V	800454	VRS1	2.623	2.627	.500	H	*470071H	47
-	-	-	V	800455	VRS2	2.623	2.627	.500	S	*480071	48
-	-	.175		99190	Redi-Sleeve	2.623	2.627	.500	V	*480071V	48
-	-	.295		*99188	Redi-Sleeve	2.624	2.628	.375	H	331227H➔	33
-	-	.375		*99184	Redi-Sleeve	2.625	2.629	.500	S	*452774	45
-	-	.563		99187	Redi-Sleeve	2.625	2.640	.433	T	712102➔	FW-H
2.684	2.684	.544	S	8521S%	200E	2.628	2.633	.347	F	6985	29
2.716	2.806	.281	S	200752%	200E	2.677	2.681	.375	N	710211➔	74
2.878	3.250	.875	S	*8632S	#	68.00	68.30	14.00	N	712516★➔	#
1.874" SHAFT						2.677	2.689	.551			
2.559	2.569	.335	V	712692	#	2.686	2.690	.500	S	*471868	47
2.676	2.682	.410	N	4577	#	2.686	2.690	.500	S	*410272	41
3.159	3.163	.500	V	100712V	#	2.686	2.690	.500	S	*450272	45
3.159	3.163	.500	V	100715V	#	2.686	2.690	.500	S	*470272	47
1.875" (1-7/8") SHAFT						2.686	2.690	.500	S	*480272	48
-	-	-	S	800450	VRS1	2.686	2.690	.500	S	*200958%	200E
-	-	-	S	800451	VRS2	2.687	2.762	.280	S	*710388➔	32
-	-	-	V	800454	VRS1	2.716	2.725	.394	S	*6110	29
-	-	-	V	800455	VRS2	2.718	2.722	.468	F	*7107A	29
-	-	.175		99190	Redi-Sleeve	2.720	2.725	.235	F	42421S	4S
-	-	.295		*99188	Redi-Sleeve	2.750	2.754	.250	S	*412572	41
-	-	.375		*99184	Redi-Sleeve	2.750	2.754	.312	S	*472572	47
-	-	.563		99187	Redi-Sleeve	2.750	2.754	.312	S	*482572	48
2.315	2.321	.203	S	8362	33	2.750	2.754	.500	S	3946➔	86
2.397	2.403	.250	S	353120	35	2.750	2.754	.500	S	*410117	41
2.400	2.405	.240	S	*7679	44	2.750	2.754	.500	H	*410117H	41
2.400	2.405	.240	S	7934S	204	2.750	2.754	.500	N	*410117N	41
2.441	2.445	.325	S	1949	48	2.750	2.754	.500	S	450117	45
2.441	2.445	.325	S	*483801	48	2.750	2.754	.500	S	*470117	47
2.470	2.475	.437	S	472747	47	2.750	2.754	.500	H	*470117H	47
2.500	2.504	.437	N	*451162N	45	2.750	2.754	.500	N	*470117N	47
2.502	2.506	.312	S	473454	47	2.750	2.754	.500	S	*480117	48
2.502	2.506	.328	S	350823	35	2.758	2.762	.375	S	*473179	47
2.502	2.506	.375	S	*452041	45	2.758	2.762	.425	V	*3028V➔	25
2.502	2.506	.375	S	472041	47	2.758	2.762	.425	N	6712NA➔	74
2.502	2.506	.375	N	*472041N	47	2.758	2.762	.437	S	*450654	45
2.502	2.506	.375	S	*482041	48	2.758	2.762	.437	N	*450654N	45
2.502	2.506	.375	N	482041N	48	2.758	2.762	.500	S	6460S	41
2.502	2.506	.406	S	*451447	45	2.758	2.762	.500	S	*410283	41
2.502	2.506	.500	S	*450823	45	2.758	2.762	.500	S	*450283	45
2.502	2.506	.500	S	*480823	48	2.758	2.762	.500	H	*450283H	45
2.502	2.511	.250	S	340823	34	2.758	2.762	.500	S	*470283	47
2.560	2.565	.406	N	2942➔	47	2.758	2.762	.500	H	*470283H	47
2.560	2.565	.406	N	*7782N	48	2.758	2.762	.500	N	*470283N	47
2.560	2.565	.468	S	*484247	48	2.758	2.762	.500	S	*480283	48
2.561	2.565	.500	S	441853	44	2.758	2.762	.500	H	*480283H	48
2.561	2.565	.500	S	*451853	45	2.782	2.786	.500	S	*414045	41
2.561	2.565	.500	S	*471853	47	2.803	2.808	.433	S	*4310	285
2.561	2.565	.528	N	2692➔	76	2.812	2.816	.770	N	8515N&	74
2.561	2.571	.312	S	350936	35	2.812	3.000	.500	L	*7215	5L
2.561	2.571	.312	N	*350936N	35	2.813	2.817	.500	S	5126&	74
2.622	2.628	.380	H	*9927H➔	33	2.835	2.839	.375	S	*473455	47
2.623	2.627	.250	S	40071S	4S	2.835	2.839	.468	S	*411463	41
2.623	2.627	.312	S	472439	47	2.835	2.839	.468	S	*451463	45
2.623	2.627	.312	A	472439A	47	2.835	2.839	.468	S	*471463	47
2.623	2.627	.312	V	472439V	47	2.835	2.839	.468	S	*481463	48
2.623	2.627	.312	S	*482439	48	2.873	2.877	.394	S	*2826	#
2.623	2.627	.500	S	*410071	41	2.875	2.879	.312	V	473238V	47
2.623	2.627	.500	N	*410071N	41	2.875	2.879	.312	S	*473238	47
2.623	2.627	.500	S	*450071	45	2.875	2.879	.312	S	*483238	48
2.623	2.627	.500	H	*450071H	45	2.875	2.879	.312	V	483238V	48
2.623	2.627	.500	N	*450071N	45	2.875	2.879	.437	S	*411936	41
2.623	2.627	.500	V	*450071V	45	2.875	2.879	.437	N	*411936N	41
						2.875	2.879	.437	S	*451936	45
						2.875	2.879	.437	H	*451936H	45
						2.875	2.879	.437	V	*451936V	45
						2.875	2.879	.437	S	*471936	47
						2.875	2.879	.468	S	*481936	48
						2.875	2.879	.468	S	*410082	41
						2.875	2.879	.468	H	*410082H	41
						2.875	2.879	.468	S	450082	45

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀➔ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

★ Metric Seal

SIZE SECTION

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.875" (1-7/8") SHAFT (cont.)						1.875" (1-7/8") SHAFT (cont.)					
2.875	2.879	.468	N	*450082N	45	3.371	3.376	.468	S	*470524	47
2.875	2.879	.468	S	*470082	47	3.371	3.376	.468	S	*480524	48
2.875	2.879	.468	S	*480082	48	3.375	4.812	.312	S	7105S	#
2.875	2.879	.500	S	*3329	#	3.500	3.505	.500	S	*477609	47
2.875	2.879	.500	S	*450779	45	4.010	4.014	1.000	L	6127	31
2.875	2.886	.625	U	710019	#	4.331	4.336	.500	S	477105	47
2.877	2.865	.470	S	9912¶	25	1.880" SHAFT					
2.877	2.865	.490	S	*2689¶	56	-	-	-	S	800450	VRS1
2.877	2.865	.490	S	2689S	25	-	-	-	S	800451	VRS2
2.901	2.907	.315	S	*4051	#	-	-	-	V	800454	VRS1
2.965	2.969	.250	F	6064	29	-	-	-	V	800455	VRS2
2.995	3.000	.375	F	*5970	29	2.398	2.414	.250	S	*6910S	35
2.995	3.000	.437	S	203034	203	2.562	2.566	.250	S	9049	25
2.996	3.000	.375	S	*473456	47	2.562	2.566	.250	S	9049N	25
2.996	3.001	.375	L	6547	201	3.169	3.176	.480	V	100086	#
2.996	3.001	.500	S	*410084	41	1.886" SHAFT					
2.996	3.001	.500	S	450084	45	-	-	-	S	800450	VRS1
2.996	3.001	.500	S	*470084	47	-	-	-	S	800451	VRS2
2.996	3.001	.500	S	*480084	48	-	-	-	V	800454	VRS1
2.998	3.002	.375	F	*290944	29	-	-	-	V	800455	VRS2
3.000	3.005	.312	S	473239	47	2.699	2.704	.350	N	4333N◀	79
3.000	3.005	.312	S	*483239	48	2.750	2.765	1.375	N	4503N◀	79
3.000	3.005	.375	S	*451139	45	2.756	2.756	.823	N	714503	#
3.000	3.005	.375	S	*471139	47	48,00mm (1.890") SHAFT					
3.000	3.005	.375	S	*481139	48	-	-	-	S	800450	VRS1
3.000	3.005	.375	H	*481139H	48	-	-	-	S	800451	VRS2
3.000	3.005	.500	S	*410298	41	-	-	-	V	800454	VRS1
3.000	3.005	.500	N	*410298N	41	-	-	-	V	800455	VRS2
3.000	3.005	.500	S	450298	45	-	-	-	S	800500	VRS1
3.000	3.005	.500	S	*470298	47	-	-	-	V	800504	VRS1
3.000	3.005	.500	S	*480298	48	-	-	-	V	800505	VRS2
3.000	3.005	.625	H	8165	#	-	-	.551	99189	Redi-Sleeve	
3.061	3.066	.375	S	473457	47	57,75	58,00	4,00	S	*48X58X4★	32
3.061	3.066	.500	S	*410304	41	2,273	2,283	.157			
3.061	3.066	.500	S	*450304	45	58,00	58,20	8,00	S	*48X58X8★	32
3.061	3.066	.500	H	*450304H	45	2,283	2,291	.315			
3.061	3.066	.500	S	*470304	47	58,75	59,00	6,00	S	*48X59X6★	32
3.061	3.066	.500	S	*480304	48	2,313	2,323	.236			
3.105	3.110	.500	L	7216&	47	59,75	60,00	8,00	S	*48X60X8★	32
3.125	3.130	.312	S	473240	47	2,352	2,362	.315			
3.125	3.130	.312	S	*483240	48	59,75	60,00	10,00	S	*48X60X10★	32
3.125	3.130	.375	S	*472005	47	2,352	2,362	.394			
3.125	3.130	.375	S	*482005	48	60,00	60,20	9,00	S	710356★➔	32
3.125	3.130	.500	S	*410720	41	2,362	2,370	.354			
3.125	3.130	.500	S	*450720	45	61,75	62,00	7,00	S	*48X62X7★	32
3.125	3.130	.500	S	*470720	47	2,431	2,441	.276			
3.125	3.130	.500	S	*480720	48	61,75	62,00	9,00	S	*48X62X9★	32
3.149	3.154	.359	S	*204047	204	2,431	2,441	.354			
3.150	3.146	.930	S	3186¶	59	61,75	62,00	10,00	S	*48X62X10★	32
3.150	3.146	.930	S	3195¶	59	2,431	2,441	.394			
3.150	3.155	.250	S	715100	#	61,75	62,00	12,00	S	*48X62X12★	32
3.160	3.165	.530	V	710452	72	2,431	2,441	.472			
3.160	3.165	.530	S	*4431	72	62,00	62,10	8,00	S	48X62X8★	35
3.160	3.165	.530	N	*4431N	72	2,441	2,445	.315			
3.160	3.165	.530	V	*4431V	72	62,00	62,10	8,00	S	224820★	32
3.160	3.165	.562	N	6808N	45	2,441	2,445	.315			
3.160	3.165	.695	N	9316	72	62,00	62,10	24,00	S	1956★	#
3.160	3.165	.720	V	719316	72	2,441	2,445	.945			
3.161	3.165	.695	V	100675	72	62,00	62,20	6,00	S	710322★	34
3.189	3.194	.375	S	473458	47	2,441	2,449	.236			
3.189	3.194	.437	S	*410092	41	62,00	62,20	8,00	V	*48X62X8V★	35
3.189	3.194	.437	S	*450092	45	2,441	2,449	.315			
3.189	3.194	.437	S	*470092	47	62,00	62,20	8,00	S	*320832★	32
3.189	3.194	.437	S	*480092	48	2,441	2,449	.315			
3.251	3.256	.437	S	*412022	41	62,00	62,25	6,00	S	1188★	34
3.251	3.256	.500	S	*411078	41	2,441	2,451	.236			
3.251	3.256	.500	S	451078	45						
3.251	3.256	.500	S	*471078	47						
3.251	3.256	.500	S	*481078	48						
3.350	3.355	.468	S	*452023	45						
3.371	3.376	.468	S	410524	41						
3.371	3.376	.468	S	*450524	45						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW & Flanged O.D.

¶ Expandable O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
48,00mm (1.890") SHAFT (cont.)						48,00mm (1.890") SHAFT (cont.)					
62,00	62,28	8,00	N	224810★	32	72,00	72,20	8,00	V	*48X72X8V★	35
2.441	2.452	.315				2.835	2.843	.315			
63,00	63,09	9,00	S	48X63X9★	47	72,00	72,28	10,00	S	224850★	32
2.480	2.484	.354				2.835	2.846	.394			
63,00	63,09	9,00	S	1969★	47	72,00	72,31	7,00	S	48X72X7★	32
2.480	2.484	.354				2.835	2.847	.276			
64,00	64,20	14,00	S	710167★	#	72,00	72,31	7,00	S	1208★	32
2.520	2.528	.551				2.835	2.847	.276			
64,75	65,00	7,00	S	*48X65X7★	32	72,00	72,35	8,50	S	224872★	32
2.549	2.559	.276				2.835	2.848	.335			
64,75	65,00	9,00	S	*48X65X9★	32	72,25	72,50	10,00	S	*48X72.5X10★	32
2.549	2.559	.354				2.844	2.854	.394			
64,75	65,00	12,00	S	*48X65X12★	32	73,00	73,10	7,00	S	224870★	47
2.549	2.559	.472				2.874	2.878	.276			
65,00	65,10	7,00	S	*493759★	49	73,75	74,00	10,00	S	*48X74X10★	32
2.559	2.563	.276				2.903	2.913	.394			
65,00	65,15	24,50	N	4528N★	66	73,75	74,00	12,00	S	*48X74X12★	32
2.559	2.565	.965				2.903	2.913	.472			
65,00	65,20	10,00	V	*48X65X10V★	32	74,00	74,23	10,00	S	224874★	32
2.559	2.567	.394				2.913	2.922	.394			
65,00	65,20	10,00	S	224865★	32	74,00	74,30	10,00	N	224815★	40
2.559	2.567	.394				2.913	2.925	.394			
65,00	65,30	8,00	S	1973★	25	74,75	75,00	12,00	S	*48X75X12★	32
2.559	2.571	.315				2.943	2.953	.472			
65,00	65,30	10,00	S	48X65X10★	32	75,00	75,20	10,00	S	48X75X10★	32
2.559	2.571	.394				2.953	2.961	.394			
65,00	65,30	10,00	V	716484★	32	78,00	78,20	8,00	S	*48X78X8★	32
2.559	2.571	.394				3.071	3.079	.315			
65,07	65,20	12,70	S	*2820★	#	79,72	80,00	10,00	S	*48X80X10★	32
2.562	2.567	.500				3.139	3.150	.394			
66,75	67,00	11,00	S	*48X67X11★	32	80,00	80,20	8,00	S	48X80X8★	32
2.628	2.638	.433				3.150	3.157	.315			
67,75	68,00	8,00	S	*48X68X8★	32	81,72	82,00	10,00	S	*48X82X10★	32
2.667	2.677	.315				3.217	3.228	.394			
68,00	68,27	10,00	N	48X68X10★	32	82,00	82,20	8,00	S	*48X82X8★	32
2.677	2.688	.394				3.228	3.236	.315			
68,00	68,27	10,00	N	224835★	32	84,72	85,00	10,00	S	*48X85X10★	32
2.677	2.688	.394				3.335	3.346	.394			
68,00	68,30	11,00	S	224840★	32	85,00	85,20	8,00	S	*48X85X8★	32
2.677	2.689	.433				3.346	3.354	.315			
68,58	68,68	14,78	S	9449★	74	88,00	88,20	8,00	S	*48X88X8★	32
2.700	2.704	.582				3.465	3.472	.315			
69,75	70,00	7,00	S	*48X70X7★	32	89,72	90,00	13,00	S	*48X90X13★	32
2.746	2.756	.276				3.532	3.543	.512			
69,75	70,00	10,00	S	*48X70X10★	32	90,00	90,20	10,00	S	48X90X10★	35
2.746	2.756	.394				3.543	3.551	.394			
69,75	70,00	12,00	S	*48X70X12★	32	108,50	108,70	13,00	S	710296★	#
2.746	2.756	.472				4.272	4.280	.512			
70,00	70,20	8,00	S	48X70X8★	35	1.893" SHAFT					
2.756	2.764	.315				-	-	-	S	800500	VRS1
70,00	70,20	9,00	S	710255★	#	-	-	-	V	800504	VRS1
2.756	2.764	.354				-	-	-	V	800505	VRS2
70,00	70,20	12,00	S	710313★	32	-	-	.551		99189	Redi-Sleeve
2.756	2.764	.472				2.434	2.438	.250	S	8704S	33
70,00	70,25	9,00	H	712010★	32	1.906" (1-29/32") SHAFT					
2.756	2.766	.354				-	-	-	S	800500	VRS1
70,00	70,28	9,00	S	48X70X9★	35	-	-	-	V	800504	VRS1
2.756	2.767	.354				-	-	-	V	800505	VRS2
70,00	70,28	10,00	S	1994★	32	3.189	3.194	.406	N	*8084N	45
2.756	2.767	.394				1.910" SHAFT					
70,25	70,50	10,00	S	*48X70.5X10★	32	-	-	-	S	800500	VRS1
2.766	2.776	.394				-	-	-	V	800504	VRS1
71,37	0,00	17,78	N	710453★	#	-	-	-	V	800505	VRS2
2.810	.000	.700				-	-	.375		*99192	Redi-Sleeve
71,75	72,00	8,00	S	*48X72X8★	32	2.760	2.760	.070	S	*8669	#
2.825	2.835	.315									
71,75	72,00	9,00	S	*48X72X9★	32						
2.825	2.835	.354									
71,75	72,00	10,00	S	*48X72X10★	32						
2.825	2.835	.394									
71,75	72,00	12,00	S	*48X72X12★	32						
2.825	2.835	.472									

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
1.915" SHAFT						1.937" (1-15/16") SHAFT (cont.)					
-	-	-	S	800500	VRS1	2.750	2.754	.312	S	473241	47
-	-	-	V	800504	VRS1	2.750	2.754	.312	S	*483241	48
-	-	-	V	800505	VRS2	2.750	2.754	.313	V	710162	48
-	-	.375		*99192	Redi-Sleeve	2.750	2.754	.500	S	*411937	41
2.532	2.548	.250	S	*7020	#	2.750	2.754	.500	S	*451937	45
2.533	2.537	.250	S	*6971S	33	2.750	2.754	.500	H	*451937H	45
49,00mm (1.929") SHAFT						2.758	2.762	.500	S	450279	45
-	-	-	S	800500	VRS1	2.824	2.828	.500	N	*451117N	45
-	-	-	V	800504	VRS1	2.875	2.879	.290	S	*200396	200
-	-	-	V	800505	VRS2	2.875	2.879	.312	S	472144	47
61,75	62,00	6,00	S	*49X62X6★	32	2.875	2.879	.312	S	*482144	48
2.431	2.441	.236				2.875	2.879	.437	S	*411940	41
62,00	62,15	8,00	S	4904★	66	2.875	2.879	.437	S	*471940	47
2.441	2.447	.315				2.875	2.879	.468	S	*410295	41
64,00	64,28	12,50	S	1936★	#	2.875	2.879	.468	N	*410295N	41
2.520	2.531	.492				2.875	2.879	.468	S	*450295	45
65,10	65,20	8,00	T	39877★↔	WW	2.875	2.879	.468	S	*480295	48
2.563	2.567	.315				2.875	2.879	.687	S	210295	21
70,00	70,10	12,50	S	710305★&	#	2.996	3.001	.437	S	*452006	45
2.756	2.760	.492				2.996	3.001	.500	S	*450145	45
72,20	72,50	8,00	S	710148★	97	2.996	3.001	.500	S	*480145	48
2.843	2.854	.315				3.000	3.005	.312	S	472394	47
75,75	76,00	15,00	S	*49X76X15★	32	3.000	3.005	.312	S	*482394	48
2.982	2.992	.591				3.000	3.005	.500	S	*410300	41
79,00	79,10	17,50	N	224979★→	47	3.000	3.005	.500	S	*450300	45
3.110	3.114	.689				3.000	3.005	.500	S	*470300	47
100,00	100,20	8,00	S	710374★	#	3.000	3.005	.500	S	*480300	48
3.937	3.945	.315				3.061	3.066	.375	S	473460	47
1.937" (1-15/16") SHAFT						2.996	3.001	.437	S	*452006	45
-	-	-	S	800500	VRS1	2.996	3.001	.500	S	*450145	45
-	-	-	V	800504	VRS1	2.996	3.001	.500	S	*480145	48
-	-	-	V	800505	VRS2	3.000	3.005	.312	S	472394	47
-	-	.563		99193	Redi-Sleeve	3.000	3.005	.312	S	*482394	48
2.412	2.416	.468	S	470409	47	3.000	3.005	.500	S	*410300	41
2.437	2.441	.250	S	474269	47	3.000	3.005	.500	S	*450300	45
2.500	2.510	.374	V	*320510V	32	3.000	3.005	.500	S	*470300	47
2.502	2.506	.375	S	*451195	45	3.000	3.005	.500	S	*480300	48
2.502	2.506	.375	V	*451195V	45	3.061	3.066	.375	S	473461	47
2.502	2.506	.375	S	471195	47	3.061	3.066	.500	S	*450306	45
2.502	2.506	.375	S	481195	48	3.061	3.066	.500	S	*480306	48
2.502	2.506	.375	N	*481195N	48	3.125	3.130	.375	S	471391	47
2.561	2.565	.500	S	*411854	41	3.125	3.130	.500	S	*410309	41
2.561	2.565	.500	S	471854	47	3.125	3.130	.500	S	*450309	45
2.562	2.566	.317	S	710058	48	3.125	3.130	.500	S	*470309	47
2.562	2.566	.437	S	*204079	204	3.125	3.130	.500	S	*480309	48
2.562	2.567	.317	S	*480550	48	3.155	3.160	.250	S	*40526S	4S
2.578	2.830	.292	S	9150S	25	3.189	3.194	.250	S	40094S	4S
2.623	2.627	.312	S	472319	47	3.189	3.194	.375	S	473462	47
2.623	2.627	.312	V	*472319V	47	3.189	3.194	.437	S	*410094	41
2.623	2.627	.312	S	*482319	48	3.189	3.194	.437	S	450094	45
2.623	2.627	.500	S	*450455	45	3.189	3.194	.437	N	450094N	45
2.623	2.627	.500	S	*470455	47	3.189	3.194	.437	S	470094	47
2.623	2.627	.500	S	*480455	48	3.189	3.194	.437	S	*480094	48
2.625	2.629	.375	S	*481166	48	3.350	3.355	.468	S	*410965	41
2.686	2.690	.304	N	3173	48	3.350	3.355	.468	S	450965	45
2.686	2.690	.312	H	483459H	48	3.381	3.376	.667	S	*8398	39
2.686	2.690	.312	S	473459	47	3.500	3.505	.250	S	45653S	4S
2.686	2.690	.375	S	471869	47	3.543	3.548	.375	S	417474	41
2.686	2.690	.375	N	*471869N	47	3.543	3.548	.500	S	*415130	41
2.686	2.690	.500	H	6988H	33	3.543	3.548	.500	S	*455130	45
2.686	2.690	.500	S	*331882	33	3.622	3.627	.375	F	6074	29
2.686	2.690	.500	S	*410138	41	3.623	3.628	.468	S	476509	47
2.686	2.690	.500	S	*450138	45	3.751	3.756	.500	S	456057	45
2.686	2.690	.500	V	470138V→	47	3.930	3.935	.320	S	710081	#
2.686	2.690	.500	S	*480138	48	1.938" SHAFT					
2.686	2.690	.500	H	*480138H	48	2.680	.000	.500	N	710928	#
2.713	2.717	.468	S	*450655	45	1.940" SHAFT					
						-	-	-	S	800500	VRS1
						-	-	-	V	800504	VRS1
						-	-	-	V	800505	VRS2
						-	-	.563		99193	Redi-Sleeve
						2.500	2.505	.250	S	*3447&	286
						2.500	2.505	.250	S	6815&	286
						2.622	2.626	.580	S	5121	281
						2.762	2.766	.500	S	2043	47
						2.812	2.816	.400	S	*3513	#
						2.813	2.817	.428	S	8622&	#

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use → Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
50,00mm (1.969") SHAFT (cont.)						50,00mm (1.969") SHAFT (cont.)					
70,00	70,10	7,00	S	413818★	41	80,00	80,28	8,00	S	50X80X8★	32
2.756	2.760	.276				3.150	3.161	.315			
70,00	70,10	9,00	S	*470824★	47	80,00	80,30	16,00	N	710112★↔	#
2.756	2.760	.354				3.150	3.161	.630			
70,00	70,10	11,00	H	*481371H★	48	80,72	81,00	12,00	S	*50X81X12★	32
2.756	2.760	.433				3.178	3.189	.472			
70,00	70,20	8,00	S	50X70X8★	32	81,72	82,00	12,00	S	*50X82X12★	32
2.756	2.764	.315				3.217	3.228	.472			
70,00	70,20	9,00	S	50X70X9★	32	82,00	82,18	11,50	S	225082★	#
2.756	2.764	.354				3.228	3.235	.453			
70,00	70,20	10,00	V	*50X70X10V★	35	84,72	85,00	10,00	S	*50X85X10★	32
2.756	2.764	.394				3.335	3.346	.394			
70,00	70,20	10,00	N	710173★	#	84,72	85,00	12,00	S	*50X85X12★	32
2.756	2.764	.394				3.335	3.346	.472			
70,00	70,20	14,00	S	710135★	#	85,00	85,20	8,00	S	50X85X8★	32
2.756	2.764	.551				3.346	3.354	.315			
70,00	70,23	9,00	S	1960★	47	86,00	86,30	13,00	N	710117★	#
2.756	2.765	.354				3.386	3.398	.512			
70,00	70,30	9,50	S	*1189★	32	88,00	88,20	8,00	S	*50X88X8★	32
2.756	2.768	.374				3.465	3.472	.315			
71,75	72,00	7,00	S	*50X72X7★	32	89,72	90,00	13,00	S	*50X90X13★	32
2.825	2.835	.276				3.532	3.543	.512			
71,75	72,00	9,00	S	*50X72X9★	32	90,00	90,20	8,00	S	50X90X8★	32
2.825	2.835	.354				3.543	3.551	.315			
71,75	72,00	10,00	S	*50X72X10★	32	90,00	90,20	10,00	V	*50X90X10V★	35
2.825	2.835	.394				3.543	3.551	.394			
71,75	72,00	12,00	S	*50X72X12★	32	90,00	90,28	10,00	S	50X90X10★	35
2.825	2.835	.472				3.543	3.554	.394			
72,00	72,20	8,00	V	*50X72X8V★	32	94,00	94,28	24,00	S	710071★	#
2.835	2.843	.315				3.701	3.712	.945			
72,00	72,20	10,00	S	710398★	#	99,72	100,00	10,00	S	*50X100X10★	32
2.835	2.843	.394				3.926	3.937	.394			
72,00	72,28	8,00	S	225030★	35	110,00	110,13	9,50	S	476512★	47
2.835	2.846	.315				4.331	4.336	.374			
72,00	72,28	8,00	S	50X72X8★	32	1.991" SHAFT					
2.835	2.846	.315				2.900	2.975	.290	S	200885%	200E
72,00	72,35	10,00	S	225035★	32	1.996" SHAFT					
2.835	2.848	.394				-	-	-	S	800500	VRS1
72,00	72,35	12,00	S	225040★↔	32	-	-	-	V	800504	VRS1
2.835	2.848	.472				-	-	-	V	800505	VRS2
72,75	73,00	9,00	S	*50X73X9★	32	2.000	2.878	.250	S	8998%	44
2.864	2.874	.354				2.743	2.751	.325	H	3404↔	75
74,00	74,20	9,00	S	710137★	#	2.996	3.001	.812	S	*392077	#
2.913	2.921	.354				3.111	3.120	.344	H	4189H&	75
74,75	75,00	10,00	S	*50X75X10★	32	2.000" SHAFT					
2.943	2.953	.394				-	-	-	S	800500	VRS1
75,00	75,10	9,00	S	710437★	47	-	-	-	V	800504	VRS1
2.953	2.957	.354				-	-	-	V	800505	VRS2
75,00	75,20	7,00	S	50X75X7★	32	-	-	.563		99199	Redi-Sleeve
2.953	2.961	.276				-	-	.875		99200	Redi-Sleeve
75,00	75,20	8,00	S	*50X75X8★	32	-	4.562	.562	F	*6469	#
2.953	2.961	.315				2.500	-	.250	U	710025	#
75,00	75,28	12,00	S	50X75X12★	32	2.500	-	.375	U	710040	#
2.953	2.964	.472				2.500	2.504	.437	H	452261H	45
75,75	76,00	12,00	S	*50X76X12★	32	2.501	2.506	.250	L	40401	4L
2.982	2.992	.472				2.502	2.506	.500	L	*50401	5L
77,50	77,70	9,00	S	1941★	47	2.502	2.508	.250	S	352541	35
3.051	3.071	.354				2.561	2.565	.250	S	4739	282
77,72	78,00	12,00	S	*50X78X12★	32	2.561	2.565	.549	S	9015S	44
3.060	3.071	.472				2.561	2.566	.220	S	*3633	#
78,00	78,20	8,00	S	*50X78X8★	32	2.562	2.566	.220	S	8871&	286
3.071	3.079	.315				2.562	2.566	.225	S	*4195	#
79,72	80,00	10,00	S	*50X80X10★	32	2.562	2.566	.500	F	*205058	205
3.139	3.150	.394				2.562	2.566	.528	N	331301N	33
79,72	80,00	12,00	S	*50X80X12★	32	2.623	2.626	.580	S	*2834	#
3.139	3.150	.472									
79,72	80,00	13,00	S	*50X80X13★	32						
3.139	3.150	.512									
80,00	80,20	8,00	V	*50X80X8V★	32						
3.150	3.157	.315									
80,00	80,28	8,00	S	225050★	35						
3.150	3.161	.315									

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ↔ Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.000" SHAFT (cont.)						2.000" SHAFT (cont.)					
2.623	2.627	.225	S	*41424S	4S	2.835	2.839	.375	S	472653	47
2.623	2.627	.250	S	40410S	4S	2.835	2.839	.375	V	472653V	47
2.623	2.627	.250	S	*492702	49	2.835	2.839	.468	S	*411943	41
2.623	2.627	.256	V	710263➔	47	2.835	2.839	.468	S	*451943	45
2.623	2.627	.280	S	4148&	286	2.835	2.839	.468	S	*471943	47
2.623	2.627	.312	S	471424	47	2.846	2.850	.375	S	493524	49
2.623	2.627	.312	A	471424A	47	2.875	2.879	.250	S	*42999S	4S
2.623	2.627	.312	V	471424V	47	2.875	2.879	.290	S	200339	200
2.623	2.627	.312	S	*481424	48	2.875	2.879	.312	V	472924V	47
2.623	2.627	.312	H	*481424H	48	2.875	2.879	.312	S	472924	47
2.623	2.627	.375	S	*472331	47	2.875	2.879	.312	S	*482924	48
2.623	2.627	.500	S	*410410	41	2.875	2.879	.437	S	*411944	41
2.623	2.627	.500	S	*450410	45	2.875	2.879	.437	S	*451944	45
2.623	2.627	.500	N	*450410N	45	2.875	2.879	.437	H	*451944H	45
2.623	2.627	.500	S	*470410	47	2.875	2.879	.437	S	*471944	47
2.623	2.627	.500	S	*480410	48	2.875	2.879	.437	S	*481944	48
2.623	2.627	.500	N	*480410N	48	2.875	2.879	.468	S	*410083	41
2.623	2.627	.635	S	*5125&	#	2.875	2.879	.468	N	*410083N	41
2.625	2.629	.250	S	*440905	44	2.875	2.879	.468	S	450083	45
2.625	2.629	.285	S	9406S	279	2.875	2.879	.468	S	*480083	48
2.625	2.630	.375	H	*472857H	47	2.875	2.879	.500	S	*410966	41
2.630	2.750	.562	S	6090S	273	2.875	2.879	.500	S	*450966	45
2.635	2.639	.235	F	292594	29	2.875	2.879	.508	H	*8836H	37
2.651	4.562	.562	F	*6465B++	#	2.875	2.879	.703	S	6163S	21
2.686	2.690	.250	S	40360S	4S	2.878	2.882	.340	N	4598➔	83
2.686	2.690	.375	S	471870	47	2.880	2.884	.375	S	472082	47
2.686	2.690	.375	S	*482485	48	2.880	2.884	.375	N	*472082N	47
2.686	2.690	.437	S	*411883	41	2.880	2.884	.500	N	*411429N	41
2.686	2.690	.437	H	*411883H	41	2.961	2.971	.250	F	8139	#
2.686	2.690	.437	S	*451883	45	2.964	2.968	.500	F	205044	205
2.686	2.690	.437	H	*451883H	45	2.995	3.003	.438	N	*4654N➔	#
2.686	2.690	.437	S	471883	47	2.996	3.001	.250	S	40085S	4S
2.686	2.690	.500	S	*410360	41	2.996	3.001	.250	S	*43085S	4S
2.686	2.690	.500	S	*450360	45	2.996	3.001	.375	V	470530V	47
2.686	2.690	.500	H	*450360H	45	2.996	3.001	.375	S	*410530	41
2.686	2.690	.500	S	*470360	47	2.996	3.001	.375	N	*410530N	41
2.686	2.690	.500	S	*480360	48	2.996	3.001	.375	S	470530	47
2.687	2.690	.375	U	710017	#	2.996	3.001	.437	S	*412008	41
2.713	2.717	.468	S	450446	45	2.996	3.001	.437	S	*452008	45
2.716	2.720	.468	S	*410543	41	2.996	3.001	.437	S	*472008	47
2.716	2.720	.468	S	*450543	45	2.996	3.001	.500	S	410085	41
2.716	2.720	.468	H	*450543H	45	2.996	3.001	.500	H	*410085H	41
2.716	2.720	.468	V	450543V	45	2.996	3.001	.500	N	410085N	41
2.716	2.720	.468	S	470543	47	2.996	3.001	.500	V	*410085V	41
2.716	2.720	.593	S	*10543S	1S	2.996	3.001	.500	S	450085	45
2.716	2.721	.375	S	474272	47	2.996	3.001	.500	N	*450085N	45
2.717	2.721	.250	S	43073S	4S	2.996	3.001	.500	V	*450085V	45
2.720	-	.210	S	710365%	#	2.996	3.001	.500	S	*470085	47
2.742	2.746	.375	S	472341	47	2.996	3.001	.500	H	*470085H	47
2.742	2.746	.375	N	*472341N	47	2.996	3.001	.500	N	*470085N	47
2.745	2.749	.230	S	*4403	#	2.996	3.001	.500	S	*480085	48
2.745	2.749	.230	S	5113	203	2.996	3.003	.438	N	714654➔	47
2.746	2.750	.375	S	*331107	33	3.000	3.005	.250	S	40301S	4S
2.746	2.750	.375	H	*331107H	33	3.000	3.005	.312	V	472397V	47
2.746	2.750	.375	H	331107N	33	3.000	3.005	.312	S	472397	47
2.750	2.754	.187	L	5865	4L	3.000	3.005	.312	S	*482397	48
2.750	2.754	.250	S	40389S	4S	3.000	3.005	.375	S	*452009	45
2.750	2.754	.312	V	472492V	47	3.000	3.005	.375	S	*472009	47
2.750	2.754	.312	S	472492	47	3.000	3.005	.375	N	*472009N	47
2.750	2.754	.312	A	472492A	47	3.000	3.005	.375	S	*482009	48
2.750	2.754	.312	N	*472492N	47	3.000	3.005	.500	S	*410301	41
2.750	2.754	.312	S	*482492	48	3.000	3.005	.500	V	*410301V	41
2.750	2.754	.325	N	710447	47	3.000	3.005	.500	S	450301	45
2.750	2.754	.375	S	*480436	48	3.000	3.005	.500	H	*450301H	45
2.750	2.754	.500	S	*410389	41	3.000	3.005	.500	N	*450301N	45
2.750	2.754	.500	N	*410389N	41	3.000	3.005	.500	S	*470301	47
2.750	2.754	.500	S	450389	45	3.000	3.005	.500	S	*480301	48
2.750	2.754	.500	H	*450389H	45	3.000	3.005	.500	H	*480301H	48
2.750	2.754	.500	S	*470389	47	3.062	3.066	.250	S	204508	204
2.750	2.754	.500	N	*470389N	47	3.062	3.066	.375	S	473463	47
2.750	2.754	.500	S	*480389	48	3.062	3.066	.500	S	*411091	41
2.804	2.824	.294	S	200881%	200E	3.062	3.066	.500	S	*451091	45

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW ++ Not Sold Separately

% External Bore & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.000" SHAFT (cont.)						51,00mm (2.008") SHAFT (cont.)					
3.062	3.066	.500	S	*471091	47	65,00	65,10	7,00	S	*474096★	47
3.062	3.066	.500	N	*471091N	47	2.559	2.563	.276			
3.062	3.066	.500	S	*481091	48	66,00	66,20	6,50	N	710265★	35
3.062	3.066	.500	H	*481091H	48	2.598	2.606	.256			
3.125	3.130	.312	S	*473242	47	66,25	66,50	10,00	S	*51X66.5X10★	32
3.125	3.130	.312	V	*473242V	47	2.608	2.618	.394			
3.125	3.130	.312	S	*483242	48	70,00	70,28	11,00	N	8316★➔	32
3.125	3.130	.375	S	*472010	47	2.756	2.767	.433			
3.125	3.130	.375	S	*482010	48	73,00	73,20	8,00	S	*51X73X8★	32
3.125	3.130	.500	S	*410310	41	2.874	2.882	.315			
3.125	3.130	.500	H	*410310H	41	80,00	80,20	8,00	S	*51X80X8★	32
3.125	3.130	.500	S	*450310	45	3.150	3.157	.315			
3.125	3.130	.500	N	*450310N	45	81,00	81,20	8,00	S	*51X81X8★	32
3.125	3.130	.500	S	*470310	47	3.189	3.197	.315			
3.125	3.130	.500	S	*480310	48	90,00	90,20	8,00	S	*51X90X8★	32
3.148	3.153	.250	S	*43670	4S	3.543	3.551	.315			
3.150	3.155	.375	S	*412725	41	92,00	92,20	8,00	S	*51X92X8★	32
3.150	3.155	.500	S	*51265S	5S	3.622	3.630	.315			
3.155	3.160	.500	F	*293280	29	2.010" SHAFT					
3.189	3.194	.437	S	*410095	41	-	-	-	S	800500	VRS1
3.189	3.194	.437	S	*450095	45	-	-	-	V	800504	VRS1
3.189	3.194	.437	N	*450095N	45	-	-	-	V	800505	VRS2
3.189	3.194	.437	S	*470095	47	-	2.876	.318	S	*SK2++	#
3.189	3.194	.437	S	*480095	48	2.650	2.655	.363	S	3794	49
3.251	3.256	.437	S	*412027	41	2.030" SHAFT					
3.251	3.256	.500	S	*410571	41	-	-	-	S	800500	VRS1
3.251	3.256	.500	S	*450571	45	-	-	-	V	800504	VRS1
3.251	3.256	.500	S	*480571	48	-	-	-	V	800505	VRS2
3.264	3.269	.250	S	441148	44	-	2.601	.295	S	*SK1++	#
3.264	3.269	.312	F	*291148	29	2.031" (2-1/32") SHAFT					
3.350	3.355	.468	S	*412028	41	-	-	-	S	800500	VRS1
3.370	-	1.020	S	710007	#	-	-	-	V	800504	VRS1
3.371	3.376	.468	S	*410102	41	-	-	-	V	800505	VRS2
3.371	3.376	.468	N	*410102N	41	-	4.156	.781	L	5797	#
3.371	3.376	.468	S	*450102	45	52,00mm (2.047") SHAFT					
3.371	3.376	.468	H	*450102H	45	-	-	-	S	800500	VRS1
3.371	3.376	.468	N	*470102N	47	-	-	-	V	800504	VRS1
3.371	3.376	.468	S	*480102	48	-	-	-	V	800505	VRS2
3.500	3.505	.500	S	*415627	41	-	-	.500	99204	Redi-Sleeve	
3.543	3.548	.500	S	*455253	45	0,00	69,01	14,81	S	710527★	#
3.623	3.628	.250	S	204506	204	.000	2.717	.583			
3.623	3.628	.375	S	487945	48	61,75	62,00	7,00	S	*52X62X7★	32
3.623	3.628	.500	S	*457097	45	2.431	2.441	.276			
4.003	4.008	.468	L	55524	5L	61,75	62,00	10,00	S	*52X62X10★	32
2.005" SHAFT						2.431	2.441	.394			
-	-	-	S	800500	VRS1	62,00	63,00	5,50	S	710253★%	#
-	-	-	V	800504	VRS1	2.441	2.480	.217			
-	-	-	V	800505	VRS2	62,75	63,00	8,00	S	*52X63X8★	32
2.878	2.888	.340	V	320259➔	32	2.470	2.480	.315			
51,00mm (2.008") SHAFT						63,00	63,23	8,00	S	1975★	32
-	-	-	S	800500	VRS1	2.480	2.489	.315			
-	-	-	V	800504	VRS1	63,75	64,00	9,00	S	*52X64X9★	32
-	-	-	V	800505	VRS2	2.510	2.520	.354			
62,00	62,10	7,00	S	710407★	33	64,75	65,00	8,00	S	*52X65X8★	32
2.441	2.445	.276				2.549	2.559	.315			
63,00	63,12	6,00	S	494123★	49	64,75	65,00	10,00	S	*52X65X10★	32
2.480	2.485	.236				2.549	2.559	.394			
63,00	63,20	8,00	S	*51X63X8★	32	65,00	65,20	9,00	S	225208★	32
2.480	2.488	.315				2.559	2.567	.354			
63,00	63,20	8,50	S	710323★	49	65,00	65,30	9,00	S	52X65X9★	32
2.480	2.488	.335				2.559	2.571	.354			
64,75	65,00	13,00	S	*51X65X13★	32	65,00	65,30	9,00	S	1955★	35
2.549	2.559	.512				2.559	2.571	.354			
65,00	65,10	7,00	S	51X65X7★	47	51,00mm (2.008") SHAFT (cont.)					
2.559	2.563	.276				65,00	65,10	7,00	S	*474096★	47
65,00	65,10	7,00	S	225110★	47	2.559	2.563	.276			
2.559	2.563	.276				66,00	66,20	6,50	N	710265★	35

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ++ Not Sold Separately % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
52,00mm (2.047") SHAFT (cont.)						52,00mm (2.047") SHAFT (cont.)					
66,00	66,12	7,50	S	4898★	66	79,72	80,00	13,00	S	*52X80X13★	32
2.598	2.603	.295				3.139	3.150	.512			
66,00	66,23	9,00	N	225210★	35	80,00	80,28	10,00	S	52X80X10★↔	32
2.598	2.607	.354				3.150	3.161	.394			
67,00	67,30	7,00	S	1883★%	#	82,00	82,20	8,00	S	52X82X8★	32
2.638	2.650	.276				3.228	3.236	.315			
67,75	68,00	7,00	S	*52X68X7★	32	84,72	85,00	9,00	S	*52X85X9★	32
2.667	2.677	.276				3.335	3.346	.354			
67,75	68,00	10,00	S	*52X68X10★	32	84,72	85,00	10,00	S	*52X85X10★	32
2.667	2.677	.394				3.335	3.346	.394			
68,00	68,10	6,50	S	710292★	#	85,00	85,20	8,00	S	52X85X7★	32
2.677	2.681	.256				3.346	3.354	.315			
68,00	68,09	12,09	S	*710064★	#	85,00	85,20	8,00	S	*52X85X8★	32
2.677	2.681	.476				3.346	3.354	.315			
68,00	68,15	8,00	V	710190★	32	89,72	90,00	10,00	S	*52X90X10★	32
2.677	2.683	.315				3.532	3.543	.394			
68,00	68,20	8,00	V	*52X68X8V★	35	2.048" SHAFT					
2.677	2.685	.315				-	-	-	S	800500	VRS1
68,00	68,20	13,00	S	710312★	32	-	-	-	V	800504	VRS1
2.677	2.685	.512				-	-	-	V	800505	VRS2
68,00	68,28	7,00	S	4990★	281	2.728	2.732	.590	S	3087	#
2.677	2.688	.276				2.058" SHAFT					
68,00	68,28	8,00	S	225220★	32	-	-	-	S	800500	VRS1
2.677	2.688	.315				-	-	-	V	800504	VRS1
68,00	68,28	10,00	S	1884★	32	-	-	-	V	800505	VRS2
2.677	2.688	.394				-	-	.781	99205	Redi-Sleeve	
68,00	68,43	10,00	S	*324186★	32	2.062	3.325	.290	S	*200897%	200E
2.677	2.694	.394				2.676	2.681	.255	S	*7141	200
69,00	69,28	10,00	S	52X69X10★	35	3.149	3.154	.270	S	200110	200
2.717	2.728	.394				2.062" (2-1/16") SHAFT					
69,75	70,00	9,00	S	*52X70X9★	32	-	-	-	S	800500	VRS1
2.746	2.756	.354				-	-	-	V	800504	VRS1
69,75	70,00	13,00	S	*52X70X13★	32	-	-	-	V	800505	VRS2
2.746	2.756	.512				-	-	.781	99205	Redi-Sleeve	
70,00	70,20	8,00	S	52X70X8★	32	-	4.735	.468	S	6077	#
2.756	2.764	.315				2.561	2.565	.312	S	332134	33
70,00	70,27	8,50	N	710187★→	32	2.561	2.565	.313	V	484064V	48
2.756	2.766	.335				2.758	2.762	.437	S	*451945	45
70,00	70,27	7,50	S	225540★%	#	2.842	2.846	.450	L	5877	5L
2.756	2.767	.295				2.875	2.879	.375	S	*472579	47
70,00	70,27	8,00	S	225225★	47	2.875	2.879	.437	S	451948	45
2.756	2.767	.315				2.875	2.879	.468	S	*450373	45
71,75	72,00	9,00	S	*52X72X9★	32	2.875	2.879	.468	S	*480373	48
2.825	2.835	.354				2.875	2.879	.500	F	*291070	29
71,75	72,00	10,00	S	*52X72X10★	32	2.937	3.034	.340	S	4162%	200E
2.825	2.835	.394				2.996	3.001	.375	S	473466	47
71,75	72,00	12,00	S	*52X72X12★	32	2.996	3.001	.500	S	*410261	41
2.825	2.835	.472				2.996	3.001	.500	S	*450261	45
72,00	72,20	8,00	S	52X72X8★	35	2.996	3.001	.500	S	*480261	48
2.835	2.843	.315				3.000	3.005	.310	S	6954S	44
72,00	72,20	8,00	V	*52X72X8V★	32	3.000	3.005	.375	V	2822V	41
2.835	2.843	.315				3.000	3.005	.375	S	*412012	41
72,00	72,28	8,00	S	225230★	35	3.000	3.005	.375	S	472012	47
2.835	2.846	.315				3.000	3.005	.375	S	*482012	48
72,00	72,28	8,00	S	*350858★	35	3.000	3.005	.437	N	412798N	41
2.835	2.846	.315				3.000	3.005	.500	S	*450302	45
72,00	72,28	8,00	N	710242★→	32	3.000	3.005	.500	H	*450302H	45
2.835	2.846	.315				3.000	3.005	.500	S	*480302	48
74,75	75,00	10,00	S	*52X75X10★	32	3.061	3.066	.500	S	450307	45
2.943	2.953	.394				3.061	3.066	.500	S	*480307	48
75,00	75,11	7,50	S	225275★	66	3.125	3.130	.500	S	450311	45
2.953	2.957	.295				3.125	3.130	.500	S	*480311	48
75,00	75,28	12,00	S	52X75X12★	32	3.151	3.156	.240	F	5756	29
2.953	2.964	.472				3.189	3.194	.375	S	*472928	47
77,00	78,00	9,00	S	710107★%	#	3.189	3.194	.437	S	450096	45
3.031	3.071	.354									
77,72	78,00	10,00	S	*52X78X10★	32						
3.060	3.071	.394									
78,00	78,28	9,00	N	225278★	35						
3.071	3.082	.354									

