



Conversion Factors

(U.S. Customary to Metric)

1 lb (mass)	=	0.4536 kg
1 inch	=	25.4 mm
1 in-lb	=	0.113 Nm
1 HP	=	0.7457 kW
1 lb-in ²	=	0.000293 kg-m ²

Selection Data

Size	Max. ¹ Continuous Rating HP/100 RPM	Max. ¹ Torque Rating		Maximum Speed RPM	Max. Bore (in)	Total ² Weight (lbs)	Total ² WR ² (lb-in ²)	Total Stiffness (lb-in/radx10 ⁶)	Spacer Tube/in			Size
		Continuous (in-lb)	Peak (in-lb)						K (lb-in/radx10 ⁶)	Weight (lbs)	WR ² (lb-in)	
103	9.5	6000	8000	14200	2.88	22.0	61	0.3	11.2	.24	.27	103
153	32.4	20400	27200	12500	3.88	41.4	187	1.1	33.4	.40	.80	153
204	85.7	54000	72000	11100	4.63	69.1	420	2.8	111	.80	2.66	204
254	124	78000	104000	9900	5.50	99.8	893	4.2	180	.78	4.30	254
304	212	133500	178000	8700	6.50	152	1770	8.0	336	1.17	8.06	304
354	357	225000	300000	7500	7.50	240	3730	14	709	1.96	17.0	354
404	512	322500	430000	6600	9.00	344	6830	21	1020	2.21	24.3	404
454	607	383000	510000	6000	9.75	455	11400	27	1550	2.54	37.0	454
504	857	540000	720000	5600	10.75	576	16600	38	2620	3.67	62.6	504
554	1200	758000	1010000	4800	12.00	792	28400	50	3120	3.89	74.7	554
604	1570	990000	1320000	4600	13.00	992	40700	69	4800	5.21	115	604
705	3590	2265000	3020000	3860	15.75	1690	102000	160	12700	9.43	304	705
805	5500	3465000	4620000	3450	18.00	2440	185000	240	21200	12.6	507	805
905	6190	3900000	5200000	3100	20.00	3180	304000	300	27500	11.7	658	905

Dimensions and Misalignment Capacities

Size	A (in)	No (in)	Ni (in)	Typical Bore (in)	Typical E (in)	Typical O (in)	Min. C (in)	Misalignment Capacities		Size
								Axial (in)	Angular (degrees)	
103	5.44	2.25	2.00	2.0	1.94	3.81	4.63	± .080	0.20	103
153	6.81	3.00	2.69	2.5	2.38	4.81	5.75	± .115	0.25	153
204	7.81	3.88	3.38	3.0	3.00	5.75	6.38	± .100	0.20	204
254	9.31	4.88	4.50	3.5	3.56	6.75	6.50	± .120	0.20	254
304	10.62	5.50	5.00	4.0	4.12	7.75	7.75	± .140	0.20	304
354	12.28	6.25	5.50	4.5	4.62	9.00	9.25	± .160	0.20	354
404	13.94	7.00	6.25	5.0	5.25	10.12	10.88	± .180	0.20	404
454	15.56	8.00	7.25	5.5	5.88	11.38	11.25	± .200	0.20	454
504	16.69	8.75	7.75	6.0	6.38	12.25	12.25	± .230	0.20	504
554	18.69	9.25	8.25	6.5	7.00	13.62	13.75	± .250	0.20	554
604	20.00	10.00	8.75	7.0	7.62	14.62	14.63	± .270	0.20	604
705	24.00	12.25	10.38	8.5	9.00	17.50	17.88	± .230	0.15	705
805	26.88	13.75	11.50	9.5	10.00	19.50	20.13	± .260	0.15	805
905	30.00	16.00	14.25	11.0	11.50	22.00	21.38	± .340	0.15	905

To account for off-design fluctuating or continuous torques, an experience or application factor should be used. API 671 and KOP-FLEX recommends 1.5 minimum for general turbomachinery applications.

Mass elastic data based on couplings with typical bores and 18.00" shaft separation up to #705, and min. C for #805 and #905; design and data can be changed to meet specific requirements.

All major components are made of carbon steel.