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use → Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-Bidirectional % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.062" (2-1/16") SHAFT (cont.)						2.125" (2-1/8") SHAFT (cont.)					
3.189	3.194	.437	H	*450096H	45	-	-	.781		99212	Redi-Sleeve
3.189	3.194	.437	S	*480096	48	2.561	2.565	.492	S	*474069	47
3.190	3.194	.437	S	416738	41	2.750	2.754	.375	S	473204	47
3.190	3.194	.437	H	*416738H	41	2.750	2.754	.375	N	*473204N	47
3.250	3.310	.500	S	80313%	200E	2.750	2.754	.500	H	*9933	Redi-Sleeve
3.251	3.256	.500	S	450313	45	2.750	2.754	.500	S	*411949	41
3.251	3.256	.500	S	*480313	48	2.750	2.754	.500	H	*411949H	41
3.350	3.355	.468	S	*450532	45	2.750	2.754	.500	N	*411949N	41
3.371	3.376	.468	S	450343	45	2.750	2.754	.500	S	*471949	47
3.371	3.376	.468	S	*480343	48	2.750	2.754	.500	H	*471949H	47
3.623	3.628	.468	S	455260	45	2.750	2.754	.500	N	*471949N	47
3.623	3.628	.468	S	*485260	48	2.750	2.754	.437	S	471950	47
2.065" SHAFT						2.758	2.762	.437	H	*471950H	47
3.130	3.130	.294	S	200865%	200E	2.758	2.762	.437	N	*471950N	47
53,00mm (2.087") SHAFT						2.835	2.839	.468	S	*410639	41
-	-	-	S	800500	VRS1	2.835	2.839	.468	S	450639	45
-	-	-	V	800504	VRS1	2.835	2.839	.468	S	*470639	47
-	-	-	V	800505	VRS2	2.835	2.839	.468	S	*480639	48
0,00	71,25	8,99	S	710522★	35	2.875	2.879	.250	S	40566S	4S
.000	2.805	.354	-	-	-	2.875	2.879	.250	S	*43000S	4S
67,95	68,20	7,00	S	*53X68.2X7★	32	2.875	2.879	.312	S	6626S	4S
2.675	2.685	.276	-	-	-	2.875	2.879	.375	V	470898V	45
68,00	68,28	10,00	S	53X68X10★	32	2.875	2.879	.375	H	6879H	33
2.677	2.688	.394	-	-	-	2.875	2.879	.375	H	*330867H	33
68,20	68,48	7,00	S	710175★	32	2.875	2.879	.375	N	*450898N	45
2.685	2.696	.276	-	-	-	2.875	2.879	.375	S	470898	47
69,00	69,11	10,30	F	*205009★	205	2.875	2.879	.375	A	470898A	47
2.717	2.721	.406	-	-	-	2.875	2.879	.375	N	*470898N	47
71,75	72,00	10,00	S	*53X72X10★	32	2.875	2.879	.375	S	*480898	48
2.825	2.835	.394	-	-	-	2.875	2.879	.437	T	39851◀	FW-H
72,75	73,00	10,00	S	*53X73X10★	32	2.875	2.879	.437	T	39853▶	FW-H
2.864	2.874	.394	-	-	-	2.875	2.879	.437	S	*410867	41
79,72	80,00	13,00	S	*53X80X13★	32	2.875	2.879	.437	N	410867N	41
3.139	3.150	.512	-	-	-	2.875	2.879	.437	V	*410867V	41
2.088" SHAFT						2.875	2.879	.437	S	450867	45
.000	2.777	.500	S	710506	86	2.875	2.879	.437	H	*450867H	45
.000	2.915	.500	S	710507	71	2.875	2.879	.437	N	*450867N	45
2.093" (2-3/32") SHAFT						2.875	2.879	.437	V	*450867V	45
-	-	-	S	800550	VRS1	2.875	2.879	.437	S	*470867	47
-	-	-	V	800554	VRS1	2.875	2.879	.437	H	*470867H	47
2.716	2.721	.359	S	*204078	204	2.875	2.879	.437	N	*470867N	47
2.716	2.721	.406	S	*204009	204	2.875	2.879	.437	S	*480867	48
2.716	2.721	.406	S	6590S	204	2.875	2.879	.437	N	*480867N	48
2.716	2.725	.250	S	340900	34	2.875	2.879	.468	S	*410365	41
2.750	2.754	.250	S	41013S	4S	2.875	2.879	.468	S	450365	45
2.835	2.839	.250	S	*40627S	4S	2.875	2.879	.468	N	450365N	45
3.148	3.153	.250	S	*43070S	4S	2.875	2.879	.468	V	*450365V	45
3.150	3.156	.250	S	40973S	4S	2.875	2.879	.468	S	*470365	47
2.116" SHAFT						2.875	2.879	.468	S	*480365	48
-	-	-	S	800550	VRS1	2.875	2.879	.500	S	*452612	45
-	-	-	V	800554	VRS1	2.875	2.879	.500	S	*482612	48
3.189	3.194	.468	H	*472236H	47	2.875	2.879	.625	L	30365	3L
2.121" SHAFT						2.878	2.882	.375	S	453066	45
3.296	3.296	.460	S	*9434%	46	2.878	2.884	.437	S	9599S▶	47
2.125" (2-1/8") SHAFT						2.880	2.885	.550	N	2457◀	#
-	-	-	S	800550	VRS1	2.996	3.001	.375	S	473467	47
-	-	-	V	800554	VRS1	2.996	3.001	.500	S	*410115	41
-	-	.500		99210	Redi-Sleeve	2.996	3.001	.500	N	*410115N	41
3.000	3.005	.312	S	8430S	49	2.996	3.001	.500	S	450115	45
3.000	3.005	.375	V	412015V	41	2.996	3.001	.500	N	*450115N	45
3.000	3.005	.375	S	472015	47	2.996	3.001	.500	S	*470115	47
3.000	3.005	.375	N	*472015N	47	2.996	3.001	.500	S	*480115	48
3.000	3.005	.375	V	472015V	47	2.996	3.001	.687	S	8650S	1L
3.000	3.005	.375	S	*482015	48	3.000	3.005	.312	S	8430S	49
3.000	3.005	.375	H	*482015H	48	3.000	3.005	.375	V	412015V	41

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.125" (2-1/8") SHAFT (cont.)					
3.000	3.005	.375	N	*482015N	48
3.000	3.005	.375	V	*482015V	48
3.000	3.005	.500	S	*410303	41
3.000	3.005	.500	N	*410303N	41
3.000	3.005	.500	S	450303	45
3.000	3.005	.500	N	*450303N	45
3.000	3.005	.500	V	*450303V	45
3.000	3.005	.500	S	*470303	47
3.000	3.005	.500	N	*470303N	47
3.000	3.005	.500	V	*470303V	47
3.000	3.005	.500	S	480303	48
3.000	3.005	.500	V	*480303V	48
3.061	3.066	.375	S	473468	47
3.061	3.066	.500	S	410308	41
3.061	3.066	.500	S	450308	45
3.061	3.066	.500	S	*470308	47
3.061	3.066	.500	N	470308N	47
3.061	3.066	.500	S	*480308	48
3.061	3.066	.687	L	30308	3L
3.063	3.068	.370	N	*710021	7S
3.125	3.130	.375	S	*412016	41
3.125	3.130	.375	N	*412016N	41
3.125	3.130	.375	S	472016	47
3.125	3.130	.375	S	*482016	48
3.125	3.130	.500	S	*2523	41
3.125	3.130	.500	S	*410312	41
3.125	3.130	.500	N	410312N	41
3.125	3.130	.500	S	450312	45
3.125	3.130	.500	N	*450312N	45
3.125	3.130	.500	S	*470312	47
3.125	3.130	.500	N	*470312N	47
3.125	3.130	.500	S	*480312	48
3.125	3.130	.500	N	*480312N	48
3.125	3.130	.593	S	*7951	41
3.126	3.131	.484	F	6389	29
3.146	3.153	.500	F	8243	#
3.149	3.154	.375	S	476535	47
3.149	3.154	.375	N	*476535N	47
3.180	3.184	.781	S	*6180	#
3.189	3.194	.375	S	472409	47
3.189	3.194	.375	N	*472409N	47
3.189	3.194	.375	V	*472409V	47
3.189	3.194	.437	T	39302➔	W-H
3.189	3.194	.437	T	39717➔	WW-H
3.189	3.194	.437	T	39719◀	WW-H
3.189	3.194	.437	S	*410121	41
3.189	3.194	.437	V	*410121V	41
3.189	3.194	.437	S	450121	45
3.189	3.194	.437	N	*450121N	45
3.189	3.194	.437	V	*450121V	45
3.189	3.194	.437	S	*470121	47
3.189	3.194	.437	S	*480121	48
3.189	3.194	.468	H	*2439	47
3.193	3.198	.812	H	7790H	#
3.251	3.256	.375	S	473243	47
3.251	3.256	.375	S	*483243	48
3.251	3.256	.437	S	*412032	41
3.251	3.256	.437	S	*452032	45
3.251	3.256	.500	S	*410314	41
3.251	3.256	.500	S	*450314	45
3.251	3.256	.500	S	*470314	47
3.251	3.256	.500	N	*470314N	47
3.251	3.256	.500	S	*480314	48
3.350	3.355	.250	S	*40097S	4S
3.350	3.355	.375	S	413469	41
3.350	3.355	.375	S	*473469	47
3.350	3.355	.468	S	*50097	5S
3.350	3.355	.468	S	*410097	41
3.350	3.355	.468	N	*410097N	41
3.350	3.355	.468	V	*410097V◀	41
3.350	3.355	.468	S	*450097	45
3.350	3.355	.468	S	*480097	48

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.125" (2-1/8") SHAFT (cont.)					
3.350	3.355	.500	S	*456861	45
3.350	3.356	1.250	S	*483815	48
3.371	3.376	.312	S	440972	44
3.371	3.376	.375	V	413470V	41
3.371	3.376	.375	S	413470	41
3.371	3.376	.468	S	*410972	41
3.371	3.376	.468	N	410972N	41
3.371	3.376	.468	S	*450972	45
3.371	3.376	.468	S	*470972	47
3.371	3.376	.468	S	*480972	48
3.436	3.440	.625	F	6380	29
3.500	3.505	.375	S	416267	41
3.500	3.505	.375	S	*476267	47
3.500	3.505	.500	S	*415659	41
3.500	3.505	.500	S	*456659	45
3.500	3.505	.500	S	*475659	47
3.500	3.505	.500	S	*485659	48
3.501	3.505	.375	S	*456267	45
3.501	3.505	.375	S	*486267	48
3.543	3.548	.320	S	*200346	200
3.543	3.548	.500	S	415349	41
3.543	3.548	.500	N	*415349N	41
3.543	3.548	.500	V	*415349V	41
3.547	3.557	.375	S	*355737	35
3.623	3.628	.468	S	*415080	41
3.623	3.628	.468	S	455080	45
3.623	3.628	.468	N	475080N	47
3.937	3.942	.375	S	*476808	47
54,00mm (2.126") SHAFT					
-	-	-	S	800550	VRS1
-	-	-	V	800554	VRS1
-	-	.500		99210	Redi-Sleeve
-	-	.781		99212	Redi-Sleeve
63,75	64,00	9,00	S	*54X64X9★	32
2,510	2,520	.354			
64,75	65,00	10,00	S	*54X65X10★	32
2,549	2,559	.394			
64,75	65,00	13,00	S	*54X65X13★	32
2,549	2,559	.512			
65,00	65,20	8,00	S	54X65X8★	32
2,559	2,567	.315			
65,00	65,28	12,50	S	2002★	47
2,559	2,570	.492			
66,00	66,23	7,50	S	225410★	#
2,598	2,607	.295			
67,75	68,00	10,00	S	*54X68X10★	32
2,667	2,677	.394			
69,00	69,23	7,00	N	710239★	40
2,717	2,726	.276			
69,75	70,00	9,00	S	*54X70X9★	32
2,746	2,756	.354			
72,00	72,25	10,00	S	54X72X10★	32
2,835	2,844	.394			
72,00	72,25	10,00	S	225420★	32
2,835	2,844	.394			
72,25	72,50	9,00	S	*54X72.5X9★	32
2,844	2,854	.354			
73,00	73,20	8,00	S	54X73X8★	32
2,874	2,882	.315			
73,00	73,40	12,75	T	712125★➔	FW-H
2,874	2,890	.502			
73,75	74,00	10,00	S	*54X74X10★	32
2,903	2,913	.394			
74,75	75,00	10,00	S	*54X75X10★	32
2,943	2,953	.394			
75,18	75,48	17,00	S	710073★	#
2,960	2,972	.669			
75,75	76,00	8,00	S	*54X76X8★	32
2,982	2,992	.315			

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CW
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
54,00mm (2.126") SHAFT (cont.)						55,00mm (2.165") SHAFT (cont.)					
76,00	76,20	14,00	S	710438★	#	64,75	65,00	8,00	S	*55X65X8★	32
2.992	3.000	.551				2.549	2.559	.315			
79,72	80,00	10,00	S	*54X80X10★	32	64,75	65,00	10,00	S	*55X65X10★	32
3.139	3.150	.394				2.549	2.559	.394			
80,72	81,00	10,00	S	*54X81X10★	32	67,75	68,00	10,00	S	*55X68X10★	32
3.178	3.189	.394				2.667	2.677	.394			
81,00	81,20	8,00	S	*54X81X8★	32	68,00	68,20	8,00	S	710127★	#
3.189	3.197	.315				2.677	2.685	.315			
81,72	82,00	11,00	S	*54X82X11★	32	68,00	68,28	8,00	S	55X68X8★	32
3.217	3.228	.433				2.677	2.688	.315			
81,99	82,17	8,00	S	710203★	66	68,00	68,30	8,00	S	225500★	32
3.228	3.235	.315				2.677	2.689	.315			
82,00	82,30	10,00	S	225450★	32	68,53	68,91	4,11	S	*9471★	#
3.228	3.240	.394				2.698	2.713	.162			
82,00	82,35	10,00	S	54X82X10★	32	69,75	70,00	9,00	S	*55X70X9★	32
3.228	3.242	.394				2.746	2.756	.354			
85,00	85,25	10,00	S	225460★	32	69,75	70,00	10,00	S	*55X70X10★	32
3.346	3.356	.394				2.746	2.756	.394			
85,00	85,28	10,00	S	54X85X10★	32	69,75	70,00	12,00	S	*55X70X12★	32
3.346	3.357	.394				2.746	2.756	.472			
2.129" SHAFT						2.165" SHAFT					
-	-	-	S	800550	VRS1	70,00	70,10	10,26	S	3723★	66
-	-	-	V	800554	VRS1	2.756	2.760	.404			
-	-	.781		99212	Redi-Sleeve	70,00	70,20	8,00	V	*55X70X8V★	32
2.762	2.766	.250	N	*6957	48	2.756	2.764	.315			
2.835	2.846	.323	T	100470	#	70,00	70,20	8,00	V	710279★	32
2.891	2.895	.250	S	42101S	4S	2.756	2.764	.315			
2.136" SHAFT						2.165" SHAFT					
-	-	-	S	800550	VRS1	70,00	70,27	8,00	S	55X70X8★	35
-	-	-	V	800554	VRS1	2.756	2.767	.315			
2.902	2.909	.310	S	8312&	272	70,00	70,27	9,00	S	225505★	32
2.141" SHAFT						2.165" SHAFT					
-	-	-	S	800550	VRS1	2.756	2.767	.394			
-	-	-	V	800554	VRS1	71,75	72,00	9,00	S	*55X72X9★	32
3.484	3.493	.329	V	4635V	#	2.825	2.835	.354			
3.484	3.493	.329	H	*4635H➔	#	71,75	72,00	10,00	S	*55X72X10★	32
3.484	3.493	.622	H	4635	#	2.825	2.835	.394			
54,50mm (2.146") SHAFT						2.165" SHAFT					
69,75	70,00	8,00	S	*54.5X70X8★	32	71,75	72,00	12,00	S	*55X72X12★	32
2.746	2.756	.315				2.825	2.835	.472			
2.156" (2-5/32") SHAFT						2.165" SHAFT					
-	-	-	S	800550	VRS1	72,00	72,20	8,00	V	*55X72X8V★	32
-	-	-	V	800554	VRS1	2.835	2.843	.315			
2.875	2.879	.375	H	*482513H	48	72,00	72,20	10,50	S	225535★	32
2.880	2.885	.375	T	100058➔	W	2.835	2.843	.413			
3.189	3.194	.437	S	450621	45	72,00	72,25	8,00	S	225530★	35
3.189	3.194	.437	N	*450621N	45	2.835	2.844	.315			
3.251	3.256	.500	S	450869	45	72,00	72,25	8,00	S	55X72X8★	32
2.162" SHAFT						2.165" SHAFT					
-	-	-	S	800550	VRS1	2.835	2.844	.315			
-	-	-	V	800554	VRS1	72,75	73,00	10,00	S	*55X73X10★	32
-	-	.787		99215	Redi-Sleeve	2.864	2.874	.394			
3.543	3.548	.375	S	*476513	47	74,00	74,10	9,20	S	1207N★	49
55,00mm (2.165") SHAFT						2.165" SHAFT					
-	-	-	S	800550	VRS1	2.913	2.917	.362			
-	-	-	V	800554	VRS1	74,00	74,28	9,20	S	1207★	49
-	-	.787		99215	Redi-Sleeve	2.913	2.924	.362			
						74,75	75,00	9,00	S	*55X75X9★	32
						2.943	2.953	.354			
						74,75	75,00	12,00	S	*55X75X12★	32
						2.943	2.953	.472			
						75,00	0,00	10,00	N	225885★	32
						2.953	.000	.394			
						75,00	75,20	7,00	S	55X100X7★	32
						2.953	2.961	.276			
						75,00	75,20	8,00	S	55X75X8★	35
						2.953	2.961	.315			
						75,00	75,20	10,00	V	*55X75X10V★	35
						2.953	2.961	.394			
						75,00	75,35	10,00	S	55X75X10★	35
						2.953	2.967	.394			
						75,00	75,35	10,00	S	225545★	35
						2.953	2.967	.394			
						75,75	76,00	12,00	S	*55X76X12★	32
						2.982	2.992	.472			
						77,72	78,00	9,00	S	*55X78X9★	32
						3.060	3.071	.354			
						77,72	78,00	12,00	S	*55X78X12★	32
						3.060	3.071	.472			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
55,00mm (2.165") SHAFT (cont.)						2.187" (2-3/16") SHAFT (cont.)					
78,00	78,28	10,00	S	55X78X10★	32	2.835	2.839	.468	S	471952	47
3.071	3.082	.394				2.835	2.839	.468	S	*481952	48
79,72	80,00	10,00	S	*55X80X10★	32	2.875	2.879	.375	S	*413244	41
3.139	3.150	.394				2.875	2.879	.375	N	*413244N	41
79,72	80,00	12,00	S	*55X80X12★	32	2.875	2.879	.375	S	*453244	45
3.139	3.150	.472				2.875	2.879	.375	S	473244	47
80,00	80,20	8,00	V	*55X80X8V★	35	2.875	2.879	.375	S	*483244	48
3.150	3.157	.315				2.875	2.879	.437	S	*411953	41
80,00	80,28	8,00	S	55X80X8★	32	2.875	2.879	.437	N	*411953N	41
3.150	3.161	.315				2.875	2.879	.437	S	*451953	45
81,72	82,00	9,00	S	*55X82X9★	32	2.875	2.879	.437	S	*471953	47
3.217	3.228	.354				2.875	2.879	.437	S	*481953	48
82,00	82,30	12,00	S	55X82X12★	32	2.875	2.879	.468	S	*410489	41
3.228	3.240	.472				2.875	2.879	.468	S	*450489	45
82,00	82,30	10,00	S	1958★	35	2.875	2.879	.468	S	*470489	47
3.228	3.240	.472				2.875	2.879	.468	S	*480489	48
84,72	85,00	12,00	S	*55X85X12★	32	2.875	2.883	.500	S	*712136	32
3.335	3.346	.472				2.996	3.001	.375	S	472234	47
84,72	85,00	14,00	S	*55X85X14★	32	2.996	3.001	.437	S	*412017	41
3.335	3.346	.551				2.996	3.001	.437	S	*452017	45
85,00	85,20	8,00	S	55X85X8★	32	2.996	3.001	.437	S	*472017	47
3.346	3.354	.315				2.996	3.001	.437	S	*482017	48
85,00	85,31	10,00	S	55X85X10★	32	2.996	3.001	.500	S	*410139	41
3.346	3.359	.394				2.996	3.001	.500	S	*450139	45
88,00	88,20	8,00	S	55X88X8★↔	32	2.996	3.001	.500	S	*470139	47
3.465	3.472	.315				2.996	3.001	.500	S	*480139	48
88,00	88,20	8,00	S	*55X88X10★	32	3.000	3.005	.375	S	*412018	41
3.465	3.472	.315				3.000	3.005	.375	S	*452018	45
89,72	90,00	8,00	S	*55X90X8★	32	3.000	3.005	.375	S	472018	47
3.532	3.543	.315				3.000	3.005	.375	N	*472018N	47
89,72	90,00	10,00	S	*55X90X10★	32	3.000	3.005	.375	V	*472018V	47
3.532	3.543	.394				3.000	3.005	.375	S	*482018	48
90,00	90,27	8,00	S	55X90X8★	32	3.000	3.005	.437	S	*450718	45
3.543	3.554	.315				3.000	3.005	.500	S	*411338	41
90,00	90,28	13,00	S	55X90X13★	32	3.000	3.005	.500	S	*451338	45
3.543	3.554	.512				3.000	3.005	.500	S	*471338	47
95,00	95,20	8,00	S	*55X95X8★	32	3.000	3.005	.500	S	*481338	48
3.740	3.748	.315				3.062	3.066	.375	S	473471	47
99,72	100,00	10,00	S	*55X100X10★	32	3.062	3.066	.500	S	*412019	41
3.926	3.937	.394				3.062	3.066	.500	S	*452019	45
99,72	100,00	12,00	S	*55X100X12★	32	3.062	3.066	.500	S	*472019	47
3.926	3.937	.472				3.062	3.066	.500	S	*482019	48
100,00	100,30	12,70	S	55X100X13★	45	3.125	3.130	.375	S	*412020	41
3.937	3.949	.500				3.125	3.130	.375	S	*452020	45
101,68	101,80	11,10	V	*477674V★	47	3.125	3.130	.375	S	*472020	47
4.003	4.008	.437				3.125	3.130	.375	S	*482020	48
2.172" SHAFT						3.125	3.130	.500	S	*410681	41
-	-	-	S	800550	VRS1	3.125	3.130	.500	S	*450681	45
-	-	-	V	800554	VRS1	3.125	3.130	.500	N	*450681N	45
2.426	3.000	.485	S	*9195S	#	3.125	3.130	.500	S	*470681	47
3.125	3.130	.675	N	710413	#	3.125	3.130	.500	S	*480681	48
3.345	3.350	.500	S	*482435	48	3.187	3.194	.687	S	6636S	35
2.180" SHAFT						3.189	3.194	.375	S	*472940	47
-	-	-	S	800550	VRS1	3.189	3.194	.437	S	*410354	41
-	-	-	V	800554	VRS1	3.189	3.194	.437	S	*450354	45
2.999	3.004	.250	S	4740	282	3.189	3.194	.437	S	470354	47
3.000	3.005	.495	S	8974S	49	3.189	3.194	.437	S	*480354	48
3.190	3.194	.620	S	3103↔	69	3.190	3.195	.625	S	*474007	47
3.190	3.194	.620	V	713103↔	69	3.251	3.256	.375	S	*413245	41
2.187" (2-3/16") SHAFT						3.251	3.256	.375	S	*453245	45
-	-	-	S	800550	VRS1	3.251	3.256	.375	S	473245	47
-	-	-	V	800554	VRS1	3.251	3.256	.375	S	*483245	48
-	-	.781		99218	Redi-Sleeve	3.251	3.256	.500	S	*410315	41
2.835	2.839	.281	S	*42127S	4S	3.251	3.256	.500	N	*410315N	41
2.835	2.839	.468	S	*411952	41	3.251	3.256	.500	S	*450315	45
2.835	2.839	.468	S	*451952	45	3.251	3.256	.500	S	*470315	47
						3.251	3.256	.500	S	*480315	48
						3.350	3.355	.375	S	412943	41
						3.350	3.355	.468	S	*410098	41
						3.350	3.355	.468	S	*450098	45
						3.350	3.355	.468	S	*470098	47

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ↗ Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-Bidirectional
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.187" (2-3/16") SHAFT (cont.)						56,00mm (2.205") SHAFT (cont.)					
3.350	3.355	.468	S	*480098	48	71,75	72,00	9,00	S	*56X72X9★	32
3.350	3.355	.500	S	*452604	45	2.825	2.835	.354			
3.371	3.376	.375	S	*413472	41	72,00	72,20	7,00	S	56X72X7★	32
3.371	3.376	.468	S	*412035	41	2.835	2.843	.276			
3.371	3.376	.468	S	*452035	45	72,00	72,20	8,00	S	710393★	#
3.371	3.376	.468	S	*472035	47	2.835	2.843	.315			
3.371	3.376	.468	S	*482035	48	72,00	72,27	12,50	S	225227★	#
3.500	3.505	.375	S	*416268	41	2.835	2.845	.492			
3.500	3.505	.375	S	*476268	47	72,00	72,29	11,50	S	225650★◀▶	32
3.500	3.505	.375	S	*486268	48	2.835	2.846	.453			
3.500	3.505	.500	S	*415636	41	72,00	72,40	11,50	S	56X72X11.5★	35
3.500	3.505	.500	S	*455636	45	2.835	2.850	.453			
3.500	3.505	.500	S	*475636	47	72,00	72,40	11,50	S	56X72X11.5★	35
3.500	3.505	.500	S	*485636	48	2.835	2.850	.453			
3.543	3.548	.500	S	*416269	41	72,75	73,00	10,00	S	*56X73X10★	32
3.543	3.548	.500	S	*456269	45	2.864	2.874	.394			
3.623	3.628	.468	S	*415350	41	73,00	73,23	7,50	S	225673★	#
3.623	3.628	.468	S	*455350	45	2.874	2.883	.295			
3.623	3.628	.468	S	*475350	47	73,00	73,23	22,00	S	712938★	#
3.623	3.628	.468	S	*485350	48	2.874	2.883	.866			
4.420	4.520	.687	S	*6309	39	73,00	73,28	12,50	S	1993★	47
5.118	5.124	.375	S	476511	47	2.874	2.885	.492			
2.192" SHAFT						56,00mm (2.205") SHAFT (cont.)					
-	-	-	S	800550	VRS1	74,00	74,14	8,50	S	710176★	87
-	-	-	V	800554	VRS1	2.913	2.919	.335			
-	-	.781		*99218	Redi-Sleeve	74,00	74,20	8,00	S	710125★	#
-	3.437	.703	S	*6922	#	2.913	2.921	.315			
2.200" SHAFT						56,00mm (2.205") SHAFT (cont.)					
-	-	-	S	800550	VRS1	75,00	75,13	6,50	S	4899★	66
-	-	-	V	800554	VRS1	2.953	2.958	.256			
-	-	.500		*99220	Redi-Sleeve	75,00	75,20	7,00	S	56X75X7★	32
2.804	-	.300	N	710171	#	2.953	2.961	.276			
3.022	3.028	.422	N	4741◀	#	75,00	75,33	8,00	S	225775★	#
2.201" SHAFT						56,00mm (2.205") SHAFT (cont.)					
-	-	-	S	800550	VRS1	2.953	2.966	.315			
-	-	-	V	800554	VRS1	75,75	76,00	8,00	S	*56X76X8★	32
-	-	.500		*99220	Redi-Sleeve	2.982	2.992	.315			
2.735	2.741	.197	S	3553&	284	76,00	76,12	12,30	S	710108★	66
2.735	2.741	.197	S	*3948	#	2.992	2.997	.484			
2.830	2.836	.450	S	710069&	#	76,00	76,15	11,50	S	*4905★	72
3.519	3.523	.590	S	2286	74	2.992	2.998	.453			
56,00mm (2.205") SHAFT						56,00mm (2.205") SHAFT (cont.)					
-	-	-	S	800550	VRS1	76,00	76,15	11,50	S	710146★	72
-	-	-	V	800554	VRS1	2.992	2.998	.453			
-	-	.500		*99220	Redi-Sleeve	78,00	78,20	8,00	S	*56X78X8★	32
66,00	66,20	17,00	S	710382★	#	3.071	3.079	.315			
2.598	2.606	.669				78,00	78,28	7,50	S	225678★	#
67,00	67,20	6,00	S	710169★	#	3.071	3.082	.295			
2.638	2.646	.236				79,72	80,00	10,00	S	*56X80X10★	32
68,00	68,12	10,00	N	56X68X10★	32	3.139	3.150	.394			
2.677	2.682	.394				79,72	80,00	13,00	S	*56X80X13★	32
68,00	68,28	10,00	S	1932★	49	3.139	3.150	.512			
2.677	2.688	.394				80,00	80,28	8,00	S	56X80X8★	32
69,75	70,00	9,00	S	*56X70X9★	32	3.150	3.161	.315			
2.746	2.756	.354				82,00	82,20	8,00	S	56X82X8★	32
70,00	70,20	8,00	S	56X70X8★	35	3.228	3.236	.315			
2.756	2.764	.315				84,72	85,00	10,00	S	*56X85X10★	32
70,00	70,20	8,00	V	*56X70X8V★	35	3.335	3.346	.394			
2.756	2.764	.315				85,00	85,28	8,00	S	56X85X8★	35
71,75	72,00	8,00	S	*56X72X8★	32	3.346	3.357	.315			
2.825	2.835	.315				88,00	88,20	8,00	S	56X88X8★	32
2.218" (2-7/32") SHAFT						56,00mm (2.205") SHAFT (cont.)					
-	-	-	S	800550	VRS1	3.465	3.472	.315			
-	-	-	V	800554	VRS1	90,00	90,20	8,00	S	56X90X8★	32
3.350	3.355	.468	L	50631	5L	3.543	3.551	.315			
2.222" SHAFT						56,00mm (2.205") SHAFT (cont.)					
-	-	-	S	800550	VRS1	122,00	122,25	8,00	S	710086★	#

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW ▶ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.222" SHAFT (cont.)						2.250" (2-1/4") SHAFT (cont.)					
-	-	-	V	800554	VRS1	2.675	2.733	.539	S	722109	VRS1
3.543	3.548	.760	H	7568	#	2.750	-	.250	U	710026	#
2.231" SHAFT											
-	-	-	S	800550	VRS1	2.750	-	.375	U	710041	#
-	-	-	V	800554	VRS1	2.873	2.877	.312	S	*481336	48
-	-	.500		*99229	Redi-Sleeve	2.875	2.879	.250	S	43034S	4S
-	-	.781		99230	Redi-Sleeve	2.875	2.879	.500	S	*453613	45
3.017	2.974	.070	S	*8730	#	2.987	2.991	.500	S	*411452	41
3.371	3.376	.812	S	*392076	#	2.996	3.001	.437	S	*411341	41
2.240" SHAFT											
-	-	-	S	800550	VRS1	2.996	3.001	.437	N	*411341N	41
-	-	-	V	800554	VRS1	2.996	3.001	.437	S	*451341	45
-	-	.764		99226	Redi-Sleeve	2.996	3.001	.437	H	*451341H	45
3.190	3.194	.450	S	3095➔	69	2.996	3.001	.437	S	*471341	47
57,00mm (2.244") SHAFT											
-	-	-	S	800550	VRS1	2.996	3.001	.437	H	*471341H	47
-	-	-	V	800554	VRS1	2.996	3.001	.437	N	471341N	47
57,12	82,55	7,47	S	*7068★%	200E	2.996	3.001	.500	S	*410441	41
2.249	3.250	.294				2.996	3.001	.500	N	*410441N	41
66,75	67,00	6,00	S	*57X67X6★	32	2.996	3.001	.500	S	450441	45
2.628	2.638	.236				2.996	3.001	.500	N	*450441N	45
67,00	67,11	6,00	S	1984★	25	2.996	3.001	.500	N	*450441N	45
2.638	2.642	.236				2.996	3.001	.500	S	*470441	47
67,00	67,11	6,00	S	*253752★	25	2.996	3.001	.500	V	*470441V	47
2.638	2.642	.236				2.996	3.001	.500	S	*480441	48
72,00	72,25	8,40	S	1964★	47	3.000	3.005	.250	S	40520S	4S
2.835	2.844	.331				3.000	3.005	.375	S	*411272	41
74,75	75,00	12,00	S	*57X75X12★	32	3.000	3.005	.375	S	*451272	45
2.943	2.953	.472				3.000	3.005	.375	S	*471272	47
77,00	77,20	8,00	S	710129★	#	3.000	3.005	.375	H	*471272H	47
3.031	3.039	.315				3.000	3.005	.375	N	471272N	47
79,00	79,28	13,50	S	710072★	#	3.000	3.005	.375	V	471272V	47
3.110	3.121	.531				3.000	3.005	.375	N	*481272N	48
79,00	79,28	14,98	S	710074★	#	3.000	3.005	.375	V	712250	47
3.110	3.121	.590				3.000	3.005	.438	V	483323V	48
79,72	80,00	12,00	S	*57X80X12★	32	3.000	3.005	.500	S	410520	41
3.139	3.150	.472				3.000	3.005	.500	N	*410520N	41
80,00	80,10	8,00	S	710225★	#	3.000	3.005	.500	S	*450520	45
3.150	3.154	.315				3.000	3.005	.500	N	*450520N	45
81,00	81,10	9,00	S	1928★	47	3.000	3.005	.500	S	*470520	47
3.189	3.193	.354				3.000	3.005	.500	N	*470520N	47
81,00	81,20	8,00	S	*57X81X8★	32	3.000	3.005	.500	S	*480520	48
3.189	3.197	.315				3.000	3.060	.290	S	*200940%	200E
82,22	82,50	10,00	S	*57X82.5X10★	32	3.035	3.044	.375	S	352637	35
3.237	3.248	.394				3.061	3.066	.375	S	*473473	47
84,72	85,00	10,00	S	*57X85X10★	32	3.061	3.066	.437	F	*6082	29
3.335	3.346	.394				3.061	3.066	.500	N	7937N	41
84,72	85,00	12,00	S	*57X85X12★	32	3.061	3.066	.500	S	*411234	41
3.335	3.346	.472				3.061	3.066	.500	N	*411234N	41
84,72	85,00	15,00	S	*57X85X15★	32	3.061	3.066	.500	S	*451234	45
3.335	3.346	.591				3.061	3.066	.500	S	*481234	48
85,00	85,20	13,00	S	57X85X13★	32	3.125	3.130	.250	S	40433S	4S
3.346	3.354	.512				3.125	3.130	.375	S	*411138	41
92,00	92,20	8,00	S	*57X92X8★	32	3.125	3.130	.375	S	*451138	45
3.622	3.630	.315				3.125	3.130	.375	S	*471138	47
2.250" (2-1/4") SHAFT											
-	-	-	S	800550	VRS1	3.125	3.130	.375	S	*481138	48
-	-	-	V	800554	VRS1	3.125	3.130	.375	H	*481138H	48
-	-	.313		99227	Redi-Sleeve	3.125	3.130	.375	N	*481138N	48
-	-	.781		99225	Redi-Sleeve	3.125	3.130	.500	S	*410433	41
-	2.840	.500	S	710045	VRS1	3.125	3.130	.500	S	*450433	45
2.625	2.636	.187	S	341022	34	3.125	3.130	.500	N	*450433N	45

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

SIZE SECTION

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
2.250" (2-1/4") SHAFT (cont.)						2.254" SHAFT					
3.251	3.256	.375	S	*452636	45	2.756	2.763	.340	V	481191V	48
3.251	3.256	.375	S	*472636	47	2.255" SHAFT					
3.251	3.256	.375	V	*472636V	47	-	-	-	S	800550	VRS1
3.251	3.256	.375	S	*482636	48	-	-	-	V	800554	VRS1
3.251	3.256	.437	S	*410614	41	-	-	.313		99227	Redi-Sleeve
3.251	3.256	.437	N	*410614N	41	-	-	.781		99225	Redi-Sleeve
3.251	3.256	.437	S	*450614	45	3.312	3.317	.380	S	44052	4S
3.251	3.256	.500	S	410316	41	2.258" SHAFT					
3.251	3.256	.500	H	*410316H	41	-	-	-	S	800550	VRS1
3.251	3.256	.500	N	410316N	41	-	-	-	V	800554	VRS1
3.251	3.256	.500	S	450316	45	3.906	3.950	.250	S	*8754S	#
3.251	3.256	.500	H	*450316H	45	2.272" SHAFT					
3.251	3.256	.500	N	*450316N	45	-	-	-	S	800550	VRS1
3.251	3.256	.500	S	*470316	47	-	-	-	V	800554	VRS1
3.251	3.256	.500	S	*480316	48	2.654	2.661	.250	T	39821	W
3.251	3.256	.500	S	*480316N	48	58,00mm (2.283") SHAFT					
3.252	3.260	.551	N	712512◄	#	-	-	-	S	800550	VRS1
3.264	3.269	.312	F	*292100	29	-	-	-	V	800554	VRS1
3.350	3.355	.250	S	*42289	4S	67,75	68,00	9,00	S	*58X68X9★	32
3.350	3.355	.312	N	454136N	45	2.667	2.677	.354			
3.350	3.355	.375	S	*411253	41	69,75	70,00	7,00	S	*58X70X7★	32
3.350	3.355	.468	L	*50099	5L	2.746	2.756	.276			
3.350	3.355	.468	S	*50099S	5S	69,75	70,00	11,00	S	*58X70X11★	32
3.350	3.355	.468	S	*410099	41	2.746	2.756	.433			
3.350	3.355	.468	N	*410099N	41	71,75	72,00	9,00	S	*58X72X9★	32
3.350	3.355	.468	S	450099	45	2.825	2.835	.354			
3.350	3.355	.468	S	*480099	48	71,75	72,00	10,00	S	*58X72X10★	32
3.350	3.355	.500	S	*456622	45	2.825	2.835	.394			
3.371	3.376	.375	S	*412920	41	72,00	72,18	8,00	S	225872★	33
3.371	3.376	.375	V	*412920V	41	2.835	2.842	.315			
3.371	3.376	.375	S	442109	44	72,00	72,20	8,00	V	*58X72X8V★	35
3.371	3.376	.375	S	*452920	45	2.835	2.843	.315			
3.371	3.376	.375	S	*472920	47	72,00	72,28	8,00	S	58X72X8★	32
3.371	3.376	.375	S	*482920	48	2.835	2.846	.315			
3.371	3.376	.468	S	*410132	41	73,00	73,10	8,50	S	710439★	#
3.371	3.376	.468	S	450132	45	2.874	2.878	.335			
3.371	3.376	.468	S	*470132	47	73,75	74,00	10,00	S	*58X74X10★	32
3.371	3.376	.468	S	*480132	48	2.903	2.913	.394			
3.371	3.376	.468	N	*480132N	48	74,00	74,12	13,00	N	225874★	101
3.371	3.376	.500	S	*442270	44	2.913	2.918	.512			
3.371	3.376	.500	S	*370219A	12	74,00	74,20	10,00	S	710271★◄	32
3.400	3.700	.280	S	200929%	200E	2.913	2.921	.394			
3.443	3.447	.250	S	41075S	4S	74,75	75,00	9,00	S	*58X75X9★	32
3.481	3.486	.500	S	455136	45	2.943	2.953	.354			
3.500	3.505	.250	S	*42587S	4S	74,75	75,00	10,00	S	*58X75X10★	32
3.500	3.505	.375	S	*411376	41	74,75	75,00	12,00	S	*58X75X12★	32
3.500	3.505	.375	S	*471376	47	2.943	2.953	.394			
3.500	3.505	.500	S	*415093	41	74,75	75,00	7,00	S	58X75X7★	32
3.500	3.505	.500	N	*415093N	41	75,00	75,26	7,00	S	58X75X7★	32
3.500	3.505	.500	S	455093	45	2.953	2.963	.276			
3.500	3.505	.500	S	*475093	47	75,00	75,28	11,00	S	58X75X11★	35
3.500	3.505	.500	S	*485093	48	2.953	2.964	.433			
3.543	3.548	.500	S	*416270	41	75,00	75,28	11,00	S	225875★	32
3.623	3.628	.468	S	*415234	41	2.953	2.964	.433			
3.623	3.628	.468	S	*455234	45	76,00	76,10	6,50	S	710183★	66
3.623	3.628	.468	S	*475234	47	2.992	2.996	.256			
3.623	3.628	.468	N	475234N	47	76,00	76,23	7,80	S	710230★	#
3.623	3.628	.468	S	*485234	48	2.992	3.001	.307			
3.623	3.628	.500	S	*456792	45	77,00	77,28	8,50	N	225877★	35
3.751	3.756	.500	S	*415259	41	3.031	3.043	.335			
3.751	3.756	.500	S	*455259	45						
3.751	3.756	.500	S	*475259	47						
3.751	3.756	.500	S	*485259	48						
3.876	3.881	.468	L	55337	5L						
4.003	4.008	.468	S	*415254	41						
4.003	4.008	.468	S	*455254	45						
4.003	4.008	.468	S	*475254	47						
4.010	4.015	.843	L	*5921	1L						
4.064	4.069	1.092	N	*4036N	90						
4.064	4.069	1.092	N	722250	90						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◄ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
58,00mm (2.283") SHAFT (cont.)						2.312" (2-5/16") SHAFT (cont.)					
77,72	78,00	9,00	S	* 58X78X9★	32	3.125	3.130	.375	N	* 472150N	47
3.060	3.071	.354				3.125	3.130	.375	V	* 472150V	47
77,72	78,00	12,00	S	* 58X78X12★	32	3.125	3.130	.500	S	* 410551	41
3.060	3.071	.472				3.125	3.130	.500	S	* 450551	45
78,00	78,20	8,00	S	* 58X78X8★	32	3.125	3.135	.375	S	* 712145	35
3.071	3.079	.315				3.251	3.256	.375	S	* 411394	41
78,00	78,20	10,00	S	710144★◄	#	3.251	3.256	.375	S	* 471394	47
3.071	3.079	.394				3.251	3.256	.437	S	* 452152	45
79,72	80,00	9,00	S	* 58X80X9★	32	3.251	3.256	.500	S	* 50317	5S
3.139	3.150	.354				3.251	3.256	.500	S	* 410317	41
79,72	80,00	10,00	S	* 58X80X10★	32	3.251	3.256	.500	S	450317	45
3.139	3.150	.394				3.251	3.256	.500	N	* 450317N	45
79,72	80,00	12,00	S	* 58X80X12★	32	3.251	3.256	.500	S	* 470317	47
3.139	3.150	.472				3.313	3.318	.375	L	5924	4L
79,72	80,00	13,00	S	* 58X80X13★	32	3.350	3.355	.375	S	* 410694	41
3.139	3.150	.512				3.350	3.355	.468	N	* 410100N	41
80,00	80,20	8,00	V	* 58X80X8V★	35	3.350	3.355	.468	S	* 450100	45
3.150	3.157	.315				3.371	3.376	.468	S	* 450133	45
80,00	80,28	8,00	S	225880★	32	3.500	3.505	.375	S	* 416444	41
3.150	3.161	.315				3.500	3.505	.500	S	* 415094	41
80,00	80,28	8,00	S	58X80X8★	32	3.500	3.505	.500	S	* 455094	45
3.150	3.161	.315				3.500	3.505	.500	N	* 455094N	45
80,14	80,24	9,53	S	493291★	49	3.543	3.548	.500	S	* 455647	45
3.155	3.159	.375				3.751	3.756	.500	S	455321	45
80,98	81,18	6,35	S	* 341119★	34	4.003	4.008	.468	S	* 455267	45
3.188	3.196	.250				59,00mm (2.323") SHAFT					
81,72	82,00	12,00	S	* 58X82X12★	32	-	-	-	S	800600	VRS1
3.217	3.228	.472				75,00	75,11	10,00	S	710168★	47
82,00	82,20	8,00	S	* 58X82X8★	32	2.953	2.957	.394			
3.228	3.236	.315				78,30	78,55	8,00	S	710229★	40
84,72	85,00	8,00	S	* 58X85X8★	32	3.083	3.093	.315			
3.335	3.346	.315				78,30	78,55	8,00	S	710231★	32
84,72	85,00	12,00	S	* 58X85X12★	32	3.083	3.093	.315			
3.335	3.346	.472				100,00	100,28	10,00	N	710121★	#
85,00	85,25	13,00	S	58X85X13★	32	3.937	3.948	.394			
3.346	3.356	.512				2.324" SHAFT					
85,00	85,28	10,00	S	58X85X10★	35	.000	3.546	.591	S	710508	71
3.346	3.357	.394				2.325" SHAFT					
88,00	88,20	8,00	S	58X88X8★	32	-	-	-	S	800600	VRS1
3.465	3.472	.315				3.125	3.130	.313	S	710430&	#
90,00	90,28	10,00	S	58X90X10★	35	2.330" SHAFT					
3.543	3.554	.394				-	-	-	S	800600	VRS1
91,72	92,00	8,00	S	* 58X92X8★	32	-	-	.750	S	99233	Redi-Sleeve
3.611	3.622	.315				2.997	3.001	.312	S	493637	49
103,00	103,20	11,00	N	710268★◄	40	3.000	3.005	.400	N	3945◄►	48
4.055	4.063	.433				3.000	3.005	.400	N	* 332271N	33
2.296" SHAFT						2.336" SHAFT					
-	-	-	S	800600	VRS1	-	-	-	S	800600	VRS1
3.148	3.153	.359	S	204035	204	3.408	3.402	.187	N	* 9246N	25
3.148	3.153	.359	F	205035	205	2.359" SHAFT					
2.310" SHAFT						3.938	3.952	.575	V	370199A	09
-	-	-	S	800600	VRS1	60,00mm (2.362") SHAFT					
-	-	.781	S	99231	Redi-Sleeve	-	-	-	S	800600	VRS1
2.965	2.970	.250	S	* 8120	#	-	-	.370	S	* 99241	Redi-Sleeve
2.312" (2-5/16") SHAFT						-	-	.787	S	99235	Redi-Sleeve
-	-	-	S	800600	VRS1	69,75	70,00	10,00	S	* 60X70X10★	32
-	-	.781	S	99231	Redi-Sleeve	2.746	2.756	.394			
3.000	3.004	.375	S	4131&	287						
3.000	3.005	.250	S	442874	44						
3.000	3.005	.500	S	* 411160	41						
3.000	3.005	.500	N	* 411160N	41						
3.000	3.005	.500	V	411160V	41						
3.000	3.005	.500	N	* 451160N	45						
3.065	3.070	.281	S	43109S	4S						
3.125	3.130	.375	S	472150	47						

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ◄ Hydrodynamic Lip Design-CCW ◄► Hydrodynamic Lip Design-Bidirectional & Flanged O.D.
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
60,00mm (2.362") SHAFT (cont.)						60,00mm (2.362") SHAFT (cont.)					
69,75	70,00	12,00	S	*60X70X12★	32	82,00	82,30	12,00	S	60X82X12★	35
2.746	2.756	.472				3.228	3.240	.472			
71,75	72,00	9,00	S	*60X72X9★	32	83,72	84,00	10,00	S	*60X84X10★	32
2.825	2.835	.354				3.296	3.307	.394			
71,75	72,00	10,00	S	*60X72X10★	32	84,72	85,00	6,00	S	*60X85X6★	32
2.825	2.835	.394				3.335	3.346	.236			
72,00	72,10	7,50	S	710379★	47	84,72	85,00	10,00	S	*60X85X10★	32
2.835	2.839	.295				3.335	3.346	.394			
72,00	72,28	8,00	S	60X72X8★	35	84,72	85,00	13,00	S	*60X85X13★	32
2.835	2.846	.315				3.335	3.346	.512			
73,75	74,00	10,00	S	*60X74X10★	32	85,00	85,20	8,00	V	*60X85X8V★	32
2.903	2.913	.394				3.346	3.354	.315			
74,00	74,10	10,00	V	226001★◄	25	85,00	85,20	12,00	S	60X85X12★	32
2.913	2.917	.394				3.346	3.354	.472			
74,75	75,00	9,00	S	*60X75X9★	32	85,00	85,28	8,00	S	60X85X8★	32
2.943	2.953	.354				3.346	3.357	.315			
74,75	75,00	10,00	S	*60X75X10★	32	85,50	85,70	7,00	H	*4599H★►	#
2.943	2.953	.394				3.366	3.374	.276			
74,75	75,00	12,00	S	*60X75X12★	32	85,72	86,00	10,00	S	*60X86X10★	32
2.943	2.953	.472				3.375	3.386	.394			
75,00	75,20	8,00	V	*60X75X8V★	32	86,00	86,10	7,00	S	710182★	66
2.953	2.961	.315				3.386	3.390	.276			
75,00	75,28	8,00	S	60X75X8★	32	88,00	88,20	8,00	S	*60X88X8★	32
2.953	2.964	.315				3.465	3.472	.315			
75,00	75,33	9,00	N	226015★◄	32	89,72	90,00	11,00	S	*60X90X11★	32
2.953	2.966	.354				3.532	3.543	.433			
75,00	75,50	10,00	T	712113★►	FW-H	89,72	90,00	12,00	S	*60X90X12★	32
2.953	2.972	.394				3.532	3.543	.472			
75,00	86,00	11,80	S	710093★	#	89,72	90,00	13,00	S	*60X90X13★	32
2.953	3.386	.465				3.532	3.543	.512			
75,75	76,00	9,00	S	*60X76X9★	32	90,00	90,25	8,00	S	60X90X8★	32
2.982	2.992	.354				3.543	3.553	.315			
76,72	77,00	12,00	S	*60X77X12★	32	90,00	90,25	22,00	S	1985★	#
3.020	3.031	.472				3.543	3.553	.866			
77,72	78,00	9,00	S	*60X78X9★	32	90,00	90,27	10,00	S	60X90X10★	35
3.060	3.071	.354				3.543	3.554	.394			
77,72	78,00	10,00	S	*60X78X10★	32	94,72	95,00	10,00	S	*60X95X10★	32
3.060	3.071	.394				3.729	3.740	.394			
78,00	78,20	8,00	S	*60X78X8★	32	94,72	95,00	12,00	S	*60X95X12★	32
3.071	3.079	.315				3.729	3.740	.472			
78,00	78,28	8,00	N	226018★	35	94,72	95,00	13,00	S	*60X95X13★	32
3.071	3.082	.315				3.729	3.740	.512			
79,22	79,50	10,00	S	*60X79.5X10★	32	95,00	95,20	8,00	S	60X95X8★	32
3.119	3.130	.394				3.740	3.748	.315			
79,72	80,00	9,00	S	*60X80X9★	32	99,72	100,00	13,00	S	*60X100X13★	32
3.139	3.150	.354				3.926	3.937	.512			
79,72	80,00	10,00	S	*60X80X10★	32	100,00	100,20	8,00	S	*60X100X8★	32
3.139	3.150	.394				3.937	3.945	.315			
79,72	80,00	12,00	S	*60X80X12★	32	100,00	100,20	10,00	N	60X100X10★◄►	32
3.139	3.150	.472				3.937	3.945	.394			
79,72	80,00	13,00	S	*60X80X13★	32	103,00	103,10	12,00	N	710276★◄►	40
3.139	3.150	.512				4.055	4.059	.472			
80,00	80,20	8,00	S	60X80X8★	32	103,72	104,00	12,00	S	*60X104X12★	32
3.150	3.157	.315				4.083	4.094	.472			
80,00	80,20	8,00	V	*60X80X8V★	32	105,00	105,20	8,00	S	*60X105X8★	32
3.150	3.157	.315				4.134	4.142	.315			
80,00	80,20	8,00	S	710333★◄	32	109,72	110,00	12,00	S	*60X110X12★	32
3.150	3.157	.315				4.320	4.331	.472			
80,00	80,29	8,00	S	226020★	35	110,00	110,20	8,00	S	60X110X8★	32
3.150	3.161	.315				4.331	4.339	.315			
81,72	82,00	9,00	S	*60X82X9★	32	2.367" SHAFT					
3.217	3.228	.354				-	-	-	S	800600	VRS1
82,00	82,20	7,00	S	60X82X7★	32	3.366	3.374	.257	V	4539V	75
3.228	3.236	.276				3.366	3.374	.257	H	*3765►	48
82,00	82,20	10,00	N	710390★►	32	3.366	3.374	.257	H	4539H►	75
3.228	3.236	.472				2.375" (2-3/8") SHAFT					
82,00	82,20	12,00	V	710350★►	#	-	-	-	S	800600	VRS1
3.228	3.236	.472				-	-	.526		99240	Redi-Sleeve
82,00	82,20	12,00	H	712006★◄	32						
3.228	3.236	.472									
82,00	82,28	12,00	S	2001★◄	32						
3.228	3.239	.472									

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ► Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

◄► Hydrodynamic Lip Design-Bidirectional

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.375" (2-3/8") SHAFT (cont.)						2.375" (2-3/8") SHAFT (cont.)					
-	-	.594		99238	Redi-Sleeve	3.350	3.355	.438	S	472856	47
-	-	.781		99236	Redi-Sleeve	3.350	3.355	.468	S	*410101	41
-	-	.781		99237	Redi-Sleeve	3.350	3.355	.468	N	410101N	41
2.873	2.877	.312	S	*253610	25	3.350	3.355	.468	S	*410101S	41
2.996	3.001	.500	S	470764	47	3.350	3.355	.468	V	*410101V	41
3.000	3.005	.250	S	41026S	4S	3.350	3.355	.468	S	450101	45
3.000	3.005	.375	S	473573	47	3.350	3.355	.468	H	*450101H	45
3.000	3.013	.394	T	5288	#	3.350	3.355	.468	N	*450101N	45
3.000	3.013	.400	V	3393	#	3.350	3.355	.468	S	*470101	47
3.061	3.066	.375	S	473474	47	3.350	3.355	.468	N	*470101N	47
3.061	3.066	.500	S	*410988	41	3.350	3.355	.468	S	*480101	48
3.061	3.066	.500	N	*410988N	41	3.350	3.355	.468	H	*480101H	48
3.061	3.066	.500	S	*450988	45	3.350	3.355	.468	N	*480101N	48
3.061	3.066	.500	H	*450988H	45	3.350	3.355	.468	N	*4155	#
3.061	3.066	.500	N	*450988N	45	3.371	3.376	.375	S	*474198	47
3.061	3.066	.500	V	*450988V	45	3.371	3.376	.375	S	*413247	41
3.061	3.066	.500	S	*470988	47	3.371	3.376	.375	S	*453247	45
3.061	3.066	.500	N	*470988N	47	3.371	3.376	.375	S	*473247	47
3.061	3.066	.500	S	*480988	48	3.371	3.376	.375	S	*483247	48
3.061	3.066	.500	H	480988H	48	3.371	3.376	.468	S	*50350	5S
3.112	3.117	.250	S	*42707S	4S	3.371	3.376	.468	S	*410350	41
3.112	3.117	.500	S	*411178	41	3.371	3.376	.468	S	450350	45
3.125	3.130	.375	S	*410565	41	3.371	3.376	.468	H	*450350H	45
3.125	3.130	.375	N	*410565N	41	3.371	3.376	.468	N	*450350N	45
3.125	3.130	.375	S	*450565	45	3.371	3.376	.468	S	*470350	47
3.125	3.130	.375	S	470565	47	3.371	3.376	.468	S	*480350	48
3.125	3.130	.375	N	*470565N	47	3.471	3.616	.290	S	200855%	200E
3.125	3.130	.375	V	*470565V	47	3.481	3.486	.437	S	*410987	41
3.125	3.130	.375	S	*480565	48	3.481	3.486	.500	S	*470987	47
3.125	3.130	.500	S	*410552	41	3.481	3.486	.500	S	*50103	5S
3.125	3.130	.500	N	*410552N	41	3.481	3.486	.500	S	*410103	41
3.125	3.130	.500	S	*450552	45	3.481	3.486	.500	S	450103	45
3.125	3.130	.500	N	*450552N	45	3.481	3.486	.663	L	*6214	3L
3.125	3.130	.500	S	*470552	47	3.483	3.488	.500	N	410686N	41
3.125	3.130	.500	H	*470552H	47	3.483	3.488	.500	N	410686N	41
3.125	3.130	.500	N	*470552N	47	3.483	3.488	.500	S	450686	45
3.125	3.130	.500	S	*480552	48	3.500	3.505	.375	S	*416271	41
3.125	3.138	.500	V	*320552V	32	3.500	3.505	.375	A	416271A	41
3.189	3.194	.375	S	473475	47	3.500	3.505	.375	N	*416271N	41
3.189	3.194	.437	S	*410320	41	3.500	3.505	.375	S	*456271	45
3.189	3.194	.437	H	*410320H	41	3.500	3.505	.375	V	*456271V	45
3.189	3.194	.437	N	*410320N	41	3.500	3.505	.375	S	*476271	47
3.189	3.194	.437	S	*450320	45	3.500	3.505	.375	S	*486271	48
3.189	3.194	.437	S	*470320	47	3.500	3.505	.500	S	*55095S	5S
3.189	3.194	.437	S	*480320	48	3.500	3.505	.500	S	*415095	41
3.251	3.255	.375	N	413246N	41	3.500	3.505	.500	N	*415095N	41
3.251	3.256	.375	S	413246	41	3.500	3.505	.500	S	*455095	45
3.251	3.256	.375	S	*453246	45	3.500	3.505	.500	S	*475095N	47
3.251	3.256	.375	S	*473246	47	3.500	3.505	.500	N	475095N	47
3.251	3.256	.375	S	*483246	48	3.500	3.505	.703	S	*485095	48
3.251	3.256	.375	N	483246N	48	3.500	3.505	.703	S	*415971	41
3.251	3.256	.437	S	*412038	41	3.500	3.505	.703	H	*415971H	41
3.251	3.256	.437	N	412038N	41	3.500	3.505	.730	V	*3278	#
3.251	3.256	.437	S	*452038	45	3.543	3.548	.375	S	*412861	41
3.251	3.256	.500	S	*410574	41	3.543	3.548	.500	S	*415248	41
3.251	3.256	.500	N	*410574N	41	3.543	3.548	.500	N	415248N	41
3.251	3.256	.500	S	*450574	45	3.543	3.548	.500	S	*455248	45
3.251	3.256	.500	H	*450574H	45	3.601	3.606	.437	L	*55857	5L
3.251	3.256	.500	N	*450574N	45	3.601	3.606	.437	S	*415857	41
3.251	3.256	.500	S	*470574	47	3.623	3.628	.359	S	*55829	5S
3.251	3.256	.500	N	470574N	47	3.623	3.628	.375	S	*410825	41
3.251	3.256	.500	S	*480574	48	3.623	3.628	.375	S	*470825	47
3.251	3.256	.625	V	710210	74	3.623	3.628	.468	N	*415380N	41
3.252	3.256	.500	H	480574H	48	3.623	3.628	.468	S	*455380	45
3.265	3.270	.495	S	5119	49	3.623	3.628	.468	N	*455380N	45
3.266	3.270	.495	S	*492486	49	3.623	3.628	.468	V	*455380V	45
3.350	3.355	.250	S	40101S	4S	3.623	3.628	.468	S	*475380	47
3.350	3.355	.250	S	442507	44	3.623	3.628	.468	N	475380N	47
3.350	3.355	.312	S	*454199	45	3.623	3.628	.500	S	*456472	45
3.350	3.355	.375	S	412119	41	3.623	3.628	.500	N	456472N	45
						3.750	3.755	.250	S	*47314S	4S
						3.750	3.756	.500	S	*455728	45

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
2.375" (2-3/8") SHAFT (cont.)						2.437" (2-7/16") SHAFT (cont.)					
3.751	3.756	.500	S	416071	41	3.251	3.256	.437	S	412040	41
3.875	3.881	1.060	N	*2756N&	74	3.251	3.256	.500	S	*410322	41
3.875	3.881	1.060	N	711553◀▶	74	3.251	3.256	.500	S	*450322	45
3.876	3.881	.375	S	417480	41	3.251	3.256	.500	S	*470322	47
3.876	3.881	.375	N	*417480N	41	3.350	3.355	.375	S	411500	41
3.876	3.881	.468	S	455860	45	3.350	3.355	.468	S	*410374	41
4.064	4.069	1.092	N	*4038N	90	3.350	3.355	.468	N	*410374N	41
4.064	4.069	1.092	N	712375	90	3.350	3.355	.468	S	*450374	45
4.310	5.880	.331	S	*6959	#	3.371	3.376	.375	S	413478	41
4.330	4.335	.500	N	*416795N	41	3.371	3.376	.468	S	*410324	41
4.376	4.381	.625	S	*455650	45	3.371	3.376	.468	S	*450324	45
4.498	4.504	.391	N	714512◀▶	87	3.481	3.486	.500	S	450104	45
4.498	4.504	.860	N	*4512◀▶	#	3.500	3.505	.375	S	411245	41
4.498	4.504	1.060	N	*2757N&	74	3.500	3.505	.500	S	*415096	41
4.500	4.504	1.060	N	710006▶	74	3.500	3.505	.500	N	*415096N	41
60,50mm (2.382") SHAFT						3.500	3.505	.500	S	455096	45
77,72	78,00	10,00	S	*60.5X78X10★	32	3.500	3.505	.500	V	*455096V	45
3.060	3.071	.394				3.500	3.505	.500	S	*475096	47
2.390" SHAFT						3.543	3.548	.375	S	417073	41
3.260	3.300	.294	S	*200939%	200E	3.543	3.548	.500	S	*455000	45
2.395" SHAFT						3.623	3.628	.468	S	*476272	47
-	-	-	S	800600	VRS1	3.624	3.628	.375	S	3210	49
3.941	3.948	.070	S	*8829	#	4.000	4.055	1.093	S	*8636	#
61,00mm (2.402") SHAFT						62,00mm (2.441") SHAFT					
-	-	-	S	800600	VRS1	-	-	-	S	800600	VRS1
0,00	78,00	13,49	S	710528★	#	-	-	.500		99242	Redi-Sleeve
.000	3.071	.531	S			74,00	74,10	7,00	S	710392★	#
76,00	76,28	7,00	S	226150★	#	2.913	2.917	.276			
2.992	3.003	.276				74,75	75,00	10,00	S	*62X75X10★	32
88,00	88,00	7,00	S	710170★	#	2.943	2.953	.394			
3.465	3.465	.276				74,75	75,00	12,00	S	*62X75X12★	32
2.420" SHAFT						2.943	2.953	.394			
-	-	-	S	800600	VRS1	2.943	2.953	.472			
3.000	3.005	.382	S	4160	281	77,72	78,00	10,00	S	*62X78X10★	32
3.349	3.355	.375	V	*3501V	69	3.060	3.071	.394			
3.552	3.558	.336	S	*4185	#	78,00	78,10	7,00	S	710213★	281
2.430" SHAFT						3.071	3.075	.276			
-	-	-	S	800600	VRS1	78,00	78,20	8,00	S	*62X78X8★	32
-	3.031	.380	S	*7187S	#	3.071	3.079	.315			
2.432" SHAFT						79,72	80,00	12,00	S	*62X80X12★	32
-	-	-	S	800600	VRS1	3.139	3.150	.472			
3.070	3.075	.227	N	4019N◀▶	47	80,00	80,20	9,00	S	62X80X9★	32
2.437" (2-7/16") SHAFT						3.150	3.157	.315			
-	-	-	S	800600	VRS1	80,00	80,20	10,00	V	*62X80X10V★	35
-	-	.500		99242	Redi-Sleeve	3.150	3.157	.394			
-	-	.781		99243	Redi-Sleeve	80,00	80,28	10,00	S	62X80X10★	32
3.117	3.145	.540	S	*9303S	#	3.150	3.161	.394			
3.125	3.130	.375	S	471887	47	81,72	82,00	10,00	S	*62X82X10★	32
3.125	3.130	.375	H	*471887H	47	3.217	3.228	.394			
3.125	3.130	.375	N	*471887N	47	82,00	82,20	8,00	S	*62X82X8★	32
3.125	3.130	.375	H	*481887H	48	3.228	3.236	.315			
3.125	3.130	.500	S	*450525	45	84,72	85,00	10,00	S	*62X85X10★	32
3.125	3.130	.500	S	*410525	41	3.335	3.346	.394			
3.149	3.154	.291	S	*200397	200	84,72	85,00	12,00	S	*62X85X12★	32
3.251	3.256	.250	S	*40322	4S	3.335	3.346	.472			
3.251	3.256	.375	S	*413477	41	84,72	85,00	13,00	S	*62X85X13★	32
						3.335	3.346	.512			
						85,00	85,13	8,00	S	62X85X8★	41
						3.346	3.352	.315			
						85,00	85,13	8,00	S	226285★	41
						3.346	3.352	.315			
						85,00	85,13	8,00	S	*414072★	41
						3.346	3.352	.315			
						88,00	88,20	8,00	S	62X88X8★	32
						3.465	3.472	.315			
						88,72	89,00	12,00	S	*62X89X12★	32
						3.493	3.504	.472			
						89,72	90,00	13,00	S	*62X90X13★	32
						3.532	3.543	.512			
						90,00	90,28	10,00	S	62X90X10★	32
						3.543	3.554	.394			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀▶ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).
★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
62,00mm (2.441") SHAFT (cont.)						2.485" SHAFT					
92,00	92,20	8,00	S	62X92X8★	32	—	—	—	S	800650	VRS1
3.622	3.630	.315				—	—	—	V	800654	VRS1
94,72	95,00	12,00	S	*62X95X12★	32	3.165	—	.188	U	710042	#
3.729	3.740	.472				2.496" SHAFT					
99,72	100,00	10,00	S	*62X100X10★	32	—	—	—	S	800650	VRS1
3.926	3.937	.394				—	—	—	V	800654	VRS1
99,72	100,00	12,00	S	*62X100X12★	32	3.243	3.248	.420	S	*4101	#
3.926	3.937	.472				3.245	3.248	.485	S	5109	#
100,00	100,20	8,00	S	*62X100X8★	32	3.672	3.772	.315	S	200851%	200E
3.937	3.945	.315				3.715	3.745	.315	S	*200888%	200E
100,00	100,30	7,00	S	62X100X7★	32	2.500" (2-1/2") SHAFT					
3.937	3.949	.276				—	—	—	S	800650	VRS1
109,72	110,00	13,00	S	*62X110X13★	32	—	—	—	V	800654	VRS1
4.320	4.331	.512				—	—	.500		99248	Redi-Sleeve
2.468" SHAFT						—	—	.555		99253	Redi-Sleeve
—	—	—	S	800600	VRS1	—	—	.781		99250	Redi-Sleeve
3.236	3.241	.250	S	*42686	4S	—	5.371	1.343	S	*9014	#
3.350	3.355	.468	L	50560	5L	3.000	—	.313	U	710027	#
2.470" SHAFT						3.000	—	.313	U	*710033	#
—	—	—	S	800600	VRS1	3.000	—	.375	U	710034	#
3.063	3.187	.510	S	*5957S	273	3.000	3.005	.250	L	40555	4L
2.474" SHAFT						3.000	3.005	.250	S	40555S	4S
—	—	—	S	800600	VRS1	3.000	3.005	.250	S	43290S	4S
3.543	3.548	.285	S	6575S	200	3.125	3.130	.250	S	*313290	31
63,00mm (2.480") SHAFT						3.125	3.130	.547	N	*9946N	#
—	—	—	S	800600	VRS1	3.125	3.130	.315	T	39803	FW-H
—	—	—	S	800650	VRS1	3.130	3.135	.315	T	39803	FW-H
—	—	—	V	800654	VRS1	3.148	3.154	.250	S	40337S	4S
78,00	78,20	8,00	S	*63X78X8★	32	3.150	3.155	.315	N	473476	47
3.071	3.079	.315				3.189	3.194	.375	S	472029	47
79,72	80,00	9,00	S	*63X80X9★	32	3.189	3.194	.437	S	*482029	48
3.139	3.150	.354				3.189	3.194	.437	S	*450323	45
80,00	80,20	8,00	S	*63X80X8★	32	3.189	3.194	.437	V	*450323V	45
3.150	3.157	.315				3.226	3.231	.190	S	3942&	284
82,00	82,20	8,00	S	*63X82X8★	32	3.247	3.252	.500	S	410752	41
3.228	3.236	.315				3.250	3.255	.375	U	710018	#
82,22	82,50	10,00	S	*63X82.5X10★	32	3.250	3.256	.437	H	*411509H	41
3.237	3.248	.394				3.250	3.256	.437	N	*411509N	41
84,07	84,23	12,70	F	6785★	35	3.250	3.256	.437	V	*411509V	41
3.310	3.316	.500				3.250	3.256	.437	S	*451509	45
84,72	85,00	12,00	S	*63X85X12★	32	3.250	3.256	.437	H	*451509H	45
3.335	3.346	.472				3.250	3.256	.437	S	*471509	47
85,00	85,27	7,00	S	63X85X7★	32	3.250	3.256	.437	V	*471509V	47
3.346	3.357	.276				3.250	3.256	.437	S	*481509	48
85,00	85,28	10,00	S	63X85X10★	32	3.250	3.256	.437	H	*481509H	48
3.346	3.357	.394				3.251	3.256	.250	S	*40519S	4S
87,72	88,00	12,00	S	*63X88X12★	32	3.251	3.256	.250	S	*442110	44
3.454	3.465	.472				3.251	3.256	.312	S	442380	44
88,00	88,20	8,00	S	*63X88X8★	32	3.251	3.256	.375	S	*411271	41
3.465	3.472	.315				3.251	3.256	.375	S	*451271	45
89,72	90,00	12,00	S	*63X90X12★	32	3.251	3.256	.375	S	471271	47
3.532	3.543	.472				3.251	3.256	.375	A	471271A	47
90,00	90,14	10,00	S	63X90X10★	32	3.251	3.256	.375	V	471271V	47
3.543	3.549	.394				3.251	3.256	.375	S	*481271	48
90,00	90,27	7,00	S	63X90X7★	32	3.251	3.256	.500	S	410519	41
3.543	3.554	.276				3.251	3.256	.500	S	450519	45
90,00	90,10	7,00	S	1935★	47	3.251	3.256	.500	H	*450519H	45
3.543	3.554	.276				3.251	3.256	.500	N	*450519N	45
99,72	100,00	10,00	S	*63X100X10★	32	3.251	3.256	.500	S	*470519	47
3.926	3.937	.394				3.251	3.256	.500	S	*470519N	47
99,72	100,00	13,00	S	*63X100X13★	32	3.251	3.256	.500	S	*480519	48
3.926	3.937	.512				3.251	3.256	.500	N	*480519N	48
						3.251	3.256	.500	V	*480519V	48
						3.303	3.307	.465	S	4250	74

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀➔ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).
 ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
63,50mm (2.500") SHAFT						2.500" (2-1/2") SHAFT (cont.)					
84,72	85,00	12,00	S	*63.5X85X12★	32	3.751	3.756	.500	S	*415079	41
3.335	3.346	.472				3.751	3.756	.500	S	*455079	45
2.500" (2-1/2") SHAFT						3.751	3.756	.500	V	*455079V	45
3.350	3.355	.250	S	*40496S	4S	3.751	3.756	.500	S	*475079	47
3.350	3.355	.468	S	*410496	41	3.751	3.756	.500	S	*485079	48
3.350	3.355	.468	S	450496	45	3.876	3.881	.375	S	*446631	44
3.350	3.355	.468	S	*470496	47	3.876	3.881	.468	N	415082N	41
3.350	3.355	.468	S	*480496	48	3.876	3.881	.468	S	*455082	45
3.350	3.355	.468	N	*480496N	48	3.876	3.881	.468	S	*475082	47
3.350	3.355	.718	S	*6860S	#	3.876	3.881	.468	S	*485082	48
3.371	3.376	.375	S	*410605	41	4.003	4.008	.468	S	*2108	45
3.371	3.376	.375	S	*450605	45	4.003	4.008	.468	S	*415655	41
3.371	3.376	.375	H	*450605H	45	4.003	4.008	.468	S	*455655	45
3.371	3.376	.375	S	*470605	47	4.003	4.008	.468	S	*475655	47
3.371	3.376	.375	S	*480605	48	4.003	4.008	.468	S	*485655	48
3.371	3.376	.468	S	*410330	41	4.035	4.040	.634	V	4525V	87
3.371	3.376	.468	N	*410330N	41	4.035	4.042	.492	V	100727	#
3.371	3.376	.468	S	*450330	45	4.250	4.260	.500	S	355732	35
3.371	3.376	.468	H	*450330H	45	4.500	6.125	.400	S	*7512S	51
3.371	3.376	.468	S	*470330	47	4.500	6.125	.400	S	7512SSO	51
3.371	3.376	.468	N	*470330N	47	4.938	4.943	.500	N	3136N↔	47
3.371	3.376	.468	S	*480330	48	2.503" SHAFT					
3.371	3.435	.500	L	80330%	8L	-	-	-	S	800650	VRS1
3.428	3.433	.375	S	*473274	47	-	-	-	V	800654	VRS1
3.428	3.433	.375	N	473274N	47	-	-	.500		99248	Redi-Sleeve
3.499	3.505	.500	V	3894V	48	-	-	.555		99253	Redi-Sleeve
3.500	3.504	.450	N	714670↔	47	-	-	.781		99250	Redi-Sleeve
3.500	3.505	.250	S	444042	44	3.428	3.439	.709	V	4561V↔	#
3.500	3.505	.375	N	*415345N	41	3.428	3.439	.800	V	*714561↔	#
3.500	3.505	.375	V	*415345V	41	3.500	3.504	.450	N	*4670N↔	#
3.500	3.505	.375	S	*415449	41	3.629	3.633	.900	N	*4624N&	86
3.500	3.505	.375	A	415449A	41	3.629	3.633	.900	V	4624V&	86
3.500	3.505	.375	N	*415449N	41	2.512" SHAFT					
3.500	3.505	.375	V	*415449V	41	-	-	-	S	800650	VRS1
3.500	3.505	.375	S	*455449	45	-	-	-	V	800654	VRS1
3.500	3.505	.375	S	*475449	47	-	-	.781		*99251	Redi-Sleeve
3.500	3.505	.375	S	*485449	48	3.506	3.510	.290	S	8975S	49
3.500	3.505	.500	H	*2279↔	47	64,00mm (2.520") SHAFT					
3.500	3.505	.500	H	7581H&	48	-	-	-	S	800650	VRS1
3.500	3.505	.500	S	415147	41	-	-	-	V	800654	VRS1
3.500	3.505	.500	N	415147N	41	-	-	.781		*99251	Redi-Sleeve
3.500	3.505	.500	S	455147	45	3.506	3.510	.290	S	8975S	49
3.500	3.505	.500	H	*455147H	45	64,00mm (2.520") SHAFT					
3.500	3.505	.500	N	*455147N	45	-	-	-	S	800650	VRS1
3.500	3.505	.500	S	*475147	47	-	-	-	V	800654	VRS1
3.500	3.505	.500	N	*475147N	47	76,00	76,20	7,00	S	710256★	#
3.500	3.505	.500	S	*485147	48	2.992	3.000	.276			
3.500	3.505	.540	S	*3707	47	77,00	77,20	8,00	S	710130★	#
3.500	3.505	.687	N	*7773N	#	3.031	3.039	.315			
3.500	3.510	.475	T	*712121	#	79,72	80,00	12,00	S	*64X80X12★	32
3.543	3.548	.500	S	*415001	41	3.139	3.150	.472			
3.543	3.548	.500	N	415001N	41	79,72	80,00	13,00	S	*64X80X13★	32
3.543	3.548	.500	S	455001	45	3.139	3.150	.512			
3.543	3.548	.500	S	475001	47	80,00	80,20	8,00	H	226480★↔	33
3.543	3.548	.500	N	*475001N	47	3.150	3.157	.315			
3.543	3.548	.500	S	*485001	48	80,00	80,28	8,00	S	64X80X8★	32
3.548	3.553	.546	N	*2643N	#	3.150	3.161	.315			
3.623	3.628	.375	V	416273V	41	84,72	85,00	10,00	S	*64X85X10★	32
3.623	3.628	.375	S	*416273	41	3.335	3.346	.394			
3.623	3.628	.375	S	*456273	45	84,72	85,00	12,00	S	*64X85X12★	32
3.623	3.628	.375	S	*476273	47	3.335	3.346	.472			
3.623	3.628	.375	S	*486273	48	90,00	90,28	13,00	S	*64X90X13★	32
3.623	3.628	.468	S	*415369	41	3.543	3.554	.512			
3.623	3.628	.468	H	*415369H	41	119,72	120,00	12,00	S	*64X120X12★	32
3.623	3.628	.468	N	*415369N	41	4.713	4.724	.472			
3.623	3.628	.468	S	455369	45	132,00	132,10	13,00	N	710277★	#
3.623	3.628	.468	S	*475369	47	5.197	5.201	.512			
3.623	3.628	.468	N	*475369N	47	64,00mm (2.520") SHAFT					
3.623	3.628	.468	S	*485369	48	-	-	-	S	800650	VRS1
3.750	3.759	.250	S	*345887	34	-	-	-	V	800654	VRS1

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ↔ Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-CCW

↔↔ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.531" (2-17/32") SHAFT						65,00mm (2.559") SHAFT (cont.)					
-	-	-	S	800650	VRS1	89,72	90,00	12,00	S	*65X90X12★	32
-	-	-	V	800654	VRS1	3.532	3.543	.472			
4.540	6.125	.500	S	7154S	#	90,00	90,20	7,00	S	65X90X7★	32
2.556" SHAFT											
-	-	-	S	800650	VRS1	3.543	3.551	.276			
-	-	-	V	800654	VRS1	90,00	90,20	10,00	V	*65X90X10V★	32
-	-	.787		99254	Redi-Sleeve	3.543	3.551	.394			
3.937	3.942	.375	S	476514	47	90,00	90,20	13,00	S	65X90X13★	35
65,00mm (2.559") SHAFT											
-	-	-	S	800650	VRS1	90,00	90,28	10,00	S	226530★	35
-	-	-	V	800654	VRS1	3.543	3.554	.394			
-	-	.787		99254	Redi-Sleeve	90,00	90,28	10,00	S	65X90X10★	32
74,75	75,00	8,00	S	*65X75X8★	32	94,72	95,00	10,00	S	*65X95X10★	32
2.943	2.953	.315				3.729	3.740	.394			
74,75	75,00	10,00	S	*65X75X10★	32	94,72	95,00	12,00	S	*65X95X12★	32
2.943	2.953	.394				3.729	3.740	.472			
74,75	75,00	12,00	S	*65X75X12★	32	94,72	95,00	13,00	S	*65X95X13★	32
2.943	2.953	.472				3.729	3.740	.512			
77,72	78,00	12,00	S	*65X78X12★	32	94,72	95,00	14,00	S	*65X95X14★	32
3.060	3.071	.472				3.729	3.740	.551			
79,72	80,00	10,00	S	*65X80X10★	32	95,00	95,20	7,00	S	65X95X7★	32
3.139	3.150	.394				3.740	3.748	.276			
79,72	80,00	12,00	S	*65X80X12★	32	95,00	95,20	8,00	S	*65X95X8★	32
3.139	3.150	.472				3.740	3.748	.315			
80,00	80,20	8,00	V	*65X80X8V★	32	99,72	100,00	9,50	S	*65X100X9.5★	32
3.150	3.157	.315				3.926	3.937	.374			
80,00	80,28	8,00	S	65X80X8★	32	99,72	100,00	12,00	S	*65X100X12★	32
3.150	3.161	.315				3.926	3.937	.472			
81,00	81,28	7,00	N	226510★➔	32	99,72	100,00	13,00	S	*65X100X13★	32
3.189	3.200	.276				3.926	3.937	.512			
81,72	82,00	9,00	S	*65X82X9★	32	100,00	100,20	10,00	V	*65X100X10V★	35
3.217	3.228	.354				3.937	3.945	.394			
81,72	82,00	12,00	S	*65X82X12★	32	100,00	100,28	10,00	S	65X100X10★	35
3.217	3.228	.472				3.937	3.948	.394			
82,00	82,09	8,00	S	710094★	66	100,00	100,30	7,00	S	65X100X7★	32
3.228	3.232	.315				3.937	3.949	.276			
82,00	82,20	8,00	S	*65X82X8★	32	101,72	102,00	13,00	S	*65X102X13★	32
3.228	3.236	.315				4.005	4.016	.512			
84,00	84,30	9,00	H	712005★➔	32	104,72	105,00	12,00	S	*65X105X12★	32
3.307	3.319	.354				4.123	4.134	.472			
84,72	85,00	12,00	S	*65X85X12★	32	105,00	105,20	8,00	S	*65X105X8★	32
3.335	3.346	.472				4.134	4.142	.315			
84,72	85,00	13,00	S	*65X85X13★	32	109,72	110,00	10,00	S	*65X110X10★	32
3.335	3.346	.512				4.320	4.331	.394			
85,00	85,10	10,00	S	710373★	47	109,72	110,00	12,00	S	*65X110X12★	32
3.346	3.350	.394				4.320	4.331	.472			
85,00	85,20	8,00	S	65X85X8★	35	109,72	110,00	13,00	S	*65X110X13★	32
3.346	3.354	.315				4.320	4.331	.512			
85,00	85,20	8,00	V	*65X85X8V★	35	110,00	110,20	8,00	S	*65X110X8★	32
3.346	3.354	.315				4.331	4.339	.315			
85,00	85,27	10,00	S	226520★	35	114,72	115,00	12,00	S	*65X115X12★	32
3.346	3.357	.394				4.517	4.528	.472			
85,00	85,27	10,00	S	65X85X10★	32	114,72	115,00	13,00	S	*65X115X13★	32
3.346	3.357	.394				4.517	4.528	.512			
87,72	88,00	12,00	S	*65X88X12★	32	115,00	115,20	8,00	S	*65X115X8★	32
3.454	3.465	.472				4.528	4.535	.315			
87,72	88,00	13,00	S	*65X88X13★	32	119,72	120,00	13,00	S	*65X120X13★	32
3.454	3.465	.512				4.713	4.724	.512			
88,00	88,20	8,00	S	65X88X8★	35	120,00	120,20	8,00	S	*65X120X8★	32
3.465	3.472	.315				4.724	4.732	.315			
88,00	88,20	10,00	S	65X88X10★	32	139,70	140,00	14,00	S	*65X140X14★	32
3.465	3.472	.394				5.500	5.512	.551			
88,00	88,20	12,00	S	710367★➔	40	2.561" SHAFT					
3.465	3.472	.472				.000	3.979	.532	S	710519	#
89,72	90,00	8,00	S	*65X90X8★	32	2.562" (2-9/16") SHAFT					
3.532	3.543	.315				-	-	-	S	800650	VRS1
						-	-	-	V	800654	VRS1
						-	-	.781		99256	Redi-Sleeve

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.562" (2-9/16") SHAFT (cont.)						2.625" (2-5/8") SHAFT (cont.)					
-	-	.787		99254	Redi-Sleeve	3.350	3.356	.468	S	*480329	48
3.090	3.095	.375	S	5123	280	3.350	3.356	.468	N	*480329N	48
3.371	3.376	.468	S	*470961	47	3.351	3.356	.500	S	*452624	45
3.481	3.486	.375	S	413479	41	3.371	3.376	.250	S	440511	44
3.481	3.486	.500	S	*450904	45	3.371	3.376	.375	S	*413248	41
3.500	3.505	.375	S	*415302	41	3.371	3.376	.375	S	*453248	45
3.500	3.505	.500	S	*415098	41	3.371	3.376	.375	S	*473248	47
3.500	3.505	.500	N	415098N	41	3.371	3.376	.375	S	*483248	48
3.500	3.505	.500	S	*455098	45	3.371	3.376	.468	S	*410626	41
3.500	3.505	.500	H	*455098H	45	3.371	3.376	.468	N	*410626N	41
3.500	3.505	.500	N	*455098N	45	3.371	3.376	.468	S	450626	45
3.500	3.505	.500	S	*475098	47	3.371	3.376	.468	S	*480626	48
3.543	3.548	.500	S	455311	45	3.374	3.379	.468	S	*410708	41
3.623	3.628	.375	S	*415988	41	3.375	3.390	.375	T	712101➔	FW-H
3.623	3.628	.468	S	*415002	41	3.481	3.486	.500	S	*450412	45
3.623	3.628	.468	H	*415002H	41	3.484	3.489	.250	S	43077S	4S
3.623	3.628	.468	S	*455002	45	3.500	3.505	.375	S	*415483	41
3.623	3.628	.468	S	*475002	47	3.500	3.505	.375	S	*455483	45
3.623	3.628	.468	N	*475002N	47	3.500	3.505	.375	S	*475483	47
3.623	3.628	.468	S	*485002	48	3.500	3.505	.375	S	*485483	48
3.623	3.628	.500	S	*456619	45	3.500	3.505	.500	S	*415368	41
3.624	3.629	.703	S	*415972	41	3.500	3.505	.500	N	*415368N	41
3.727	3.777	.490	S	*9943%	Redi-Sleeve	3.500	3.505	.500	S	455368	45
3.750	3.756	.375	S	*417481	41	3.500	3.505	.500	N	*455368N	45
3.750	3.756	.500	S	*455244	45	3.500	3.505	.500	N	475368N	47
3.751	3.756	.500	S	*415244	41	3.500	3.505	.500	S	*485368	48
3.751	3.756	.500	N	*415244N	41	3.516	3.533	.394	T	712103➔	PDW
3.751	3.756	.500	H	*455244H	45	3.531	3.536	.812	S	*8561	2S
3.751	3.756	.500	N	*455244N	45	3.543	3.548	.375	S	*417079	41
3.876	3.881	.468	S	*455280	45	3.543	3.548	.500	S	*411475	41
66,00mm (2.598") SHAFT						3.543	3.548	.500	N	*411475N	41
-	-	-	S	800650	VRS1	3.543	3.548	.500	S	*451475	45
-	-	-	V	800654	VRS1	3.543	3.548	.500	S	*471475	47
-	-	.781		99259	Redi-Sleeve	3.623	3.628	.375	S	*481475	48
80,00	80,11	9,00	N	226610★	41	3.623	3.628	.375	A	415458A	41
3.150	3.154	.354				3.623	3.628	.375	V	*415458V	41
85,00	85,12	10,00	S	710092★	41	3.623	3.628	.375	S	*455458	45
3.346	3.351	.394				3.623	3.628	.375	S	475458	47
3.481	3.486	.500	S	411330	41	3.623	3.628	.375	V	*475458V	47
3.481	3.486	.500	N	*411330N	41	3.623	3.628	.375	S	*485458	48
3.999	4.004	.730	S	*2177	#	3.623	3.628	.468	V	*3440V	#
3.999	4.004	.780	S	712598	47	3.623	3.628	.468	S	415003	41
4.000	4.005	.500	S	*477069	47	3.623	3.628	.468	N	*415003N	41
2.609" SHAFT						3.623	3.628	.468	V	*415003V	41
-	-	-	S	800650	VRS1	3.623	3.628	.468	S	455003	45
-	-	-	V	800654	VRS1	3.623	3.628	.468	N	*455003N	45
3.350	3.355	.375	S	*450725	45	3.623	3.628	.468	S	*475003	47
3.350	3.355	.375	H	*450725H	45	3.623	3.628	.468	N	475003N	47
3.350	3.355	.375	N	*450725N	45	3.623	3.629	.500	S	*455911	45
2.625" (2-5/8") SHAFT						3.625	3.630	.600	N	*3350	#
-	-	-	S	800650	VRS1	3.660	3.960	.320	S	*200919%	200E
-	-	-	V	800654	VRS1	3.695	3.700	.500	H	3813	64
-	-	.500		99260	Redi-Sleeve	3.696	3.700	.500	T	41163T➔	FW-H
-	-	.781		99262	Redi-Sleeve	3.749	3.755	.586	S	*8020S	41
-	-	.781		*99264	Redi-Sleeve	3.751	3.756	.375	S	*417343	41
-	5.030	.200	S	*6405	#	3.751	3.756	.375	S	*457343	45
3.251	3.256	.437	N	411143N	41	3.751	3.756	.375	S	*477343	47
3.251	3.256	.437	S	*451143	45	3.751	3.756	.375	S	*487343	48
3.251	3.256	.437	N	*471143N	47	3.751	3.756	.500	S	*415149	41
3.350	3.355	.375	S	*412871	41	3.751	3.756	.500	V	*415149V	41
3.350	3.355	.453	F	*6081	29	3.751	3.756	.500	S	*455149	45
3.350	3.356	.468	S	450329	45	3.751	3.756	.500	S	*475149	47
3.350	3.356	.468	H	*450329H	45	3.751	3.756	.500	N	*475149N	47
						3.751	3.756	.500	S	*485149	48
						3.751	3.756	.875	S	*75149S	7S
						3.813	3.818	.415	S	200392	200
						3.876	3.881	.437	S	*417483	41
						3.876	3.881	.468	S	*415007	41

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.625" (2-5/8") SHAFT (cont.)						68,00mm (2.677") SHAFT (cont.)					
3.876	3.881	.468	S	*455007	45	89,72	90,00	8,00	S	*68X90X8★	32
3.876	3.881	.468	S	*475007	47	3.532	3.543	.315			
3.876	3.881	.468	S	*485007	48	89,72	90,00	12,00	S	*68X90X12★	32
4.003	4.008	.375	S	*417082	41	3.532	3.543	.472			
4.003	4.008	.375	S	*487082	48	89,72	90,00	13,00	S	*68X90X13★	32
4.003	4.008	.468	S	*415296	41	3.532	3.543	.512			
4.003	4.008	.468	N	*415296N	41	90,00	90,10	12,00	S	710440★	47
4.003	4.008	.468	S	*455296	45	3.543	3.547	.472			
4.003	4.008	.468	S	*475296	47	90,00	90,15	10,00	T	712108★➔	FW-H
4.003	4.008	.468	S	*485296	48	3.543	3.549	.394			
4.064	4.069	.960	N	712625	90	90,00	90,20	7,00	S	68X90X7★	32
4.064	4.069	.990	N	*4037	#	3.543	3.551	.276			
4.249	4.254	.468	S	*416278	41	90,00	90,20	10,00	V	*68X90X10V★	32
4.252	4.256	1.156	S	*6982S	#	3.543	3.551	.394			
4.376	4.381	.500	V	*477586V	47	90,00	90,32	10,00	S	68X90X10★	32
4.437	4.441	.437	S	*418027	41	3.543	3.556	.394			
4.564	4.568	.718	N	9773&	74	94,72	95,00	13,00	S	*68X95X13★	32
2.634" SHAFT						68,00mm (2.677") SHAFT (cont.)					
-	-	-	S	800650	VRS1	3.729	3.740	.512			
-	-	-	V	800654	VRS1	95,00	95,20	8,00	S	*68X95X8★	32
3.937	3.942	.375	S	*487658	48	3.740	3.748	.315			
67,00mm (2.638") SHAFT						68,00mm (2.677") SHAFT (cont.)					
81,72	82,00	7,00	S	*67X82X7★	32	95,00	95,20	10,00	S	68X95X10★	35
3.217	3.228	.276				3.740	3.748	.394			
2.640" SHAFT						68,00mm (2.677") SHAFT (cont.)					
-	-	-	S	800650	VRS1	95,00	95,28	7,00	S	68X95X7★	32
-	-	-	V	800654	VRS1	3.740	3.751	.276			
4.450	4.490	.250	S	*6846S	#	95,00	95,30	13,00	V	226840★	#
2.648" SHAFT						68,00mm (2.677") SHAFT (cont.)					
-	-	-	S	800650	VRS1	3.740	3.752	.512			
-	-	-	V	800654	VRS1	97,72	98,00	10,00	S	*68X98X10★	32
3.812	3.817	.500	S	486857	48	3.847	3.858	.394			
2.667" SHAFT						68,00mm (2.677") SHAFT (cont.)					
-	-	-	S	800650	VRS1	99,72	100,00	12,00	S	*68X100X12★	32
-	-	-	V	800654	VRS1	3.926	3.937	.472			
3.751	3.756	.500	L	7780	4L	100,00	100,20	10,00	S	68X100X10★	35
3.751	3.756	.500	L	7780N	4L	3.937	3.945	.394			
3.751	3.756	.500	S	*447441	44	100,00	100,28	7,00	S	68X100X7★	32
68,00mm (2.677") SHAFT						68,00mm (2.677") SHAFT (cont.)					
-	-	-	S	800650	VRS1	3.937	3.948	.276			
-	-	-	V	800654	VRS1	100,00	100,28	13,00	S	68X100X13★	32
82,00	82,20	7,00	S	68X82X7★	32	3.937	3.948	.512			
3.228	3.236	.276				124,00	124,10	12,00	N	710275★◀	40
82,00	82,20	7,00	S	710378★	35	4.882	4.886	.472			
3.228	3.236	.276				2.687" (2-11/16") SHAFT					
84,00	84,23	8,50	N	710234★◀	32	-	-	-	S	800700	VRS1
3.307	3.316	.335				-	-	-	V	800704	VRS1
84,72	85,00	10,00	S	*68X85X10★	32	3.062	3.062	.187	S	*6542%	36
3.335	3.346	.394				3.251	3.256	.578	S	*6532S	273
85,00	85,20	8,00	S	68X85X8★	35	3.500	3.505	.500	S	*455434	45
3.346	3.354	.315				3.751	3.756	.500	S	*455151	45
86,00	86,20	8,00	N	710334★◀	32	3.751	3.756	.500	S	*485151	48
3.386	3.394	.315				3.876	3.876	.250	S	365008%	36
86,00	86,31	8,00	H	226820★➔	32	3.876	3.881	.468	S	*455008	45
3.386	3.398	.315				2.700" SHAFT					
88,00	88,20	8,00	S	*68X88X8★	32	-	-	-	S	800700	VRS1
3.465	3.472	.315				-	-	-	V	800704	VRS1
88,00	88,20	8,00	S	710446★➔	35	3.499	3.504	.462	S	710091&	272
3.465	3.472	.315				69,00mm (2.717") SHAFT					
89,00	89,20	11,00	V	712511★➔	32	-	-	-	S	800700	VRS1
3.504	3.512	.433				-	-	-	V	800704	VRS1
2.735" SHAFT						69,00mm (2.717") SHAFT (cont.)					
-	-	-	S	800700	VRS1	91,72	92,00	12,00	S	*69X92X12★	32
-	-	-	V	800704	VRS1	3.611	3.622	.472			
3.415	-	.188	U	710039	#	2.740" SHAFT					
2.740" SHAFT						69,00mm (2.717") SHAFT (cont.)					
3.937	3.942	.565	S	*370155A	06	-	-	-	S	800700	VRS1

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).
 ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.748" SHAFT						2.750" (2-3/4") SHAFT (cont.)					
-	-	-	S	800700	VRS1	3.623	3.628	.468	V	*455315V	45
-	-	-	V	800704	VRS1	3.623	3.628	.468	S	*475315	47
-	-	.781		*99270	Redi-Sleeve	3.623	3.628	.468	S	*485315	48
-	-	.781		99274	Redi-Sleeve	3.623	3.628	.500	S	*456876	45
-	-	1.438		99267	Redi-Sleeve	3.750	3.754	.500	U	710010	#
3.543	3.555	.591	N	4874N◀	#	3.751	3.756	.250	S	46997S	4S
3.876	3.886	.552	V	4564V▶	#	3.751	3.756	.375	V	417316V	41
3.881	3.885	.464	S	710174	47	3.751	3.756	.375	S	*417316N	41
3.937	3.942	.305	S	*200122	200	3.751	3.756	.375	N	*417316N	41
5.500	5.512	.850	N	4876N▶	#	3.751	3.756	.375	S	*457316	45
2.750" (2-3/4") SHAFT						3.751	3.756	.375	S	*477316	47
-	-	-	S	800700	VRS1	3.751	3.756	.375	H	*477316H	47
-	-	-	V	800704	VRS1	3.751	3.756	.375	S	*487316	48
-	-	.406		99272	Redi-Sleeve	3.751	3.756	.437	S	*415733	41
-	-	.781		*99270	Redi-Sleeve	3.751	3.756	.437	S	*475733	47
-	-	.781		99274	Redi-Sleeve	3.751	3.756	.500	S	415004	41
-	-	.781		99275	Redi-Sleeve	3.751	3.756	.500	H	*415004H	41
-	-	1.125		99269	Redi-Sleeve	3.751	3.756	.500	N	*415004N	41
-	-	1.438		99267	Redi-Sleeve	3.751	3.756	.500	V	415004V	41
-	6.200	.700	S	6643S	52	3.751	3.756	.500	S	455004	45
3.125	3.130	.187	S	310841	31	3.751	3.756	.500	H	*455004H	45
3.250	-	.312	U	710038	#	3.751	3.756	.500	N	*455004N	45
3.481	3.486	.500	S	480491	48	3.751	3.756	.500	S	*475004	47
3.500	3.505	.250	S	*315364	31	3.751	3.756	.500	H	*455004H	45
3.500	3.505	.250	H	*315364H	31	3.751	3.756	.500	N	*455004N	45
3.500	3.505	.375	V	416664V	41	3.751	3.756	.500	S	*475004	47
3.500	3.505	.375	S	416664	41	3.751	3.756	.500	H	475004H	47
3.500	3.505	.375	S	*456664	45	3.751	3.756	.500	N	*475004N	47
3.500	3.505	.375	S	*476664	47	3.751	3.756	.500	S	*485004	48
3.500	3.505	.375	S	*486664	48	3.773	3.781	.435	S	2222&	286
3.500	3.505	.500	S	*415364	41	3.779	3.784	.762	S	710395	06
3.500	3.505	.500	H	*415364H	41	3.779	3.792	.767	S	370352A	08
3.500	3.505	.500	S	455364	45	3.846	3.928	.290	S	200942%	200E
3.500	3.505	.500	N	*455364N	45	3.876	3.881	.375	S	415960	41
3.500	3.505	.500	S	*475364	47	3.876	3.881	.375	S	*455960	45
3.500	3.505	.500	H	*485364	48	3.876	3.881	.375	S	*475960	47
3.500	3.505	.500	N	*485364N	48	3.876	3.881	.375	S	*485960	48
3.500	3.505	.500	S	*455364N	45	3.876	3.881	.468	S	415009	41
3.500	3.505	.500	S	*475364	47	3.876	3.881	.468	N	415009N	41
3.500	3.505	.500	H	*485364H	48	3.876	3.881	.468	S	455009	45
3.500	3.505	.500	N	485364N	48	3.876	3.881	.468	N	*455009N	45
3.500	3.505	.567	N	*256936N	25	3.876	3.881	.468	S	*475009	47
3.501	3.505	.250	S	45827S	4S	3.876	3.881	.468	N	*475009N	47
3.538	3.543	.437	S	457291	45	3.876	3.881	.500	S	*455719	45
3.538	3.543	.500	S	*455872	45	3.935	3.940	.500	S	55469	5L
3.538	3.543	.500	V	*455872V	45	3.937	3.942	.500	N	476574N	47
3.543	3.548	.375	S	417484	41	4.003	4.008	.375	S	416706	41
3.543	3.548	.375	N	417484N	41	4.003	4.008	.375	H	*416706H	41
3.543	3.548	.500	V	4492	#	4.003	4.008	.375	N	*476706N	47
3.543	3.548	.500	S	415322	41	4.003	4.008	.468	S	*415272	41
3.543	3.548	.500	N	*415322N	41	4.003	4.008	.468	N	415272N	41
3.543	3.548	.500	V	415322V	41	4.003	4.008	.468	S	455272	45
3.543	3.548	.500	S	455322	45	4.003	4.008	.468	S	*475272	47
3.543	3.548	.500	N	455322N	45	4.003	4.008	.468	N	*475272N	47
3.543	3.548	.500	V	455322V	45	4.003	4.008	.468	S	*485272	48
3.543	3.548	.500	S	*475322	47	4.125	4.130	.437	N	*487678N	48
3.543	3.548	.500	N	475322N	47	4.125	4.130	.562	N	*456281N	45
3.543	3.548	.500	S	*485322	48	4.125	4.130	.562	S	476281	47
3.543	3.548	.500	V	*100266V◀	#	4.125	4.130	.562	N	*476281N	47
3.623	3.628	.375	S	415984	41	4.125	4.130	.562	N	*486281N	48
3.623	3.628	.375	S	*455984	45	4.125	4.130	.562	V	*486281V	48
3.623	3.628	.375	S	*475984	47	4.249	4.254	.468	S	416282	41
3.623	3.628	.375	N	*475984N	47	4.249	4.254	.468	S	*456282	45
3.623	3.628	.375	S	*485984	48	4.249	4.254	.468	S	*476282	47
3.623	3.628	.468	S	*415315	41	4.249	4.254	.500	S	*416283	41
3.623	3.628	.468	N	*415315N	41	4.249	4.254	.500	S	*476283	47
3.623	3.628	.468	S	*455315	45	4.249	4.254	.500	N	476283N	47
3.623	3.628	.468	N	*455315N	45	4.249	4.254	.625	S	*415101	41
						4.331	4.336	.500	S	*416961	41
						4.331	4.336	.500	N	*416961N	41
						4.375	4.380	.625	N	*487384N	48
						4.500	4.505	.468	S	454088	45
						4.626	4.631	.625	N	*475139N	47

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.750" (2-3/4") SHAFT (cont.)						70,00mm (2.756") SHAFT (cont.)					
4.999	5.004	.468	L	55238	5L	95,00	95,28	13,00	S	70X95X13★	35
5.500	5.506	.500	N	417986N	41	3.740	3.751	.512			
5.501	5.506	1.266	N	3591	90	99,72	100,00	12,00	S	*70X100X12★	32
2.752" SHAFT											
3.937	3.942	.565	S	*370127A	#	3.926	3.937	.472			
70,00mm (2.756") SHAFT											
-	-	-	S	800700	VRS1	99,72	100,00	14,00	S	*70X100X14★	32
-	-	-	V	800704	VRS1	3.926	3.937	.551			
-	-	.406		99272	Redi-Sleeve	100,00	100,20	10,00	S	70X100X10★	32
-	-	.781		99275	Redi-Sleeve	3.937	3.945	.394			
-	-	.787		99276	Redi-Sleeve	100,00	100,20	10,00	V	*70X100X10V★	35
-	-	1.125		99269	Redi-Sleeve	3.937	3.945	.394			
79,72	80,00	10,00	S	*70X80X10★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.139	3.150	.394				3.937	3.945	.394			
82,72	83,00	10,00	S	*70X83X10★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.257	3.268	.394				3.937	3.945	.394			
84,72	85,00	9,00	S	*70X85X9★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.335	3.346	.354				3.937	3.945	.394			
84,72	85,00	10,00	S	*70X85X10★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.335	3.346	.394				3.937	3.945	.394			
85,00	85,28	8,00	S	70X85X8★	35	100,00	100,20	10,00	V	*70X100X10V★	35
3.346	3.357	.315				3.937	3.945	.394			
86,72	87,00	10,00	S	*70X87X10★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.414	3.425	.394				3.937	3.945	.394			
87,00	87,40	8,50	V	1021★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.425	3.441	.335				3.937	3.945	.394			
87,00	87,40	8,50	V	1021V★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.425	3.441	.335				3.937	3.945	.394			
87,72	88,00	10,00	S	*70X88X10★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.454	3.465	.394				3.937	3.945	.394			
88,00	88,20	9,00	V	*70X88X9V★	35	100,00	100,20	10,00	V	*70X100X10V★	35
3.465	3.472	.354				3.937	3.945	.394			
88,00	88,25	8,00	S	70X88X8★	48	100,00	100,20	10,00	V	*70X100X10V★	35
3.465	3.474	.315				3.937	3.945	.394			
88,00	88,25	12,00	S	70X88X12★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.465	3.474	.472				3.937	3.945	.394			
88,00	88,25	12,00	H	227020★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.465	3.474	.472				3.937	3.945	.394			
89,72	90,00	8,00	S	*70X90X8★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.532	3.543	.315				3.937	3.945	.394			
89,72	90,00	12,00	S	*70X90X12★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.532	3.543	.472				3.937	3.945	.394			
89,72	90,00	13,00	S	*70X90X13★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.532	3.543	.512				3.937	3.945	.394			
90,00	90,20	7,00	S	70X90X7★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.543	3.551	.276				3.937	3.945	.394			
90,00	90,20	10,00	V	*70X90X10V★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.543	3.551	.394				3.937	3.945	.394			
90,00	90,32	10,00	S	70X90X10★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.543	3.556	.394				3.937	3.945	.394			
90,00	90,32	10,00	H	227040★	35	100,00	100,20	10,00	V	*70X100X10V★	35
3.543	3.556	.394				3.937	3.945	.394			
90,00	90,40	10,00	S	*1162★	35	100,00	100,20	10,00	V	*70X100X10V★	35
3.543	3.559	.394				3.937	3.945	.394			
92,00	92,15	11,90	H	*477936H★	47	100,00	100,20	10,00	V	*70X100X10V★	35
3.622	3.628	.469				3.937	3.945	.394			
92,00	92,20	12,00	S	70X92X12★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.622	3.630	.472				3.937	3.945	.394			
92,00	92,23	12,00	H	227045★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.622	3.631	.472				3.937	3.945	.394			
94,72	95,00	12,00	S	*70X95X12★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.729	3.740	.472				3.937	3.945	.394			
95,00	95,20	10,00	V	*70X95X10V★	35	100,00	100,20	10,00	V	*70X100X10V★	35
3.740	3.748	.394				3.937	3.945	.394			
95,00	95,28	10,00	S	70X95X10★	32	100,00	100,20	10,00	V	*70X100X10V★	35
3.740	3.751	.394				3.937	3.945	.394			

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
72,00mm (2.835") SHAFT (cont.)						2.875" (2-7/8") SHAFT (cont.)					
85,72	86,00	7,50	S	*72X86X7.5★	32	3.623	3.628	.500	H	3783	65
3.375	3.386	.295				3.623	3.628	.500	T	39802➔	FW-H
88,00	88,25	8,00	S	1986★	48	3.740	3.746	.551	V	*488020V	48
3.465	3.474	.315				3.750	3.755	.500	T	41536➔	PDW
89,72	90,00	8,00	S	*72X90X8★	32	3.750	3.755	.500	T	41537➔	PDW
3.532	3.543	.315				3.751	3.756	.375	S	417344	41
90,00	90,20	10,00	S	72X90X10★	35	3.751	3.756	.375	S	*457344	45
3.543	3.551	.394				3.751	3.756	.375	S	*477344	47
91,72	92,00	12,00	S	*72X92X12★	32	3.751	3.756	.375	V	*477344V	47
3.611	3.622	.472				3.751	3.756	.375	S	*487344	48
93,72	94,00	12,00	S	*72X94X12★	32	3.751	3.756	.375	V	487344V	48
3.690	3.701	.472				3.751	3.756	.500	S	*9711	41
94,72	95,00	12,00	S	*72X95X12★	32	3.751	3.756	.500	S	*415006	41
3.729	3.740	.472				3.751	3.756	.500	N	*415006N	41
94,72	95,00	13,00	S	*72X95X13★	32	3.751	3.756	.500	V	*415006V	41
3.729	3.740	.512				3.751	3.756	.500	S	455006	45
95,00	95,28	10,00	S	72X95X10★	32	3.751	3.756	.500	N	455006N	45
3.740	3.751	.394				3.751	3.756	.500	S	*475006	47
96,00	96,28	9,00	H	227235★➔	32	3.751	3.756	.500	N	*475006N	47
3.780	3.791	.354				3.751	3.756	.500	S	*485006	48
100,00	100,20	10,00	S	72X100X10★	35	3.875	3.880	.515	S	9864S&	57
3.937	3.945	.394				3.875	3.889	.500	S	370150A	07
100,00	100,31	12,00	S	72X100X12★➔➔	32	3.876	3.881	.375	S	417158	41
3.937	3.949	.472				3.876	3.881	.375	S	*457158	45
104,72	105,00	13,00	S	*72X105X13★	32	3.876	3.881	.375	S	*477158	47
4.123	4.134	.512				3.876	3.881	.375	V	*477158V	47
105,00	105,20	10,00	S	*72X105X10★	32	3.876	3.881	.375	S	*487158	48
4.134	4.142	.394				3.876	3.881	.468	V	*2278	#
110,00	110,20	10,00	S	*72X110X10★	32	3.876	3.881	.468	S	*3339	44
4.331	4.339	.394				3.876	3.881	.468	S	*415355	41
						3.876	3.881	.468	N	*415355N	41
						3.876	3.881	.468	S	455355	45
						3.876	3.881	.468	S	*475355	47
						3.876	3.881	.468	S	*485355	48
						4.003	4.008	.250	S	*4012	#
		.500		99282	Redi-Sleeve	4.003	4.008	.250	S	43086S	4S
3.939	3.944	.495	S	2081➔➔	41	4.003	4.008	.375	S	416921	41
3.939	3.944	.500	S	*55511S	5S	4.003	4.008	.375	S	*456921	45
3.939	3.944	.500	S	*455511	45	4.003	4.008	.375	S	*476921	47
4.003	4.008	.500	V	456837V	45	4.003	4.008	.375	S	*486921	48
4.501	4.506	.375	S	*456111	45	4.003	4.008	.468	V	*3441V	#
						4.003	4.008	.468	S	*415011	41
						4.003	4.008	.468	H	*415011H	41
						4.003	4.008	.468	N	*415011N	41
						4.003	4.008	.468	S	455011	45
						4.003	4.008	.468	N	*455011N	45
						4.003	4.008	.468	V	*455011V	45
						4.003	4.008	.468	S	*475011	47
						4.003	4.008	.468	S	*485011	48
						4.003	4.008	.468	N	*485011N	48
						4.003	4.008	.500	S	*456886	45
		.781		99287	Redi-Sleeve	4.125	4.130	.375	S	417134	41
86,00	86,28	5,00	S	239129★	#	4.125	4.130	.375	S	*457134	45
3.386	3.397	.197				4.125	4.130	.562	S	*415152	41
						4.125	4.130	.562	S	*455152	45
						4.125	4.130	.562	S	*475152	47
						4.125	4.130	.562	S	*485152	48
						4.125	4.130	.812	S	6780S	21
						4.125	4.130	.842	S	370010A	01
						4.175	4.180	.812	S	2674	89
		.781		99287	Redi-Sleeve	4.175	4.181	.822	S	370054A	03
3.540	3.548	.315	S	474230	47	4.249	4.254	.500	S	416285	41
3.623	3.628	.375	S	415303	41	4.249	4.254	.625	S	*416286	41
3.623	3.628	.375	S	*455303	45	4.249	4.254	.625	S	*456286	45
3.623	3.628	.375	S	*475303	47	4.249	4.254	.625	S	*476286	47
3.623	3.628	.375	S	*485303	48	4.249	4.254	.625	S	*486286	48
3.623	3.628	.375	N	*485303N	48	4.331	4.336	.500	H	*416426H	41
3.623	3.628	.468	S	*416275	41	4.331	4.336	.500	N	*416426N	41
3.623	3.628	.468	N	*416275N	41	4.335	4.340	.437	F	*295113	29
3.623	3.628	.468	S	*455250	45	4.335	4.340	.437	S	455310	45
3.623	3.628	.468	N	*455250N	45	4.335	4.340	.437	V	*455310V	45
						4.376	4.381	.625	S	455556	45

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ➔ Hydrodynamic Lip Design-CCW

➔➔ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.875" (2-7/8") SHAFT (cont.)						2.937" (2-15/16") SHAFT (cont.)					
4.499	4.504	.468	S	*415144	41	4.003	4.008	.468	N	475012N	47
4.499	4.504	.468	S	455144	45	4.003	4.008	.625	N	*35012N	43
4.499	4.504	.468	S	*475144	47	4.003	4.008	.625	S	*417730	41
4.499	4.504	.468	S	*485144	48	4.003	4.008	.697	V	*3623	#
4.500	4.505	.406	F	*296121	29	4.125	4.130	.375	S	417486	41
2.882" SHAFT						4.125	4.130	.562	S	*455153	45
-	-	-	S	800750	VRS1	4.249	4.254	.625	N	*475348N	47
-	-	-	S	800751	VRS2	4.250	4.254	.468	S	416775	41
-	-	-	V	800754	VRS1	4.499	4.504	.468	S	*415356	41
-	-	-	V	800755	VRS2	4.499	4.504	.468	N	*415356N	41
3.431	3.436	.291	S	4122	47	4.499	4.504	.468	V	*415356V	41
3.431	3.436	.291	S	470547	47	4.499	4.504	.468	S	455356	45
74,00mm (2.913") SHAFT						4.939	4.944	1.250	N	*4035N	90
-	-	-	S	800750	VRS1	4.939	4.944	1.250	N	712937	90
-	-	-	S	800751	VRS2	2.938" SHAFT					
-	-	-	V	800754	VRS1	-	-	-	S	800750	VRS1
-	-	-	V	800755	VRS2	-	-	-	S	800751	VRS2
89,72	90,00	10,00	S	*74X90X10★	32	-	-	.500	-	800754	VRS1
3.532	3.543	.394	-	-	-	-	-	.781	-	800755	VRS2
90,00	90,15	10,00	H	227409★◀	32	-	-	-	-	99290	Redi-Sleeve
3.543	3.549	.394	-	-	-	-	-	-	-	99293	Redi-Sleeve
93,72	94,00	10,00	S	*74X94X10★	32	3.750	3.765	.530	S	*370223A	#
3.690	3.701	.394	-	-	-	3.937	3.947	.552	V	4563V▶	#
94,72	95,00	7,00	S	*74X95X7★	32	4.003	4.008	.619	N	*4143N	#
3.729	3.740	.276	-	-	-	2.948" SHAFT					
98,00	98,20	12,00	H	227410★▶	32	4.725	4.738	.526	S	370211A	07
3.858	3.866	.472	-	-	-	2.950" SHAFT					
99,72	100,00	13,00	S	*74X100X13★	32	-	-	-	S	800750	VRS1
3.926	3.937	.512	-	-	-	-	-	-	S	800751	VRS2
2.930" SHAFT						-	-	-	V	800754	VRS1
-	-	-	S	800750	VRS1	-	-	-	V	800755	VRS2
-	-	-	S	800751	VRS2	-	-	.594	*	99289	Redi-Sleeve
-	-	-	V	800754	VRS1	-	-	.866	-	99294	Redi-Sleeve
-	-	-	V	800755	VRS2	3.741	3.752	.394	S	354967	35
4.375	4.380	1.120	S	*396487	#	4.527	4.533	.375	S	*476515	47
2.937" (2-15/16") SHAFT						75,00mm (2.953") SHAFT					
-	-	-	S	800750	VRS1	-	-	-	S	800750	VRS1
-	-	-	S	800751	VRS2	-	-	-	S	800751	VRS2
-	-	-	V	800754	VRS1	-	-	-	V	800754	VRS1
-	-	.500	-	800755	VRS2	-	-	-	V	800755	VRS2
-	-	.781	-	99290	Redi-Sleeve	-	-	.594	*	99289	Redi-Sleeve
-	-	.781	-	99293	Redi-Sleeve	-	-	.866	-	99294	Redi-Sleeve
3.751	3.756	.375	S	416956	41	83,00	87,00	4,00	S	710240★%	#
3.751	3.756	.500	S	*455383	45	3.268	3.425	.157	-	-	-
3.876	3.881	.375	V	417159V	41	89,72	90,00	12,00	S	*75X90X12★	32
3.876	3.881	.375	S	417159	41	3.532	3.543	.472	-	-	-
3.876	3.881	.468	S	*415347	41	90,00	90,20	8,00	S	75X90X8★	32
3.876	3.881	.468	N	*415347N	41	3.543	3.551	.315	-	-	-
3.876	3.881	.468	S	*455347	45	90,00	90,25	10,00	S	75X90X10★	32
3.937	3.942	.500	N	35949N	41	3.543	3.553	.394	-	-	-
3.937	3.942	.500	S	416500	41	91,72	92,00	12,00	S	*75X92X12★	32
3.937	3.942	.500	N	*416500N	41	3.611	3.622	.472	-	-	-
3.937	3.942	.500	S	*456500	45	93,00	93,12	8,00	T	39804★▶	FW-H
3.937	3.942	.500	S	*476500	47	3.661	3.666	.315	-	-	-
3.937	3.942	.500	N	476500N	47	94,72	95,00	8,00	S	*75X95X8★	32
4.003	4.008	.375	S	416654	41	3.729	3.740	.315	-	-	-
4.003	4.008	.375	N	*476654N	47	94,72	95,00	12,00	S	*75X95X12★	32
4.003	4.008	.468	S	*415012	41	3.729	3.740	.472	-	-	-
4.003	4.008	.468	N	*415012N	41	94,72	95,00	13,00	S	*75X95X13★	32
4.003	4.008	.468	V	415012V	41	3.729	3.740	.512	-	-	-
4.003	4.008	.468	S	455012	45						
4.003	4.008	.468	N	*455012N	45						
4.003	4.008	.468	V	*455012V	45						
4.003	4.008	.468	S	*475012	47						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

SIZE SECTION

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
75,00mm (2.953") SHAFT (cont.)						2.991" SHAFT (cont.)					
95,00	95,20	10,00	V	*75X95X10V★	32	-	-	.563		99298	Redi-Sleeve
3.740	3.748	.394				-	-	.813		99299	Redi-Sleeve
95,00	95,28	10,00	S	227530★	35	3.622	3.637	.380	V	*327995V	32
3.740	3.751	.394				3.622	3.637	.385	T	*100202T◀	FW-H
95,00	95,28	10,00	S	75X95X10★	32	76,00mm (2.992") SHAFT					
3.740	3.751	.394				-	-	-	S	800750	VRS1
95,00	95,27	10,00	V	716445★	35	-	-	-	S	800751	VRS2
3.740	3.751	.394				-	-	-	V	800754	VRS1
99,72	100,00	13,00	S	*75X100X13★	32	-	-	-	V	800755	VRS2
3.926	3.937	.512				-	-	.484		99291	Redi-Sleeve
100,00	100,10	13,00	S	710384★	25	-	-	.563		99298	Redi-Sleeve
3.937	3.941	.512				-	-	.813		99299	Redi-Sleeve
100,00	100,20	10,00	S	75X100X10★	32	91,72	92,00	10,00	S	*76X92X10★	32
3.937	3.945	.394				3.611	3.622	.394			
100,00	100,20	10,00	V	*75X100X10V★	32	92,00	92,28	9,50	V	4307V★◀	32
3.937	3.945	.394				3.622	3.633	.374			
100,00	100,20	12,00	S	227540★	32	92,00	92,28	9,60	V	327995★◀	32
3.937	3.945	.472				3.622	3.633	.378			
100,00	100,27	12,00	S	75X100X12★	32	93,00	93,30	10,00	H	1019★◀	32
3.937	3.948	.472				3.661	3.673	.394			
100,00	100,27	13,00	H	227550★◀	32	93,72	94,00	12,00	S	*76X94X12★	32
3.937	3.948	.472				3.690	3.701	.472			
101,72	102,00	13,00	S	*75X102X13★	32	98,00	98,20	12,00	H	227610★➔	32
4.005	4.016	.512				3.858	3.866	.472			
104,72	105,00	15,00	S	*75X105X15★	32	102,00	102,20	9,50	S	710375★	#
4.123	4.134	.591				4.016	4.024	.374			
105,00	105,27	13,00	S	75X105X13★	32	104,72	105,00	12,00	S	*76X105X12★	32
4.134	4.144	.512				4.123	4.134	.472			
105,72	106,00	10,00	S	*75X106X10★	32	104,72	105,00	13,00	S	*76X105X13★	32
4.162	4.173	.394				4.123	4.134	.512			
109,72	110,00	13,00	S	*75X110X13★	32	3.000" SHAFT					
4.320	4.331	.512				-	-	-	S	800750	VRS1
110,00	110,20	10,00	S	*75X110X10★	32	-	-	-	S	800751	VRS2
4.331	4.339	.394				-	-	-	V	800754	VRS1
110,00	110,20	12,00	S	75X110X12★	32	-	-	-	V	800755	VRS2
4.331	4.339	.472				-	-	.625		99303	Redi-Sleeve
112,00	112,10	10,00	S	710376★	#	-	-	.813		99296	Redi-Sleeve
4.409	4.413	.394				-	-	.813		99300	Redi-Sleeve
112,00	112,17	10,00	S	710087★	45	3.500	-	.313	U	710028	#
4.409	4.416	.394				3.686	3.702	.523	N	7338N&	56
114,72	115,00	9,50	S	*75X115X9.5★	32	3.751	3.756	.375	N	476023N	47
4.517	4.528	.374				3.751	3.756	.375	V	*476023V	47
114,72	115,00	13,00	S	*75X115X13★	32	3.751	3.756	.375	S	*486023	48
4.517	4.528	.512				3.751	3.756	.375	N	*486023N	48
115,00	115,20	10,00	S	*75X115X10★	32	3.751	3.756	.437	V	417349V	41
4.528	4.535	.394				3.751	3.756	.437	S	417349	41
115,00	115,30	12,00	S	75X115X12★	35	3.751	3.756	.437	S	*457349	45
4.528	4.539	.472				3.751	3.756	.437	S	*477349	47
119,72	120,00	12,00	S	*75X120X12★	32	3.751	3.756	.437	S	*487349	48
4.713	4.724	.472				3.751	3.756	.500	S	*415281	41
120,00	120,12	8,13	S	200322★	200	3.751	3.756	.500	N	415281N	41
4.724	4.729	.320				3.751	3.756	.500	V	*415281V	41
120,00	120,20	10,00	S	75X120X10★	32	3.751	3.756	.500	S	*455281	45
4.724	4.732	.394				3.751	3.756	.500	H	*455281H	45
133,70	134,00	10,00	S	*75X134X10★	32	3.751	3.756	.500	N	*455281N	45
5.264	5.276	.394				3.751	3.756	.500	S	*475281	47
2.988" SHAFT						3.751	3.756	.500	N	*475281N	47
-	-	-	S	800750	VRS1	3.751	3.756	.500	S	*485281	48
-	-	-	S	800751	VRS2	3.752	3.760	.375	S	*6442S	35
-	-	-	V	800754	VRS1	3.876	3.881	.437	S	417350	41
-	-	-	V	800755	VRS2	3.876	3.881	.437	S	*457350	45
3.740	3.748	.374	H	3698◀	32	3.876	3.881	.437	S	*477350	47
2.991" SHAFT						3.876	3.881	.437	S	*487350	48
-	-	-	S	800750	VRS1	3.876	3.881	.468	S	*415479	41
-	-	-	S	800751	VRS2						
-	-	-	V	800754	VRS1						
-	-	-	V	800755	VRS2						
-	-	.484		99291	Redi-Sleeve						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
3.000" SHAFT (cont.)						3.000" SHAFT (cont.)					
3.876	3.881	.468	N	*415479N	41	4.331	4.336	.500	S	415962	41
3.876	3.881	.468	S	455479	45	4.376	4.381	.500	S	417488	41
3.876	3.881	.468	V	455479V	45	4.376	4.381	.625	S	*415158	41
3.876	3.881	.468	S	*475479	47	4.376	4.381	.625	N	*415158N	41
3.876	3.881	.468	H	*475479H	47	4.376	4.381	.625	S	*455158	45
3.876	3.881	.468	N	*475479N	47	4.376	4.381	.760	V	*2515V	#
3.876	3.881	.468	S	*485479	48	4.490	4.508	.562	S	*325088	32
3.876	3.881	.500	N	*415526N	41	4.499	4.504	.468	S	415088	41
3.876	3.881	.500	N	*455526N	45	4.499	4.504	.468	N	*415088N	41
3.876	3.885	.500	S	355526	35	4.499	4.504	.468	S	455088	45
3.936	3.941	.500	S	455509	45	4.499	4.504	.468	N	*455088N	45
3.999	4.004	.437	S	453182	45	4.499	4.504	.468	V	455088V	45
4.000	4.008	.500	U	710011	#	4.499	4.504	.468	S	*475088	47
4.000	4.012	.600	U	710009	#	4.499	4.504	.468	N	*475088N	47
4.002	4.625	.884	S	*8427	#	4.499	4.504	.468	S	*485088	48
4.003	4.008	.250	S	45013S	4S	4.500	4.506	.500	S	*487162	48
4.003	4.008	.312	V	710457	86	4.501	4.506	.468	S	*457163	45
4.003	4.008	.375	S	*7021S	48	4.501	4.506	.468	N	477163N	47
4.003	4.008	.375	S	415995	41	4.524	4.600	.433	S	200133%	200E
4.003	4.008	.375	A	415995A	41	4.626	4.631	.500	L	55548	5L
4.003	4.008	.375	N	*415995N	41	4.750	4.756	.500	S	*457165	45
4.003	4.008	.375	V	415995V	41	4.751	4.756	.625	S	416370	41
4.003	4.008	.375	N	455995N	45	4.751	4.756	.625	S	*456370	45
4.003	4.008	.375	S	*475995	47	4.751	4.756	.625	S	*476370	47
4.003	4.008	.375	V	*475995V	47	4.751	4.756	.625	S	*486370	48
4.003	4.008	.437	V	415836V	41	4.875	4.881	.625	S	455820	45
4.003	4.008	.437	S	415836	41	4.938	4.943	.740	N	3905&	76
4.003	4.008	.437	N	415836N	41	4.999	5.004	.468	S	*415019	41
4.003	4.008	.437	S	*455836	45	4.999	5.004	.468	S	455019	45
4.003	4.008	.437	S	*475836	47	4.999	5.004	.468	S	*475019	47
4.003	4.008	.437	V	*475836V	47	4.999	5.004	.468	S	*485019	48
4.003	4.008	.437	S	*485836	48	5.000	5.006	.859	S	*76894S	7S
4.003	4.008	.468	S	*3204	#	5.500	5.506	.531	N	3143N&	74
4.003	4.008	.468	S	415013	41	5.501	5.506	1.266	N	3592	90
4.003	4.008	.468	N	415013N	41	5.501	5.507	.312	S	*7843	#
4.003	4.008	.468	V	*415013V	41	5.750	5.764	.413	N	712000	#
4.003	4.008	.468	S	455013	45	5.751	5.756	.840	N	710008&	74
4.003	4.008	.468	H	*455013H	45	3.003" SHAFT					
4.003	4.008	.468	N	*455013N	45	-	-	-	S	800750	VRS1
4.003	4.008	.468	V	*455013V	45	-	-	-	S	800751	VRS2
4.003	4.008	.468	S	*475013	47	-	-	-	V	800754	VRS1
4.003	4.008	.468	N	*475013N	47	-	-	-	V	800755	VRS2
4.003	4.008	.468	S	*485013	48	-	-	.625		99303	Redi-Sleeve
4.003	4.008	.640	N	*7774N	#	-	-	.813		99296	Redi-Sleeve
4.125	4.130	.312	S	*7844	#	-	-	.813		99300	Redi-Sleeve
4.125	4.130	.437	S	417351	41	3.751	3.761	.420	V	100495	08
4.125	4.130	.437	S	*457351	45	3.751	3.761	.570	V	4810V➔	#
4.125	4.130	.437	S	*477351	47	3.751	3.761	.570	V	714810◀	#
4.125	4.130	.438	S	*487119	48	3.951	3.961	.289	N	*100373	#
4.125	4.130	.562	S	*415154	41	4.028	4.038	.302	N	*100406	#
4.125	4.130	.562	S	455154	45	4.937	4.948	.662	V	4562V➔	#
4.125	4.130	.562	S	*475154	47	4.937	4.948	.788	V	100263➔	08
4.125	4.130	.562	S	*485154	48	77,00mm (3.031") SHAFT					
4.249	4.254	.437	S	417487	41	-	-	-	S	800750	VRS1
4.249	4.254	.468	S	*415086	41	-	-	-	S	800751	VRS2
4.249	4.254	.468	N	415086N	41	-	-	-	V	800754	VRS1
4.249	4.254	.468	S	455086	45	-	-	-	V	800755	VRS2
4.249	4.254	.468	H	*455086H	45	99,72	100,00	10,00	S	*77X100X10★	32
4.249	4.254	.468	N	*455086N	45	3.926	3.937	.394			
4.249	4.254	.468	N	*475086N	47	100,10	100,30	11,00	N	*712138★	35
4.249	4.254	.500	S	*416026	41	3.941	3.949	.433			
4.249	4.254	.500	S	*456026	45	3.040" SHAFT					
4.249	4.254	.500	V	*456026V	45	-	-	-	S	800750	VRS1
4.249	4.254	.625	L	*55014	5L	-	-	-	S	800751	VRS2
4.249	4.254	.625	S	*55014S	5S	-	-	-	V	800754	VRS1
4.249	4.254	.625	S	*415014	41						
4.249	4.254	.625	N	*415014N	41						
4.249	4.254	.625	S	455014	45						
4.249	4.254	.625	S	*475014	47						
4.249	4.254	.625	S	*485014	48						

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).
 ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
3.040" SHAFT (cont.)						3.125" (3-1/8") SHAFT (cont.)					
-	-	-	V	800755	VRS2	4.003	4.008	.468	N	*415354N	41
3.937	3.946	.250	S	355669	35	4.003	4.008	.468	S	*455354	45
6.412	6.418	.658	S	710090	#	4.003	4.008	.468	N	*455354N	45
3.062" (3-1/16") SHAFT						4.003	4.008	.468	S	*475354	47
-	-	-	S	800750	VRS1	4.003	4.008	.468	H	*475354H	47
-	-	-	S	800751	VRS2	4.003	4.008	.468	S	*485354	#
-	-	-	V	800754	VRS1	4.003	4.008	.500	V	*4470V	#
-	-	-	V	800755	VRS2	4.003	4.008	.500	V	457034	45
4.003	4.008	.468	S	*486893	48	4.003	4.008	.500	V	*487034V	48
4.125	4.130	.562	S	*455155	45	4.003	4.008	.500	V	714470	48
4.230	4.350	.390	S	*200766%	200E	4.003	4.008	.790	S	*77938	7S
4.249	4.254	.625	S	455015	45	4.049	4.054	.437	S	*6754S	45
4.331	4.336	.500	S	*456733	45	4.125	4.130	.375	S	417621	41
4.999	5.004	.468	S	455020	45	4.125	4.130	.437	T	39809	W-H
78,00mm (3.071") SHAFT						4.125	4.130	.500	H	*4156H	#
-	-	-	S	800800	VRS1	4.125	4.130	.500	H	2291	41
-	-	-	V	800804	VRS1	4.125	4.130	.500	S	416011	41
-	-	-	V	800805	VRS2	4.125	4.130	.500	V	*416011V	41
95,00	95,20	10,00	S	*78X95X10★	32	4.125	4.130	.500	S	*456011	45
3.740	3.748	.394				4.125	4.130	.500	V	*456011V	45
99,72	100,00	13,00	S	*78X100X13★	32	4.125	4.130	.500	S	*476011	47
3.926	3.937	.512				4.125	4.130	.500	H	*476011H	47
100,00	100,27	10,00	S	78X100X10★	32	4.125	4.130	.500	V	*476011V	47
3.937	3.948	.394				4.125	4.130	.500	S	*486011	48
105,00	105,20	10,00	S	78X105X10★	32	4.125	4.130	.562	S	*415156	41
4.134	4.142	.394				4.125	4.130	.562	H	*415156H	41
109,72	110,00	12,00	S	*78X110X12★	32	4.125	4.130	.562	N	415156N	41
4.320	4.331	.472				4.125	4.130	.562	S	*455156	45
109,72	110,00	13,00	S	*78X110X13★	32	4.125	4.130	.562	N	*455156N	45
4.320	4.331	.512				4.125	4.130	.562	V	*455156V	45
110,00	110,20	10,00	S	*78X110X10★	32	4.125	4.130	.562	S	*475156	47
4.331	4.339	.394				4.125	4.130	.562	H	*475156H	47
115,00	115,20	10,00	S	78X115X10★	32	4.125	4.130	.562	N	*475156N	47
4.528	4.535	.394				4.125	4.130	.562	S	*485156	48
3.110" SHAFT						4.125	4.130	1.750	S	*6050	33
-	-	-	S	800800	VRS1	4.126	4.130	.437	T	39817	FW-H
-	-	-	V	800804	VRS1	4.173	4.179	.290	S	8976S	49
-	-	-	V	800805	VRS2	4.174	4.188	.500	S	370145A	07
-	5.750	.375	S	7896S	51	4.249	4.254	.468	S	*416287	41
3.750	3.760	.437	T	*712142	32	4.249	4.254	.468	H	*416287H	41
3.898	3.913	.378	T	712126	FW-H	4.249	4.254	.468	N	*416287N	41
3.125" (3-1/8") SHAFT						4.249	4.254	.468	V	*416287V	41
-	-	-	S	800800	VRS1	4.249	4.254	.468	S	*456287	45
-	-	-	V	800804	VRS1	4.249	4.254	.468	S	*486287	48
-	-	-	V	800805	VRS2	4.249	4.254	.500	S	416288	41
-	-	.551	S	*99307	Redi-Sleeve	4.249	4.254	.500	S	*456288	45
-	-	.571	S	*8369S	#	4.249	4.254	.500	S	*476288	47
-	-	.688	S	99311	Redi-Sleeve	4.249	4.254	.500	S	*486288	48
-	-	.813	S	99312	Redi-Sleeve	4.249	4.254	.500	S	*486288	48
-	7.500	.531	S	*6480	#	4.249	4.254	.625	S	*415016	41
-	8.250	.500	S	*6764S	#	4.249	4.254	.625	N	415016N	41
-	8.250	.571	S	6649	52	4.249	4.254	.625	S	*455016	45
-	8.250	.925	S	*6897	#	4.249	4.254	.625	S	*475016	47
3.750	3.768	.437	T	712100	PDW	4.249	4.254	.625	S	*485016	48
3.751	3.756	.250	S	45825S	4S	4.375	4.381	.500	S	417171	41
3.876	3.881	.468	S	*475568	47	4.375	4.381	.500	S	*457171	45
3.936	3.943	.512	V	2260	45	4.375	4.381	.500	S	*477171	47
3.937	3.942	.500	S	*456909	45	4.375	4.381	.500	S	*487171	48
4.003	4.008	.375	S	416404	41	4.375	4.381	.562	N	*456289N	45
4.003	4.008	.375	V	*416404V	41	4.376	4.381	.562	S	*416289	41
4.003	4.008	.375	S	*476404	47	4.376	4.381	.562	N	*416289N	41
4.003	4.008	.375	N	*476404N	47	4.376	4.381	.562	S	*456289	45
4.003	4.008	.468	S	*415354	41	4.376	4.381	.625	S	*415160	41
						4.376	4.381	.625	S	*455160	45
						4.376	4.381	.625	S	*485160	48
						4.450	4.456	.880	S	710080	#
						4.499	4.504	.468	S	*415145	41
						4.499	4.504	.468	N	*415145N	41
						4.499	4.504	.468	V	*415145V	41
						4.499	4.504	.468	S	*455145	45
						4.499	4.504	.468	S	*475145	47
						4.499	4.504	.468	S	*485145	48
						4.500	4.506	.500	S	417172	41

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
3.125" (3-1/8") SHAFT (cont.)						80,00mm (3.150") SHAFT (cont.)					
4.500	4.506	.500	S	*457172	45	96,00	96,28	9,00	V	228005★◄	32
4.500	4.506	.500	S	*477172	47	3.780	3.791	.354			
4.500	4.506	.500	S	*487172	48	97,72	98,00	10,00	S	*80X98X10★	32
4.500	4.506	.605	S	370014A	06	3.847	3.858	.394			
4.562	4.567	.687	F	*6603	205	98,00	98,40	10,00	V	228008★◄	32
4.562	4.567	.760	L	6644	5L	3.858	3.874	.394			
4.562	4.567	1.198	L	5751	34	99,72	100,00	8,00	S	*80X100X8★	32
4.625	4.631	.500	S	*457173	45	3.926	3.937	.315			
4.625	4.631	.562	S	*55690	5S	99,72	100,00	12,00	S	*80X100X12★	32
4.625	4.631	.605	S	370046A	06	3.926	3.937	.472			
4.626	4.631	.437	S	416297	41	99,72	100,00	13,00	S	*80X100X13★	32
4.626	4.631	.437	S	*476297	47	3.926	3.937	.512			
4.751	4.756	.500	S	416024	41	100,00	100,20	10,00	S	80X100X10★	35
4.751	4.756	.625	S	*415245	41	3.937	3.945	.394			
4.751	4.756	.625	N	*415245N	41	100,00	100,20	10,00	V	*80X100X10V★	32
4.751	4.756	.625	S	*455245	45	3.937	3.945	.394			
4.751	4.756	.625	S	*475245	47	100,00	100,20	10,00	H	228015★➡	32
4.751	4.756	.625	H	*475245H	47	3.937	3.945	.394			
4.751	4.756	.625	S	*485245	48	100,00	100,20	10,00	V	228011★◄	32
4.999	5.004	.468	S	415021	41	3.937	3.945	.394			
4.999	5.004	.468	S	*455021	45	100,00	100,23	10,00	H	228009★◄	32
4.999	5.004	.468	S	*475021	47	3.937	3.946	.394			
4.999	5.004	.468	S	*485021	48	100,00	100,35	13,00	H	228010★◄	32
4.999	5.004	.500	S	*456301	45	3.937	3.951	.512			
5.251	5.256	.468	S	415394	41	100,00	100,40	10,00	T	712111★➡	FW-H
5.251	5.256	.468	S	*455394	45	3.937	3.953	.394			
5.251	5.256	.468	S	*475394	47	100,00	100,40	13,00	T	712115★➡	FW-H
5.251	5.256	.468	S	*485394	48	3.937	3.953	.512			
5.778	8.125	.571	S	*6505S	#	100,00	100,40	13,00	T	712120★➡	FW-H
5.985	6.000	.955	S	9600S	#	3.937	3.953	.512			
7.000	8.250	1.003	N	*6481	51	100,00	100,40	13,00	T	712123★➡	FW-H
7.000	8.250	1.003	S	6481S	51	3.937	3.953	.512			
3.133" SHAFT						104,72	105,00	12,00	S	*80X105X12★	32
-	-	-	S	800800	VRS1	4.123	4.134	.472			
-	-	-	V	800804	VRS1	105,00	105,20	10,00	S	80X105X10★	32
-	-	-	V	800805	VRS2	4.134	4.142	.394			
3.547	3.551	.366	S	710106	#	105,00	105,20	12,00	V	*80X105X12V★	35
3.142" SHAFT						4.134	4.142	.472			
-	-	-	S	800800	VRS1	105,00	105,27	13,00	S	80X105X13★	32
-	-	-	V	800804	VRS1	4.134	4.144	.512			
-	-	-	V	800805	VRS2	105,00	105,26	14,00	S	228025★	32
-	-	.750	S	99313	Redi-Sleeve	4.134	4.144	.551			
3.733	3.736	.565	S	710103	#	105,00	105,27	14,00	S	*80X105X14★	32
3.146" SHAFT						105,00	105,27	14,00	S	228020★	32
-	-	-	S	800800	VRS1	4.134	4.144	.551			
-	-	-	V	800804	VRS1	105,00	105,27	14,00	S	228020★	32
-	-	-	V	800805	VRS2	4.134	4.144	.551			
-	-	.433	S	*99317	Redi-Sleeve	105,00	105,27	14,00	S	228020★	32
-	-	.750	S	99313	Redi-Sleeve	4.134	4.144	.551			
-	-	.827	S	99315	Redi-Sleeve	109,72	110,00	13,00	S	*80X110X13★	32
4.003	4.008	.468	S	*450407	45	4.320	4.331	.512			
80,00mm (3.150") SHAFT						110,00	110,20	10,00	V	*80X110X10V★	32
-	-	-	S	800800	VRS1	4.331	4.339	.394			
-	-	-	V	800804	VRS1	110,00	110,28	10,00	S	80X110X10★	32
-	-	-	V	800805	VRS2	4.331	4.342	.394			
-	-	.433	S	*99317	Redi-Sleeve	110,00	110,28	12,00	S	228030★	35
-	-	.750	S	99313	Redi-Sleeve	4.331	4.342	.472			
-	-	.827	S	99315	Redi-Sleeve	110,00	110,28	12,00	S	80X110X12★	35
94,72	95,00	8,00	S	*80X95X8★	32	4.331	4.342	.472			
3.729	3.740	.315				114,72	115,00	10,00	S	*80X115X10★	32
						4.517	4.528	.394			
						114,72	115,00	13,00	S	*80X115X13★	32
						4.517	4.528	.512			
						115,00	115,20	12,00	S	*80X115X12★	32
						4.528	4.535	.472			
						120,00	120,20	10,00	S	80X120X10★	32
						4.724	4.732	.394			
						120,00	120,28	13,00	S	80X120X13★	32
						4.724	4.735	.512			
						124,72	125,00	10,00	S	*80X125X10★	32
						4.910	4.921	.394			
						124,72	125,00	13,00	S	*80X125X13★	32
						4.910	4.921	.512			
						124,72	125,00	14,00	S	*80X125X14★	32
						4.910	4.921	.551			

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➡ Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	
80,00mm (3.150") SHAFT (cont.)						3.230" SHAFT						
125,00	125,20	12,00	S	*80X125X12★	32	-	-	-	S	800800	VRS1	
4.921	4.929	.472				-	-	-	V	800804	VRS1	
125,00	125,27	7,00	S	80X125X7★	32	-	-	-	V	800805	VRS2	
4.921	4.932	.276				-	-	.661		99328	Redi-Sleeve	
129,70	130,00	13,00	S	*80X130X13★	32	3.790	3.795	.325	T	40375◀	32	
5.106	5.118	.512				3.249" SHAFT						
130,00	130,20	12,00	S	*80X130X12★	32	4.468	4.488	.318	S	200870%	200E	
5.118	5.126	.472				4.536	4.556	.315	S	*200880%	200E	
135,00	135,20	12,00	S	*80X135X12★	32	3.250" (3-1/4") SHAFT						
5.315	5.323	.472				-	-	-	S	800800	VRS1	
140,00	140,20	12,00	S	*80X140X12★	32	-	-	-	V	800804	VRS1	
5.512	5.520	.472				-	-	-	V	800805	VRS2	
3.164" SHAFT						-	-	.595		99324	Redi-Sleeve	
-	-	-	S	800800	VRS1	-	-	.600		99323	Redi-Sleeve	
-	-	-	V	800804	VRS1	-	-	.656	V	*4596V	#	
-	-	-	V	800805	VRS2	-	-	.688		*99326	Redi-Sleeve	
4.249	4.254	.625	S	*455734	45	-	-	.813		99322	Redi-Sleeve	
4.999	5.004	.468	S	456799	45	-	-	.813		99325	Redi-Sleeve	
4.999	5.004	.468	H	*456799H	45	-	-	4.325	.404	N	*100355	
3.180" SHAFT						-	-	3.781	3.785	.593	S	*712131
-	-	-	S	800800	VRS1	3.879	3.881	.375	V	710180◀	47	
-	-	-	V	800804	VRS1	4.003	4.008	.375	S	417433	41	
-	-	-	V	800805	VRS2	4.003	4.008	.468	T	55563▶	5S	
4.180	4.185	.750	S	3385◀▶	74	4.003	4.008	.468	S	415563	41	
3.187" (3-3/16") SHAFT						4.003	4.008	.468	N	*415563N	41	
4.249	4.254	.468	S	456105	45	4.003	4.008	.468	S	*475563	47	
4.249	4.254	.625	S	*455017	45	4.125	4.130	.500	H	*255566H	25	
4.376	4.381	.500	S	417490	41	4.125	4.130	.562	V	*455566V	45	
4.376	4.381	.625	S	*455161	45	4.125	4.130	.562	S	*415566	41	
4.499	4.504	.468	S	455336	45	4.125	4.130	.562	N	*415566N	41	
4.625	4.630	.442	S	*2054	47	4.125	4.130	.562	V	*415566V	41	
4.625	4.630	.442	S	6358◀▶	47	4.125	4.130	.562	S	455566	45	
4.999	5.004	.468	S	455022	45	4.125	4.130	.562	N	*455566N	45	
5.000	5.006	.765	S	370029A	03	4.125	4.130	.562	S	*475566	47	
3.209" SHAFT						4.125	4.130	.562	S	*485566	48	
-	-	-	S	800800	VRS1	4.125	4.130	.562	S	*6495S	9S	
-	-	-	V	800804	VRS1	4.247	4.254	.375	V	476470V	47	
-	-	-	V	800805	VRS2	4.249	4.254	.375	F	296470	29	
89,80	-	2,50	S	710293★	#	4.249	4.254	.375	N	416470N	41	
3.535	-	.098				4.249	4.254	.375	S	476470	47	
3.226" SHAFT						4.249	4.254	.375	N	*476470N	47	
-	-	-	S	800800	VRS1	4.249	4.254	.468	V	411275	41	
-	-	-	V	800804	VRS1	4.249	4.254	.468	H	*411275H	41	
-	-	-	V	800805	VRS2	4.249	4.254	.468	N	*411275N	41	
-	-	.661		99328	Redi-Sleeve	4.249	4.254	.468	S	*451275	45	
-	8.250	.518	S	*6477S	#	4.249	4.254	.468	N	*451275N	45	
82,00mm (3.228") SHAFT						4.249	4.254	.500	S	415304	41	
-	-	-	S	800800	VRS1	4.249	4.254	.500	N	*415304N	41	
-	-	-	V	800804	VRS1	4.249	4.254	.500	V	*415304V	41	
-	-	-	V	800805	VRS2	4.249	4.254	.500	S	*455304	45	
-	-	.661		99328	Redi-Sleeve	4.249	4.254	.500	N	*455304N	45	
99,50	99,77	12,70	V	320691★◀	32	4.249	4.254	.500	V	*455304V	45	
3.918	3.928	.500				4.249	4.254	.500	S	*475304	47	
105,00	105,25	13,00	S	82X105X13★	25	4.249	4.254	.500	V	*475304V	47	
4.134	4.144	.512				4.249	4.254	.500	S	*485304	48	
105,00	105,30	13,00	H	1945★◀	32	4.249	4.254	.625	S	*415018	41	
4.134	4.146	.512				4.249	4.254	.625	N	*415018N	41	
105,00	105,30	13,00	H	228480★◀	#	4.249	4.254	.625	S	455018	45	
4.134	4.146	.512				4.249	4.254	.625	H	*455018H	45	
						4.249	4.254	.625	N	455018N	45	
						4.249	4.254	.625	S	*475018	47	
						4.249	4.254	.625	S	*485018	48	
						4.249	4.260	.662	V	4543V▶	#	
						4.249	4.282	.650	N	4875N▶	#	
						4.250	4.254	.500	S	*9640	#	

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

◀▶ Hydrodynamic Lip Design-Bidirectional % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
3.250" (3-1/4") SHAFT (cont.)						3.253" SHAFT (cont.)					
4.250	4.255	.500	U	710016	#	-	-	.813		99325	Redi-Sleeve
4.330	4.340	.250	S	*345703	34	4.249	4.260	.635	V	100494➔	08
4.376	4.381	.500	S	417181	41	4.499	4.505	.468	S	*2109	41
4.376	4.381	.500	S	*457181	45	5.500	5.511	.630	V	4544V➔	#
4.376	4.381	.500	S	*477181	47	5.500	5.511	.635	V	100557➔	08
4.376	4.381	.500	S	*487181	48	3.263" SHAFT					
4.376	4.381	.562	S	*416290	41	-	-	-	S	800800	VRS1
4.376	4.381	.562	S	*456290	45	-	-	-	V	800804	VRS1
4.376	4.381	.562	V	*456290V	45	-	-	-	V	800805	VRS2
4.376	4.381	.625	S	*415162	41	3.275	4.110	.500	S	*8710	#
4.376	4.381	.625	S	*455162	45	83,00mm (3.268") SHAFT					
4.376	4.381	.625	N	*455162N	45	-	-	-	S	800800	VRS1
4.376	4.381	.625	S	*485162	48	-	-	-	V	800804	VRS1
4.499	4.504	.468	S	415137	41	-	-	-	V	800805	VRS2
4.499	4.504	.468	S	455137	45	100,00	100,20	9,00	H	228250★◄	32
4.499	4.504	.468	V	*455137V	45	3.937	3.945	.354			
4.499	4.504	.468	S	*475137	47	103,72	104,00	9,00	S	*83X104X9★	32
4.499	4.504	.468	N	*475137N	47	4.083	4.094	.354			
4.499	4.504	.468	S	*485137	48	109,72	110,00	13,00	S	*83X110X13★	32
4.500	4.505	.406	F	*296051	29	4.320	4.331	.512			
4.500	4.506	.375	S	418028	41	116,72	117,00	14,00	S	*83X117X14★	32
4.500	4.506	.500	S	417352	41	4.595	4.606	.551			
4.500	4.506	.500	S	*457352	45	3.270" SHAFT					
4.500	4.506	.500	S	*477352	47	-	-	-	S	800800	VRS1
4.500	4.506	.500	S	*487352	48	-	-	-	V	800804	VRS1
4.500	4.506	.605	S	370018A	06	-	-	-	V	800805	VRS2
4.500	4.507	.718	S	6584S&	74	3.655	3.660	.500	S	*2499	#
4.500	4.600	.315	S	7208S%	200E	3.298" SHAFT					
4.501	4.506	.468	S	*455615	45	4.125	4.130	.562	S	455500	45
4.626	4.631	.437	S	*476303	47	4.125	4.130	.562	S	475500	47
4.626	4.631	.437	S	*486303	48	4.125	4.130	.562	N	*485500N	48
4.626	4.631	.625	S	*416304	41	84,00mm (3.307") SHAFT					
4.626	4.632	.500	S	417353	41	-	-	.813		99331	Redi-Sleeve
4.626	4.632	.500	S	*457353	45	99,72	100,00	10,00	S	*84X100X10★	32
4.626	4.632	.500	S	*477353	47	3.926	3.937	.394			
4.626	4.632	.500	S	*487353	48	100,00	100,10	10,00	S	710294★	47
4.626	4.633	.706	S	*9583◄➔	#	3.937	3.941	.394			
4.718	4.723	.468	L	55236	5L	100,00	100,20	12,00	S	*84X100X12★	32
4.723	4.729	.468	S	415577	41	3.937	3.945	.472			
4.723	4.729	.468	N	*415577N	41	104,00	0,00	10,01	V	228411★	32
4.723	4.729	.468	S	*455577	45	4.094	.000	.394			
4.751	4.756	.484	S	456305	45	104,00	104,28	11,00	V	228410★◄	32
4.751	4.756	.500	S	*456306	45	4.094	4.106	.433			
4.751	4.756	.625	S	*415265	41	118,00	118,10	7,00	V	710363★◄	#
4.751	4.756	.625	N	*415265N	41	4.646	4.650	.276			
4.751	4.756	.625	S	*455265	45	3.312" (3-5/16") SHAFT					
4.751	4.756	.625	S	*475265	47	-	-	.813		99331	Redi-Sleeve
4.751	4.756	.625	S	*485265	48	4.249	4.253	.500	S	*456292	45
4.999	5.004	.468	S	415023	41	4.249	4.254	.500	S	416292	41
4.999	5.004	.468	S	*455023	45	4.249	4.254	.750	S	*8229	#
4.999	5.004	.468	S	*475023	47	4.376	4.381	.500	S	417491	41
4.999	5.004	.468	S	*485023	48	4.376	4.381	.625	S	*455163	45
4.999	5.004	.500	S	*416309	41	4.376	4.381	.625	H	*455163H	45
5.251	5.256	.468	S	*415328	41	4.499	4.504	.468	S	415085	41
5.251	5.256	.468	S	455328	45	4.499	4.504	.468	S	*455085	45
5.251	5.256	.468	S	*475328	47	4.499	4.504	.468	V	*455085V	45
5.251	5.256	.468	S	*485328	48	4.499	4.504	.468	S	*475085	47
5.500	5.506	.500	N	417987N	41	4.501	4.506	.468	S	456648	45
6.125	6.149	.500	S	*2699	#	4.501	4.506	.605	S	370191A	06
6.374	6.380	.468	S	*487056	48	3.253" SHAFT					
-	-	-	S	800800	VRS1	-	-	-	S	800800	VRS1
-	-	-	V	800804	VRS1	-	-	-	V	800805	VRS2
-	-	-	V	800805	VRS2	-	-	.595		99324	Redi-Sleeve
-	-	.600		99323	Redi-Sleeve	-	-	.688		* 99326	Redi-Sleeve
-	-	.688		* 99326	Redi-Sleeve	-	-	.813		99322	Redi-Sleeve
-	-	.813		99322	Redi-Sleeve						

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

◄➔ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	
3.312" (3-5/16") SHAFT (cont.)						85,00mm (3.346") SHAFT (cont.)						
4.751	4.756	.500	S	416313	41	129,70	130,00	12,00	S	*85X130X12★	32	
4.999	5.004	.468	S	455024	45	5.106	5.118	.472				
5.000	5.006	.937	S	370013A	03	129,70	130,00	14,00	S	*85X130X14★	32	
5.125	5.131	.500	S	*457961	45	5.106	5.118	.551				
5.501	5.506	.562	S	*455612	45	130,00	130,15	12,70	S	85X130X13★	48	
5.501	5.506	.562	N	*455612N	45	5.118	5.124	.500				
3.330" SHAFT						85,00mm (3.346") SHAFT						
4.125	4.130	.562	S	477055	47	-	-	.827		99333	Redi-Sleeve	
5.045	5.050	.800	S	710088	#	-	-	.827		99334	Redi-Sleeve	
-	-					-	-					
-	102,57	25,40	T	*100467★➔	#	-	-			.375	*99338	Redi-Sleeve
-	4.038	1.000				-	-			.813	99337	Redi-Sleeve
99,72	100,00	9,00	S	*85X100X9★	32	3.948	3.955	.375	N	5128N		32
3.926	3.937	.354				3.948	3.955	.375	S	710077		32
99,72	100,00	10,00	S	*85X100X10★	32	4.125	4.130	.375	S	415442		41
3.926	3.937	.394				4.249	4.254	.468	S	476028		47
99,72	100,00	12,00	S	*85X100X12★	32	4.249	4.254	.468	N	*476028N		47
3.926	3.937	.472				4.249	4.254	.500	S	416294		41
104,72	105,00	12,00	S	*85X105X12★	32	4.249	4.254	.500	H	*416294H		41
4.123	4.134	.472				4.249	4.254	.500	N	*416294N		41
105,00	105,28	10,00	S	85X105X10★	32	4.249	4.254	.500	V	416294V		41
4.134	4.145	.394				4.249	4.254	.500	S	*456294		45
105,00	105,28	10,00	H	716102★◄	32	4.249	4.254	.500	H	*456294H		45
4.134	4.145	.394				4.249	4.254	.500	N	*456294N		45
105,00	105,28	13,00	S	85X105X13★	32	4.249	4.254	.500	S	*476294		47
4.134	4.145	.512				4.249	4.254	.500	S	*486294		48
4.135	4.148	.465	N	*3590	#	4.249	4.254	.625	S	*415613		41
109,72	110,00	13,00	S	*85X110X13★	32	4.249	4.254	.625	S	*455613		45
4.320	4.331	.512				4.249	4.254	.625	S	*475613		47
110,00	110,20	10,00	S	85X110X10★	35	4.249	4.254	.625	S	*485613		48
4.331	4.339	.394				4.250	4.255	.280	S	*487319		48
110,00	110,20	12,00	V	*85X110X12V★	32	4.275	4.380	.730	S	*8130%		#
4.331	4.339	.472				4.280	4.285	.406	H	*475996H		47
110,00	110,28	12,00	S	228520★	35	4.280	4.285	.406	N	*485996N		48
4.331	4.342	.472				4.370	4.375	.250	S	486567		48
110,00	110,28	12,00	S	85X110X12★	32	4.376	4.381	.250	S	*47757		45
4.331	4.342	.472				4.376	4.381	.250	S	*47757		45
110,72	111,00	10,00	S	*85X111X10★	32	4.376	4.381	.375	S	412473		41
4.359	4.370	.394				4.376	4.381	.375	S	*472473		47
113,00	113,20	10,50	N	710330★	#	4.376	4.381	.375	H	*472473H		47
4.449	4.457	.413				4.376	4.381	.500	S	415894		41
114,22	114,50	12,00	S	*85X114.5X12★	32	4.376	4.381	.500	S	*455894		45
4.497	4.508	.472				4.376	4.381	.500	N	*455894N		45
114,72	115,00	15,00	S	*85X115X15★	32	4.376	4.381	.500	S	*475894		47
4.517	4.528	.591				4.376	4.381	.500	S	*485894		48
115,00	115,00	13,00	S	85X115X13★	35	4.376	4.381	.562	S	*411414		41
4.528	4.528	.512				4.376	4.381	.562	N	*411414N		41
115,00	115,20	12,00	S	*85X115X12★	32	4.376	4.381	.562	S	*451414		45
4.528	4.535	.472				4.376	4.381	.562	H	*451414H		45
115,00	115,27	7,00	S	85X115X7★	32	4.376	4.381	.562	N	*451414N		45
4.528	4.538	.276				4.376	4.381	.562	S	*481414		48
119,72	120,00	10,00	S	*85X120X10★	32	4.376	4.381	.562	H	*481414H		48
4.713	4.724	.394				4.376	4.381	.625	S	*415164		41
119,72	120,00	13,00	S	*85X120X13★	32	4.376	4.381	.625	N	415164N		41
4.713	4.724	.512				4.376	4.381	.625	S	*455164		45
119,72	120,00	15,00	S	*85X120X15★	32	4.376	4.381	.625	N	*455164N		45
4.713	4.724	.591				4.499	4.504	.468	S	*415165		41
120,00	120,28	12,00	S	85X120X12★	32	4.499	4.504	.468	H	*415165H		41
4.724	4.735	.472				4.499	4.504	.468	S	455165		45
124,72	125,00	13,00	S	*85X125X13★	32	4.499	4.504	.468	N	*455165N		45
4.910	4.921	.512				4.499	4.504	.468	V	*455165V		45
124,72	125,00	14,00	S	*85X125X14★	32	4.499	4.504	.468	S	*475165		47
4.910	4.921	.551				4.499	4.504	.468	S	*485165		48
125,00	125,20	12,00	S	85X125X12★	32	4.500	4.506	.500	S	417191		41
4.921	4.929	.472				4.500	4.506	.500	V	*417191V		41

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
3.375" (3-3/8") SHAFT (cont.)						3.437" SHAFT (cont.)					
4.500	4.506	.500	S	*457191	45	5.250	5.256	.468	S	455471	45
4.500	4.506	.500	S	*477191	47	5.501	5.506	.562	S	*455472	45
4.500	4.506	.500	S	*487191	48	88,00mm (3.465") SHAFT					
4.500	4.800	.315	S	*200922%	200E	106,00	106,28	8,50	V	710188★◄	32
4.501	4.506	.468	S	456585	45	4.173	4.184	.335			
4.501	4.506	.625	S	*55331	5S	107,72	108,00	11,00	S	*88X108X11★	32
4.626	4.631	.437	S	*476319	47	4.241	4.252	.433			
4.626	4.631	.437	S	*486319	48	108,00	108,36	11,10	H	3772★◄	35
4.626	4.631	.437	V	*486319V	48	4.252	4.266	.437			
4.626	4.631	.625	S	*455168	45	108,00	108,36	11,10	T	*100239T★◄	FW-H
4.626	4.631	.625	N	*455168N	45	4.252	4.266	.437			
4.626	4.631	.687	N	*7775N	#	110,00	110,28	12,00	S	88X110X12★	35
4.626	4.632	.500	S	417354	41	4.331	4.342	.472			
4.626	4.632	.500	S	*457354	45	115,00	115,20	12,00	S	*88X115X12★	32
4.626	4.632	.500	S	*477354	47	4.528	4.535	.472			
4.626	4.632	.500	S	*487354	48	120,00	120,20	12,00	S	*88X120X12★	32
4.688	4.693	.500	S	455249	45	4.724	4.732	.472			
4.718	4.723	.468	L	*55431	5L	3.468" (3-15/32") SHAFT					
4.751	4.756	.500	S	416321	41	4.626	4.631	.625	S	2055	47
4.751	4.756	.625	S	*416323	41	3.478" SHAFT					
4.751	4.756	.625	S	*456323	45	-	-	-	S	800900	VRS1
4.751	4.756	.625	S	*476323	47	-	-	-	S	800901	VRS2
4.751	4.756	.625	S	*486323	48	-	-	-	V	800904	VRS1
4.999	5.004	.468	S	415025	41	-	-	.781		99340	Redi-Sleeve
4.999	5.004	.468	N	*415025N	41	4.922	4.927	.468	S	*200118	200
4.999	5.004	.468	S	*455025	45	3.500" (3-1/2") SHAFT					
4.999	5.004	.468	S	*475025	47	-	-	-	S	800900	VRS1
4.999	5.004	.468	S	*485025	48	-	-	-	S	800901	VRS2
4.999	5.004	.500	S	*456325	45	-	-	-	V	800904	VRS1
5.251	5.256	.468	S	416327	41	-	-	.315		99347	Redi-Sleeve
5.251	5.256	.468	S	*456327	45	-	-	.813		99350	Redi-Sleeve
5.251	5.256	.468	S	*476327	47	4.000	-	.313	U	710029	#
5.251	5.256	.468	S	*486327	48	4.125	-	.313	U	710030	#
86,00mm (3.386") SHAFT						4.125	4.130	.250	S	45525S	4S
99,72	100,00	10,00	S	*86X100X10★	32	4.125	4.130	.250	S	446927	44
3.926	3.937	.394				4.331	4.346	.472	T	712116►	FW-H
103,00	103,23	10,00	V	710235★◄	32	4.375	4.381	.562	S	*415899	41
4.055	4.064	.394				4.375	4.381	.562	N	415899N	41
104,00	104,23	11,00	V	710232★◄	32	4.375	4.381	.562	S	*455899	45
4.094	4.104	.433				4.376	4.381	.375	S	*457599	45
3.410" SHAFT						4.376	4.381	.375	S	*477599	47
5.251	5.257	.500	S	*200167	200	4.376	4.381	.500	V	*3575V	#
87,00mm (3.425") SHAFT						4.376	4.381	.500	S	416624	41
100,00	100,20	8,00	H	228700★◄	32	4.376	4.381	.500	N	416624N	41
3.937	3.945	.315				4.376	4.381	.500	V	*416624V	41
3.437" SHAFT						4.376	4.381	.500	S	*456624	45
-	-	.781		99339	Redi-Sleeve	4.376	4.381	.500	S	*476624	47
4.249	4.254	.375	S	418029	41	4.376	4.381	.500	V	*476624V	47
4.249	4.254	.375	V	*418029V	41	4.376	4.381	.500	S	*486624	48
4.249	4.254	.625	S	455499	45	4.376	4.381	.625	S	*456068	45
4.499	4.504	.468	S	*455166	45	4.437	4.437	.437	L	5965%	8L
4.501	4.506	.375	V	417492V	41	4.450	4.455	.525	S	9339S	278
4.501	4.506	.375	S	417492	41	4.450	4.456	.843	S	370179A	07
4.501	4.506	.468	S	*416365	41	4.499	4.504	.468	S	415146	41
4.501	4.506	.468	S	*476365	47	4.499	4.504	.468	N	*415146N	41
4.501	4.506	.625	L	55419	5L	4.499	4.504	.468	S	455146	45
4.625	4.725	.484	S	*84082%	8S	4.499	4.504	.468	V	*455146V	45
4.626	4.631	.500	S	417493	41	4.499	4.504	.468	S	*475146	47
4.626	4.631	.500	V	*417493V	41	4.499	4.504	.468	N	*475146N	47
4.755	4.761	.605	S	370047A	06	4.499	4.504	.468	S	*485146	48
4.756	4.761	.562	S	455858	45	4.499	4.508	.250	S	345146	34
4.876	4.881	.500	S	417494	41	4.500	4.504	.500	U	710015	#
4.876	4.881	.625	S	*455341	45	4.500	4.505	.250	S	*8892	#
4.999	5.004	.468	S	455026	45						

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ► Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
3.500" (3-1/2") SHAFT (cont.)						3.500" (3-1/2") SHAFT (cont.)					
4.500	4.506	.375	S	*477437	47	5.126	5.131	.625	N	715319	47
4.500	4.506	.500	S	*416414	41	5.250	5.256	.500	N	*3814N	#
4.500	4.506	.500	S	*456414	45	5.250	5.258	.562	S	6612S	#
4.500	4.506	.500	S	*476414	47	5.251	5.256	.468	S	*415559	41
4.500	4.506	.500	S	*486414	48	5.251	5.256	.468	S	*455559	45
4.501	4.506	.468	S	*415991	41	5.251	5.256	.468	S	*475559	47
4.501	4.506	.468	N	415991N	41	5.251	5.256	.468	S	*485559	48
4.501	4.506	.468	V	415991V	41	5.500	5.505	.500	S	*417496	41
4.501	4.506	.468	S	*455991	45	5.501	5.506	.562	S	*415262	41
4.501	4.506	.468	N	*475991N	47	5.501	5.506	.562	S	*455262	45
4.501	4.506	.468	N	*485991N	48	5.501	5.506	.562	S	*475262	47
4.501	4.506	.468	V	712750	41	5.501	5.506	.562	S	*485262	48
4.501	4.506	.500	V	4491	#	5.750	5.756	.875	L	*5961	91
4.501	4.506	.500	H	*456414H	45	5.751	5.756	.562	S	*415396	41
4.501	4.506	.875	S	*15305S	1S	5.751	5.756	.562	S	*455396	45
4.501	4.511	.528	S	*355305	35	5.751	5.756	.562	S	*475396	47
4.501	4.511	.528	N	*355305N	35	5.751	5.756	.562	S	*485396	48
4.543	4.558	.788	S	370132A	07	5.906	7.500	.600	N	*4409N	#
4.600	6.625	.531	S	*6245S	#	6.000	6.008	1.546	S	*712130	#
4.625	4.631	.500	S	*417196	41	89,00mm (3.504") SHAFT					
4.625	4.631	.500	V	*417196V	41	-	-	-	S	800900	VRS1
4.625	4.631	.500	S	*457196	45	-	-	-	S	800901	VRS2
4.625	4.631	.500	S	*477196	47	-	-	-	V	800904	VRS1
4.625	4.631	.500	S	*487196	48	-	-	-		99347	Redi-Sleeve
4.626	4.631	.437	S	*476328	47	-	-	-		99349	Redi-Sleeve
4.626	4.631	.437	S	*486328	48	-	-	.315		99350	Redi-Sleeve
4.626	4.631	.625	S	415170	41	-	-	.626			
4.626	4.631	.625	S	*455170	45	-	-	.813			
4.626	4.631	.625	N	*455170N	45	105.00	105.20	10.00	V	710189**	47
4.750	4.756	.500	S	*475437	47	4.134	4.142	.394			
4.750	4.756	.500	S	*485437	48	109.00	109.20	9.00	H	229004**	32
4.751	4.756	.375	N	476424N	47	4.291	4.299	.354			
4.751	4.756	.500	S	*415437	41	3.506" SHAFT					
4.751	4.756	.500	S	*455437	45	.000	4.117	.453	S	710514	41
4.751	4.756	.500	N	455437N	45	3.539" SHAFT					
4.751	4.756	.625	S	*55173	5S	5.277	5.291	.604	V	370212A	07
4.751	4.756	.625	S	*415173	41	90,00mm (3.543") SHAFT					
4.751	4.756	.625	N	*415173N	41	-	-	-	S	800900	VRS1
4.751	4.756	.625	S	455173	45	-	-	-	S	800901	VRS2
4.751	4.756	.625	N	*455173N	45	-	-	-	V	800904	VRS1
4.751	4.756	.625	S	*475173	47	-	-	.528	S	*99353	Redi-Sleeve
4.751	4.756	.625	S	*485173	48	-	-	.710		99351	Redi-Sleeve
4.751	4.757	.605	S	370169A	07	-	-	.906		99354	Redi-Sleeve
4.840	4.848	.897	S	*2910	#	0.00	120.00	16.00	V	710454*	#
4.841	4.848	.875	S	6638S	#	.000	4.724	.630			
4.842	4.847	.910	T	380001A	10	99.72	100.00	7.00	S	*90X100X7*	32
4.842	4.848	.875	S	*8880	#	3.926	3.937	.276			
4.842	4.848	.925	S	370001A	09	99.72	100.00	12.00	S	*90X100X12*	32
4.864	4.964	.321	S	*200961%	200E	3.926	3.937	.472			
4.864	4.964	.321	S	*200204	200	104.00	104.10	11.00	V	710237**	32
4.875	4.881	.500	S	*417198	41	4.094	4.098	.433			
4.875	4.881	.625	S	*455255	45	104.72	105.00	12.00	S	*90X105X12*	32
4.875	4.881	.925	S	*7955	39	4.123	4.134	.472			
4.921	5.021	.321	S	*200878%	200E	104.72	105.00	13.00	S	*90X105X13*	32
4.999	5.004	.468	S	*415027	41	4.123	4.134	.512			
4.999	5.004	.468	H	415027H	41	108.00	108.23	10.00	N	710219**	32
4.999	5.004	.468	N	415027N	41	4.252	4.261	.394			
4.999	5.004	.468	S	455027	45	109.72	110.00	10.00	S	*90X110X10*	32
4.999	5.004	.468	H	*455027H	45	4.320	4.331	.394			
4.999	5.004	.468	N	455027N	45	110.00	110.20	9.00	H	229006**	32
4.999	5.004	.468	S	*475027	47	4.331	4.339	.354			
4.999	5.004	.468	S	*485027	48	110.00	110.20	12.00	S	90X110X12*	35
4.999	5.004	.468	N	*485027N	48						
4.999	5.004	.500	N	*416331N	41						
4.999	5.004	.500	S	*456331	45						
4.999	5.004	.500	H	*456331H	45						
5.000	5.006	1.000	S	370002A	03						
5.126	5.131	.500	S	*417495	41						
5.126	5.131	.625	S	*415319	41						
5.126	5.131	.625	N	*415319N	41						
5.126	5.131	.625	S	*455319	45						
5.126	5.131	.625	N	*475319N	47						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use * Hydrodynamic Lip Design-CCW % External Bore

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Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
90,00mm (3.543") SHAFT (cont.)						3.562" (3-9/16") SHAFT					
110,00	110,20	12,00	V	*90X110X12V★	32	—	—	—	S	800900	VRS1
4.331	4.339	.472				—	—	—	S	800901	VRS2
110,00	110,31	8,50	H	229010★◀	32	—	—	—	V	800904	VRS1
4.331	4.343	.335				—	—	.813		99356	Redi-Sleeve
110,00	110,31	12,00	V	229005★◀	32	4.499	4.504	.468	S	415498	41
4.331	4.343	.472				4.499	4.504	.468	S	*455498	45
110,00	110,31	13,00	S	*90X110X13★	35	4.499	4.504	.468	N	*455498N	45
4.331	4.343	.512				4.499	4.504	.468	S	*485498	48
110,00	110,40	12,00	T	712124★➔	FW-H	4.500	4.506	.500	V	*416113V	41
4.331	4.346	.472				4.500	4.506	.500	S	*456113	45
111,72	112,00	12,00	S	*90X112X12★	32	4.500	4.506	.500	N	*456113N	45
4.398	4.409	.472				4.625	4.631	.500	S	415711	41
112,42	112,70	13,00	S	*90X112.7X13★	32	4.626	4.631	.562	N	*476591N	47
4.426	4.437	.512				4.751	4.756	.625	S	*455174	45
114,72	115,00	10,00	S	*90X115X10★	32	4.751	4.756	.625	S	*455174	45
4.517	4.528	.394				4.755	4.761	.550	S	9584&	74
114,72	115,00	13,00	S	*90X115X13★	32	4.876	4.881	.500	S	417498	41
4.517	4.528	.512				4.999	5.004	.468	L	55028	5L
115,00	115,14	17,12	S	*4789S★◀➔	#	5.751	5.756	.562	S	*455402	45
4.528	4.533	.674				3.574" SHAFT					
115,00	115,20	12,00	S	90X115X12★	32	—	—	—	S	800900	VRS1
4.528	4.535	.472				—	—	—	S	800901	VRS2
117,72	118,00	12,00	S	*90X118X12★	32	—	—	—	V	800904	VRS1
4.635	4.646	.472				4.756	4.761	.550	N	*4173	#
119,72	120,00	13,00	S	*90X120X13★	32	91,00mm (3.583") SHAFT					
4.713	4.724	.512				—	—	—	S	800900	VRS1
120,00	120,20	12,00	V	*90X120X12V★	35	—	—	—	S	800901	VRS2
4.724	4.732	.472				—	—	—	V	800904	VRS1
120,00	120,28	12,00	S	90X120X12★◀➔	32	110,00	110,26	8,50	V	229210★◀➔	32
4.724	4.735	.472				4.331	4.341	.335			
124,72	125,00	15,00	S	*90X125X15★	32	111,00	111,13	10,01	T	*100052T★◀	FW-H
4.910	4.921	.591				4.370	4.375	.394			
125,00	125,20	12,00	S	*90X125X12★	32	111,00	111,20	10,00	V	710056★◀	47
4.921	4.929	.472				4.370	4.378	.394			
125,00	125,30	13,00	S	90X125X13★	32	3.620" SHAFT					
4.921	4.933	.512				—	—	—	S	800900	VRS1
125,00	125,70	7,00	S	90X125X7★	32	—	—	—	S	800901	VRS2
4.921	4.949	.276				—	—	—	V	800904	VRS1
129,70	130,00	10,00	S	*90X130X10★	32	—	—	.811	*99360	Redi-Sleeve	
5.106	5.118	.394				4.625	4.630	.400	T	39882➔	FW-H
129,70	130,00	13,00	S	*90X130X13★	32	92,00mm (3.622") SHAFT					
5.106	5.118	.512				—	—	—	S	800900	VRS1
130,00	130,20	12,00	S	*90X130X12★	32	—	—	—	S	800901	VRS2
5.118	5.126	.472				—	—	—	V	800904	VRS1
134,70	135,00	13,00	S	*90X135X13★	32	—	—	.811	*99360	Redi-Sleeve	
5.303	5.315	.512				110,00	110,29	10,00	H	355660H★	35
135,00	135,20	12,00	S	*90X135X12★	32	4.331	4.342	.394			
5.315	5.323	.472				119,72	120,00	12,00	S	*92X120X12★	32
140,00	140,20	12,00	S	*90X140X12★	32	4.713	4.724	.472			
5.512	5.520	.472				120,00	120,24	13,00	S	92X120X13★	35
145,00	145,20	14,00	S	90X145X14★	32	4.724	4.734	.512			
5.709	5.717	.551				3.625" (3-5/8") SHAFT					
157,86	158,00	14,27	T	39865★➔	#	—	—	—	S	800900	VRS1
6.215	6.220	.562				—	—	—	S	800901	VRS2
159,70	160,00	10,00	S	*90X160X10★	32	—	—	—	V	800904	VRS1
6.287	6.299	.394				—	—	.811	*99360	Redi-Sleeve	
3.550" SHAFT						110,00	110,29	10,00	H	355660H★	35
—	—	—	S	800900	VRS1	4.331	4.342	.394			
—	—	—	S	800901	VRS2	119,72	120,00	12,00	S	*92X120X12★	32
—	—	—	V	800904	VRS1	4.713	4.724	.472			
4.376	4.381	.375	N	*455923N	45	120,00	120,24	13,00	S	92X120X13★	35
3.557" SHAFT						4.724	4.734	.512			
—	—	—	S	800900	VRS1	3.625" (3-5/8") SHAFT					
—	—	—	S	800901	VRS2	—	—	—	S	800900	VRS1
—	—	—	V	800904	VRS1	—	—	—	S	800901	VRS2
4.530	4.530	.320	S	*8480	#	—	—	.500	99363	Redi-Sleeve	
						—	—	.813	99362	Redi-Sleeve	
						4.240	4.256	.390	V	3909◀	35
						4.240	4.256	.390	T	*100204T◀	FW-H
						4.249	4.254	.250	S	*47010S	4S

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

◀➔ Hydrodynamic Lip Design-Bidirectional & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
3.625" (3-5/8") SHAFT (cont.)						3.625" (3-5/8") SHAFT (cont.)					
4.375	4.381	.375	S	*456744	45	5.375	5.381	.500	S	415832	41
4.375	4.381	.375	N	456744N	45	5.375	5.381	.500	S	*455832	45
4.376	4.381	.375	S	417698	41	5.501	5.506	.500	S	417500	41
4.499	4.504	.468	S	415389	41	5.501	5.506	.562	S	*416389	41
4.499	4.504	.468	N	415389N	41	5.501	5.506	.562	S	*456389	45
4.499	4.504	.468	S	*455389	45	5.501	5.506	.562	S	*476389	47
4.499	4.504	.468	H	*455389H	45	5.751	5.756	.562	S	415436	41
4.499	4.504	.468	V	*455389V	45	5.751	5.756	.562	S	*455436	45
4.499	4.504	.468	S	*475389	47	5.751	5.756	.562	S	*475436	47
4.499	4.504	.468	N	*475389N	47	5.751	5.756	.562	S	*485436	48
4.499	4.504	.468	S	*485389	48	6.000	6.006	.500	S	*417650	41
4.624	4.629	.500	S	*456003	45	3.655" SHAFT					
4.624	4.630	.500	N	*487397N	48	-	-	-	S	800900	VRS1
4.624	4.630	.500	V	487397V➔	48	-	-	-	S	800901	VRS2
4.625	4.631	.437	S	416332	41	-	-	-	V	800904	VRS1
4.625	4.631	.500	S	416047	41	4.620	4.631	.270	S	*4203↔	#
4.625	4.631	.500	S	*456047	45	93,00mm (3.661") SHAFT					
4.625	4.631	.500	S	*476047	47	-	-	-	S	800950	VRS1
4.625	4.631	.500	S	*486047	48	-	-	-	V	800954	VRS1
4.625	4.631	.625	N	*415172N	41	114.00	114.20	14.00	S	710288★↔	32
4.626	4.631	.437	S	*476332	47	4.488	4.496	.551			
4.626	4.631	.437	H	*476332H	47	154.00	154.10	8.00	S	710266★	#
4.626	4.631	.437	N	*476332N	47	6.063	6.067	.315			
4.626	4.631	.437	S	*486332	48	3.687" (3-11/16") SHAFT					
4.626	4.631	.437	N	*486332N	48	-	-	-	S	800950	VRS1
4.626	4.631	.625	S	*415172	41	-	-	-	V	800954	VRS1
4.626	4.631	.625	V	*415172V	41	-	-	.313		99368	Redi-Sleeve
4.626	4.631	.625	S	*455172	45	-	-	.813		*99359	Redi-Sleeve
4.626	4.631	.625	N	*455172N	45	-	-	.813		*99365	Redi-Sleeve
4.626	4.631	.625	V	*455172V	45	4.501	4.506	.500	V	456919V	45
4.695	4.810	.395	S	200603%	200E	4.501	4.506	.500	S	416919	41
4.725	4.730	.312	S	*255833	25	4.501	4.506	.500	N	416919N	41
4.751	4.756	.484	S	*416333	41	4.626	4.631	.625	S	*476124	47
4.751	4.756	.500	T	39703➔	FW-H	4.750	4.756	.500	S	417501	41
4.751	4.756	.500	T	39813➔	W-H	4.999	5.004	.468	L	55030	5L
4.751	4.756	.500	S	415937	41	5.250	5.256	.468	S	416670	41
4.751	4.756	.500	S	*455937	45	5.250	5.256	.468	N	*416670N	41
4.751	4.756	.500	S	*475937	47	5.501	5.506	.500	S	417502	41
4.751	4.756	.500	H	*475937H	47	5.501	5.506	.562	S	*415269	41
4.751	4.756	.500	S	*485937	48	3.720" SHAFT					
4.751	4.756	.562	S	*455486	45	-	-	-	S	800950	VRS1
4.751	4.756	.625	S	*415175	41	-	-	-	V	800954	VRS1
4.751	4.756	.625	S	*455175	45	4.756	4.766	.640	S	*77993T	7S
4.751	4.756	.625	S	*475175	47	3.736" SHAFT					
4.751	4.756	.625	S	*485175	48	-	-	-	S	800950	VRS1
4.810	4.823	.921	S	370012A	07	-	-	-	V	800954	VRS1
4.839	4.844	.500	L	55353	5L	120.00	120.40	13.00	T	712119★➔	FW-H
4.874	4.879	.585	S	485497	48	4.724	4.740	.512			
4.874	4.879	.625	S	*455947	45	3.738" SHAFT					
4.875	4.881	.500	S	417355	41	3.750	4.500	.500	S	*7184%	#
4.875	4.881	.500	S	*457355	45	95,00mm (3.740") SHAFT					
4.875	4.881	.500	S	*477355	47	-	-	-	S	800950	VRS1
4.875	4.881	.500	S	*487355	48	-	-	-	V	800954	VRS1
4.876	4.881	.625	S	*415181	41	-	-	.344		99374	Redi-Sleeve
4.876	4.881	.625	S	*455181	45	-	-	.469		99364	Redi-Sleeve
4.999	5.004	.468	S	*415029	41	-	-	.827		99369	Redi-Sleeve
4.999	5.004	.468	S	*455029	45	95,00mm (3.740") SHAFT					
4.999	5.004	.468	H	*455029H	45	-	-	-	S	800950	VRS1
4.999	5.004	.468	S	*475029	47	-	-	-	V	800954	VRS1
4.999	5.004	.468	S	*485029	48	-	-	.344		99374	Redi-Sleeve
4.999	5.004	.500	S	416125	41	-	-	.469		99364	Redi-Sleeve
4.999	5.004	.500	S	*456125	45	-	-	.827		99369	Redi-Sleeve
4.999	5.004	.500	S	*476125	47	95,00mm (3.740") SHAFT					
4.999	5.004	.500	S	*486125	48	-	-	-	S	800950	VRS1
5.000	5.014	.875	S	370011A	05	-	-	-	V	800954	VRS1
5.251	5.256	.437	S	417499	41	-	-	.344		99374	Redi-Sleeve
5.251	5.256	.468	S	*416335	41	-	-	.469		99364	Redi-Sleeve
5.251	5.256	.468	N	*416335N	41	-	-	.827		99369	Redi-Sleeve
5.251	5.256	.468	V	*416335V	41	95,00mm (3.740") SHAFT					
5.251	5.256	.468	S	*456335	45	-	-	-	S	800950	VRS1
5.251	5.256	.468	S	*476335	47	-	-	-	V	800954	VRS1
5.251	5.256	.468	S	*486335	48	-	-	.344		99374	Redi-Sleeve

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

↔ Hydrodynamic Lip Design-Bidirectional % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
95,00mm (3.740") SHAFT (cont.)						3.750" (3-3/4") SHAFT (cont.)					
104,72	105,00	13,00	S	*95X105X13★	32	4.626	4.631	.437	S	*476336	47
4.123	4.134	.512				4.626	4.631	.437	S	*486336	48
109,72	110,00	11,00	S	*95X110X11★	32	4.626	4.632	.500	S	416041	41
4.320	4.331	.433				4.626	4.632	.500	S	*456041	45
109,72	110,00	12,00	S	*95X110X12★	32	4.626	4.632	.500	S	*476041	47
4.320	4.331	.472				4.626	4.632	.500	S	*486041	48
110,00	110,20	10,00	S	95X110X10★	32	95,25mm (3.750") SHAFT					
4.331	4.339	.394				120,37	120,65	12,70	S	*95.25X120.65X12.7★	32
110,00	110,26	11,00	S	717005★◀	32	4.739	4.750	.500			
4.331	4.341	.433				3.750" (3-3/4") SHAFT					
113,00	113,10	10,00	V	710352★◀	47	4.750	4.756	.375	V	*486923V	48
4.449	4.453	.394				4.750	4.756	.500	V	3893V	45
114,99	115,32	12,50	T	*100203T★◀	FW-H	4.750	4.756	.500	T	39608◀	DW-H
4.527	4.540	.492				4.750	4.756	.500	T	39705▶	FW-H
115,00	115,20	13,00	V	*95X115X13V★	32	4.750	4.756	.500	T	39837◀	W-H
4.528	4.535	.512				4.751	4.756	.375	N	*486544N	48
115,00	115,25	10,00	S	717006★	45	4.751	4.756	.484	N	*415963N	41
4.528	4.537	.394				4.751	4.756	.484	V	*415963V	41
115,00	115,28	12,00	S	95X115X12★	35	4.751	4.756	.484	H	*455963H	45
4.528	4.539	.472				4.751	4.756	.484	N	*455963N	45
115,00	115,28	13,00	S	*95X115X13★	35	4.751	4.756	.500	H	2218◀	47
4.528	4.539	.512				4.751	4.756	.500	V	*4936V◀	#
115,00	115,32	12,12	T	*600305★◀	#	4.751	4.756	.500	S	415379	41
4.528	4.540	.477				4.751	4.756	.500	H	*415379H	41
115,00	115,31	12,50	V	4359V★◀	32	4.751	4.756	.500	N	*415379N	41
4.528	4.540	.492				4.751	4.756	.500	V	415379V	41
118,00	118,16	8,50	H	710060★◀	32	4.751	4.756	.500	S	455379	45
4.646	4.652	.335				4.751	4.756	.500	H	*455379H	45
119,72	120,00	8,00	S	*95X120X8★	32	4.751	4.756	.500	N	*455379N	45
4.713	4.724	.315				4.751	4.756	.500	V	455379V	45
119,72	120,00	13,00	S	*95X120X13★	32	4.751	4.756	.500	S	455379	45
4.713	4.724	.512				4.751	4.756	.500	H	*455379H	45
120,00	120,20	12,00	V	*95X120X12V★	35	4.751	4.756	.500	N	*455379N	45
4.724	4.732	.472				4.751	4.756	.500	V	455379V	45
120,00	120,28	12,00	S	95X120X12★	32	4.751	4.756	.500	S	*475379	47
4.724	4.735	.472				4.751	4.756	.500	N	*475379N	47
124,72	125,00	13,00	S	*95X125X13★	32	4.751	4.756	.500	S	*485379	48
4.910	4.921	.512				4.751	4.756	.500	N	*485379N	48
125,00	125,28	12,00	S	95X125X12★	35	4.751	4.756	.625	S	*415177	41
4.921	4.932	.472				4.751	4.756	.625	S	*455177	45
129,70	130,00	13,00	S	*95X130X13★	32	4.751	4.756	.625	S	*475177	47
5.106	5.118	.512				4.751	4.756	.625	S	*485177	48
130,00	130,28	12,00	S	95X130X12★	32	4.751	4.756	.750	N	*7776N	#
5.118	5.129	.472				4.751	4.756	.875	S	*15379S	1S
130,00	130,28	12,00	S	229520★	35	4.751	4.756	.875	S	*75963S	7S
5.118	5.129	.472				4.875	4.881	.500	S	417205	41
132,00	132,26	12,00	S	710085★	#	4.875	4.881	.500	S	*457205	45
5.197	5.207	.472				4.875	4.881	.500	S	*477205	47
134,70	135,00	13,00	S	*95X135X13★	32	4.875	4.881	.500	S	*487205	48
5.303	5.315	.512				4.876	4.881	.625	S	*415183	41
172,00	172,09	28,00	T	39926★▶	W-H	4.876	4.881	.625	S	*455183	45
6.772	6.775	1.102				4.999	5.004	.250	S	45031S	4S
3.750" (3-3/4") SHAFT						4.999	5.004	.468	S	*415031	41
-	-	-	S	800950	VRS1	4.999	5.004	.468	H	*415031H	41
-	-	-	V	800954	VRS1	4.999	5.004	.468	N	*415031N	41
-	-	.344		99367	Redi-Sleeve	4.999	5.004	.468	S	455031	45
-	-	.563		99376	Redi-Sleeve	4.999	5.004	.468	N	*455031N	45
-	-	.688		99372	Redi-Sleeve	4.999	5.004	.468	S	*475031	47
4.375	-	.312	U	710035	#	4.999	5.004	.468	V	*475031V	47
4.499	4.506	.468	V	*4489V	96	4.999	5.004	.468	S	*485031	48
4.499	4.506	.468	S	415983	41	4.999	5.004	.500	S	416339	41
4.499	4.506	.468	N	415983N	41	4.999	5.004	.500	N	*416339N	41
4.499	4.506	.468	V	415983V	41	4.999	5.004	.500	S	*456339	45
4.499	4.506	.468	V	714489	96	4.999	5.004	.500	S	*476339	47
4.500	4.506	.468	V	713750	69	5.000	5.004	.620	S	*486339	48
4.501	4.506	.362	V	2377	35	5.000	5.009	.370	S	*8338	39
4.501	4.506	.362	T	*100205T◀	FW-H	5.000	5.009	.370	S	*498040	49
4.624	4.630	.535	S	*8425	#	5.251	5.256	.468	S	415150	41
						5.251	5.256	.468	S	*455150	45
						5.251	5.256	.468	V	*455150V	45
						5.251	5.256	.468	S	*475150	47
						5.251	5.256	.468	S	*485150	48

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
3.908" SHAFT						100,00mm (3.937") SHAFT (cont.)					
-	-	-	S	801000	VRS1	129,70	130,00	13,00	S	*100X130X13★	32
-	-	-	V	801004	VRS1	5.106	5.118	.512			
4.875	4.881	.500	S	*416037	41	130,00	130,20	12,00	V	*100X130X12V★	32
3.934" SHAFT						5.118	5.126	.472			
-	-	-	S	801000	VRS1	130,00	130,28	12,00	S	100X130X12★	32
-	-	-	V	801004	VRS1	5.118	5.129	.472			
5.905	5.911	.500	S	476517	47	5.251	5.256	.468	S	455191	45
100,00mm (3.937") SHAFT						134,70	135,00	12,00	S	*100X135X12★	32
-	-	-	S	801000	VRS1	5.303	5.315	.472			
-	-	-	V	801004	VRS1	134,70	135,00	13,00	S	*100X135X13★	32
-	-	.813	99393	Redi-Sleeve		5.303	5.315	.512			
113,72	114,00	10,00	S	*100X114X10★	32	134,70	135,00	14,00	S	*100X135X14★	32
4.477	4.488	.394				5.303	5.315	.551			
114,00	114,10	12,00	S	710410★	47	135,00	135,20	10,00	H	710351★◀	32
4.488	4.492	.472				5.315	5.323	.394			
114,72	115,00	9,00	S	*100X115X9★	32	135,00	135,20	15,00	H	710391★◀	94
4.517	4.528	.354				5.315	5.323	.591			
114,72	115,00	10,00	S	*100X115X10★	32	5.371	5.377	.906	S	6270	21
4.517	4.528	.472				5.372	5.378	1.015	S	370008A	11
114,72	115,00	12,00	S	*100X115X12★	32	5.376	5.381	.500	S	415263	41
4.517	4.528	.394				5.376	5.381	.500	S	*455263	45
119,72	120,00	11,00	S	*100X120X11★	32	5.376	5.381	.500	H	*455263H	45
4.713	4.724	.433				139,70	140,00	12,00	S	*100X140X12★	32
119,72	120,00	13,00	S	*100X120X13★	32	5.500	5.512	.472			
4.713	4.724	.512				139,70	140,00	13,00	S	*100X140X13★	32
120,00	120,20	12,00	V	*100X120X12V★	32	5.500	5.512	.512			
4.724	4.732	.472				5.501	5.506	.500	S	417506	41
120,00	120,25	11,00	T	*712105★◀	W	5.501	5.506	.562	S	*455575	45
4.724	4.734	.433				139,73	139,88	23,80	T	380009A★	03
120,00	120,12	11,00	H	231004★	32	5.501	5.507	.937			
4.724	4.735	.433				5.501	5.507	.937	S	370009A	03
120,00	120,28	12,00	S	231002★	35	145,00	145,10	26,00	N	710278★	#
4.724	4.735	.472				5.709	5.713	1.024			
120,00	120,28	12,00	S	100X120X12★	32	149,70	150,00	10,00	S	*100X150X10★	32
4.724	4.735	.472				5.894	5.906	.394			
120,00	120,30	10,00	S	100X120X10★	35	149,70	150,00	13,00	S	*100X150X13★	32
4.724	4.736	.394				5.894	5.906	.512			
123,85	123,98	12,70	S	417967★	41	5.905	5.911	.500	S	*486517	48
4.876	4.881	.500				3.950" SHAFT					
123,85	123,98	12,70	S	*717003★	41	.000	4.689	.370	V	710526	32
4.876	4.881	.500				101,00mm (3.976") SHAFT					
123,85	123,98	15,88	S	455186★	45	-	-	-	S	801000	VRS1
4.876	4.881	.625				-	-	-	V	801004	VRS1
123,85	124,00	15,88	S	*415186★	41	114,00	114,10	10,00	S	710371★	25
4.876	4.882	.625				4.488	4.492	.394			
124,00	124,20	13,00	V	710290★◀	32	3.977" SHAFT					
4.882	4.890	.512				-	-	-	S	801000	VRS1
124,72	125,00	10,00	S	*100X125X10★	32	-	-	-	V	801004	VRS1
4.910	4.921	.394				5.376	5.381	.500	S	*455608	45
124,72	125,00	13,00	S	*100X125X13★	32	3.992" SHAFT					
4.910	4.921	.512				-	-	-	S	801000	VRS1
125,00	125,20	12,00	V	*100X125X12V★	35	-	-	-	V	801004	VRS1
4.921	4.929	.472				5.875	5.881	.625	S	*417401	41
125,00	125,28	12,00	S	231003★	35	4.000" SHAFT					
4.921	4.932	.472				-	-	-	S	801000	VRS1
125,00	125,28	12,00	S	100X125X12★	32	-	-	-	V	801004	VRS1
4.921	4.932	.472				-	-	.500		99401	Redi-Sleeve
126,72	127,00	10,00	S	*100X127X10★	32	-	-	.600		99395	Redi-Sleeve
4.989	5.000	.394				-	-	.650		99400	Redi-Sleeve
4.999	5.004	.468	S	415034	41	-	-	.813		99399	Redi-Sleeve
4.999	5.004	.468	S	455034	45	4.104	4.906	.821	S	*7390%	#
4.999	5.004	.468	N	*455034N	45						
4.999	5.004	.468	V	*455034V	45						
4.999	5.004	.500	S	*416350	41						
4.999	5.004	.500	S	*456350	45						
129,70	130,00	10,00	S	*100X130X10★	32						
5.106	5.118	.394									

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
4.000" SHAFT (cont.)						4.000" SHAFT (cont.)					
4.562	4.568	.375	H	*2093H	33	5.501	5.506	.562	S	415036	41
4.562	4.568	.375	S	*335924	33	5.501	5.506	.562	S	*455036	45
4.562	4.568	.375	H	*335924H	33	5.501	5.506	.562	S	*475036	47
4.562	4.568	.375	N	335924N	33	5.501	5.506	.562	S	*485036	48
4.625	4.634	.312	U	710036	#	5.510	5.560	.320	S	*200947%	200E
4.750	4.750	.500	S	*7183%	#	5.626	5.631	.500	S	*415513	41
4.750	4.756	.562	S	457294	45	5.626	5.631	.500	S	455513	45
4.750	4.760	.313	U	710031	#	5.626	5.631	.500	N	*455513N	45
4.876	4.881	.250	S	45187S	4S	5.626	5.632	.375	S	417507	41
4.876	4.881	.625	S	415187	41	5.626	5.632	.605	S	370066A	06
4.921	4.932	.512	H	710061◀	32	5.689	5.695	.500	S	*456873	45
4.998	5.004	.375	N	*457382N	45	5.696	5.700	.850	S	*4269	74
4.998	5.006	.500	S	327215	32	5.751	5.756	.562	S	415041	41
4.999	5.004	.375	S	475845	47	5.751	5.756	.562	N	*415041N	41
4.999	5.004	.468	S	415035	41	5.751	5.756	.562	S	*455041	45
4.999	5.004	.468	N	*415035N	41	5.751	5.756	.562	S	*475041	47
4.999	5.004	.468	V	415035V	41	5.751	5.756	.562	S	*485041	48
4.999	5.004	.468	S	*475035	47	5.755	5.822	.562	S	*4235%	#
4.999	5.004	.468	H	*475035H	47	5.757	5.772	.930	S	370036A	09
4.999	5.004	.468	S	*485035	48	5.757	5.772	.930	T	380036A	10
4.999	5.004	.468	N	*485035N	48	5.757	5.798	.600	S	370349A=	02
4.999	5.004	.468	H	710022	45	5.999	6.005	.500	S	417509	41
4.999	5.004	.469	V	*4713V↔	#	5.999	6.007	.625	S	*415201	41
4.999	5.004	.469	V	714713↔	96	5.999	6.007	.625	S	*455201	45
4.999	5.004	.500	S	415953	41	5.999	6.007	.625	S	*475201	47
4.999	5.004	.500	H	*415953H	41	5.999	6.007	.625	S	*485201	48
4.999	5.004	.500	N	*415953N	41	6.250	6.256	.500	S	417223	41
4.999	5.004	.500	V	415953V	41	6.250	6.256	.562	S	*415054	41
4.999	5.004	.500	S	*455953	45	6.250	6.256	.562	S	*455054	45
4.999	5.004	.500	H	*455953H	45	6.250	6.256	.562	S	*475054	47
4.999	5.004	.500	N	*455953N	45	6.250	6.256	.562	S	*485054	48
4.999	5.004	.500	S	*475953	47	6.312	6.318	.500	S	*417123	41
4.999	5.004	.500	H	*475953H	47	6.312	6.318	.500	S	*477123	47
4.999	5.004	.500	S	*485953	48	6.375	6.382	.500	S	*476816	47
4.999	5.004	.625	H	*75549H	7S	102,00mm (4.016") SHAFT					
4.999	5.005	.468	S	455035	45	-	-	-	S	801000	VRS1
4.999	5.005	.468	N	455035N	45	-	-	-	V	801004	VRS1
4.999	5.005	.500	T	37939◀	PDW	125.00	125.20	12.00	S	*102X125X12★	32
4.999	5.008	.312	S	345035	34	4.921	4.929	.472	-	-	-
5.000	5.005	.312	N	*456967N	45	130.00	130.28	13.00	S	102X130X13★	35
5.000	5.005	.312	V	456967V	45	5.118	5.129	.512	-	-	-
5.000	5.005	.500	T	39723▶	FW-H	4.040" SHAFT					
5.122	5.131	.378	V	*475252V	47	5.122	5.130	.945	S	370198A	09
5.125	5.130	.312	V	*457649V	45	4.050" SHAFT					
5.125	5.131	.500	S	417356	41	-	-	-	S	801000	VRS1
5.125	5.131	.500	S	*457356	45	-	-	-	V	801004	VRS1
5.125	5.131	.500	S	*477356	47	5.501	5.506	.671	S	6864S	45
5.125	5.131	.500	S	*487356	48	4.062" (4-1/16") SHAFT					
5.126	5.131	.625	S	*415188	41	-	-	-	S	801000	VRS1
5.126	5.131	.625	S	455188	45	-	-	-	V	801004	VRS1
5.248	5.254	.605	S	*370087A	06	5.035	5.197	.320	S	*8481%	46
5.250	5.256	.375	N	*456946N	45	5.372	5.378	.627	S	*9586	#
5.250	5.256	.500	S	417357	41	5.500	5.509	.597	S	*2155↔	#
5.250	5.256	.500	S	*457357	45	5.501	5.506	.562	S	455037	45
5.250	5.256	.500	S	*477357	47	6.191	6.197	.625	S	*57831	5S
5.250	5.256	.500	S	*487357	48	4.125" (4-1/8") SHAFT					
5.250	5.256	.625	S	*8475	39	-	-	-	S	801000	VRS1
5.251	5.256	.468	S	*415192	41	-	-	-	V	801004	VRS1
5.251	5.256	.468	N	415192N	41	-	-	.813	99412	Redi-Sleeve	
5.251	5.256	.468	S	455192	45	4.999	5.004	.468	N	6565N	41
5.251	5.256	.468	S	*475192	47	4.999	5.004	.468	S	*415134	41
5.251	5.256	.468	N	*475192N	47	4.999	5.004	.468	N	*415134N	41
5.251	5.256	.468	S	*485192	48						
5.374	5.379	.500	S	*455512	45						
5.375	5.381	.500	S	*476130	47						
5.375	5.381	.500	S	*486130	48						
5.375	5.381	1.000	S	370015A	03						
5.375	5.475	.375	S	*200799%	200E						
5.376	5.381	.500	S	416130	41						
5.376	5.381	.500	S	*456130	45						
5.500	5.506	.500	S	*456887	45						
5.500	5.506	.562	N	*415036N	41						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

↔ Hydrodynamic Lip Design-Bidirectional % External Bore = w/Metal ID

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
4.125" (4-1/8") SHAFT (cont.)						4.166" SHAFT (cont.)					
4.999	5.004	.625	H	* 77929H	7S	5.625	6.800	.210	S	2064§	#
4.999	5.005	.468	S	455134	45	106,00mm (4.173") SHAFT					
4.999	5.005	.468	H	* 455134H	45	-	-	-	S	801100	VRS1
4.999	5.005	.468	N	* 455134N	45	-	-	-	V	801104	VRS1
4.999	5.005	.468	V	* 455134V	45	123,00	123,10	11,00	S	710295★	47
4.999	5.005	1.037	T	37921◄	PDW	4.843	4.846	.433			
5.126	5.131	.625	S	* 455393	45	125,72	126,00	12,00	S	* 106X126X12★	32
5.126	5.132	.500	S	417511	41	4.950	4.961	.472			
5.251	5.256	.375	S	* 447583	44	126,00	126,20	12,00	H	710366★◄	32
5.251	5.256	.468	S	415142	41	4.961	4.969	.472			
5.251	5.256	.468	S	* 455142	45	5.374	5.390	.690	T	* 78048	7S
5.375	5.381	.605	S	370094A	06	4.187" (4-3/16") SHAFT					
5.375	5.585	1.460	S	* 8557	39	-	-	-	S	801100	VRS1
5.501	5.506	.500	S	417512	41	-	-	-	V	801104	VRS1
5.751	5.756	.562	S	415043	41	-	-	.813		* 99418	Redi-Sleeve
6.000	6.007	.625	S	455203	45	4.999	5.004	.375	S	* 418038	41
6.250	6.256	.562	S	455056	45	4.999	5.004	.468	S	415295	41
6.296	6.302	.390	S	* 200198	200	4.999	5.004	.468	H	* 415295H	41
105,00mm (4.134") SHAFT						4.999	5.004	.468	S	* 455295	45
-	-	-	S	801000	VRS1	5.125	5.131	.500	V	* 455081V	45
-	-	-	V	801004	VRS1	5.250	5.256	.468	H	* 485194H	48
-	-	.787		99413	Redi-Sleeve	5.251	5.256	.468	S	455194	45
120,00	120,20	11,00	H	231052★	32	5.500	5.506	.500	S	* 456889	45
4.724	4.732	.433				5.501	5.506	.500	S	417513	41
124,72	125,00	12,00	S	* 105X125X12★	32	5.501	5.506	.562	S	* 415039	41
4.910	4.921	.472				5.501	5.506	.562	N	* 415039N	41
125,00	125,28	13,00	S	105X125X13★	32	5.501	5.506	.562	S	* 455039	45
4.921	4.932	.512				5.751	5.756	.500	S	417514	41
129,70	130,00	13,00	S	* 105X130X13★	32	5.751	5.756	.562	S	* 415044	45
5.106	5.118	.512				5.999	6.007	.625	S	* 455204	45
130,00	130,16	11,00	T	712107★➔	FW-H	6.000	6.007	.500	S	417515	41
5.118	5.124	.433				6.000	6.007	.625	S	* 416673	41
130,00	130,20	12,00	V	* 105X130X12V★	32	6.000	6.007	.625	N	* 416673N	41
5.118	5.126	.472				6.250	6.256	.500	S	417516	41
130,00	130,25	12,00	V	712004★◄	32	6.250	6.256	.500	V	* 417516V	41
5.118	5.128	.472				6.250	6.256	.562	S	* 455057	45
130,00	130,28	12,00	S	105X130X12★	32	6.373	6.381	.625	S	* 455625	45
5.118	5.129	.472				4.250" (4-1/4") SHAFT					
134,70	135,00	13,00	S	* 105X135X13★	32	-	-	-	S	801100	VRS1
5.303	5.315	.512				-	-	-	V	801104	VRS1
134,70	135,00	14,00	S	* 105X135X14★	32	-	-	.813		99424	Redi-Sleeve
5.303	5.315	.551				5.125	5.130	.360	S	* 3369	#
134,70	135,00	15,00	S	* 105X135X15★	32	5.250	5.253	.790	S	* 77980	7S
5.303	5.315	.591				5.250	5.256	.250	S	47150S	4S
135,00	135,20	12,00	S	* 105X135X12★	32	5.250	5.256	.500	S	416556	41
5.315	5.323	.472				5.250	5.256	.500	S	* 456556	45
135,00	135,20	14,50	V	710349★◄	#	5.250	5.256	.500	S	* 476556	47
5.315	5.323	.571				5.250	5.256	.500	S	* 486556	48
139,70	140,00	13,00	S	* 105X140X13★	32	5.250	5.260	.590	S	* 7234	#
5.500	5.512	.512				5.251	5.256	.375	S	* 452157	45
139,70	140,00	15,00	S	* 105X140X15★	32	5.251	5.256	.375	S	472157	47
5.500	5.512	.591				5.251	5.256	.375	N	* 482157N	48
140,00	140,28	12,00	S	105X140X12★	32	5.251	5.256	.468	S	* 415195	41
5.512	5.523	.472				5.251	5.256	.468	N	* 415195N	41
144,70	145,00	15,00	S	* 105X145X15★	32	5.251	5.256	.468	S	455195	45
5.697	5.709	.591				5.251	5.256	.468	H	* 455195H	45
145,00	145,20	12,00	S	* 105X145X12★	32	5.251	5.256	.468	V	* 455195V	45
5.709	5.717	.472				5.251	5.256	.468	S	* 475195	47
160,00	160,20	15,00	S	* 105X160X15★	32	5.251	5.256	.468	N	* 475195N	47
6.299	6.307	.591				5.251	5.256	.468	S	* 485195	48
4.166" SHAFT						5.251	5.256	.625	S	* 415712	41
-	-	-	S	801100	VRS1	5.251	5.256	.625	S	* 455712	45
-	-	-	V	801104	VRS1	5.251	5.256	.625	N	* 455712N	45
5.500	5.506	.605	S	370106A	06						
5.501	5.506	.600	S	9128S◄➔	45						
5.502	5.506	.600	S	* 2082◄➔	45						

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

◄➔ Hydrodynamic Lip Design-Bidirectional § Inside Diameter-Rides On Ball

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
4.250" (4-1/4") SHAFT (cont.)						4.312" (4-5/16") SHAFT (cont.)					
5.375	5.381	.500	S	*475196	47	5.751	5.756	.562	S	*455046	45
5.376	5.381	.500	S	*415196	41	5.999	6.005	.500	S	416144	41
5.376	5.381	.500	H	*415196H	41	5.999	6.007	.625	S	*455206	45
5.376	5.381	.500	N	*415196N	41	6.250	6.256	.500	S	*417238	41
5.376	5.381	.500	S	*455196	45	6.250	6.256	.562	S	*455059	45
5.376	5.381	.500	N	*455196N	45	6.250	6.256	.562	N	*455059N	45
5.376	5.381	.500	S	*485196	48	4.330" SHAFT					
5.500	5.506	.500	S	*416891	41	5.118	5.130	.396	V	325776	32
5.500	5.506	.500	S	*456891	45	110,00mm (4.331") SHAFT					
5.500	5.506	.500	S	*476891	47	-	-	-	S	801100	VRS1
5.501	5.506	.562	S	*415040	41	-	-	-	V	801104	VRS1
5.501	5.506	.562	N	*415040N	41	-	-	.509		99435	Redi-Sleeve
5.501	5.506	.562	S	*455040	45	124,72	125,00	12,00	S	*110X125X12★	32
5.501	5.506	.562	H	*455040H	45	4.910	4.921	.472			
5.501	5.506	.562	N	*455040N	45	129,70	130,00	13,00	S	*110X130X13★	32
5.501	5.506	.562	S	*475040	47	5.106	5.118	.512			
5.501	5.506	.562	S	*485040	48	130,00	130,18	12,70	V	2261★◀	32
5.625	5.631	.500	S	*476135	47	5.118	5.125	.500			
5.625	5.631	.500	S	*486135	48	130,00	130,20	12,00	V	*110X130X12V★	32
5.626	5.631	.500	S	*416135	41	5.118	5.126	.472			
5.626	5.631	.500	S	*456135	45	130,00	130,28	12,00	S	110X130X12★	32
5.751	5.756	.562	S	*415045	41	5.118	5.129	.472			
5.751	5.756	.562	S	*455045	45	130,00	130,40	13,00	T	712112★◀	W
5.751	5.756	.562	S	*475045	47	5.118	5.134	.512			
5.751	5.756	.562	S	*485045	48	135,00	135,20	12,00	S	*110X135X12★	32
5.876	5.881	.500	V	*457661V	45	5.315	5.323	.472			
5.876	5.881	.625	S	*416136	41	135,00	135,30	13,00	S	110X135X13★	32
5.876	5.881	.625	N	*416136N	41	5.315	5.327	.512			
5.876	5.881	.625	N	*456136N	45	139,70	140,00	14,00	S	*110X140X14★	32
5.876	5.881	.625	V	*456136V	45	5.500	5.512	.551			
5.999	6.005	.500	S	*416137	41	140,00	140,23	13,00	S	110X140X13★	32
5.999	6.007	.625	S	*415205	41	5.512	5.521	.512			
5.999	6.007	.625	S	*455205	45	140,00	140,28	12,00	S	110X140X12★	32
5.999	6.007	.625	N	*455205N	45	5.512	5.523	.472			
5.999	6.007	.625	S	*475205	47	140,00	140,28	12,00	V	*110X140X12V★	32
5.999	6.007	.625	S	*485205	48	5.512	5.523	.472			
6.000	6.008	1.000	T	380065A	10	144,70	145,00	14,00	S	*110X145X14★	32
6.008	6.022	1.000	S	370065A	09	5.697	5.709	.551			
6.035	6.047	.915	S	370107A	03	145,00	145,20	12,00	S	*110X145X12★	32
6.048	6.048	.680	S	376590A=	04	5.709	5.717	.472			
6.126	6.133	.500	S	*417518	41	145,00	145,30	13,00	S	110X145X13★	35
6.127	6.132	.625	S	*455473	45	5.709	5.720	.512			
6.250	6.256	.562	S	*415058	41	149,70	150,00	13,00	S	*110X150X13★	32
6.250	6.256	.562	S	*455058	45	5.894	5.906	.512			
6.250	6.256	.562	S	*475058	47	150,00	150,28	15,00	S	110X150X15★	35
6.250	6.256	.562	S	*485058	48	5.906	5.917	.591			
6.250	6.256	1.188	S	370031A	09	155,00	155,20	15,00	S	*110X155X15★	32
6.250	6.256	1.188	T	380031A	10	6.102	6.110	.591			
6.750	6.757	.625	S	*417452	41	159,70	160,00	12,00	S	*110X160X12★	32
108,00mm (4.252") SHAFT						4.265" SHAFT					
-	-	-	S	801100	VRS1	6.064	6.071	.605	S	370030A	06
-	-	-	V	801104	VRS1	4.312" (4-5/16") SHAFT					
-	-	.813		99424	Redi-Sleeve	-	-	-	S	801100	VRS1
153,62	153,62	17,27	T	386590A★	10	5.376	5.381	.500	S	*456141	45
6.007	6.048	.580				5.501	5.506	.562	S	455197	45
4.265" SHAFT						4.375" (4-3/8") SHAFT					
6.064	6.071	.605	S	370030A	06	5.375	5.500	.570	N	7354N%	8S
4.312" (4-5/16") SHAFT						4.375" (4-3/8") SHAFT					
-	-	-	S	801100	VRS1	5.373	5.500	.570	V	7354V%	8S
-	-	-	V	801104	VRS1	5.375	-	.500	S	*4291	#
5.376	5.381	.500	S	*456141	45	5.375	5.425	.500	V	4291V%	#
5.501	5.506	.562	S	455197	45	5.376	5.381	.500	S	415425	41
5.501	5.506	.562	N	455197N	45	5.376	5.381	.500	V	*415425V	41
5.501	5.506	.562	H	*485197H	48	5.376	5.381	.500	V	*415425V	41
5.751	5.756	.500	S	*417520	41						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW % External Bore = w/Metal ID

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
4.375" (4-3/8") SHAFT (cont.)						114,00mm (4.488") SHAFT (cont.)					
5.500	5.506	.500	S	416380	41	—	—	—	V	801104	VRS1
5.500	5.506	.500	S	*456380	45	135,00	135,25	13,00	S	713163★	47
5.500	5.506	.500	S	*476380	47	5.315	5.325	.512			
5.500	5.506	.500	S	*486380	48	140,00	140,28	13,00	S	114X140X13★	32
5.501	5.506	.500	T	39849➔	FW-H	5.512	5.523	.512			
5.501	5.506	.562	S	*3203	47	4.500" (4-1/2") SHAFT					
5.501	5.506	.562	S	*415198	41	5.250	5.256	.437	S	*335821	33
5.501	5.506	.562	H	*415198H	41	5.250	5.256	.437	H	*335821H	33
5.501	5.506	.562	S	455198	45	5.251	5.259	.437	S	327303	32
5.501	5.506	.562	N	*455198N	45	5.374	5.391	.984	S	370124A	07
5.501	5.506	.562	S	*475198	47	5.375	5.381	.531	S	*456494	45
5.501	5.506	.562	S	*485198	48	5.376	5.381	.437	S	417530	41
5.626	5.631	.500	S	416147	41	5.500	5.506	.500	S	416888	41
5.751	5.756	.562	S	415047	41	5.500	5.506	.500	S	*456888	45
5.751	5.756	.562	S	*455047	45	5.500	5.506	.500	N	*456888N	45
5.751	5.756	.562	S	*475047	47	5.500	5.506	.500	V	*456888V	45
5.751	5.756	.562	S	*485047	48	5.500	5.506	.500	S	*476888	47
5.755	5.705	.840	T	*100253&	#	5.500	5.506	.500	V	*476888V	47
5.757	5.763	1.000	S	370037A	03	5.500	5.506	.500	S	*486888	48
5.757	5.798	.600	S	370338A=	02	5.500	5.506	.500	V	*476888V	47
5.905	5.910	1.000	S	370182A	08	5.500	5.506	.500	S	*486888	48
5.905	5.911	1.000	S	370048A	03	5.500	5.506	.500	H	*486888H	48
5.905	5.918	1.015	T	380048A	10	5.500	5.506	.562	S	455200	45
5.999	6.005	.500	S	416149	41	5.500	5.506	.562	N	455200N	45
5.999	6.007	.500	N	*476149N	47	5.500	5.506	.562	V	*455200V	45
5.999	6.007	.625	S	*415207	41	5.500	5.507	.500	V	416888V	41
5.999	6.007	.625	S	*455207	45	5.500	5.515	.675	S	370178A	07
5.999	6.007	.625	S	*475207	47	5.501	5.506	.500	N	*456030N	45
5.999	6.007	.625	S	*485207	48	5.501	5.506	.562	S	*3275	47
6.064	6.071	.625	S	*455861	45	5.501	5.506	.562	F	*295200	29
6.064	6.071	.625	S	6635S	45	5.501	5.506	.562	S	*415200	41
6.125	6.131	.500	S	417522	41	5.501	5.506	.562	N	*415200N	41
6.125	6.131	.500	V	*417522V	41	5.501	5.506	.562	V	*415200V	41
6.125	6.131	.562	S	*456150	45	5.501	5.506	.562	S	*475200	47
6.127	6.132	.625	S	*415573	41	5.501	5.506	.562	S	*485200	48
6.250	6.256	.562	L	*55060	5L	5.501	5.507	.380	S	*477439	47
6.250	6.256	.562	S	*55060S	5S	5.501	5.511	.500	S	355200	35
6.250	6.256	.562	S	415060	41	5.512	5.518	.562	S	*455943	45
6.250	6.256	.562	S	455060	45	5.625	5.631	.500	S	416153	41
6.250	6.256	.562	S	*475060	47	5.625	5.631	.500	V	*416153V	41
6.250	6.256	.562	S	*485060	48	5.625	5.631	.500	S	456153	45
6.251	6.256	.605	S	370019A	06	5.625	5.631	.500	S	*476153	47
6.311	6.317	1.090	S	370034A	03	5.625	5.631	.500	S	*486153	48
112,00mm (4.409") SHAFT						5.750	5.756	.500	S	416892	41
—	—	—	S	801100	VRS1	5.750	5.756	.500	S	*456892	45
—	—	—	V	801104	VRS1	5.750	5.756	.500	S	*476892	47
135,00	135,20	15,00	S	*112X135X15★	32	5.750	5.756	.562	S	*455049	45
5.315	5.323	.591				5.750	5.756	.960	S	370022A	09
140,00	140,32	13,00	S	112X140X13★	35	5.750	5.756	.960	T	380022A	10
5.512	5.524	.512				5.751	5.756	.562	S	*415049	41
141,70	142,00	14,00	S	*112X142X14★	32	5.751	5.756	.562	S	*475049	47
5.579	5.591	.551				5.751	5.756	.562	S	*485049	48
145,00	145,20	15,00	S	*112X145X15★	32	5.751	5.870	.250	S	*7042S%	#
5.709	5.717	.591				5.876	5.881	.500	S	417531	41
150,00	150,20	15,00	S	*112X150X15★	32	5.876	5.881	.625	S	*415342	41
5.906	5.913	.591				5.876	5.881	.625	S	*455342	45
4.437" (4-7/16") SHAFT						5.876	5.892	.984	S	370131A	11
—	—	—	S	801100	VRS1	5.876	5.892	.984	T	380131A	10
—	—	—	V	801104	VRS1	5.999	6.007	.500	S	416154	41
—	—	1.000		*99439	Redi-Sleeve	5.999	6.007	.500	S	*476154	47
5.500	5.506	.500	S	417295	41	5.999	6.007	.625	S	*415209	41
5.500	5.506	.562	S	457295	25	5.999	6.007	.625	N	*415209N	41
5.751	5.756	.500	S	417525	41	5.999	6.007	.625	S	*475209	47
5.999	6.007	.500	S	417526	41	5.999	6.007	.625	S	*485209	48
114,00mm (4.488") SHAFT						6.000	6.007	.984	S	370020A	03
—	—	—	S	801100	VRS1	6.001	6.007	.500	S	*456800	45
						6.001	6.007	.625	S	*455209	45
						6.125	6.131	.562	S	416070	41
						6.127	6.132	.562	S	*455601	45
						6.250	6.256	.500	S	415351	41
						6.250	6.256	.500	S	*455351	45

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore & Flanged O.D. = w/Metal ID

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
4.500" (4-1/2") SHAFT (cont.)					
6.250	6.256	.562	S	*415062	41
6.250	6.256	.562	H	*415062H	41
6.250	6.256	.562	S	455062	45
6.250	6.256	.562	N	*455062N	45
6.250	6.256	.562	S	*475062	47
6.250	6.256	.562	S	*485062	48
6.250	6.257	.820	S	*9587&	#
6.251	6.265	.610	S	370021A	09
6.305	6.313	.954	S	*2704	#
6.307	6.313	1.141	S	*9907	Redi-Sleeve
6.310	6.316	1.175	S	370086A	03
6.374	6.382	.500	S	417532	41
6.374	6.382	.625	S	*455325	45
6.441	6.447	.937	S	370192A	03
6.622	6.629	1.093	S	370078A	03
115,00mm (4.528") SHAFT					
-	-	-	S	801100	VRS1
-	-	-	V	801104	VRS1
-	-	.813		99452	Redi-Sleeve
135.00	135.20	10.00	V	710258★	32
5.315	5.323	.394			
135.00	135.20	15.00	S	*115X135X15★	32
5.315	5.323	.591			
139.70	140.00	13.00	S	*115X140X13★	32
5.500	5.512	.512			
139.70	140.00	14.00	S	*115X140X14★	32
5.500	5.512	.551			
140.00	140.20	12.00	V	*115X140X12V★	35
5.512	5.520	.472			
140.00	140.28	12.00	S	115X140X12★	32
5.512	5.523	.472			
144.70	145.00	16.00	S	*115X145X16★	32
5.697	5.709	.630			
145.00	145.20	14.00	S	115X145X14★	32
5.709	5.717	.551			
145.00	145.30	13.00	S	*115X145X13★	35
5.709	5.720	.512			
146.20	146.50	13.00	S	*115X146.5X13★	32
5.756	5.768	.512			
149.70	150.00	15.00	S	*115X150X15★	32
5.894	5.906	.591			
150.00	150.28	12.00	S	115X150X12★	35
5.906	5.917	.472			
155.00	155.20	15.00	S	*115X155X15★	32
6.102	6.110	.591			
156.00	156.10	28.00	S	710372★	#
6.142	6.146	1.102			
158.70	159.00	14.00	S	*115X159X14★	32
6.248	6.260	.551			
160.00	160.20	15.00	S	*115X160X15★	32
6.299	6.307	.591			
4.550" SHAFT					
5.500	5.570	.350	S	*200856%	200
5.500	5.662	.350	S	*8482	#
4.562" (4-9/16") SHAFT					
5.312	5.317	.250	S	*447722	44
5.512	5.517	.250	S	*447717	44
5.751	5.756	.500	S	417533	41
5.999	6.007	.500	S	417534	41
6.250	6.256	.500	S	457585	45

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
116,00mm (4.567") SHAFT					
131.70	132.00	12.00	S	*116X132X12★	32
5.185	5.197	.472			
116,50mm (4.587") SHAFT					
135.00	135.30	13.00	V	*355590V★	35
5.315	5.327	.512			
4.625" (4-5/8") SHAFT					
-	-	.438		*99465	Redi-Sleeve
-	-	1.000		99463	Redi-Sleeve
.000	5.998	.580	T	386025A	10
5.500	5.506	.562	H	456641	45
5.501	5.506	.655	H	*77558H	7S
5.625	5.631	.500	S	416156	41
5.751	5.756	.500	S	*415634	41
5.751	5.756	.562	S	415371	41
5.751	5.756	.562	N	*415371N	41
5.751	5.756	.562	S	*455371	45
5.751	5.756	.562	N	*455371N	45
5.751	5.756	.562	S	*475371	47
5.751	5.756	.562	S	*485371	48
5.875	5.881	.625	S	455685	45
5.875	5.881	.625	N	*455685N	45
5.999	6.005	.937	T	380025A	10
5.999	6.006	.890	S	370216A	11
5.999	6.007	.500	S	416158	41
5.999	6.007	.500	S	*476158	47
5.999	6.007	.625	S	*455211	45
5.999	6.007	.625	S	*475211	47
5.999	6.007	.625	S	*485211	48
5.999	6.008	.840	S	370025A	11
6.000	7.125	.987	H	*8548H	#
6.001	6.007	.625	S	*415211	41
6.125	6.131	.562	S	*415970	41
6.125	6.131	.562	H	*415970H	41
6.186	6.192	1.250	V	*2505V	89
6.186	6.192	1.250	S	2505	89
6.250	6.256	.500	S	*417246	41
6.250	6.256	.562	S	415064	41
6.250	6.256	.562	S	*455064	45
6.250	6.256	.562	S	*475064	47
6.250	6.256	.562	S	*485064	48
6.250	6.257	.550	S	*9588&	#
6.622	6.629	1.093	S	6886S	21
6.622	6.629	1.093	S	7700S	21
6.622	6.629	1.093	S	370051A	03
4.635" SHAFT					
6.007	6.014	.937	S	370026A	03
118,00mm (4.646") SHAFT					
5.751	5.756	.500	T	39952	FW-H
173.00	173.80	28.00	S	710089★	#
6.811	6.843	1.102			
4.647" SHAFT					
6.309	6.318	.625	S	*4591	#
4.687" (4-11/16") SHAFT					
-	-	.812		99468	Redi-Sleeve
5.750	5.762	.565	V	*325378	32
5.751	5.756	.500	S	415284	41
5.751	5.756	.562	S	*455378	45
5.751	5.756	.562	H	455378H	45
5.751	5.756	.562	N	*455378N	45

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW ▶ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).
★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
4.687" (4-11/16") SHAFT (cont.)					
5.751	5.756	.750	S	6329S	7S
5.999	6.007	.500	S	417535	41
6.001	6.007	.280	S	*487806	48
6.002	6.007	.250	S	45637S	4S
6.250	6.256	.500	S	417536	41
6.374	6.382	.500	S	417537	41
6.500	6.514	.500	T	*325277T➔	32
6.500	6.514	.500	T	*325277TL➔	32
6.850	6.865	.551	S	*4610	35

4.720" SHAFT					
-	-	.787		99473	Redi-Sleeve
6.312	6.318	.473	S	*457734	45

120,00mm (4.724") SHAFT					
-	-	.787		99473	Redi-Sleeve
139,70	140,00	12,00	S	*120X140X12★	32
5.500	5.512	.472			
139,70	140,00	15,00	S	*120X140X15★	32
5.500	5.512	.591			
140,00	140,21	10,50	S	710084★	47
5.512	5.520	.413			
140,00	140,20	13,00	T	712106★	32
5.512	5.520	.512			
140,00	140,25	12,00	S	717004★	48
5.512	5.522	.472			
140,00	140,28	13,00	S	120X140X13★	32
5.512	5.523	.512			
140,00	140,30	13,00	V	712003★➔	32
5.512	5.524	.512			
145,00	145,28	12,00	S	120X145X12★	35
5.709	5.720	.472			
145,00	145,28	12,00	S	231204★	35
5.709	5.720	.472			
145,70	146,00	13,00	S	*120X146X13★	32
5.736	5.748	.512			
146,20	146,50	13,00	S	*120X146.5X13★	32
5.756	5.768	.512			
149,70	150,00	13,00	S	*120X150X13★	32
5.894	5.906	.512			
149,70	150,00	14,00	S	*120X150X14★	32
5.894	5.906	.551			
149,70	150,00	15,00	S	*120X150X15★	32
5.894	5.906	.591			
150,01	150,16	14,99	S	370220A★	11
5.906	5.912	.590			
150,00	150,20	12,00	V	*120X150X12V★	32
5.906	5.913	.472			
150,00	150,28	12,00	S	120X150X12★	32
5.906	5.917	.472			
154,70	155,00	14,00	S	*120X155X14★	32
6.090	6.102	.551			
154,70	155,00	16,00	S	*120X155X16★	32
6.090	6.102	.630			
155,00	155,20	15,00	S	*120X155X15★	32
6.102	6.110	.591			
158,70	159,00	14,00	S	*120X159X14★	32
6.248	6.260	.551			
159,70	160,00	15,00	S	*120X160X15★	32
6.287	6.299	.591			
160,00	160,20	12,00	V	*120X160X12V★	35
6.299	6.307	.472			
160,00	160,28	12,00	S	120X160X12★	32
6.299	6.310	.472			
179,67	180,00	15,00	S	*120X180X15★	32
7.074	7.087	.591			

4.740" SHAFT					
-	7.575	.410	S	*6701	#
-	7.625	.410	S	*6701SS0	#

4.750" (4-3/4") SHAFT					
-	-	.500		99475	Redi-Sleeve
5.375	-	.312	U	*710037	#
5.750	5.756	.500	S	415138	41
5.750	5.756	.500	H	*415138H	41
5.750	5.756	.500	N	*415138N	41
5.750	5.756	.500	S	*455138	45
5.750	5.756	.500	N	*455138N	45
5.750	5.756	.500	S	*475138	47
5.750	5.756	.500	H	*475138H	47
5.750	5.756	.500	S	*485138	48
5.750	5.757	.562	V	*455053V	45
5.751	5.756	.500	V	*485138V	48
5.751	5.756	.500	V	714750	48
5.751	5.756	.562	S	*415053	41
5.751	5.756	.562	H	*415053H	41
5.751	5.756	.562	N	*415053N	41
5.751	5.756	.562	V	*415053V	41
5.751	5.756	.562	S	*475053	47
5.751	5.756	.562	S	*485053	48
5.751	5.757	.562	S	*455053	45
5.751	5.757	.562	H	*455053H	45
5.751	5.757	.562	N	*455053N	45
5.876	5.881	.500	S	417538	41
5.876	5.881	.500	V	*417538V	41
5.876	5.881	.625	S	*455233	45
5.999	6.006	.562	H	*416122H	41
5.999	6.006	.562	H	*476122H	47
5.999	6.007	.625	S	*415213	41
5.999	6.007	.625	N	415213N	41
5.999	6.007	.625	S	*455213	45
5.999	6.007	.625	S	*475213	47
5.999	6.007	.625	S	*485213	48
6.000	6.006	.500	V	*487250V	48
6.000	6.006	.562	T	39732➔	W-H
6.000	6.006	.562	T	39825➔	FW-H
6.000	6.006	.562	T	39827➔	DW-H
6.001	6.007	.500	N	*457247N	45
6.001	6.007	.500	S	417247	41
6.001	6.007	.500	S	*457247	45
6.001	6.007	.500	S	*477247	47
6.001	6.007	.500	S	*487247	48
6.002	6.092	.285	S	200642% 417252	200 41
6.125	6.131	.500	S	417252	41
6.125	6.131	.562	S	*456160	45
6.127	6.132	.625	S	*455258	45
6.186	6.192	1.250	S	3100	89
6.250	6.256	.500	S	*416866	41
6.250	6.256	.562	S	415066	41
6.250	6.256	.562	S	*455066	45
6.250	6.256	.562	S	*475066	47
6.250	6.256	.562	S	*485066	48
6.437	6.457	.359	S	*200875% 6663S	200E 89
6.618	6.625	1.141	S	6663S	89
6.619	6.625	1.150	S	*4139	#
6.625	6.632	.625	S	*455375	45

4.759" SHAFT					
6.280	6.334	.312	S	*9572%	#

4.765" SHAFT					
5.999	6.006	1.031	S	370181A	01
6.250	6.257	1.050	S	370173A	01
6.251	6.265	.605	S	370005A	09
6.311	6.318	1.078	S	370003A	11
6.311	6.318	1.132	T	380003A	10

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ➔ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
4.765" SHAFT (cont.)					
6.999	7.006	1.250	S	370006A	03
4.768" SHAFT					
6.999	7.039	.735	S	*370224A	02
122,00mm (4.803") SHAFT					
139,70 5.500	140,00 5.512	13,00 .512	S	*122X140X13★	32
4.812" (4-13/16") SHAFT					
5.543	5.551	.472	V	712449◀	32
5.544	5.552	.535	H	3341◀	100
5.750	5.762	.580	T	*327934◀➔	32
5.751	5.756	.562	S	*455251	45
5.751	5.756	.562	H	455251H	45
5.751	5.756	.562	N	*455251N	45
5.751	5.756	.750	S	75251S	7S
5.751	5.757	.512	S	*78021➔	7S
5.751	5.757	.812	S	*78021T◀	7S
5.999	6.007	.500	S	416163	41
5.999	6.007	.500	S	*476163	47
5.999	6.007	.625	S	*455214	45
6.000	6.010	.250	S	*345214	34
6.000	6.010	.250	H	*345214H	34
6.250	6.256	.500	S	456890	45
6.250	6.256	.562	S	*455067	45
6.311	6.316	1.062	S	370027A	03
6.499	6.507	.625	S	*455614	45
6.500	6.507	.865	S	370004A	03
4.835" SHAFT					
5.749	5.756	.375	T	39954◀	DW-H
4.875" (4-7/8") SHAFT					
5.750	5.756	.500	V	*487063V	48
5.999	6.007	.500	S	416167	41
5.999	6.007	.500	N	*416167N	41
5.999	6.007	.500	S	*456167	45
5.999	6.007	.500	S	*486167	48
5.999	6.007	.500	H	*486167H	48
5.999	6.007	.625	S	*415091	41
5.999	6.007	.625	S	455091	45
5.999	6.007	.625	H	*455091H	45
5.999	6.007	.625	S	*475091	47
5.999	6.007	.625	S	*485091	48
6.000	6.006	.562	S	*416621	41
6.000	6.006	.562	N	*416621N	41
6.000	6.006	.562	V	*456621V	45
6.000	6.006	.562	H	*476621H	47
6.001	6.015	.625	S	370195A	07
6.125	6.131	.500	S	417267	41
6.125	6.131	.562	S	*456168	45
6.127	6.132	.625	S	*455217	45
6.250	6.256	.500	S	417269	41
6.250	6.256	.562	S	*415068	41
6.250	6.256	.562	N	*415068N	41
6.250	6.256	.562	S	455068	45
6.250	6.256	.562	N	*455068N	45
6.250	6.256	.562	S	*475068	47
6.250	6.256	.562	S	*485068	48
6.250	6.256	.812	S	*395068	#
6.373	6.379	.921	S	370007A	03
6.375	6.625	.500	S	7866S	75
6.437	6.444	.921	S	370057A	03
6.500	6.506	1.000	S	370121A	03
6.622	6.629	1.000	S	370109A	03

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
124,00mm (4.882") SHAFT					
146,00	146,10	14,00	S	710405★	47
5.748	5.752	.551			
158,70	159,00	14,00	S	*124X159X14★	32
6.248	6.260	.551			
169,70	170,00	14,50	S	*124X170X14.5★	32
6.681	6.693	.571			
170,00	—	14,50	S	710381★%	#
6.693	—	.571			
125,00mm (4.921") SHAFT					
—	—	—	S	801300	VRS1
—	—	—	V	801304	VRS1
—	—	.394	S	*99490	Redi-Sleeve
—	—	1.024	S	99492	Redi-Sleeve
140,00	140,18	7,00	S	*315286★	31
5.512	5.519	.276			
144,70	145,00	13,00	S	*125X145X13★	32
5.697	5.709	.512			
146,20	146,50	13,00	S	*125X146.5X13★	32
5.756	5.768	.512			
149,70	150,00	13,00	S	*125X150X13★	32
5.894	5.906	.512			
149,70	150,00	14,00	S	*125X150X14★	32
5.894	5.906	.551			
149,70	150,00	15,00	S	*125X150X15★	32
5.894	5.906	.591			
150,00	150,20	12,00	V	*125X150X12V★	32
5.906	5.913	.472			
150,00	150,28	12,00	S	125X150X12★	32
5.906	5.917	.472			
150,00	150,28	12,00	S	231250★	35
5.906	5.917	.472			
154,70	155,00	14,00	S	*125X155X14★	32
6.090	6.102	.551			
155,00	155,20	12,00	S	125X155X12★	32
6.102	6.110	.472			
155,00	155,20	15,00	S	*125X155X15★	32
6.102	6.110	.591			
159,70	160,00	15,00	S	*125X160X15★	32
6.287	6.299	.591			
160,00	160,28	12,00	S	125X160X12★	32
6.299	6.310	.472			
170,00	170,20	15,00	S	125X170X15★	32
6.693	6.701	.591			
4.937" (4-15/16") SHAFT					
—	—	—	S	801300	VRS1
—	—	—	V	801304	VRS1
5.999	6.007	.500	S	417539	41
5.999	6.007	.625	S	*455216	45
6.131	6.136	.562	S	*455591	45
6.250	6.256	—	S	*6690	#
6.250	6.256	.500	S	417273	41
6.250	6.256	.562	S	*455069	45
6.374	6.382	.500	S	417540	41
6.374	6.382	.625	S	*455247	45
4.993" SHAFT					
—	—	—	S	801300	VRS1
—	—	—	V	801304	VRS1
6.000	6.006	.413	T	39881◀	FW-H
5.000" SHAFT					
—	—	—	S	801300	VRS1
—	—	—	V	801304	VRS1
—	—	.688	S	99498	Redi-Sleeve

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

◀➔ Hydrodynamic Lip Design-Bidirectional % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
5.000" SHAFT (cont.)						5.000" SHAFT (cont.)					
-	-	.813		99499	Redi-Sleeve	6.874	6.882	.500	V	*417543V	41
5.750	-	.313	U	710032	#	6.877	6.884	.625	S	415897	41
5.750	5.758	.437	N	*712137	33	6.877	6.884	.625	N	*415897N	41
5.751	5.756	.500	T	*3492	48	6.997	7.003	1.093	V	*4144V	90
5.751	5.756	.500	V	3492V	48	7.000	7.006	1.000	S	*370154A	03
5.999	6.006	.413	T	39880	94	7.000	7.007	.500	S	417544	41
5.999	6.006	.717	T	*5721	90	7.000	7.008	.625	S	*416176	41
5.999	6.007	.500	S	*475725	47	7.000	7.015	1.130	V	370215A	#
5.999	6.007	.500	N	*475725N	47	7.437	7.444	.605	S	370038A	06
5.999	6.007	.500	H	*485725H	48	7.500	7.507	.500	S	417545	41
5.999	6.007	.500	N	*485725N	48	7.500	7.507	.562	S	*415460	41
5.999	6.007	.625	S	*415271	41	7.500	7.507	.562	N	*415460N	41
5.999	6.007	.625	H	*415271H	41	7.500	7.507	.562	S	*455460	45
5.999	6.007	.625	N	*415271N	41	7.500	7.507	.875	N	*4048N	#
5.999	6.007	.625	S	*455271	45	128,00mm (5.039") SHAFT					
5.999	6.007	.625	N	*455271N	45	-	-	-	S	801300	VRS1
5.999	6.007	.625	S	*475271	47	-	-	-	V	801304	VRS1
5.999	6.007	.625	S	*485271	48	146,00	146,10	10,00	S	710411★	47
5.999	6.007	.937	S	*215271	21	5.748	5.752	.394			
6.000	6.006	.413	T	39801	FW-H	150,00	150,28	15,00	S	*128X150X15★	35
152,40	152,80	15,00	T	712109★	FW-H	5.906	5.917	.591			
6.000	6.016	.591			#	5.062" (5-1/16") SHAFT					
6.001	6.006	.500	H	*3782	#	-	-	-	S	801300	VRS1
6.001	6.006	.500	H	*715000	#	-	-	-	V	801304	VRS1
6.001	6.007	.500	S	415725	41	6.374	6.382	.625	S	455290	45
6.001	6.007	.500	N	*415725N	41	6.994	7.004	1.312	L	7378	5L
6.001	6.007	.500	S	*455725	45	7.874	7.881	.500	S	*476519	47
6.001	6.007	.500	N	*455725N	45	130,00mm (5.118") SHAFT					
6.001	6.007	.500	S	*485725	48	-	-	-	S	801300	VRS1
6.001	6.007	.625	V	*455271V	45	-	-	-	V	801304	VRS1
6.003	6.009	.500	H	*416801H	41	-	-	.750		99494	Redi-Sleeve
6.003	6.009	.500	H	*476801H	47	-	-	.866		99491	
6.125	6.131	.500	T	39958	FW-H	149,70	150,00	12,00	S	*130X150X12★	32
6.126	6.131	.562	S	417584	41	5.894	5.906	.472			
6.250	6.256	.250	S	204509	204	149,70	150,00	13,00	S	*130X150X13★	32
6.250	6.256	.500	V	416865V	41	5.894	5.906	.512			
6.250	6.256	.500	V	*456865V	45	150,00	150,10	10,00	S	130X150X10★	47
6.250	6.256	.500	S	416865	41	5.906	5.909	.394			
6.250	6.256	.500	S	*456865	45	150,00	150,10	10,00	S	710380★	47
6.250	6.256	.500	N	456865N	45	150,00	150,20	15,00	S	*130X150X15★	32
6.250	6.256	.500	S	*476865	47	5.906	5.913	.591			
6.250	6.256	.500	S	*486865	48	150,00	150,40	13,00	T	712114★	FW-H
6.250	6.256	.562	S	*415070	41	5.906	5.921	.512			
6.250	6.256	.562	N	*415070N	41	150,00	150,44	14,50	T	39806★	FW-H
6.250	6.256	.562	V	*415070V	41	5.906	5.923	.571			
6.250	6.256	.562	S	455070	45	150,00	150,44	14,80	T	39805★	FW-H
6.250	6.256	.562	N	*455070N	45	5.906	5.923	.583			
6.250	6.256	.562	V	*455070V	45	154,70	155,00	14,00	S	*130X155X14★	32
6.250	6.256	.562	S	*475070	47	6.090	6.102	.551			
6.250	6.256	.562	N	*475070N	47	159,70	160,00	13,00	S	*130X160X13★	32
6.250	6.256	.562	S	*485070	48	6.287	6.299	.512			
6.250	6.256	.605	S	370063A	06	159,70	160,00	14,00	S	*130X160X14★	32
6.250	6.256	.625	S	*455285	45	6.287	6.299	.551			
6.250	6.256	1.375	S	370028A	01	160,00	160,20	12,00	V	*130X160X12V★	32
6.251	6.256	.500	N	*416865N	41	6.299	6.307	.472			
6.374	6.382	.625	S	*415312	41	160,00	160,20	15,00	S	130X160X15★	32
6.374	6.382	.625	S	*455312	45	6.299	6.307	.591			
6.374	6.382	.625	V	*455312V	45	160,00	160,28	12,00	S	130X160X12★	32
6.375	6.381	.500	S	417278	41	6.299	6.310	.472			
6.375	6.381	.500	S	*457278	45	164,70	165,00	13,00	S	*130X165X13★	32
6.375	6.381	.500	S	*477278	47	6.484	6.496	.512			
6.375	6.381	.500	S	*487278	48	164,70	165,00	15,00	S	*130X165X15★	32
6.499	6.507	.500	S	417541	41	6.484	6.496	.591			
6.499	6.507	.625	S	*415377	41	169,70	170,00	13,00	S	*130X170X13★	32
6.499	6.507	.625	S	*455377	45	6.681	6.693	.512			
6.622	6.629	.906	N	*8126N	89						
6.622	6.629	.906	S	8126S	89						
6.622	6.629	1.093	S	370166A	03						
6.749	6.757	.500	S	417542	41						
6.749	6.757	.625	S	*455318	45						
6.874	6.882	.500	S	417543	41						

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ⚡ Hydrodynamic Lip Design-CCW
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
130,00mm (5.118") SHAFT (cont.)						5.250" (5-1/4") SHAFT (cont.)					
170,00	170,20	12,00	V	*130X170X12V★	35	6.375	6.381	.500	S	*487358	48
6.693	6.701	.472				6.499	6.507	.625	S	*415104	41
170,00	170,28	15,00	S	130X170X15★	32	6.499	6.507	.625	H	*415104H	41
6.693	6.704	.591				6.499	6.507	.625	N	*415104N	41
170,00	170,30	12,00	S	130X170X12★	35	6.499	6.507	.625	S	455104	45
6.693	6.705	.472				6.500	6.507	.562	S	415645	41
189,67	190,00	12,00	S	*130X190X12★	32	6.500	6.507	.562	S	*455645	45
7.467	7.480	.472				6.500	6.507	.562	S	*475645	47
199,67	200,00	12,00	S	*130X200X12★	32	6.500	6.507	.562	S	*485645	48
7.861	7.874	.472				6.625	6.632	.562	S	417359	41
5.125" (5-1/8") SHAFT						134,00mm (5.276") SHAFT					
-	-	-	S	801300	VRS1	-	-	-	S	801300	VRS1
-	-	-	V	801304	VRS1	-	-	-	V	801304	VRS1
-	-	.866		99491		5.312" (5-5/16") SHAFT					
5.999	6.006	.413	T	*907091◀	90	-	-	-	S	801300	VRS1
5.999	6.006	.413	T	*947090◀	94	-	-	-	V	801304	VRS1
6.125	6.131	.500	S	416557	41	6.499	6.507	.625	S	*455464	45
6.125	6.131	.500	V	456557	45	6.500	6.507	.500	S	417550	41
6.125	6.131	.500	V	*456557V	45	6.500	6.507	.625	H	*456986H	45
6.125	6.131	.562	S	*416172	41	6.500	6.507	1.033	H	*75464H	7S
6.125	6.131	.750	H	*8971H	7S	6.500	6.513	.500	T	*327984◀	32
6.250	6.256	.500	S	417258	41	6.500	6.513	.500	T	*327985T◀	32
6.250	6.256	.562	S	*416173	41	135,00mm (5.315") SHAFT					
6.250	6.256	.562	N	*416173N	41	-	-	-	S	801300	VRS1
6.250	6.256	.562	S	*476173	47	-	-	-	V	801304	VRS1
6.250	6.256	.562	V	*476173V	47	154,70	155,00	13,00	S	*135X155X13★	32
6.251	6.256	.562	S	*455824	45	6.090	6.102	.512			
6.374	6.382	.500	S	417546	41	159,70	160,00	15,00	S	*135X160X15★	32
6.374	6.382	.625	S	*415071	41	6.287	6.299	.591			
6.374	6.382	.625	S	*455071	45	160,00	160,38	13,00	S	135X160X13★	35
6.375	6.381	.625	S	*456830	45	6.299	6.314	.512			
6.376	6.382	.625	N	*455071N	45	164,70	165,00	13,00	S	*135X165X13★	32
6.499	6.507	.500	S	417547	41	6.484	6.496	.512			
6.499	6.507	.625	S	*415495	41	164,70	165,00	14,00	S	*135X165X14★	32
6.499	6.507	.625	S	*455495	45	6.484	6.496	.551			
6.874	6.882	.625	N	*416049N	41	170,00	170,38	12,00	S	135X170X12★	35
6.877	6.884	.625	S	*416977	41	6.693	6.708	.472			
5.187" SHAFT						5.356" SHAFT					
-	-	-	S	801300	VRS1	-	-	-	S	801400	VRS1
-	-	-	V	801304	VRS1	-	-	-	S	801402	VRS3
6.499	6.507	.500	S	417548	41	6.500	6.507	.562	S	*455942	45
6.499	6.507	.625	N	*455494N	45	6.500	6.507	.562	H	*455942H	45
6.500	6.507	.625	H	455956H	45	5.375" (5-3/8") SHAFT					
6.500	6.507	.625	N	*455956N	45	-	-	-	S	801400	VRS1
6.500	6.507	.625	V	*455956V	45	-	-	-	S	801402	VRS3
6.500	6.507	.812	H	*77685H	7S	-	-	.813	S	*99537	Redi-Sleeve
6.500	6.507	1.093	N	*75658	7S	6.374	6.380	.500	S	417551	41
6.500	6.507	1.093	H	*75658H	7S	6.374	6.382	.625	S	*456174	45
6.500	6.512	.500	V	*327958◀▶	32	6.499	6.507	.562	S	455576	45
6.500	6.515	.625	V	*4494V◀▶	#	6.499	6.507	.625	S	*415461	41
5.250" (5-1/4") SHAFT						5.375" (5-3/8") SHAFT					
6.250	6.256	.250	S	447060	44	6.499	6.507	.625	N	*415461N	41
6.250	6.256	.250	V	*447060V	44	6.499	6.507	.625	S	*455461	45
6.250	6.256	.500	S	417262	41	6.500	6.507	.625	N	*455461N	45
6.250	6.256	.500	V	417262V	41	6.624	6.632	.562	S	*455938	45
6.250	6.256	.500	S	*457262	45	6.624	6.632	.562	S	415938	41
6.250	6.256	.500	N	*457262N	45						
6.250	6.256	.500	S	*477262	47						
6.250	6.256	.500	S	*487262	48						
6.250	6.256	.562	S	455448	45						
6.250	6.256	.562	N	*455448N	45						
6.250	6.256	.562	V	*455448V	45						
6.250	6.256	.625	N	*455799N	45						
6.250	6.260	.250	S	345448	34						
6.375	6.381	.500	S	417358	41						
6.375	6.381	.500	S	*457358	45						
6.375	6.381	.500	S	*477358	47						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW ▶ Hydrodynamic Lip Design-Bidirectional

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
5.375" (5-3/8") SHAFT (cont.)						5.500" (5-1/2") SHAFT (cont.)					
6.624	6.632	.625	S	*415105	41	6.750	6.757	.500	S	*475638	47
6.624	6.632	.625	V	*415105V	41	6.750	6.757	.575	S	*476107	47
6.624	6.632	.625	S	*455105	45	6.750	6.757	.575	S	*486107	48
6.624	6.632	.625	N	*455105N	45	6.750	6.758	.575	S	*416107	41
6.749	6.757	.625	S	*415140	41	6.750	6.758	.575	S	*456107	45
6.749	6.757	.625	S	*415140	41	6.874	6.882	.625	S	*416190	41
6.749	6.757	.625	S	*455140	45	6.874	6.882	.625	S	*456190	45
6.875	6.882	1.000	S	3292	89	6.875	6.882	.562	S	*417361	41
7.500	7.508	.562	V	*456187V	45	6.875	6.882	.562	S	*457361	45
7.873	7.881	.750	N	*456112N	45	6.875	6.882	.562	S	*477361	47
7.874	7.881	.750	S	416112	41	6.875	6.882	.562	S	*487361	48
7.874	7.881	.750	N	*416112N	41	6.875	6.882	.625	N	*456190N	45
7.874	7.881	.750	S	*456112	45	6.997	7.004	1.250	S	7006S	43
5.428" SHAFT						7.000	7.007	.625	S	415610	41
-	-	-	S	801400	VRS1	7.125	7.132	1.187	S	370043A	03
-	-	-	S	801402	VRS3	7.125	7.133	.625	S	416191	41
6.500	6.505	.420	S	710425	230	7.248	7.255	.656	N	*485869N	48
138,00mm (5.433") SHAFT						7.250	7.256	1.187	S	370120A	03
-	-	-	S	801400	VRS1	7.437	7.444	1.000	S	370039A	03
-	-	-	S	801402	VRS3	7.500	7.507	.562	N	*456192N	45
152,00	152,10	12,00	S	138X152X12★	47	7.500	7.507	.562	N	*456192N	45
5.984	5.988	.472				7.624	7.631	1.250	S	8635S	21
152,00	152,10	12,00	S	710368★	47	7.625	7.631	1.250	S	*3402	#
5.984	5.988	.472				7.876	7.883	.750	S	*455661	45
152,00	152,20	15,00	S	*138X152X15★	32	8.000	8.009	.625	S	*416195	41
5.984	5.992	.591				8.000	8.009	.750	S	*416196	41
5.437" (5-7/16") SHAFT						8.494	8.501	1.062	S	*3098	#
-	-	-	S	801400	VRS1	8.500	8.507	.625	S	*417419	41
-	-	-	S	801402	VRS3	140,00mm (5.512") SHAFT					
6.749	6.757	.625	L	55357	5L	-	-	-	S	801400	VRS1
5.500" (5-1/2") SHAFT						-	-	-	S	801402	VRS3
-	-	-	S	801400	VRS1	-	-	.807	S	*99552	Redi-Sleeve
-	-	-	S	801402	VRS3	159,70	160,00	14,00	S	*140X160X14★	32
-	-	.812		99549	Redi-Sleeve	6.287	6.299	.551			
6.250	6.257	.500	S	*476842	47	160,00	160,20	12,00	S	140X160X12★	32
6.251	6.257	.500	H	*2151H	25	6.299	6.307	.472			
6.312	6.316	1.250	S	6872S	47	160,00	160,27	13,00	S	140X160X13★	35
6.499	6.507	.625	S	*415273	41	6.299	6.310	.512			
6.499	6.507	.625	N	*415273N	41	160,00	160,27	13,00	S	231402★	35
6.499	6.507	.625	S	*455273	45	6.299	6.310	.512			
6.499	6.507	.625	N	*455273N	45	164,70	165,00	13,00	S	*140X165X13★	32
6.499	6.507	.625	V	*455273V	45	6.484	6.496	.512			
6.500	6.505	1.125	S	*2363	#	165,00	165,28	15,00	S	*140X165X15★	32
6.500	6.505	1.125	S	6873S	43	6.496	6.507	.591			
6.500	6.507	.562	S	*417254	41	167,70	168,00	15,00	S	*140X168X15★	32
6.500	6.507	.562	N	*417254N	41	6.602	6.614	.591			
6.500	6.507	.562	S	*457254	45	169,70	170,00	13,00	S	*140X170X13★	32
6.500	6.507	.562	S	*477254	47	6.681	6.693	.512			
6.500	6.507	.562	S	*487254	48	169,70	170,00	14,00	S	*140X170X14★	32
6.624	6.631	.625	S	*416189	41	6.681	6.693	.551			
6.624	6.631	.625	S	*456189	45	170,00	170,10	14,00	S	710406★	47
6.625	6.632	.562	S	*417360	41	6.693	6.697	.551			
6.625	6.632	.562	S	*457360	45	170,00	170,20	12,00	V	*140X170X12V★	32
6.625	6.632	.562	S	*477360	47	6.693	6.701	.472			
6.625	6.632	.562	S	*487360	48	170,00	170,28	15,00	S	231405★	35
6.625	6.632	.670	H	3054	41	6.693	6.704	.591			
6.625	6.632	.670	V	*3054V	41	170,00	170,30	12,00	S	140X170X12★	32
6.625	6.632	.670	H	*77286H	7S	6.693	6.705	.472			
6.749	6.756	.500	V	*455215V	45	170,00	170,43	15,00	S	140X170X15★	32
6.749	6.756	.625	S	*415073	41	6.693	6.710	.591			
6.749	6.756	.625	H	*415073H	41	174,70	175,00	15,00	S	*140X175X15★	32
6.749	6.756	.625	N	*415073N	41	6.878	6.890	.591			
6.749	6.756	.625	V	*415073V	41	179,67	180,00	15,00	S	*140X180X15★	32
6.749	6.757	.625	S	455073	45	7.074	7.087	.591			
						180,00	180,30	12,00	S	140X180X12★	35
						7.087	7.098	.472			
						180,00	180,38	18,00	S	140X180X18★	32
						7.087	7.102	.709			
						184,67	185,00	16,00	S	*140X185X16★	32
						7.270	7.283	.630			

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
142,00mm (5.591") SHAFT						5.750" (5-3/4") SHAFT					
156,70	157,00	10,00	S	*142X157X10★	32	-	-	-	S	801500	VRS1
6.169	6.181	.394				-	-	-	V	801504	VRS1
5.625" (5-5/8") SHAFT						-	-	.813		99575	Redi-Sleeve
-	-	-	S	801400	VRS1	6.500	6.510	.500	S	*7743	#
-	-	-	S	801402	VRS3	6.624	6.632	.625	S	*415447	41
6.624	6.631	.500	S	*417555	41	6.624	6.632	.625	S	*455447	45
6.624	6.631	.625	S	*455487	45	6.749	6.756	.625	S	*415363	41
6.624	6.631	.625	H	*455487H	45	6.749	6.756	.625	H	*415363H	41
6.624	6.631	.625	N	*455487N	45	6.749	6.757	.625	S	*455363	45
6.625	6.631	.500	S	*415920	41	6.750	6.757	.562	S	*457362	45
6.625	6.631	.625	S	*415487	41	6.750	6.757	.575	N	*417362N	41
6.625	6.631	.625	N	*415487N	41	6.750	6.757	.575	S	*417362	41
6.750	6.757	.500	V	*417942V	41	6.750	6.757	.575	V	*417362V	41
6.874	6.882	.500	S	*417556	41	6.750	6.757	.575	S	*477362	47
6.874	6.882	.500	V	*417556V	41	6.750	6.757	.575	S	*487362	48
6.874	6.882	.625	S	*455106	45	6.874	6.882	.625	S	*416214	41
7.125	7.131	.500	S	*417040	41	6.874	6.882	.625	S	*456214	45
7.125	7.133	.625	S	*455652	45	6.875	6.882	.562	S	417363	41
7.186	7.194	.906	S	370064A	03	6.875	6.882	.562	S	*457363	45
7.500	7.508	.562	S	*456199	45	6.875	6.882	.562	S	*477363	47
5.640" SHAFT						6.875	6.882	.562	S	*487363	48
7.501	7.507	.605	S	370119A	06	7.000	7.008	.625	S	*455107	45
144,00mm (5.669") SHAFT						7.000	7.008	.625	H	*455107H	45
-	-	-	S	801400	VRS1	7.000	7.008	.625	N	*455107N	45
-	-	-	S	801402	VRS3	7.000	7.008	.625	V	*455107V	45
160,00	160,25	12,00	S	144X160X12★	35	7.001	7.008	.562	S	*416666	41
6.299	6.309	.472				7.001	7.008	.562	S	*456666	45
145,00mm (5.709") SHAFT						7.001	7.008	.562	S	*476666	47
-	-	-	S	801400	VRS1	7.001	7.008	.562	S	*486666	48
-	-	-	S	801402	VRS3	7.125	7.132	.562	S	417364	41
164,00	164,10	14,00	S	145X164X14★	47	7.125	7.132	.562	S	*457364	45
6.457	6.461	.551				7.125	7.132	.562	S	*477364	47
164,00	164,10	14,00	S	710369★	47	7.125	7.132	.562	S	*487364	48
6.457	6.461	.551				7.125	7.133	.625	S	*416215	41
164,00	164,20	15,00	S	*145X164X15★	32	7.125	7.133	.625	S	*456215	45
6.457	6.465	.591				7.500	7.506	.500	S	*457557	45
164,70	165,00	13,00	S	*145X165X13★	32	7.500	7.508	.562	S	*416039	41
6.484	6.496	.512				7.500	7.508	.562	S	*456039	45
164,70	165,00	14,00	S	*145X165X14★	32	7.500	7.508	.562	N	*456039N	45
6.484	6.496	.551				7.874	7.881	.750	S	416029	41
166,70	167,00	13,00	S	*145X167X13★	32	7.874	7.881	.750	N	*416029N	41
6.563	6.575	.512				7.875	7.883	.750	S	*455618	45
169,70	170,00	13,00	S	*145X170X13★	32	5.812" (5-13/16") SHAFT					
6.681	6.693	.512				-	-	-	S	801500	VRS1
169,70	170,00	15,00	S	*145X170X15★	32	-	-	-	V	801504	VRS1
6.681	6.693	.591				7.125	7.132	.625	S	*8662	35
170,00	170,45	12,00	S	145X170X12★	32	148,00mm (5.827") SHAFT					
6.693	6.711	.472				-	-	-	S	801500	VRS1
174,70	175,00	13,00	S	*145X175X13★	32	-	-	-	V	801504	VRS1
6.878	6.890	.512				170,00	170,28	15,00	S	148X170X15★	35
174,70	175,00	14,00	S	*145X175X14★	32	6.693	6.704	.591			
6.878	6.890	.551				5.875" (5-7/8") SHAFT					
175,00	175,38	15,00	S	145X175X15★	32	-	-	-	S	801500	VRS1
6.890	6.905	.591				-	-	-	V	801504	VRS1
180,00	180,28	12,00	S	145X180X12★	35	-	-	1.000	S	*99587	Redi-Sleeve
7.087	7.098	.472				7.125	7.133	.500	S	*3620	#
146,00mm (5.748") SHAFT						7.125	7.133	.500	S	*416476	41
-	-	-	S	801500	VRS1	7.125	7.133	.625	S	*415075	41
-	-	-	V	801504	VRS1	7.125	7.133	.625	N	*415075N	41
-	-	.813		99575	Redi-Sleeve	7.125	7.133	.625	S	455075	45
6.751	6.763	.500	V	*357971V	35	7.500	7.508	.562	S	*455297	45
						7.999	8.007	.750	S	456052	45
						8.001	8.007	.750	S	3016	45

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

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Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
150,00mm (5.906") SHAFT						6.000" SHAFT (cont.)					
-	-	-	S	801500	VRS1	7.127	7.133	.500	S	*447582	44
-	-	-	V	801504	VRS1	7.238	7.244	.472	S	*447975	44
167,70	168,00	13,00	S	*150X168X13★	32	7.475	7.481	.590	T	39715◄	#
6.602	6.614	.512				7.500	7.508	.562	S	415072	41
169,70	170,00	15,00	S	*150X170X15★	32	7.500	7.508	.562	H	*415072H	41
6.681	6.693	.591				7.500	7.508	.562	V	*415072V	41
174,70	175,00	10,00	S	*150X175X10★	32	7.500	7.508	.562	S	*455072	45
6.878	6.890	.394				7.501	7.508	.562	S	*475072	47
179,67	180,00	13,00	S	*150X180X13★	32	7.501	7.508	.562	S	*485072	48
7.074	7.087	.512				7.875	7.881	.605	S	*370077A	06
179,67	180,00	14,00	S	*150X180X14★	32	8.187	8.194	1.250	S	*8091	#
7.074	7.087	.551				8.500	8.509	.625	S	*416232	41
180,00	180,20	15,00	V	*150X180X15V★	32	154,00mm (6.063") SHAFT					
7.087	7.094	.591				-	-	-	S	801500	VRS1
180,00	180,35	12,00	S	150X180X12★	32	-	-	-	V	801504	VRS1
7.087	7.100	.472				171,70	172,00	14,00	S	*154X172X14★	32
180,00	180,35	15,00	S	150X180X15★	35	6.760	6.772	.551			
7.087	7.100	.591				172,00	172,20	15,00	S	*154X172X15★	32
184,67	185,00	16,00	S	*150X185X16★	32	6.772	6.780	.591			
7.270	7.283	.630				6.077" SHAFT					
189,67	190,00	15,00	S	*150X190X15★	32	-	-	-	S	801500	VRS1
7.467	7.480	.591				-	-	-	V	801504	VRS1
199,67	200,00	13,00	S	*150X200X13★	32	7.328	7.336	.445	T	39889◄	W-H
7.861	7.874	.512				7.328	7.336	.445	T	39890►	W-H
209,67	210,00	15,00	S	*150X210X15★	32	155,00mm (6.102") SHAFT					
8.255	8.268	.591				-	-	1.024	99606	Redi-Sleeve	
224,67	225,00	12,00	S	*150X225X12★	32	171,70	172,00	14,00	S	*155X172X14★	32
8.845	8.858	.472				6.760	6.772	.551			
5.937" (5-15/16") SHAFT						173,70	174,00	12,00	S	*155X174X12★	32
-	-	-	S	801500	VRS1	6.838	6.850	.472			
-	-	-	V	801504	VRS1	179,67	180,00	12,00	S	*155X180X12★	32
-	-	1.000	★ 99596	Redi-Sleeve		7.074	7.087	.472			
6.801	-	1.125	S	8907	#	179,67	180,00	13,00	S	*155X180X13★	32
7.502	7.508	.562	S	417780	41	7.074	7.087	.512			
5.997" SHAFT						180,00	180,23	15,00	S	155X180X15★	32
-	-	-	S	801500	VRS1	7.087	7.096	.591			
-	-	-	V	801504	VRS1	184,67	185,00	16,00	S	*155X185X16★	32
-	-	.500	99601	Redi-Sleeve		7.270	7.283	.630			
-	-	1.000	99599	Redi-Sleeve		6.107" SHAFT					
7.125	7.131	.500	T	39956◄	DW-H	6.750	6.757	.500	V	*4165◄	#
6.000" SHAFT						6.750	6.757	.500	V	*4165V◄	#
-	-	-	S	801500	VRS1	6.750	6.757	.675	V	*600319◄	41
-	-	-	V	801504	VRS1	6.110" SHAFT					
-	-	.500	99601	Redi-Sleeve		7.187	7.192	.400	S	*710500	230
-	-	1.000	99599	Redi-Sleeve		6.125" (6-1/8") SHAFT					
6.750	6.756	.437	T	39807◄	W-H	6.750	6.757	.375	H	*336665H	33
6.750	6.757	.500	H	*2297◄	25	7.125	7.131	.500	V	*486701	48
6.750	6.757	.500	V	2297V◄	25	7.125	7.133	.625	S	*415330	41
6.750	6.757	.625	T	39823►	DW-H	7.125	7.133	.625	S	455330	45
6.751	6.757	.375	S	447793	44	7.125	7.133	.625	H	*455330H	45
7.000	7.007	.500	S	415683	41	7.500	7.508	.562	S	415074	41
7.000	7.008	.625	S	*416055	41	7.500	7.508	.562	H	*415074H	41
7.000	7.008	.625	N	*416055N	41	7.500	7.508	.562	N	*415074N	41
7.001	7.008	.625	V	456055	45	7.500	7.508	.562	S	*455074	45
7.001	7.008	.625	N	*456055N	45	7.627	7.633	.625	S	457874	45
7.001	7.008	.625	V	*456055V	45	7.750	7.756	.750	S	*417017	41
7.125	7.132	.562	S	417365	41	7.875	7.881	.750	N	*417053N	41
7.125	7.132	.562	S	*457365	45						
7.125	7.132	.562	S	*477365	47						
7.125	7.132	.562	S	*487365	48						
7.125	7.133	.625	S	*416219	41						
7.125	7.133	.625	H	*416219H	41						
7.125	7.133	.625	N	*416219N	41						
7.125	7.133	.625	N	*456219N	45						

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◄ Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
156,00mm (6.142") SHAFT						160,00mm (6.299") SHAFT (cont.)					
180,00	180,20	15,00	T	712110★◀	W	200,00	200,20	15,00	S	160X200X15★	32
7.087	7.094	.591				7.874	7.882	.591			
180,00	180,40	15,00	T	712122★◀	FW-H	239,67	240,00	15,00	S	*160X240X15★	32
7.087	7.102	.591				9.436	9.449	.591			
8.000	8.007	.658	V	*4602V	#	6.312" SHAFT					
6.187" (6-3/16") SHAFT						7.500	7.507	.690	H	*3061H	41
7.250	7.258	.734	S	417921	41	7.500	7.507	.690	V	*3061V	41
7.500	7.507	.562	H	*455583H	45	7.500	7.507	.690	H	*77322H	7S
7.500	7.507	.562	N	455583N	45	7.500	7.507	.690	V	*77322V	7S
7.500	7.508	.562	S	455583	45	6.328" SHAFT					
6.198" SHAFT						7.329	7.336	.500	H	3807	64
7.328	7.336	.354	T	39885◀	FW-H	6.375" (6-3/8") SHAFT					
7.328	7.336	.445	T	39888◀	FW-H	7.875	7.881	.750	S	*415110	41
6.202" SHAFT						7.875	7.883	.500	S	417563	41
7.329	7.336	.377	T	39886◀	DW-H	8.000	8.008	1.060	S	*7516	#
6.204" SHAFT						162,00mm (6.378") SHAFT					
7.328	7.336	.562	H	2628	64	200,00	200,20	15,00	S	*162X200X15★	32
7.330	7.336	.445	T	39887➔	FW-H	7.874	7.882	.591			
6.238" SHAFT						165,00mm (6.496") SHAFT					
8.654	8.661	.560	T	*39044◀	90	-	-	1.000		99650	Redi-Sleeve
8.655	8.661	1.100	T	39883◀	90	189,67	190,00	14,00	S	*165X190X14★	32
6.250" (6-1/4") SHAFT						7.467	7.480	.551			
-	-	1.031		99625	Redi-Sleeve	189,67	190,00	15,00	S	*165X190X15★	32
7.500	7.508	.562	S	*415480	41	7.467	7.480	.591			
7.500	7.508	.562	S	455480	45	190,00	190,35	13,00	S	165X190X13★	41
7.500	7.508	.562	H	*455480H	45	7.480	7.494	.512			
7.500	7.508	.562	V	455480V	45	7.632	7.638	.497	T	37586	#
7.750	7.758	.500	S	417562	41	194,67	195,00	15,00	S	*165X195X15★	32
7.750	7.758	.750	S	*455109	45	7.664	7.677	.591			
7.875	7.881	.750	S	415854	41	199,67	200,00	14,00	S	*165X200X14★	32
7.875	7.881	.750	S	*455854	45	7.861	7.874	.551			
160,00mm (6.299") SHAFT						9.600	9.606	.540	T	39861◀	#
-	-	1.000		99630	Redi-Sleeve	6.500" (6-1/2") SHAFT					
179,67	180,00	10,00	S	*160X180X10★	32	-	-	-	S	801700	VRS1
7.074	7.087	.394				-	-	-	S	801701	VRS2
179,67	180,00	13,00	S	*160X180X13★	32	-	-	1.000		99650	Redi-Sleeve
7.074	7.087	.512				7.382	7.392	.622	S	*415913	41
181,67	182,00	18,00	S	*160X182X18★	32	7.382	7.392	.622	N	*415913N	41
7.152	7.165	.709				7.500	7.508	.562	S	415294	41
184,67	185,00	13,00	S	*160X185X13★	32	7.500	7.508	.562	N	*415294N	41
7.270	7.283	.512				7.500	7.508	.562	S	455294	45
185,00	185,20	10,00	V	*160X185X10V★	35	7.500	7.508	.562	N	*455294N	45
7.283	7.291	.394				7.500	7.508	.562	V	*455294V	45
185,00	185,35	10,00	S	160X185X10★	35	7.501	7.508	.812	S	*3276	#
7.283	7.297	.394				7.627	7.633	.625	S	*457808	45
189,67	190,00	13,00	S	*160X190X13★	32	8.000	8.007	.625	T	41509➔	PDW
7.467	7.480	.512				8.000	8.007	.625	T	41510◀	PDW
190,00	190,20	15,00	V	*160X190X15V★	32	8.000	8.009	.625	S	416229	41
7.480	7.488	.591				8.000	8.009	.625	N	*416229N	41
190,00	190,35	15,00	S	160X190X15★	32	8.000	8.009	.750	S	*415111	41
7.480	7.494	.591				8.000	8.009	.750	S	*455111	45
190,00	190,40	13,00	T	712118★◀	FW-H	8.000	8.009	.750	H	*455111H	45
7.480	7.496	.512				8.750	8.757	.750	N	*457131N	45
199,67	200,00	14,00	S	*160X200X14★	32	9.252	9.260	.750	S	*416592	41
7.861	7.874	.551				6.625" (6-5/8") SHAFT					
200,00	200,20	12,00	S	160X200X12★	32	-	-	-	S	801700	VRS1
7.874	7.882	.472				-	-	-	S	801701	VRS2
160,00mm (6.299") SHAFT						8.000	8.007	.750	T	*914411◀	91

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ➔ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
6.625" (6-5/8") SHAFT (cont.)						6.937" (6-15/16") SHAFT					
8.000	8.007	.750	T	*914412◄	91	—	—	—	S	801800	VRS1
8.000	8.007	1.000	T	*914413►	91	8.129	8.138	.750	S	*455592	45
8.007	8.014	.605	S	*370149A	06	6.956" SHAFT					
8.125	8.134	.625	S	417298	41	—	—	—	S	801800	VRS1
9.615	9.622	.979	V	*4354V	#	8.625	8.633	.750	S	*3123	#
170,00mm (6.693") SHAFT						7.000" SHAFT					
—	—	—	S	801700	VRS1	—	—	—	S	801800	VRS1
—	—	—	S	801701	VRS2	—	—	1.000	S	99700	Redi-Sleeve
—	—	1.250	S	*99640	Redi-Sleeve	8.000	8.007	.562	S	*455699	45
189.67	190.00	10.00	S	*170X190X10★	32	8.000	8.007	.750	S	*455517	45
7.467	7.480	.394				8.000	8.007	.750	N	*455517N	45
189.67	190.00	14.00	S	*170X190X14★	32	8.000	8.009	.625	S	416364	41
7.467	7.480	.551				8.000	8.009	.625	N	*416364N	41
200.00	200.35	15.00	S	170X200X15★	32	8.000	8.009	.625	V	*416364V	41
7.874	7.888	.591				8.000	8.009	.625	S	*456364	45
210.00	210.20	15.00	S	170X210X15★	32	8.000	8.009	.625	N	*456364N	45
8.268	8.276	.591				8.000	8.009	.625	V	*456364V	45
6.750" (6-3/4") SHAFT						7.000" SHAFT (cont.)					
—	—	—	S	801700	VRS1	8.000	8.007	.750	S	*415517N	45
—	—	—	S	801701	VRS2	8.000	8.009	.625	S	416364	41
—	—	.813	S	99675	Redi-Sleeve	8.000	8.009	.625	N	*416364N	41
7.657	7.750	.500	S	*476871	47	8.000	8.009	.625	V	*416364V	41
8.000	8.007	.625	S	*455327	45	8.000	8.009	.625	S	*456364	45
8.000	8.007	.625	V	*455327V	45	8.000	8.009	.625	N	*456364N	45
8.000	8.009	.625	S	415327	41	8.000	8.009	.625	V	*456364V	45
8.000	8.009	.625	H	*415327H	41	8.000	8.009	.750	S	*415517	41
8.000	8.009	.625	N	*415327N	41	8.001	8.009	.750	S	*455282	45
8.007	8.017	.625	S	416362	41	8.001	8.009	.750	N	*455282N	45
8.007	8.017	.625	N	*416362N	41	8.250	8.257	.625	S	417597	41
8.007	8.017	.625	V	*416362V	41	8.250	8.258	.750	S	*455452	45
8.250	8.257	.562	S	417596	41	8.251	8.258	.625	S	*457466	45
8.250	8.257	.750	S	*415092	41	8.375	8.382	.625	S	417255	41
8.500	8.509	.625	S	416008	41	8.375	8.382	.750	S	*416674	41
6.772" SHAFT						7.000" SHAFT (cont.)					
—	—	—	S	801700	VRS1	8.375	8.382	.750	N	*416674N	41
—	—	—	S	801701	VRS2	8.375	8.382	.750	V	416674V	41
9.000	9.007	.658	V	*4603V	#	8.377	8.384	.750	S	*456724	45
6.775" SHAFT						7.000" SHAFT (cont.)					
—	—	—	S	801700	VRS1	8.500	8.507	1.031	S	*216239	21
—	—	—	S	801701	VRS2	8.500	8.509	.625	S	416239	41
7.875	7.880	.360	S	710562	230	8.500	8.509	.750	S	*415084	41
6.875" (6-7/8") SHAFT						7.000" SHAFT (cont.)					
—	—	—	S	801700	VRS1	8.500	8.509	.750	N	*415084N	41
—	—	—	S	801701	VRS2	8.500	8.509	.750	S	*455084	45
7.875	7.883	.625	S	455948	45	8.500	8.509	.750	S	*475084	47
8.375	8.382	.625	S	455584	45	8.750	8.759	.625	S	417564	41
8.375	8.382	.625	N	*455584N	45	8.750	8.759	.750	S	*455421	45
8.375	8.382	.750	S	*455114	45	9.313	9.321	.625	S	415876	41
8.543	8.543	.825	S	*3124%	46	9.313	9.321	.625	V	415876V	41
175,00mm (6.890") SHAFT						180,00mm (7.087") SHAFT					
—	—	—	S	801700	VRS1	—	—	—	S	801800	VRS1
—	—	—	S	801701	VRS2	—	—	1.300	S	*99721	Redi-Sleeve
—	—	—	S	801800	VRS1	199.67	200.00	14.00	S	*180X200X14★	32
200.00	200.35	15.00	S	175X200X15★	32	7.861	7.874	.551			
7.874	7.888	.591				199.67	200.00	15.00	S	*180X200X15★	32
209.67	210.00	15.00	S	*175X210X15★	32	7.861	7.874	.591			
8.255	8.268	.591				210.00	210.35	15.00	S	180X210X15★	32
229.67	230.00	20.00	S	*175X230X20★	32	8.268	8.281	.591			
9.042	9.055	.787				214.67	215.00	15.00	S	*180X215X15★	32
7.117" SHAFT						7.117" SHAFT (cont.)					
—	—	—	S	801800	VRS1	8.452	8.465	.591			
8.126	8.134	.750	S	*415859	41	219.67	220.00	15.00	S	*180X220X15★	32
7.125" (7-1/8") SHAFT						7.117" SHAFT (cont.)					
—	—	—	S	801800	VRS1	8.648	8.661	.591			
8.007	8.017	.625	S	*415927	41	219.67	220.00	16.00	S	*180X220X16★	32
8.494	8.501	1.062	S	*7747	47	8.648	8.661	.630			
8.625	8.632	.562	S	416077	41	7.117" SHAFT (cont.)					
8.625	8.632	.562	N	*416077N	41	—	—	—	S	801800	VRS1

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ► Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
7.125" (7-1/8") SHAFT (cont.)					
8.625	8.634	.750	S	*415115	41
8.625	8.634	.750	N	*415115N	41
7.250" (7-1/4") SHAFT					
-	-	-	S	801800	VRS1
-	-	1.250		*99725	Redi-Sleeve
8.125	8.132	.940	T	39815	DW-H
8.125	8.133	.500	T	39701	FW-H
8.250	8.257	.625	S	*456044	45
8.250	8.257	.625	S	*416044	41
8.750	8.758	.605	S	370175A	06
8.750	8.759	.750	S	*415116	41
9.125	9.133	.750	S	*416395	41
185,00mm (7.283") SHAFT					
-	-	-	S	801800	VRS1
209.67	210.00	15.00	S	*185X210X15★	32
8.255	8.268	.591			
210.00	210.35	13.00	S	185X210X13★	35
8.268	8.281	.512			
215.00	215.22	16.00	S	*185X215X16★	32
8.465	8.473	.630			
7.375" (7-3/8") SHAFT					
-	-	-	S	801900	VRS1
-	-	-	S	801901	VRS2
8.875	8.882	.750	S	*455117	45
8.875	8.882	.750	V	*455117V	45
9.000	9.010	.750	S	415317	41
9.054	9.063	1.062	S	*370082A	03
9.375	9.382	.750	S	*456248	45
9.615	9.622	.979	V	4353	#
190,00mm (7.480") SHAFT					
-	-	-	S	801900	VRS1
-	-	-	S	801901	VRS2
-	-	-	S	802000	VRS1
209.67	210.00	10.00	S	*190X210X10★	32
8.255	8.268	.394			
209.67	210.00	15.00	S	*190X210X15★	32
8.255	8.268	.591			
220.00	220.35	15.00	S	*190X220X15★	32
8.661	8.675	.591			
220.00	220.35	16.00	S	*231905★	35
8.661	8.675	.630			
220.00	220.35	16.00	S	190X220X16★	32
8.661	8.675	.630			
224.67	225.00	12.00	S	*190X225X12★	32
8.845	8.858	.472			
224.67	225.00	16.00	S	*190X225X16★	32
8.845	8.858	.630			
225.00	225.20	16.00	V	*190X225X16V★	32
8.858	8.866	.630			
229.67	230.00	15.00	S	*190X230X15★	32
9.042	9.055	.591			
230.00	230.20	16.00	S	190X230X16★	32
9.055	9.063	.630			
7.500" (7-1/2") SHAFT					
-	-	-	S	801900	VRS1
-	-	-	S	801901	VRS2
-	-	-	S	802000	VRS1
-	-	.813		*99750	Redi-Sleeve
8.500	8.509	.625	S	*415867	41
8.500	8.509	.625	V	455867V	45
9.000	9.010	.750	S	*415551	41
9.000	9.010	.750	N	*415551N	41

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
7.500" (7-1/2") SHAFT (cont.)					
9.000	9.010	.750	V	415551V	41
9.000	9.010	.750	S	*455551	45
9.000	9.010	.750	N	*455551N	45
9.243	9.250	.625	S	417283	41
9.243	9.250	.625	N	*417283N	41
9.750	9.758	.625	N	*417904N	41
10.500	10.510	.750	S	417385	41
10.500	10.510	.750	V	*417385V	41
7.625" (7-5/8") SHAFT					
-	-	-	S	801900	VRS1
-	-	-	S	801901	VRS2
-	-	-	S	802000	VRS1
8.623	8.630	.715	S	*416482	41
8.625	8.632	.562	S	416102	41
9.125	9.133	.625	S	*417598	41
9.125	9.133	.625	V	417598V	41
9.250	9.258	.625	S	*457991	45
195,00mm (7.677") SHAFT					
229.67	230.00	16.00	S	*195X230X16★	32
9.042	9.055	.630			
229.67	230.00	20.00	S	*195X230X20★	32
9.042	9.055	.787			
7.718" (7-25/32") SHAFT					
-	-	-	S	801990	VRS1
-	-	-	S	801991	VRS2
-	-	-	S	802000	VRS1
9.186	9.191	.875	S	*8562	#
7.750" (7-3/4") SHAFT					
-	-	-	S	801990	VRS1
-	-	-	S	801991	VRS2
-	-	-	S	802000	VRS1
-	-	1.000		*99775	Redi-Sleeve
9.000	9.010	.625	S	457299	45
9.250	9.258	.750	S	*415120	41
9.250	9.260	.625	S	*455406	45
10.000	10.008	.750	S	*417115	41
10.500	10.510	.750	N	*457149N	45
10.500	10.510	.750	V	*457149V	45
7.872" SHAFT					
-	-	-	S	801990	VRS1
-	-	-	S	801991	VRS2
-	-	-	S	802000	VRS1
-	-	1.359		*99787	Redi-Sleeve
9.500	9.507	.750	S	*455945	45
200,00mm (7.874") SHAFT					
-	-	-	S	801990	VRS1
-	-	-	S	801991	VRS2
-	-	-	S	802000	VRS1
-	-	1.359		*99787	Redi-Sleeve
229.67	230.00	13.00	S	*200X230X13★	32
9.042	9.055	.512			
230.00	230.20	15.00	V	*200X230X15V★	32
9.055	9.063	.591			
230.00	230.35	15.00	S	200X230X15★	32
9.055	9.069	.591			
234.67	235.00	15.00	S	*200X235X15★	32
9.239	9.252	.591			
239.67	240.00	15.00	S	*200X240X15★	32
9.436	9.449	.591			

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
200,00mm (7.874") SHAFT (cont.)						205,00mm (8.071") SHAFT					
239,67	240,00	20,00	S	*200X240X20★	32	224,67	225,00	18,00	S	*205X225X18★	32
9.436	9.449	.787				8.845	8.858	.709			
249,67	250,00	16,00	S	*200X250X16★	32	234,67	235,00	18,00	S	*205X235X18★	32
9.830	9.843	.630				9.239	9.252	.709			
249,67	250,00	20,00	S	*200X250X20★	32	8.125" (8-1/8") SHAFT					
9.830	9.843	.787				–	–	–	S	801990	VRS1
7.875" SHAFT						–	–	–	S	801991	VRS2
9.000	9.010	.750	S	*455397	45	–	–	–	S	802000	VRS1
9.250	9.258	1.000	S	*417657	41	8.750	8.757	.375	S	*256656	25
9.375	9.383	.750	S	455121	45	9.371	9.379	.425	S	*3594	#
9.375	9.383	.750	N	*455121N	45	9.375	9.379	.750	S	*455944	45
9.375	9.383	.750	V	455121V	45	10.125	10.130	.750	S	455123	45
10.000	10.008	.625	S	417016	41	8.250" (8-1/4") SHAFT					
10.000	10.008	.750	S	*417114	41	–	–	–	S	801990	VRS1
10.234	10.242	.605	S	*370151A	06	–	–	–	S	801991	VRS2
7.908" SHAFT						–	–	–	S	802000	VRS1
–	–	–	S	801990	VRS1	9.250	9.258	.625	S	455475	45
–	–	–	S	801991	VRS2	9.500	9.509	.625	V	458009V	45
–	–	–	S	802000	VRS1	10.250	10.260	.750	S	415124	41
9.528	9.535	.960	S	*3776S	#	10.625	10.633	.750	S	416951	41
7.927" SHAFT						11.500	11.507	.750	S	416422	41
–	–	–	S	801990	VRS1	11.500	11.507	.750	N	*416422N	41
–	–	–	S	801991	VRS2	210,00mm (8.268") SHAFT					
–	–	–	S	802000	VRS1	–	–	–	S	801990	VRS1
9.174	9.182	.687	S	*8228	#	–	–	–	S	801991	VRS2
7.937" (7-15/16") SHAFT						–	–	–	S	802000	VRS1
–	–	–	S	801990	VRS1	240,00	240,35	15,00	S	210X240X15★	35
–	–	–	S	801991	VRS2	9.449	9.463	.591			
–	–	–	S	802000	VRS1	249,67	250,00	16,00	S	*210X250X16★	32
–	–	1.000	S	*99799	Redi-Sleeve	9.830	9.843	.630			
8.750	8.757	.565	S	417817	41	250,00	250,20	15,00	S	210X250X15★	32
7.995" SHAFT						9.843	9.850	.591			
–	–	–	S	801990	VRS1	269,67	270,00	16,00	S	*210X270X16★	32
–	–	–	S	801991	VRS2	10.617	10.630	.630			
–	–	–	S	802000	VRS1	8.345" SHAFT					
–	–	1.000	S	*99800	Redi-Sleeve	–	–	–	S	802200	VRS1
10.000	10.010	.750	S	*416403	41	10.750	10.758	1.125	S	*396412	#
11.625	11.633	1.078	S	8724S	41	8.375" (8-3/8") SHAFT					
8.000" SHAFT						10.375	10.385	.625	S	417022	41
–	–	–	S	801990	VRS1	8.500" (8-1/2") SHAFT					
–	–	–	S	801991	VRS2	–	–	–	S	802200	VRS1
–	–	–	S	802000	VRS1	9.500	9.509	.625	V	455828V	45
–	–	1.000	S	*99800	Redi-Sleeve	10.000	10.008	.625	S	417603	41
9.000	9.010	.750	S	415656	41	10.000	10.010	.687	S	*456554	45
9.250	9.258	.625	S	417600	41	10.000	10.010	.750	S	*415489	41
9.250	9.260	.750	S	*415299	41	10.000	10.010	.750	V	*415489V	41
9.250	9.260	.750	S	*455299	45	10.000	10.010	.750	S	*455489	45
9.500	9.508	.625	S	417601	41	10.000	10.010	.750	H	*455489H	45
9.500	9.508	.860	S	*3624	#	10.500	10.508	.625	S	417604	41
9.500	9.510	.750	S	*415300	41	10.500	10.510	.750	S	*455126	45
9.500	9.510	.750	N	*415300N	41	10.500	10.510	.750	H	*455126H	45
9.500	9.510	.750	S	*455300	45	10.625	10.633	.750	S	416394	41
10.000	10.008	.625	S	417602	41	8.625" (8-5/8") SHAFT					
10.000	10.008	.625	N	*417602N	41	–	–	–	S	802200	VRS1
10.000	10.008	.750	S	*415122	41	9.778	9.786	.625	S	*256616	25
10.000	10.008	.750	S	*455122	45	10.625	10.635	.750	S	417567	41
10.000	10.008	1.145	S	*396440	#						
10.125	10.133	.750	S	415052	41						
11.624	11.632	.750	S	7131	#						

SIZE SECTION

For Illustration and Material Data See Technical Section
 # Designed For A Specific Application - Not Recommended For General Use
 * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
220,00mm (8.661") SHAFT					
—	—	—	S	802200	VRS1
250,00	250,20	15,00	V	*220X250X15V★	35
9.843	9.850	.591			
250,00	250,35	15,00	S	220X250X15★	32
9.843	9.856	.591			
254,67	255,00	16,00	S	*220X255X16★	32
10.026	10.039	.630			
259,67	260,00	14,00	S	*220X260X14★	32
10.223	10.236	.551			
259,67	260,00	16,00	S	*220X260X16★	32
10.223	10.236	.630			
260,00	260,20	15,00	S	*220X260X15★	32
10.236	10.244	.591			
222,00mm (8.740") SHAFT					
244,67	245,00	13,00	S	*222X245X13★	32
9.633	9.646	.512			
8.750" (8-3/4") SHAFT					
—	—	—	S	802200	VRS1
10.250	10.260	.688	S	*486642	48
10.250	10.260	.688	H	*486642H	48
10.500	10.510	.750	S	455966	45
10.750	10.758	.750	S	415128	41
10.750	10.758	.750	S	*455128	45
8.875" (8-7/8") SHAFT					
—	—	—	S	802200	VRS1
10.122	10.130	.750	S	416657	41
10.125	10.130	.750	S	*455930	45
10.875	10.885	.750	S	455129	45
9.000" SHAFT					
—	—	—	S	802200	VRS1
10.000	10.010	.750	S	55301S	45
10.000	10.010	.750	S	455301	45
10.088	10.095	.625	S	417940	41
10.250	10.260	.750	S	455476	45
10.375	10.384	.625	S	456462	45
10.376	10.384	.625	S	2791	33
10.500	10.510	.750	S	455462	45
11.000	11.008	.750	S	415090	41
11.000	11.008	.750	S	*455090	45
9.052" SHAFT					
—	—	—	S	802200	VRS1
10.709	10.720	.625	T	39893◀	FW-H
10.709	10.720	.625	T	39894▶	FW-H
230,00mm (9.055") SHAFT					
—	—	—	S	802200	VRS1
260,00	260,35	15,00	S	230X260X15★	35
10.236	10.250	.591			
9.086" SHAFT					
—	—	—	S	802200	VRS1
11.004	11.016	.371	S	*9843	#
9.125" (9-1/8") SHAFT					
—	—	—	S	802200	VRS1
10.377	10.384	.625	S	*415352	41
233,00mm (9.173") SHAFT					
—	—	—	S	802200	VRS1

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
233,00mm (9.173") SHAFT (cont.)					
272,00	272,26	15,88	V	*3689★	#
10.709	10.719	.625			
9.250" (9-1/4") SHAFT					
—	—	—	S	802200	VRS1
—	—	—	S	802500	VRS1
—	—	—	S	802502	VRS3
10.250	10.258	.500	N	337426N	33
11.000	11.008	.750	S	416257	41
11.000	11.008	.750	H	*416257H	41
11.250	11.260	.750	S	415219	41
11.250	11.260	.750	N	*415219N	41
11.500	11.508	.750	S	*416798	41
12.750	12.758	1.125	S	*8996S	70
9.375" (9-3/8") SHAFT					
—	—	—	S	802500	VRS1
—	—	—	S	802502	VRS3
11.273	11.273	.825	S	*3503%	#
11.375	11.385	.750	S	415871	41
11.375	11.385	.750	H	*415871H	41
11.375	11.385	.750	S	*455871	45
11.375	11.385	.750	N	*455871N	45
11.375	11.385	.750	V	*455871V	45
12.750	12.758	1.250	S	*417018	41
9.437" (9-7/16") SHAFT					
—	—	—	S	802500	VRS1
—	—	—	S	802502	VRS3
10.630	10.640	.750	S	*455596	45
10.630	10.640	.750	H	*455596H	45
240,00mm (9.449") SHAFT					
—	—	—	S	802500	VRS1
—	—	—	S	802502	VRS3
270,00	270,35	15,00	S	240X270X15★	35
10.630	10.644	.591			
270,00	270,35	16,00	S	*240X270X16★	35
10.630	10.644	.630			
279,67	280,00	18,00	S	*240X280X18★	32
11.011	11.024	.709			
279,67	280,00	20,00	S	*240X280X20★	32
11.011	11.024	.787			
280,00	280,20	16,00	S	240X280X16★	32
11.024	11.031	.630			
9.466" SHAFT					
—	—	—	S	802500	VRS1
—	—	—	S	802502	VRS3
10.875	10.891	.375	S	710800	230
9.477" SHAFT					
—	—	—	S	802500	VRS1
—	—	—	S	802502	VRS3
11.375	11.383	.750	S	*3502	45
9.500" (9-1/2") SHAFT					
—	—	—	S	802500	VRS1
—	—	—	S	802502	VRS3
11.500	11.508	.625	S	417606	41
11.500	11.508	.625	V	*417606V	41
11.500	11.510	.750	S	*417374	41
12.499	12.509	.687	S	9555S	41

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ▶ Hydrodynamic Lip Design-CW ◀ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Size Section

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
9.620" SHAFT						10.500" (10-1/2") SHAFT (cont.)					
-	-	-	S	802500	VRS1	12.500	12.508	1.234	S	*7564	39
-	-	-	S	802502	VRS3	13.375	13.383	.750	S	*417607	41
12.750	12.758	1.250	V	*416381V	41	13.375	13.383	1.250	S	*417116	41
9.625" (9-5/8") SHAFT						10.625" (10-5/8") SHAFT					
-	-	-	S	802500	VRS1	-	-	-	S	802750	VRS1
-	-	-	S	802502	VRS3	-	-	-	S	802752	VRS3
12.750	12.758	1.250	S	416381	41	12.500	12.508	.625	S	*417641	41
9.750" (9-3/4") SHAFT						13.000	13.008	.750	S	*416100	41
-	-	-	S	802500	VRS1	270,00mm (10.630") SHAFT					
-	-	-	S	802502	VRS3	-	-	-	S	802750	VRS1
11.250	11.260	.750	S	55078S	5S	-	-	-	S	802752	VRS3
250,00mm (9.843") SHAFT						12.000	12.812	.371	S	*9063	#
-	-	-	S	802500	VRS1	310,00	310,45	16,00	S	*270X310X16★	35
-	-	-	S	802502	VRS3	12.205	12.222	.630			
280,00	280,35	15,00	S	*250X280X15★	35	10.750" (10-3/4") SHAFT					
11.024	11.037	.591				-	-	-	S	802750	VRS1
289,67	290,00	15,00	S	*250X290X15★	32	-	-	-	S	802752	VRS3
11.404	11.417	.591				13.374	13.381	1.250	S	416383	41
9.910" SHAFT						10.820" SHAFT					
-	-	-	S	802500	VRS1	-	-	-	S	802750	VRS1
-	-	-	S	802502	VRS3	-	-	-	S	802752	VRS3
10.995	11.005	.625	S	417939	41	12.000	12.015	.590	S	*4766S	#
10.997	11.005	.625	S	2792	33	11.000" SHAFT					
10.997	11.005	.625	S	456464	45	-	-	-	S	802750	VRS1
10.000" SHAFT						-	-	-	S	802752	VRS3
-	-	-	S	802500	VRS1	12.500	12.510	.625	S	417571	41
-	-	-	S	802502	VRS3	12.500	12.514	1.250	S	*476262	47
11.000	11.008	.625	S	417605	41	12.500	12.514	1.250	N	*476262N	47
11.000	11.010	.750	S	*415270	41	13.000	13.010	.750	S	415482	41
11.000	11.010	.750	S	*455270	45	11.006" SHAFT					
11.000	11.010	.750	N	*455270N	45	-	-	-	S	802750	VRS1
11.000	11.010	.750	V	*455270V	45	-	-	-	S	802752	VRS3
11.250	11.260	.750	S	*456483	45	12.875	12.891	.625	S	710925	230
11.500	11.508	.750	V	457096V	45	280,00mm (11.024") SHAFT					
12.000	12.008	.625	S	417020	41	-	-	-	S	802750	VRS1
260,00mm (10.236") SHAFT						-	-	-	S	802752	VRS3
-	-	-	S	802500	VRS1	320,00	320,45	20,00	S	280X320X20★	32
-	-	-	S	802502	VRS3	12.598	12.616	.787			
289,67	290,00	15,00	S	*260X290X15★	32	11.220" SHAFT					
11.404	11.417	.591				-	-	-	S	802750	VRS1
300,00	300,45	20,00	S	*260X300X20★	32	-	-	-	S	802752	VRS3
11.811	11.829	.787				12.250	12.260	.945	T	39899◆	#
10.250" (10-1/4") SHAFT						12.250	12.260	.945	T	39900◆	#
-	-	-	S	802500	VRS1	285,00mm (11.220") SHAFT					
-	-	-	S	802502	VRS3	319,67	320,00	20,00	S	*285X320X20★	32
12.250	12.260	.750	S	417570	41	12.585	12.598	.787			
265,00mm (10.433") SHAFT						290,00mm (11.417") SHAFT					
289,67	290,00	16,00	S	*265X290X16★	32	329,67	330,00	18,00	S	*290X330X18★	32
11.404	11.417	.630				12.979	12.992	.709			
10.500" (10-1/2") SHAFT						11.500" (11-1/2") SHAFT					
-	-	-	S	802750	VRS1	-	-	-	S	803000	VRS1
-	-	-	S	802752	VRS3	-	-	-	S	803002	VRS3
12.000	12.008	.625	S	457997	45						
12.500	12.508	.625	S	*417756	41						
12.500	12.508	1.000	S	415227	41						
12.500	12.508	1.000	V	*415227V	41						

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ◆ Hydrodynamic Lip Design-CW ◆ Hydrodynamic Lip Design-CCW

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian). ★ Metric Seal

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.	Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
11.500" (11-1/2") SHAFT (cont.)						16.250" SHAFT (cont.)					
12.495	12.535	.250	S	*7387	#	18.000	18.010	.750	S	*4273	#
13.000	13.010	.750	S	415077	41	18.000	18.010	.750	S	55103S	45
13.500	13.508	.750	S	415076	41						
13.500	13.508	.750	V	*415076V	41						
11.586" SHAFT											
-	-	-	S	803000	VRS1						
-	-	-	S	803002	VRS3						
13.687	13.703	.562	S	711000	230						
300,00mm (11.811") SHAFT											
-	-	-	S	803000	VRS1						
-	-	-	S	803002	VRS3						
340,00	340,45	20,00	S	300X340X20★	32						
13.386	13.404	.787									
12.000" SHAFT											
-	-	-	S	803000	VRS1						
-	-	-	S	803002	VRS3						
13.500	13.508	.750	S	*457704	45						
14.000	14.010	.750	S	417608	41						
14.000	14.010	1.000	S	*7972S	45						
320,00mm (12.598") SHAFT											
-	-	-	V	803254	VRS1						
360,00	360,45	20,00	S	*320X360X20★	32						
14.173	14.191	.787									
12.750" (12-3/4") SHAFT											
-	-	-	V	803254	VRS1						
13.625	13.635	.562	S	*325940	32						
13.000" SHAFT											
-	-	-	V	803254	VRS1						
15.000	15.008	.750	S	*415648	41						
340,00mm (13.386") SHAFT											
-	-	-	S	803502	VRS3						
380,00	380,45	20,00	S	*340X380X20★	32						
14.961	14.978	.787									
13.797" SHAFT											
-	-	-	S	803502	VRS3						
15.500	15.516	.437	S	711200	230						
360,00mm (14.173") SHAFT											
-	-	-	S	803502	VRS3						
400,00	400,45	20,00	S	*360X400X20★	32						
15.748	15.766	.787									
380,00mm (14.961") SHAFT											
-	-	-	S	803750	VRS1						
420,00	420,45	20,00	S	*380X420X20★	32						
16.535	16.553	.787									
400,00mm (15.748") SHAFT											
-	-	-	S	804000	VRS1						
440,00	440,45	20,00	S	*400X440X20★	32						
17.323	17.341	.787									
16.250" SHAFT											
-	-	-	S	804000	VRS1						

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

PLAIN ROUND FELTS

Shaft	O.D.	Width	Lip Mat'l	Part No.	Shaft	O.D.	Width	Lip Mat'l	Part No.
.938	1.500	.375	F	5MR1300	2.500	3.438	.313	F	5M89
1.750	2.438	.313	F	5M445	2.813	3.563	.313	F	5M559
1.938	2.875	.375	F	5M81	2.937	3.812	.313	F	5MR1009
1.938	3.000	.375	F	5M293	3.250	4.063	.313	F	5M643
2.000	2.750	.438	F	5M289	3.344	3.875	.281	F	5MR1301
2.000	3.125	.375	F	5M356	4.875	5.625	.375	F	5M544
2.000	3.125	.500	F	5M403	6.438	7.563	.500	F	5M466

For Illustration and Material Data see Technical Section

SIZE SECTION

SEAL KITS

Kit Dimensions				Seal Dimensions							Remarks	
Shaft	O.D.	Width	Bolt Holes Kit No.	Type/ Illus.	Seal No.	Type/ Lip Illus.	Mat'l	Shaft	O.D.	Bolt Holes		Width
-	-	-	-	#	-	-	-	-	-	-	-	(Split Seal)
-	-	-	-	#	-	-	-	-	-	-	-	Contains (2) G753 Gasket
-	-	-	-	#	-	-	-	-	-	-	-	Split Seal
-	-	-	-	#	-	-	-	-	-	-	-	(Split Seal)
-	-	-	-	#	-	-	-	-	-	-	-	(Split Seal)
-	-	-	-	#	-	-	-	-	-	-	-	(Split Seal)
-	-	-	-	#	-	-	-	-	-	-	-	(Split Seal)
-	-	-	-	35	-	-	-	-	-	-	-	(Kit)
-	-	-	-	35	-	-	-	-	-	-	-	(Repair Kit)
-	-	-	-	*	-	-	-	-	-	-	-	(Kit)
-	-	-	-	35	• 1884	32 S	-	2.047	2.688	-	.394	(Kit)
-	-	-	-	35	• 4899	66 S	-	2.205	2.958	-	.256	(Kit)
-	-	-	-	35	722111	-	-	-	-	-	-	(Kit)
-	3.030	.325	-	#	-	-	-	-	-	-	-	(Split Seal)
-	4.000	.187	-	#	-	-	-	-	-	-	-	(Split Seal)
-	4.200	.222	-	#	-	-	-	-	-	-	-	(Split Seal)
-	4.862	.410	-	#	-	-	-	-	-	-	-	Contains (2) • G196 Gasket & (2) • G214 Gasket
-	4.875	.410	-	#	-	-	-	-	-	-	-	Contains (2) • G196 Gasket & (2) • G456 Gasket
-	4.875	.455	-	#	-	-	-	-	-	-	-	Contains (2) • G211 Gasket
-	5.625	.430	-	#	-	-	-	-	-	-	-	Contains (2) • G129 Gasket & • G130 Gasket & • G131 Gasket
-	5.700	.415	-	#	-	-	-	-	-	-	-	Contains (2) • G427 Gasket
-	5.700	.415	-	#	-	-	-	-	-	-	-	Contains (2) • G462 Gasket & (2) • G463 Gasket
-	6.240	.400	-	#	-	-	-	-	-	-	-	Contains (2) • G214 Gasket & (2) • G594 Gasket
-	6.600	.430	-	#	-	-	-	-	-	-	-	Contains (2) • G137 Gasket
1.062	1.507	.250	-	34	• 340210	34 S	-	1.062	1.507	-	.250	Contains (2) • 666215 'O' Ring & • 666232 'O' Ring & • 666334 'O' Ring
1.062	2.129	.625	-	41	• 413293	41 S	-	1.187	2.129	-	.375	Contains • JV1872 Wear Sleeve
1.172	1.832	.422	-	33	• 6370N	33 N	-	1.299	1.832	-	.375	Contains • J712 Wear Sleeve
1.250	1.756	-	-	A	SR2	-	-	-	-	-	-	(Kit)
-	-	-	-	(2)	SW2	-	-	-	-	-	-	-
-	-	-	-	32	5683++	32 S	-	1.250	1.756	-	.300	-
-	-	-	-	32	5684++	32 S	-	1.250	1.756	-	.399	-
1.250	2.254	.750	-	41	• 410169	41 S	-	1.375	2.254	-	.500	Contains • JV1873 Wear Sleeve
1.376	2.254	1.370	-	#	• 7495S	61 S	-	1.375	2.254	-	.713	Contains • RP 691 Bushing (Seal & Bushing Kit)
1.438	2.192	.480	-	47	• 9249	47 S	-	1.437	2.192	-	.480	Contains • 623017 'O' Ring
1.493	2.507	.700	-	39	• 8097%	39 S	-	1.476	2.447	-	.620	Contains • JV970 Wear Sleeve
1.500	2.378	1.500	-	41	• 470059	47 S	-	1.500	2.378	-	.500	Contains • RP 605 Bushing (Seal & Bushing Kit)

Designed For A Specific Application - Not Recommended For General Use ++ Not Sold Separately % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

• Sold Separately

Kit Dimensions					Seal Dimensions							Remarks	
Shaft	O.D.	Width	Bolt Holes	Kit No.	Type/ Illus.	Seal No.	Type/ Illus.	Lip Mat'l	Shaft	O.D.	Bolt Holes		Width
1.500	2.378	1.500	—	5202	#	•7692S◄	79	S	1.500	2.376	—	1.458	Contains• RP 605 Bushing (Seal & Bushing Kit)
1.500	2.570	.550	—	5071	200	•200861%	200E	S	1.500	2.482	—	.290	Contains• JV933 Wear Sleeve
1.502	2.381	.940	—	5200	#	•9613S◄	71	S	1.500	2.381	—	.470	Contains• RP 356 Bushing (Seal & Bushing Kit)
1.562	2.506	.500	—	5331	45	•450185	45	S	1.562	2.506	—	.500	Contains• G199 Gasket
1.566	2.515	1.370	—	5207	#	•8935S&	79	S	1.558	2.254	—	1.520	Contains• RP 553 Bushing (Seal & Bushing Kit)
1.688	2.687	1.240	—	5205	41	•7038SA◄	41	S	1.687	2.506	—	.582	Contains RP 717 Bushing (Seal & Bushing Kit)
1.688	2.850	2.120	—	5206	#	•7300S◄	79	N	1.685	2.506	—	1.250	Contains• RP 546 Bushing (Seal & Bushing Kit)
1.689	2.850	2.120	—	5203	#	•7300S◄	79	N	1.685	2.506	—	1.250	Contains• RP 661 Bushing (Seal & Bushing Kit)
1.750	3.376	.667	—	5302	39	•8398	39	S	1.937	3.376	—	.667	Contains• K259 Wiper
1.763	2.416	.563	—	5000	35	—	—	—	—	—	—	—	—
1.766	3.005	.875	—	5364	45	•451139	45	S	1.875	3.005	—	.375	Contains• JX825 Wear Sleeve
1.812	2.879	.718	—	5531	41	•410295	41	S	1.937	2.879	—	.468	Contains• JV1464 Wear Sleeve
1.875	2.565	.563	—	5001	35	—	—	—	—	—	—	—	—
1.875	2.627	.843	—	5599	47	•470455	47	S	1.937	2.627	—	.500	Contains• J990 Wear Sleeve
1.875	2.690	.625	—	5388	45	450360	45	S	2.000	2.690	—	.500	Contains• J1107 Wear Sleeve
1.875	2.762	.500	—	5336	41	•410283	41	S	1.875	2.762	—	.500	Contains• G736 Gasket
1.875	2.808	.433	—	5699	#	4310	285	S	1.875	2.808	—	.433	Contains• AS232 'O' Ring
1.875	3.130	.625	—	5361	45	•450310N	45	N	2.000	3.130	—	.500	Contains• J1107 Wear Sleeve
1.875	3.150	.315	—	5697	#	4051	#	S	1.875	2.907	—	.315	Contains• AS232 'O' Ring
1.875	4.812	.312	12	5594	#	•7105S	#	S	1.875	4.812	12	.312	Contains (2) • G196 Gasket & (2) • G456 Gasket
1.880	2.414	.250	—	5458	35	•6910S	35	S	1.880	2.414	—	.250	Contains• 610101 'O' Ring
1.887	1.998	1.000	—	5208	#	•9449◄	74	S	1.890	2.704	—	.582	Contains RP775 Bushing (Seal & Bushing Kit)
1.915	2.548	.250	—	5499	#	•7020	#	S	1.915	2.548	—	.250	Contains• 610105 'O' Ring
1.915	2.548	.250	—	5573	#	•7020	#	S	1.915	2.548	—	.250	Contains• 610145 'O' Ring
2.000	3.376	.625	—	5161	41	•410972	41	S	2.125	3.376	—	.468	Contains• J1109 Wear Sleeve &• JV1837 Wear Sleeve
2.000	3.376	.625	—	5188	41	•410972N	41	N	2.125	3.376	—	.468	Contains• J1109 Wear Sleeve &• JV1837 Wear Sleeve
2.000	4.562	.562	7	5329	#	6465B++	#	F	2.000	4.562	7	.562	Contains (2) G33 Gasket
2.000	4.562	.562	7	5330	#	•6469	#	F	2.000	4.562	7	.562	Contains (2) • G34 Gasket
2.000	5.880	.448	8	5487	#	—	—	—	—	—	—	—	Contains (2) • G221 Gasket &• K251 Wiper
2.000	5.880	.458	8	*5172	50	•6959	#	S	2.375	5.880	8	.331	Contains• K251 Wiper &• G895A Gasket
2.010	2.965	.318	—	5695	#	•SK1++	#	S	2.030	2.601	—	.295	Contains• SK3 Wear Sleeve (Kit)
						•SK2++	#	S	2.010	2.876	—	.318	—
2.047	2.964	.315	—	5696	35	•1993	47	S	2.205	2.885	—	.492	(Kit)
						•4898	66	S	2.047	2.603	—	.295	—
						722110	—	—	—	—	—	—	—
2.120	3.505	.750	—	5521	41	•415093	41	S	2.250	3.505	—	.500	Contains• JV1456 Wear Sleeve
2.121	3.350	.500	—	5397	#	•9434%	46	S	2.121	3.296	—	.460	—
						•482435	48	S	2.172	3.350	—	.500	—
2.125	3.072	.433	—	5604	A	•3948	#	S	2.201	2.741	—	.197	Contains• JV2019 Wear Sleeve
2.129	2.766	.250	—	5488	48	•6957	48	N	2.129	2.766	—	.250	Contains• 610123 'O' Ring
2.129	2.766	.250	—	5589	48	•6957	48	N	2.129	2.766	—	.250	Contains• 666151 'O' Ring
2.187	3.194	.437	—	5332	45	450354	45	S	2.187	3.194	—	.437	Contains• G25 Gasket
2.250	3.256	.625	—	5160	41	•412038	41	S	2.375	3.256	—	.437	Contains• J1113 Wear Sleeve &• JV1836 Wear Sleeve
2.250	3.256	.625	—	5189	41	•412038N	41	N	2.375	3.256	—	.437	Contains• J1113 Wear Sleeve &• JV1836 Wear Sleeve
2.340	3.355	.650	—	5666	#	•3501V	69	V	2.420	3.355	—	.375	Contains• JX1966 Wear Sleeve
2.375	3.433	1.000	—	5602	47	•473274N	47	N	2.500	3.433	—	.375	Contains• JV1802 Wear Sleeve
2.375	4.943	1.000	—	5603	47	•3136N◄↔	47	N	2.500	4.943	—	.500	Contains• JV1802 Wear Sleeve
2.377	3.505	.937	—	5066	48	•3894V	48	V	2.500	3.505	—	.500	Contains• JX1920 Wear Sleeve Seal & Sleeve
2.420	3.558	.336	—	5698	#	4185	#	S	2.420	3.558	—	.336	Contains• AS043 'O' Ring
2.430	3.031	.380	—	5567	#	—	—	—	—	—	—	—	—
2.432	3.756	.750	—	*5520	41	•415244	41	S	2.562	3.756	—	.500	Contains• JV1455 Wear Sleeve
2.496	3.758	.625	—	5045	200	•200851%	200E	S	2.496	3.772	—	.315	Contains• JV1582 Wear Sleeve
2.500	6.125	.435	8	5401	50	•7512S	51	S	2.500	6.125	8	.400	Contains (2) • G41 Gasket &• G43 Gasket &• JV1304 Wear Sleeve
2.531	6.125	.500	—	5384	#	•7154S	#	S	2.531	6.125	—	.500	Contains• G41 Gasket
2.562	8.250	1.003	8	5406	51	•6481N	—	—	—	—	—	—	Contains• G40 Gasket &• K282 Wiper
2.625	3.480	.380	—	5072	#	—	—	—	—	—	—	—	—
2.625	3.755	.625	—	5147	200	•200919%	200E	S	2.625	3.960	—	.320	Contains• JV1517 Wear Sleeve
2.750	3.881	1.000	—	5584	41	•415479N	41	N	3.000	3.881	—	.468	Contains• K198 Wiper
2.812	4.504	1.000	—	5399	41	•415356	41	S	2.937	4.504	—	.468	Contains• JV1427 Wear Sleeve
2.835	3.425	.230	—	5163	#	—	—	—	—	—	—	—	—

Designed For A Specific Application - Not Recommended For General Use ◄ Hydrodynamic Lip Design-CW ↔ Hydrodynamic Lip Design-Bidirectional

++ Not Sold Separately % External Bore & Flanged O.D.

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

• Sold Separately

Size Section—Kits

Kit Dimensions					Seal Dimensions							Remarks	
Shaft	O.D.	Width	Bolt Holes	Kit No.	Type/ Illus.	Seal No.	Type/ Lip Illus.	Mat'l	Shaft	O.D.	Bolt Holes		Width
2.860	6.562	.571	12	5403	50	•6479	# S		2.860	6.460	12	.520	Contains• J493 Wear Sleeve
2.875	3.756	.625	—	5601	47	•476023N	47 N		3.000	3.756	—	.375	Contains• JV1120 Wear Sleeve
2.988	3.740	1.165	—	5290	#	—	—		—	—	—	—	
2.991	3.637	.385	—	5273	FW-H	•100202T	FW-H T		2.991	3.637	—	.385	(Teflon®)
3.000	4.008	.625	—	5629	45	•457034	45 V		3.125	4.008	—	.500	Contains• J1121 Wear Sleeve
3.000	4.008	.687	—	5657	45	•457034	45 V		3.125	4.008	—	.500	Contains• JX1747 Wear Sleeve
3.000	8.250	.531	15	5452	50	6764S	# S		3.125	8.250	15	.500	Contains• G48 Gasket &• G167 Gasket &• J495 Wear Sleeve
3.010	8.150	.925	8	5494	#	•6897	# S		3.125	8.250	8	.925	Contains (2) • G40 Gasket &• K156 Wiper
3.010	8.250	.571	10	5015	#	•8369S	# S		3.125	—	—	.571	Contains• G48 Gasket &• JV495 Wear Sleeve & (2) • G523 Gasket
3.010	8.250	.571	10	5313	#	•8369S	# S		3.125	—	—	.571	Contains• K282 Wiper & (2) • G523 Gasket
3.110	5.750	.375	8	5079	51	•7896S	51 S		3.110	5.750	8	.375	
3.112	4.633	.920	—	5100	#	•9583	# S		3.250	4.633	—	.706	Contains• JV1508 Wear Sleeve
3.119	4.130	.750	—	5509	25	•255566H	25 H		3.250	4.130	—	.500	Contains• J1401 Wear Sleeve
3.119	4.756	.875	—	5518	41	—	—		—	—	—	—	
3.124	8.250	.518	8	5408	50	•6477S	# S		3.226	8.250	8	.518	Contains (2) • G40 Gasket &• G42 Gasket &• J873 Wear Sleeve
3.125	4.130	.625	—	5120	41	•415566N	41 N		3.250	4.130	—	.562	Contains• J1122 Wear Sleeve
3.125	4.130	1.000	—	5578	48	•485500N	48 N		3.298	4.130	—	.562	Contains• K179 Wiper
3.125	7.500	.625	12	5405	50	•6480	# S		3.125	7.500	12	.531	Contains• G49 Gasket &• K282 Wiper
3.125	8.125	.571	7	5410	50	•6505S	# S		3.125	8.125	7	.571	Contains• G48 Gasket & (2) • G54 Gasket &• JV495 Wear Sleeve
3.125	8.250	.571	8	5185	51	—	—		—	—	—	—	
3.250	4.008	.866	—	5609	5S	—	—		—	—	—	—	
3.250	4.254	.625	—	5373	A	•416294N	41 N		3.375	4.254	—	.500	Contains• J1123 Wear Sleeve
3.250	4.254	.625	—	5382	41	•415613	41 S		3.375	4.254	—	.625	Contains• J1123 Wear Sleeve
3.250	4.254	.750	—	5169	47	•476028	47 S		3.375	4.254	—	.468	Contains• JV1875 Wear Sleeve
3.250	4.572	.750	—	5593	200	•200870%	200E S		3.249	4.488	—	.318	Contains• JV980 Wear Sleeve
3.250	5.004	.625	—	5381	41	•415025	41 S		3.375	5.004	—	.468	Contains• J1123 Wear Sleeve
3.375	4.380	.812	—	5588	39	•8130%	# S		3.375	4.380	—	.730	Contains• JV976 Wear Sleeve
3.438	4.012	.410	—	5095	#	—	—		—	—	—	—	(Rope Type)
3.438	4.313	.188	—	5117	#	—	—		—	—	—	—	(Split Seal)
3.465	4.266	.437	—	5287	FW-H	•100239T	FW-H T		3.465	4.266	—	.437	Contains 732079 Gasket &• 733419 Gasket & 734280 Gasket (Teflon®)
3.500	5.256	.718	—	5551	41	•416335	41 S		3.625	5.256	—	.468	Contains• JV1494 Wear Sleeve
3.500	6.625	.531	—	5327	#	•6245S	# S		3.500	6.625	12	.531	Contains (2) • G35 Gasket
3.562	4.630	.700	—	5347	#	•8480	# S		3.557	4.530	—	.320	Contains• JV1170 Wear Sleeve
3.562	5.125	.875	—	5649	#	•9584&	74 S		3.562	4.761	—	.550	Contains• JV1509 Wear Sleeve
3.562	5.256	.468	—	5532	41	•416670	41 S		3.687	5.256	—	.468	Contains• JV1469 Wear Sleeve
3.583	4.375	.394	—	5279	FW-H	•100052T	FW-H T		3.583	4.375	—	.394	Contains 731414 Gasket (Teflon®)
3.625	4.256	.390	—	5277	FW-H	•100204T	FW-H T		3.625	4.256	—	.390	(Teflon®)
3.625	4.756	.875	—	5167	47	•475379	47 S		3.750	4.756	—	.500	Contains• JV1874 Wear Sleeve
3.625	4.879	.585	—	5453	48	•485497	48 S		3.625	4.879	—	.585	Contains• G33013 'O' Ring Kit
3.740	4.540	.492	—	5274	FW-H	•100203T	FW-H T		3.740	4.540	—	.492	Contains 733215 Gasket (Teflon®)
3.750	4.506	.362	—	5278	FW-H	•100205T	FW-H T		3.750	4.506	—	.362	(Teflon®)
3.750	4.756	.625	—	5084	#	—	—		—	—	—	—	
3.865	6.102	.975	—	5667	#	•4269	74 S		4.000	5.700	—	.850	Contains• J2058 Wear Sleeve
3.868	5.506	.921	—	5475	25	•6864S	45 S		4.050	5.506	—	.671	Contains• J718 Wear Sleeve
3.930	5.381	.875	—	5028	#	•9586	# S		4.062	5.378	—	.627	Contains• JV1511A Wear Sleeve
3.937	5.506	.859	—	5465	45	•455037	45 S		4.062	5.506	—	.562	Contains• JV1362 Wear Sleeve
3.937	5.506	.859	—	5563	25	•6864S	45 S		4.050	5.506	—	.671	Contains• JV1362 Wear Sleeve
3.937	5.509	.597	—	5089	#	•2155	# S		4.062	5.509	—	.597	Contains• JV1511 Wear Sleeve
3.937	5.678	.875	—	5076	#	•9586	# S		4.062	5.378	—	.627	Contains• JV1511 Wear Sleeve
3.994	5.004	.718	—	5526	41	•415134	41 S		4.125	5.004	—	.468	Contains• JV1461 Wear Sleeve
3.994	5.005	.625	—	5065	45	•455134H	45 H		4.125	5.005	—	.468	Contains• J1129 Wear Sleeve
4.000	5.004	.625	—	5376	41	•415134N	41 N		4.125	5.004	—	.468	Contains• J1129 Wear Sleeve
4.000	5.004	.937	—	5581	#	•7390%	# S		4.000	4.906	—	.821	Contains• JV943 Wear Sleeve
4.062	5.506	.875	—	5170	41	•415039	41 S		4.187	5.506	—	.562	Contains• JV1473 Wear Sleeve
4.062	6.000	.875	—	5537	41	•416673	41 S		4.187	6.007	—	.625	Contains• JV1473 Wear Sleeve
4.375	6.259	.843	—	5077	#	•9587&	# S		4.500	6.257	—	.820	Contains• JV1512 Wear Sleeve
4.500	6.259	.862	—	5075	#	•9588&	# S		4.625	6.257	—	.550	Contains• JV1513 Wear Sleeve
4.642	5.756	.750	—	5008	45	455053	45 S		4.750	5.757	—	.562	Contains• JX847 Wear Sleeve
4.646	5.756	.625	—	5625	48	•485138	48 S		4.750	5.756	—	.500	Contains• JX1386 Wear Sleeve
4.687	5.756	1.562	—	5460	45	•455251H	45 H		4.812	5.756	—	.562	Contains• JV729 Wear Sleeve
4.687	5.756	1.562	—	5461	7S	•75251S	7S S		4.812	5.756	—	.750	Contains• J729 Wear Sleeve
4.687	7.635	.359	—	5575	#	•6701	# S		4.740	7.575	6	.410	Contains JV608 Wear Sleeve
4.743	6.256	.812	—	5527	41	415068	41 S		4.875	6.256	—	.562	Contains• JV1462 Wear Sleeve
4.750	6.006	.750	—	5010	47	•476621H	47 H		4.875	6.006	—	.562	Contains• J1135 Wear Sleeve
4.750	6.256	.750	—	5377	A	•415068N	41 N		4.875	6.256	—	.562	Contains• J1135 Wear Sleeve
4.759	6.316	1.250	—	5481	47	•6872S	47 S		5.500	6.316	—	1.250	Contains• JV753 Wear Sleeve
4.759	6.505	1.125	—	5483	43	•6873S	43 S		5.500	6.505	—	1.125	Contains• JV753 Wear Sleeve
4.759	7.004	1.250	—	5495	43	•7006S	43 S		5.500	7.004	—	1.250	Contains• JV753 Wear Sleeve
4.812	6.316	1.250	—	5471	47	•6872S	47 S		5.500	6.316	—	1.250	Contains• JV701 Wear Sleeve

SIZE SECTION

Designed For A Specific Application - Not Recommended For General Use ◀ Hydrodynamic Lip Design-CCW ▶ Hydrodynamic Lip Design-Bidirectional % External Bore & Flanged O.D. * The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).
• Sold Separately

Kit Dimensions					Seal Dimensions							Remarks	
Shaft	O.D.	Width	Bolt Holes	Kit No.	Type/ Illus.	Seal No.	Type/ Lip	Mat'l	Shaft	O.D.	Bolt Holes		Width
4.812	6.505	1.125	—	5473	43	•6873S	43	S	5.500	6.505	—	1.125	Contains• JV701 Wear Sleeve
4.812	7.004	1.250	—	5472	43	•7006S	43	S	5.500	7.004	—	1.250	Contains• JV701 Wear Sleeve
4.834	5.756	.710	—	5033	#	•3492	48	T	5.000	5.756	—	.500	Contains• JX2162 Wear Sleeve
4.841	5.756	.750	—	5665	#	•3492V	48	V	5.000	5.756	—	.500	Contains JX1967 Wear Sleeve
4.875	6.006	.715	—	5643	#	•3782	#	H	5.000	6.006	—	.500	Contains• J1606 Wear Sleeve
4.993	6.131	.750	—	5229	41	•416172	41	S	5.125	6.131	—	.562	Contains• J1137 Wear Sleeve
5.000	6.006	.717	—	5722	94	•947090◄	94	T	5.125	6.006	—	.413	Contains• JL2370 Wear Sleeve
5.000	6.131	.875	—	5199	7H	•8971H	7S	H	5.125	6.131	—	.750	Contains• JX1831 Wear Sleeve
5.000	6.131	.875	—	5624	45	•456557	45	V	5.125	6.131	—	.500	Contains• JX1831 Wear Sleeve
5.179	6.513	1.380	—	5424	32	•327984◄	32	T	5.312	6.513	—	.500	Contains• JF2280 Wear Sleeve
5.180	6.507	.750	—	*5082	45	•456986H	45	H	5.312	6.507	—	.625	Contains• J2037 Wear Sleeve
5.187	6.513	1.380	—	5422	32	•327984◄	32	T	5.312	6.513	—	.500	Contains• JF2280 Wear Sleeve
5.500	6.631	.875	—	5146	41	•415487	41	S	5.625	6.631	—	.625	Contains• JV1463 Wear Sleeve
5.625	6.632	1.000	—	5383	45	455447	45	S	5.750	6.632	—	.625	Contains• J1355 Wear Sleeve
5.875	7.008	.875	—	5228	45	•456055V	45	V	6.000	7.008	—	.625	Contains• JX1002 Wear Sleeve
5.991	6.757	.500	—	5039	#	•4165V◄	#	V	6.107	6.757	—	.500	Contains• JV2088 Wear Sleeve
5.998	6.757	.675	—	5645	#	•4165V◄	#	V	6.107	6.757	—	.500	Contains• J2051 Wear Sleeve
6.000	6.757	.750	—	5026	33	•336665H	33	H	6.125	6.757	—	.375	Contains• J1141 Wear Sleeve
6.079	7.336	.600	—	5637	#	•2628	64	H	6.204	7.336	—	.562	Contains• J1895 Wear Sleeve
6.079	7.336	.750	—	5613	#	•2628	64	H	6.204	7.336	—	.562	Contains• K458 Wiper &• J1842 Wear Sleeve
6.204	7.336	.812	—	*5634	#	•3807	64	H	6.328	7.336	—	.500	Contains• J1825 Wear Sleeve
6.500	8.007	.750	—	5436	91	914412◄	91	T	6.625	8.007	—	.750	Contains JG2361 Wear Sleeve
6.500	8.007	.750	—	5441	91	914411◄	91	T	6.625	8.007	—	.750	Contains JL2361 Wear Sleeve
6.500	8.007	1.000	—	5443	91	914413►	91	T	6.625	8.007	—	1.000	Contains JG2345 Wear Sleeve
6.875	8.382	.750	—	5538	41	•416674	41	S	7.000	8.382	—	.750	Contains• JV1474 Wear Sleeve
6.875	8.633	.825	—	5164	#	•3123	#	S	6.956	8.633	—	.750	
						•3124%	46	S	6.875	8.543	—	.825	
7.369	9.010	.875	—	5276	41	•415551	41	S	7.500	9.010	—	.750	Contains• JV1190 Wear Sleeve
7.908	9.508	.960	—	5615	#	•3624	#	S	8.000	9.508	—	.860	
						•3776S	#	S	7.908	9.535	—	.960	
9.057	10.719	1.000	—	5632	#	•3689	#	V	9.173	10.719	—	.625	Contains• J1984 Wear Sleeve
9.265	11.385	.990	—	5175	45	•455871V	45	V	9.375	11.385	—	.750	Contains• JV829 Wear Sleeve
9.375	11.383	.825	—	5227	#	•3502	45	S	9.477	11.383	—	.750	
						•3503%	#	S	9.375	11.273	—	.825	

Designed For A Specific Application - Not Recommended For General Use ► Hydrodynamic Lip Design-CW ◄ Hydrodynamic Lip Design-CCW % External Bore

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

• Sold Separately

Size Section—Wear Sleeves

Shaft	I.D.	Eff. Shaft Dia.	Flanged O.D.	Width	Type Illus.	Part No.	Shaft	I.D.	Eff. Shaft Dia.	Flanged O.D.	Width	Type Illus.	Part No.
-	-	2.515	2.855	.510	#	JV1931	-	2.250	2.404	3.073	.770	#	J1064
5.000	-	5.125	-	.717	19	JL2370	2.288	2.284	2.386	-	.453	15	JV1018
.750	.745	.875	-	.500	19	J1594	2.289	2.284	2.386	-	.453	15	J756
.750	.745	.875	-	.500	19	JV1594	2.312	2.307	2.437	-	.625	19	J1114
.875	.869	.999	-	.562	19	J1267	2.312	2.307	2.437	-	.625	19	JV1114
.875	.869	.999	-	.562	19	JV1267	2.375	2.370	2.500	-	.625	19	J1115
1.041	1.036	1.125	-	.625	19	J1246	2.375	2.370	2.500	-	.625	19	JV1115
1.041	1.036	1.125	-	.625	19	JV1246	2.375	2.370	2.500	-	1.000	19	JV1802
1.062	1.057	1.187	1.437	.640	10	JV1872	2.375	2.370	2.500	-	1.000	19	JX1990
1.125	1.120	1.250	-	.500	19	J1158	2.382	2.377	2.491	-	.937	19	JX1920
1.125	1.120	1.250	-	.500	19	JX1158	2.412	2.400	2.518	-	.435	15	JV1304
1.125	1.120	1.250	-	.625	19	J1432	2.423	2.418	-	2.680	.488	#	J1043
1.125	1.120	1.250	-	.625	19	JV1432	2.437	2.432	2.562	2.750	.750	10	JV1455
1.177	1.172	1.300	-	.422	19	J712	-	2.437	2.570	-	.550	1	JV933
1.250	1.245	1.375	1.562	.750	10	JV1873	2.458	2.453	2.507	-	.700	1	JV970
1.251	1.246	1.375	-	.500	19	JV1252	2.475	2.470	2.625	-	1.125	19	J1876
1.251	1.246	1.375	-	.500	19	JX1252	2.500	2.495	2.625	-	.625	19	J1117
1.343	1.338	1.500	-	.625	19	JV1409	2.500	2.495	2.625	-	.625	19	JV1117
1.365	1.360	1.496	-	.625	19	JV1410	2.500	2.495	2.625	-	.625	19	JX1117
1.375	1.370	1.500	-	.625	19	JV1277	2.500	2.495	2.625	-	.875	19	J1288
1.468	1.463	1.625	-	.625	19	J1493	2.502	2.498	2.627	-	1.000	19	J1780
1.468	1.463	1.625	-	.625	19	JV1493	2.536	2.531	3.128	-	.625	#	J790
1.500	1.495	1.625	-	.415	19	J1807	2.536	2.531	3.128	-	.625	#	JV790
1.500	1.495	1.625	-	.625	19	J1101	2.641	2.562	2.755	-	.690	1	J1086
1.500	1.495	1.625	-	.625	19	JV1101	2.567	2.562	3.115	-	.625	#	JV1161
1.562	1.557	1.687	-	.625	19	J1102	2.625	2.620	2.750	-	.625	19	J1118
1.562	1.557	1.687	-	.625	19	JV1102	2.625	2.620	2.750	-	.625	19	JV1118
1.625	1.620	1.750	-	.535	19	JX1505	2.636	2.630	2.722	-	.500	1	JV1373
1.625	1.620	1.750	-	.625	19	J1103	2.698	2.690	2.774	-	.953	#	JV1216
1.625	1.620	1.750	-	.625	19	JV1103	2.728	2.722	2.806	-	.590	1	JV1215
1.625	1.620	1.750	-	.750	19	J1397	2.750	2.745	2.875	-	.625	19	J1119
1.625	1.620	1.755	-	.625	19	JV1500	2.750	2.745	2.875	-	.625	19	JV1119
1.646	1.641	1.745	-	.625	19	J983	2.750	2.745	2.875	-	.625	19	J1515
1.731	1.726	1.812	3.000	1.000	#	J1211	2.750	2.745	2.875	-	.750	19	JX1576
1.737	1.732	-	3.100	.203	10	J121	2.750	2.745	2.875	-	.875	19	J1289
1.750	1.745	1.875	-	.625	19	J1105	2.763	2.758	2.860	-	.435	15	J493
1.750	1.745	1.875	-	.625	19	JV1105	-	2.799	2.911	3.125	.640	#	JV1673
1.750	1.745	1.875	-	.625	19	JX1105	2.809	2.804	2.894	3.250	.500	8	JV1076
1.766	1.761	1.871	-	.875	19	J825	2.812	2.807	2.937	3.156	1.000	10	JV1427
1.766	1.761	1.871	-	.875	19	JV825	2.812	2.807	2.943	3.156	1.000	10	J1427
1.766	1.761	1.871	-	.875	19	JX825	2.875	2.870	3.000	-	.625	19	J1120
1.843	1.781	1.937	2.521	.782	8	J1049	2.875	2.870	3.000	-	.625	19	JV1120
1.812	1.807	1.937	-	.625	19	J1106	2.875	2.870	3.000	-	.625	19	JX1120
1.812	1.807	1.937	-	.625	19	JV1106	2.890	2.885	3.000	-	1.000	19	J1173
1.812	1.807	1.937	2.125	.718	10	JV1464	2.890	2.885	3.000	-	1.000	19	JV1173
1.852	1.847	1.947	-	.647	19	J1094	2.906	2.900	3.000	3.125	.562	#	* JV1099
1.875	1.870	2.000	-	.562	19	J1063	2.906	2.900	3.000	3.125	.562	#	JV1371
1.875	1.870	2.000	-	.625	19	J1107	2.896	2.965	-	-	.245	#	SK3++
1.875	1.870	2.000	-	.625	19	JV1107	3.000	2.994	3.125	-	.625	19	J1121
1.875	1.870	2.000	-	.625	19	JV1403	3.000	2.994	3.125	-	.625	19	JV1121
1.876	1.871	1.933	-	.843	19	J990	3.000	2.994	3.125	-	.687	19	JX1747
1.980	1.975	2.111	-	.625	19	JV1837	3.000	2.995	3.125	-	1.250	#	J1044
2.000	1.995	2.125	-	.625	19	J1109	3.010	3.005	3.115	-	.435	15	JV495
2.000	1.995	2.125	-	.625	19	JV1109	3.035	3.030	3.125	3.750	1.070	8	J1191
2.000	1.995	2.125	-	.750	19	J1396	3.125	3.118	3.261	3.562	.920	10	JV1508
2.062	2.057	2.187	-	.625	19	J1110	3.125	3.119	3.225	-	.625	19	J1082
2.062	2.057	2.187	-	.625	19	JV1110	3.125	3.119	3.250	-	.625	19	J1122
2.075	2.070	2.125	2.375	.448	10	J1235	3.125	3.119	3.250	-	.625	19	JV1122
2.097	2.093	2.187	2.725	.770	8	J1065	3.125	3.119	3.250	-	.625	19	JX1122
2.125	2.120	2.250	-	.625	19	J1111	3.125	3.119	3.250	-	.750	19	J1401
2.125	2.120	2.250	-	.625	19	JV1111	3.125	3.119	3.250	-	.750	19	JX1401
2.125	2.120	2.250	2.250	.625	19	JX1111	3.130	3.124	3.226	-	.435	15	J873
2.125	2.120	2.250	2.437	.750	10	JV1456	3.146	3.140	3.224	-	.625	1	JV949
2.126	2.121	2.200	2.953	.302	#	JV2019	-	3.187	3.322	-	.970	1	J872
-	2.140	2.331	2.625	.625	-	JV1157	3.250	3.244	3.353	-	.625	19	J1084
2.187	2.182	2.312	-	.625	19	J1112	3.250	3.244	3.375	-	.625	19	J1123
2.187	2.182	2.312	-	.625	19	JV1112	3.250	3.244	3.375	-	.625	19	JV1123
2.236	2.231	2.375	-	.625	19	JV1836	3.250	3.244	3.375	3.625	.750	10	JV1875
2.250	2.245	2.375	-	.625	19	J1113	3.266	3.260	3.313	-	.453	1	JV1236
2.250	2.245	2.375	-	.625	19	JV1113	3.375	3.369	3.500	-	.625	19	J1124

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use ++ Not Sold Separately

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

Shaft	I.D.	Eff. Shaft Dia.	Flanged O.D.	Width	Type Illus.	Part No.	Shaft	I.D.	Eff. Shaft Dia.	Flanged O.D.	Width	Type Illus.	Part No.
3.375	3.369	3.500	—	.625	19	JV1124	4.535	4.530	4.625	—	.670	#	J1284
3.375	3.369	3.500	—	1.125	19	J1718	4.541	4.535	4.625	—	.468	1	J1151
3.475	3.375	3.573	—	.800	1	JV1179	4.625	4.618	4.739	—	.340	19	J1155
3.419	3.414	3.510	—	.531	1	JV1091	4.625	4.618	4.750	—	.750	19	J1134
3.437	3.430	3.566	3.875	.875	10	JV1509	4.625	4.618	4.750	—	.750	19	JV1134
—	3.453	4.380	—	.812	2	JV976	4.636	4.631	4.744	—	.750	19	JX847
3.500	3.494	3.625	—	.625	19	J1125	4.646	4.639	4.742	—	.625	19	JX1386
3.500	3.494	3.625	—	.625	19	JV1125	4.687	4.679	4.812	—	1.240	19	JF2282
3.500	3.494	3.625	—	.625	19	JX1125	4.687	4.680	4.740	—	.283	15	* JV608
3.500	3.494	3.625	3.937	.718	10	JV1494	4.687	4.680	4.812	—	1.240	19	JX1867
3.500	3.494	3.625	—	.875	19	J1293	4.687	4.683	4.812	—	1.562	19	J729
3.562	3.556	3.666	3.825	.718	10	J1469	4.687	4.683	4.826	—	1.562	19	JV729
3.562	3.556	3.687	3.825	.718	10	JV1469	4.918	4.687	5.009	—	.906	1	JV1060
4.691	3.562	4.786	—	.840	1	J1025	4.750	4.743	4.853	5.187	.812	10	JV1462
3.625	3.619	3.750	—	.625	19	J1126	4.750	4.743	4.875	—	.750	19	J1135
3.625	3.619	3.750	—	.625	19	JV1126	4.750	4.743	4.875	—	.750	19	JV1135
3.625	3.619	3.750	—	.625	19	JV1368	4.764	4.759	5.510	—	.875	#	JV753
3.625	3.619	3.750	4.000	.875	10	JV1874	4.812	4.812	5.510	—	.875	#	JV701
3.668	3.662	3.798	—	.530	#	JV1936	4.834	4.829	4.994	—	.710	#	JX2162
3.678	3.670	3.755	—	.625	1	JV1517	4.840	4.834	5.000	—	.750	19	* JX1967
3.678	3.670	3.758	—	.625	1	JV1582	4.875	4.868	5.000	—	.715	19	J1606
3.686	3.680	3.767	—	.625	1	JV1166	4.875	4.868	5.000	—	.750	19	J1136
3.721	3.715	3.805	4.200	.458	19	JV1152	4.875	4.868	5.000	—	.750	19	JV1136
3.742	3.732	3.821	—	.500	#	J1750	4.875	4.868	5.000	—	.750	19	JX1136
3.750	3.744	3.875	—	.625	19	J1127	4.875	4.868	5.000	—	1.000	19	JV2038
3.750	3.744	3.875	—	.625	19	JV1127	4.875	4.868	5.000	—	1.250	19	JV1999
—	3.750	3.942	4.250	.500	#	JV1897	4.917	4.910	5.004	—	.937	1	JV943
3.874	3.868	4.035	—	.831	19	JV1074	—	4.937	5.128	5.875	.838	8	J1159
3.874	3.868	4.040	4.500	.921	10	JV1361	5.000	4.993	5.125	—	.750	19	J1137
3.875	3.869	4.000	—	.625	19	J1128	5.000	4.993	5.125	—	.750	19	JV1137
3.875	3.869	4.000	—	.625	19	JV1128	5.000	4.993	5.125	—	.750	19	JX1137
3.875	3.869	4.000	—	.625	19	JX1128	5.000	4.993	5.125	—	.875	19	JX1831
3.930	3.925	4.375	—	.875	#	JV1511A	5.187	5.179	5.312	—	1.380	19	JF2280
3.936	3.930	4.042	4.375	.859	#	JV1362	5.187	5.180	5.312	—	.750	19	J2037
3.937	3.930	4.070	4.375	.875	10	JV1511	5.250	5.243	5.375	—	.750	19	J1138
4.000	3.989	4.125	—	.625	19	J1129	5.250	5.243	5.375	—	.750	19	JV1138
4.000	3.994	4.125	—	.625	19	JV1129	5.375	5.368	5.500	—	.750	19	J1081
4.000	3.994	4.125	4.312	.718	10	JV1461	5.375	5.368	5.500	—	.848	#	J1828
—	4.000	4.630	—	.700	1	JV1976	5.375	5.368	5.500	—	.848	#	JX1828
4.062	4.056	4.187	4.375	.875	10	JV1473	5.392	5.385	5.500	—	.625	19	JV1704
4.090	4.083	—	5.125	.235	#	J1380	5.400	5.393	5.442	—	.760	1	JV1944
4.125	4.119	4.250	—	.625	19	J1130	5.500	5.493	5.625	—	.750	19	J1139
4.125	4.119	4.250	—	.625	19	JV1130	5.500	5.493	5.625	—	.750	19	JV1139
4.275	4.187	4.375	5.125	.898	8	J1172	5.500	5.493	5.625	5.812	.875	10	JV1463
4.275	4.187	4.375	5.125	.898	8	JV1172	5.625	5.618	5.750	—	1.000	19	J1355
4.212	4.207	4.325	—	.984	19	JX2045	5.625	5.618	5.750	—	1.000	19	JV1355
4.250	4.244	4.375	—	.750	19	J1131	5.625	5.618	5.754	—	1.250	19	JV1978
4.250	4.244	4.375	—	.750	19	JV1131	5.637	5.630	5.755	—	1.175	1	J953
4.250	4.244	4.375	—	.750	19	JX1131	5.641	5.634	5.743	—	.750	19	JX845
4.260	4.256	4.387	4.625	.656	10	JV1210	5.750	5.743	5.875	—	.750	19	J1140
4.481	4.312	4.572	—	.750	1	JV980	5.750	5.743	5.875	—	.750	19	JV1140
4.346	4.340	4.906	5.625	.563	#	J1425	5.795	5.785	5.880	—	1.000	1	JV1550
4.375	4.368	4.500	4.812	.843	10	JV1512	5.875	5.868	6.000	—	.875	19	JV1002
4.375	4.369	4.500	—	.750	19	J1132	5.875	5.868	6.000	—	.875	19	JX1002
4.375	4.369	4.500	—	.750	19	JV1132	5.900	5.890	6.000	7.125	1.035	8	J1245
4.375	4.369	4.500	—	.750	19	JX1132	5.991	5.986	6.100	—	.455	#	JV2088
4.465	4.459	4.575	5.125	.230	14	J1405	6.000	5.993	6.125	—	.750	19	J1141
4.474	4.468	4.604	—	.530	19	JV1935	6.000	5.993	6.125	—	.750	19	JV1141
4.500	4.493	4.625	—	.625	19	J1238	6.000	5.993	6.125	6.125	.750	19	JX1141
4.500	4.493	4.625	—	.625	19	JX1238	6.080	6.073	6.204	—	.600	19	J1895
4.500	4.493	4.625	—	.625	19	J1929	6.081	6.073	6.204	—	.750	19	J1842
4.500	4.493	4.625	—	.687	19	JV1363	6.079	6.073	6.204	—	.866	19	J2053
4.500	4.493	4.625	—	.687	19	JX1363	6.081	6.073	6.204	—	1.031	19	J1824
4.500	4.493	4.625	—	.750	19	J1133	6.187	6.180	6.312	—	.848	#	J1838
4.500	4.493	4.625	—	.750	19	JV1133	6.206	6.198	6.328	—	.812	19	J1825
4.500	4.493	4.625	4.937	.912	10	JV1513	6.206	6.198	6.328	—	.812	19	JV1825
4.500	4.494	5.500	—	.875	#	J1197	6.375	6.368	6.500	—	.875	19	J1869
4.502	4.496	4.627	—	1.000	19	J1880	6.375	6.368	6.500	—	.875	19	JV1869
—	4.500	5.130	—	.600	1	JV1077	6.444	6.437	6.526	—	.550	1	JV1019
—	4.500	5.130	—	.700	1	JV1977	6.500	6.492	6.625	—	.625	19	* JL2361

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

Size Section—Wear Sleeves

Shaft	I.D.	Eff. Shaft Dia.	Flanged O.D.	Width	Type Illus.	Part No.	Shaft	I.D.	Eff. Shaft Dia.	Flanged O.D.	Width	Type Illus.	Part No.
6.500	6.492	6.625	—	.750	19	* JG2361							
6.500	6.492	6.625	—	.875	19	* JG2345							
6.575	6.515	6.687	7.531	1.040	8	J1059							
6.875	6.867	7.000	—	.750	19	J1278							
6.875	6.867	7.000	—	.750	19	JV1278							
6.875	6.867	7.000	7.187	1.000	10	JV1474							
6.892	6.884	6.993	—	.937	19	JX846							
7.117	7.109	8.356	8.453	1.684	#	J892							
7.221	7.214	—	7.767	.491	#	J893							
7.375	7.367	7.500	—	.875	19	JV1190							
7.375	7.367	7.500	—	.875	19	JX1190							
—	7.500	7.881	8.562	.781	#	JV1378							
7.625	7.617	7.750	—	1.125	19	JV1759							
7.750	7.742	7.875	—	1.000	19	JV1760							
7.875	7.867	8.011	—	.750	19	JV1669							
8.125	8.117	8.250	—	1.470	19	JV1850							
—	8.125	8.250	9.500	.875	8	J1196							
—	8.125	8.250	9.375	1.085	#	J1629							
8.525	8.517	8.625	10.550	1.105	8	J1087							
9.058	9.048	9.173	—	1.000	19	J1984							
9.265	9.256	9.365	—	.990	19	JV829							
9.265	9.256	9.365	—	.990	19	JX829							
9.265	9.256	9.365	—	.990	19	JXS829							
10.312	10.303	10.479	—	1.125	19	JV1808							
10.915	10.906	—	11.975	.815	10	J930							
12.345	11.260	12.400	—	.590	1	J986							

SIZE SECTION

For Illustration and Material Data See Technical Section

Designed For A Specific Application - Not Recommended For General Use

* The U.S. customer service number is 877-4-TIMKEN. The Canadian customer service numbers are 800-565-4927 (English) and 800-565-0438 (French-Canadian).

Shaft Range		Part No.	Width on Shaft	Overall Width	Flanged O.D.	Installation Depth
Minimum	Maximum					
.469	.475	99049	.236	.331	.787	.472
.498	.502	99050	.250	.344	.610	2.008
.560	.566	99056	.250	.391	.750	1.831
.589	.593	99059	.197	.354	.750	.425
.623	.627	99062	.313	.406	.813	2.000
.626	.630	99058	.313	.438	.718	2.000
.667	.671	99068	.315	.433	1.063	2.008
.682	.686	99060	.313	.438	.900	2.000
.704	.709	99082	.315	.433	1.063	1.811
.748	.752	99076	.313	.438	.938	2.000
.748	.752	99075	.375	.500	.900	2.000
.759	.761	99081	.313	.438	.938	2.000
.780	.784	99080	.313	.438	.935	2.000
.785	.789	99078	.313	.433	.999	2.000
.857	.861	99086	.250	.375	1.155	2.000
.861	.866	99085	.315	.472	1.058	1.813
.873	.877	99087	.313	.438	1.093	2.000
.908	.912	99091	.313	.438	1.218	1.847
.966	.970	99094	.313	.438	1.130	2.000
.966	.970	99096	.625	.719	1.130	2.000
.982	.986	99098	.313	.433	1.378	2.000
.998	1.002	99101	.313	.438	1.219	2.000
1.019	1.024	99103	.313	.472	1.312	1.813
1.060	1.064	99106	.313	.438	1.320	2.812
1.087	1.091	99108	.313	.438	1.406	.625
1.100	1.104	99111	.375	.500	1.375	2.813
1.123	1.127	99112	.313	.438	1.575	.688
1.154	1.158	99120	.375	.500	1.350	.688
1.173	1.178	99122	.313	.438	1.575	.688
1.179	1.184	99114	.315	.433	1.400	.688
1.185	1.190	99118	.313	.438	1.400	.875
1.216	1.222	99123	.315	.438	1.575	.688
1.237	1.243	99141	.315	.438	1.540	.688
1.247	1.253	99125	.313	.438	1.500	.688
1.257	1.263	99128	.315	.437	1.496	.709
1.308	1.314	99129	.250	.375	1.600	.813
1.310	1.316	99131	.500	.625	1.594	.813
1.336	1.342	99134	.500	.625	1.638	.813
1.371	1.377	99133	.313	.438	1.638	.813
1.371	1.377	99138	.500	.625	1.638	.813
1.375	1.381	99139	.512	.630	1.638	.812
1.412	1.417	99146	.518	.669	1.689	.984
1.432	1.438	99143	.563	.688	1.781	1.000
1.435	1.441	99144	.375	.500	1.781	1.016
1.453	1.460	99145	.375	.500	1.781	.812
1.490	1.496	99147	.512	.669	1.780	.984
1.497	1.503	99150	.375	.500	1.781	1.016
1.497	1.503	99149	.563	.688	1.781	1.000
1.520	1.526	99152	.438	.563	1.859	1.016
1.549	1.555	99155	.438	.563	1.859	1.000
1.559	1.565	99156	.563	.688	1.859	1.000
1.572	1.578	99157	.512	.630	1.850	1.023
1.602	1.608	99160	.500	.641	1.938	1.000
1.622	1.628	99161	.313	.438	1.875	1.016
1.623	1.628	99162	.563	.688	1.875	.813
1.647	1.654	99166	.445	.571	2.087	.827
1.647	1.654	99169	.563	.688	2.087	.827
1.684	1.690	99168	.563	.688	1.906	.875
1.685	1.691	99167	.313	.438	1.906	.875
1.715	1.721	99171	.563	.688	2.031	.813
1.736	1.742	99170	.375	.500	2.063	.813
1.747	1.753	99172	.375	.500	2.055	.813
1.747	1.753	99180	.531	.625	2.063	.875
1.747	1.753	99174	.563	.688	2.063	.813
1.747	1.753	99175	.750	.875	2.063	.813
1.761	1.767	88176	.563	.688	2.063	.813
1.761	1.767	99176	.563	.688	2.063	.813
1.769	1.775	99177	.551	.669	2.087	.812
1.778	1.784	88179	.675	.800	2.125	1.000
1.778	1.784	99179	.675	.800	2.125	1.062

Size Section—Redi-Sleeves

Shaft Range		Part No.	Width on Shaft	Overall Width	Flanged O.D.	Installation Depth
Minimum	Maximum					
1.809	1.815	99181	.563	.688	2.156	1.000
1.857	1.863	99185	.563	.688	2.156	1.000
1.866	1.872	88186	.889	1.025	2.187	1.000
1.866	1.872	99186	.889	1.025	2.187	1.000
1.872	1.878	99190	.175	.295	2.203	.744
1.872	1.878	99188	.295	.415	2.203	.744
1.872	1.878	99184	.375	.516	2.203	1.050
1.872	1.878	88187	.563	.688	2.203	1.000
1.872	1.878	99187	.563	.688	2.203	1.000
1.887	1.893	99189	.551	.668	2.205	.984
1.909	1.915	99192	.375	.500	2.219	1.000
1.934	1.940	99193	.563	.688	2.219	1.000
1.965	1.971	99196	.551	.688	2.244	.984
1.977	1.983	99198	.563	.704	2.313	1.050
1.997	2.003	88199	.563	.688	2.406	1.000
1.997	2.003	99199	.563	.688	2.406	1.000
1.997	2.003	99200	.875	1.000	2.406	1.000
2.041	2.047	99204	.500	.625	2.469	1.000
2.057	2.063	99205	.781	.938	2.469	1.375
2.123	2.128	99210	.500	.750	2.422	1.281
2.124	2.130	99212	.781	.938	2.422	1.375
2.162	2.168	99215	.787	.905	2.441	1.250
2.186	2.192	88218	.781	.938	2.500	1.313
2.186	2.192	99218	.781	.938	2.500	1.313
2.197	2.205	99220	.500	.625	2.500	1.250
2.227	2.233	99229	.500	.625	2.531	1.313
2.227	2.233	99230	.781	.906	2.531	1.250
2.237	2.243	99226	.764	.900	2.562	1.250
2.249	2.255	99227	.313	.438	2.531	1.313
2.249	2.255	88225	.781	.938	2.531	1.313
2.249	2.255	99225	.781	.938	2.531	1.313
2.309	2.315	99231	.781	.938	2.688	1.600
2.327	2.333	88233	.750	.875	2.750	1.610
2.327	2.333	99233	.750	.875	2.750	1.610
2.359	2.365	99241	.370	.449	2.783	1.472
2.359	2.365	99235	.787	.905	2.785	1.375
2.369	2.375	99236	.781	.938	2.750	1.375
2.372	2.378	99238	.594	.750	2.750	1.375
2.374	2.380	99240	.526	.683	2.750	1.375
2.374	2.380	99237	.781	.938	2.734	1.375
2.434	2.440	99243	.781	.938	2.828	1.375
2.435	2.441	99242	.500	.626	2.827	1.417
2.489	2.495	99249	.781	.938	2.875	1.393
2.497	2.503	99253	.555	.650	2.820	.890
2.500	2.506	99248	.500	.656	2.828	1.375
2.500	2.506	99250	.781	.938	2.828	1.375
2.510	2.516	99251	.781	.906	2.828	1.438
2.556	2.562	99254	.787	.905	2.850	1.378
2.560	2.566	99256	.781	.938	2.891	1.375
2.595	2.602	99259	.781	.938	2.990	1.250
2.618	2.624	99261	.781	.938	3.047	1.375
2.621	2.627	99264	.781	.906	3.047	1.375
2.622	2.628	99260	.500	.625	3.047	1.375
2.625	2.631	99262	.781	.938	3.047	1.375
2.727	2.733	99268	.781	.906	3.125	1.313
2.740	2.746	99273	.781	.938	3.065	1.250
2.745	2.751	99274	.781	.938	3.125	1.250
2.747	2.753	99270	.781	.906	3.125	1.250
2.747	2.753	99267	1.438	1.625	3.075	1.625
2.750	2.756	99272	.406	.563	3.125	1.250
2.750	2.756	99275	.781	.938	3.125	1.250
2.750	2.756	99269	1.125	1.250	3.125	1.250
2.753	2.759	99276	.787	.945	3.125	1.250
2.809	2.815	99281	.594	.688	3.188	1.250
2.838	2.844	99282	.500	.656	3.225	1.250
2.866	2.872	99286	.781	.938	3.188	1.250
2.873	2.879	99287	.781	.938	3.219	1.250
2.937	2.943	99290	.500	.641	3.344	1.331
2.937	2.943	99293	.781	.938	3.344	1.250
2.950	2.956	99289	.594	.689	3.272	1.102

SIZE SECTION

Shaft Range		Part No.	Width on Shaft	Overall Width	Flanged O.D.	Installation Depth
Minimum	Maximum					
2.950	2.956	99294	.866	1.024	3.305	1.312
2.972	2.976	99292	.813	—	—	—
2.990	2.996	99291	.484	.625	3.359	1.331
2.990	2.996	99298	.563	.688	3.359	1.375
2.990	2.996	99299	.813	1.000	3.359	1.250
2.997	3.003	99296	.813	.938	3.240	1.375
3.000	3.006	99303	.625	.813	3.345	1.063
3.000	3.006	99300	.813	1.000	3.453	1.250
3.008	3.014	99301	.500	.625	3.355	2.000
3.120	3.126	99311	.688	.813	3.531	2.000
3.120	3.126	99312	.813	1.000	3.531	2.000
3.124	3.132	99307	.551	.709	3.525	2.031
3.142	3.150	99313	.750	.886	3.540	1.375
3.146	3.153	99317	.433	.590	3.543	1.378
3.146	3.153	99315	.827	.945	3.543	1.375
3.225	3.231	99328	.661	.850	3.587	1.732
3.247	3.253	99322	.813	1.000	3.594	1.375
3.248	3.254	99323	.600	.725	3.585	1.375
3.250	3.256	99324	.595	.719	3.594	1.375
3.250	3.256	99326	.688	.875	3.585	1.250
3.250	3.256	99325	.813	1.000	3.594	1.375
3.307	3.313	99331	.813	1.000	3.688	1.375
3.337	3.346	99333	.827	.984	3.700	1.378
3.338	3.346	99334	.827	.984	3.697	1.433
3.373	3.379	99338	.375	.500	3.688	1.410
3.373	3.379	99337	.813	1.000	3.688	1.375
3.435	3.441	99339	.781	.906	3.844	1.406
3.477	3.483	99340	.781	.906	3.835	1.406
3.500	3.506	99347	.315	.500	3.827	1.339
3.500	3.506	99350	.813	1.000	3.844	1.375
3.501	3.507	99349	.626	.811	3.842	1.339
3.540	3.546	99353	.528	.665	4.000	1.732
3.540	3.546	99351	.710	.906	4.000	1.813
3.540	3.546	99354	.906	1.102	4.000	1.750
3.560	3.566	99356	.813	1.000	3.900	1.750
3.618	3.624	99360	.811	1.000	4.031	1.732
3.623	3.629	99363	.500	.625	4.025	1.750
3.623	3.629	99362	.813	1.000	4.031	1.750
3.684	3.690	99368	.313	.438	3.830	.875
3.685	3.691	99359	.813	.938	4.025	1.750
3.685	3.691	99365	.813	.938	4.025	1.750
3.737	3.743	99369	.827	.945	4.025	1.750
3.740	3.746	99374	.344	.500	4.031	1.750
3.740	3.746	99364	.469	.594	4.035	1.750
3.746	3.752	99376	.563	.688	4.025	1.750
3.750	3.756	99367	.344	.500	4.031	1.750
3.750	3.756	99372	.688	.875	4.031	1.875
3.873	3.879	99387	.813	1.000	4.219	1.875
3.935	3.941	99393	.813	1.000	4.313	1.340
3.998	4.006	99401	.500	.625	4.375	2.066
3.998	4.006	99395	.600	.725	—	2.050
3.998	4.006	99400	.650	.775	4.375	1.375
3.998	4.006	99399	.813	1.000	4.375	1.250
4.122	4.130	99412	.813	1.000	4.420	1.375
4.130	4.138	99413	.787	.906	4.470	1.378
4.183	4.191	99418	.813	1.000	4.500	1.375
4.226	4.234	99423	.781	.906	4.610	1.438
4.248	4.256	99424	.813	1.000	4.813	1.375
4.327	4.335	99435	.509	.650	4.921	1.250
4.370	4.378	99437	.813	1.000	4.750	1.650
4.434	4.442	99439	1.000	1.142	4.813	1.313
4.496	4.504	99450	.813	1.000	5.000	1.375
4.523	4.531	99452	.813	.938	5.000	1.250
4.621	4.629	99465	.438	.625	5.000	1.375
4.621	4.629	99463	1.000	1.250	5.063	1.375
4.685	4.693	99468	.812	1.000	5.062	1.375
4.720	4.728	99473	.787	.984	5.110	1.260
4.746	4.754	99475	.500	.750	5.250	1.500
4.801	4.807	99472	.787	.945	5.177	1.260
4.871	4.879	99487	.625	.752	5.252	1.457

Size Section—Redi-Sleeves

Shaft Range		Part No.	Width on Shaft	Overall Width	Flanged O.D.	Installation Depth
Minimum	Maximum					
4.917	4.925	99490	.394	.551	5.402	1.457
4.917	4.925	99492	1.024	1.260	5.400	1.438
4.998	5.006	99498	.688	.875	5.400	1.438
4.998	5.006	99499	.813	1.000	5.406	1.500
5.110	5.118	99494	.750	.938	5.493	1.181
5.117	5.125	99491	.866	.996	5.492	1.299
5.246	5.254	99525	.813	1.000	5.560	1.250
5.371	5.379	99537	.813	1.000	5.875	1.250
5.498	5.506	99549	.812	1.000	5.938	1.250
5.508	5.516	99552	.807	1.000	5.945	1.250
5.746	5.754	99575	.813	1.000	6.180	1.750
5.871	5.879	99587	1.000	1.250	6.188	1.313
5.895	5.905	99595	1.024	1.181	6.260	1.338
5.934	5.942	99596	1.000	1.125	6.375	1.875
5.995	6.003	99601	.500	.750	6.360	1.750
5.995	6.003	99599	1.000	1.250	6.375	1.750
6.092	6.102	99606	1.024	1.181	6.500	1.299
6.245	6.255	99625	1.031	1.250	6.625	1.750
6.289	6.299	99630	1.000	1.250	7.000	1.800
6.495	6.505	99650	1.000	1.250	7.000	1.750
6.683	6.693	99640	1.250	1.496	7.188	1.750
6.745	6.755	99675	.813	1.063	7.125	1.750
6.995	7.005	99700	1.000	1.250	7.500	1.750
7.077	7.087	99721	1.300	1.496	7.500	1.752
7.244	7.254	99725	1.250	1.500	7.760	2.175
7.495	7.505	99750	.813	1.000	7.875	1.250
7.745	7.755	99775	1.000	1.313	8.270	1.875
7.869	7.879	99787	1.359	1.500	8.375	1.750
7.933	7.943	99799	1.000	1.250	8.375	1.750
7.995	8.005	99800	1.000	1.250	8.375	1.750

SIZE SECTION