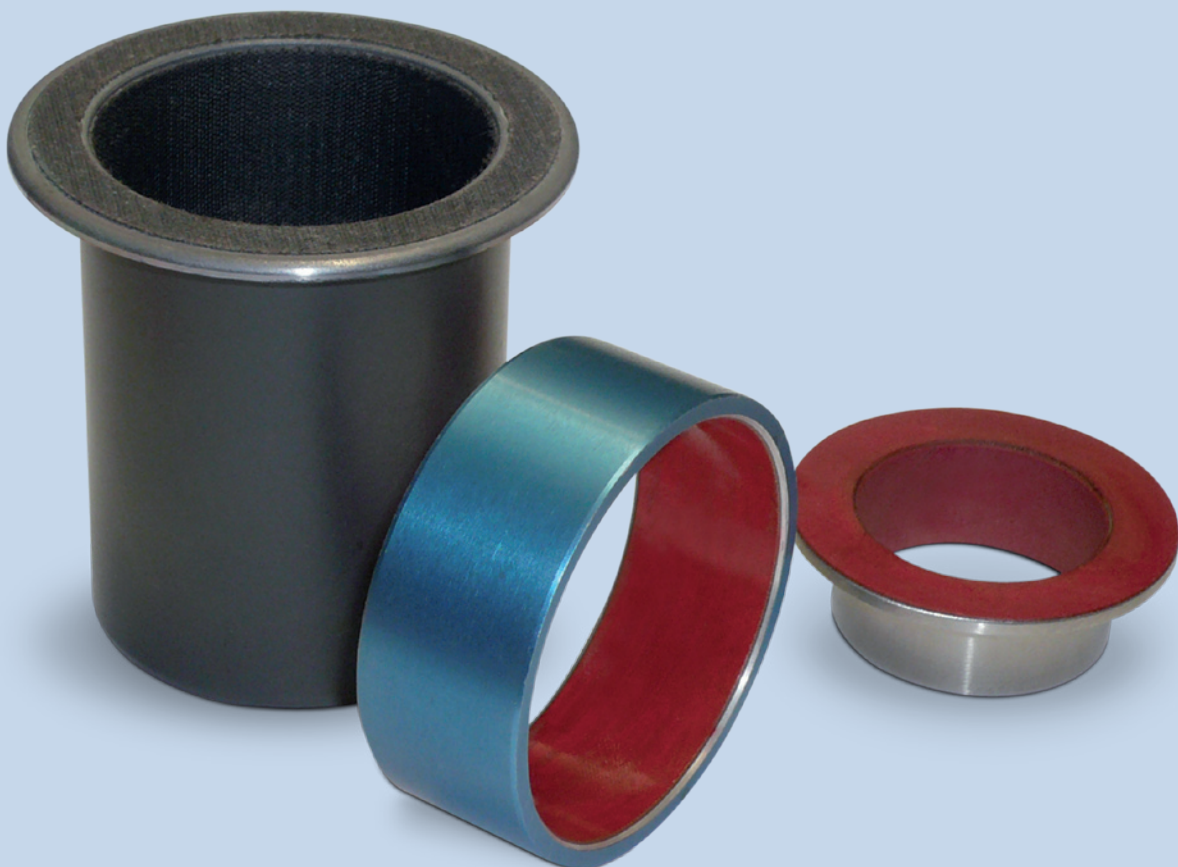


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# Journal Bearings

## Product Overview



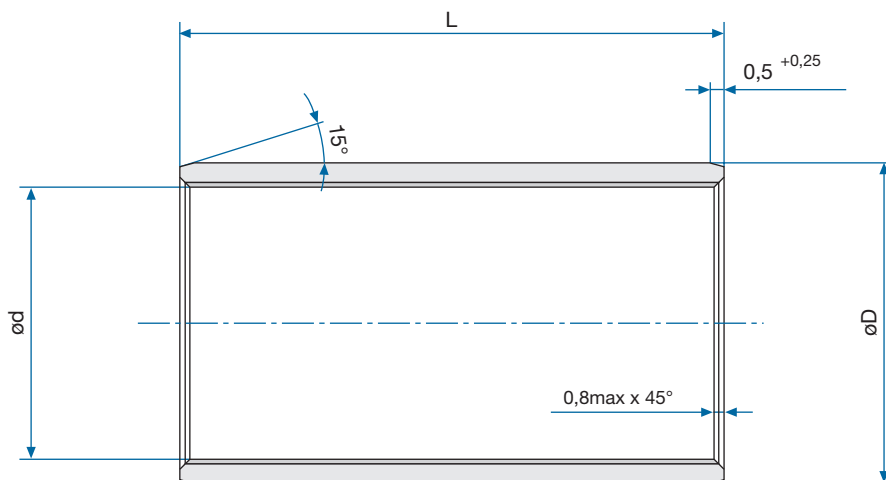
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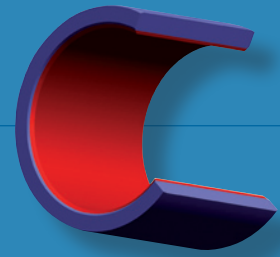
ABS2041	V-3-4
ABS2043	V-5-6
EN4534	V-7-8
EN4536	V-9-10
FBPA...A... / FBPA...C...	V-11-12
FBPA1 / FBPA2	V-13-14
NSA8145 / NSA8146	V-15-16
EN2285	V-17-18
EN2287	V-19-20
ABS2042...D	V-21-22
ABS2042...F	V-23-24
ABS2044...D	V-25-26
ABS2044...F	V-27-28
EN4535 2D	V-29-30
EN4535 2F	V-31-32
EN4537 2D	V-33-34
EN4537 2F	V-35-36
FBFA...A... / FBFA...C...	V-37-38
FBFA1 / FBFA2	V-39-40
NSA8147 / NSA8148	V-41-42
EN2288	V-43-44
EN2286	V-45-46

Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	Length L -0,25													
						005	006	007	008	009	010	011	012	014	016	018	020	022	
04	6,350	6,388	-0,025	9,550	$\pm 0,013$	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70				
05	7,938	7,976	-0,025	11,140	$\pm 0,013$	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88		
06	9,525	9,563	-0,025	12,730	$\pm 0,013$	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
07	11,113	11,151	-0,025	14,321	$\pm 0,013$	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
08	12,700	12,738	-0,025	15,913	$\pm 0,013$	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
09	14,288	14,326	-0,025	17,506	$\pm 0,013$	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
10	15,875	15,913	-0,025	20,681	$\pm 0,013$	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
11	17,463	17,501	-0,025	22,268	$\pm 0,013$				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
12	19,050	19,088	-0,025	23,858	$\pm 0,013$				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
14	22,225	22,263	-0,025	27,038	$\pm 0,013$				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
16	25,400	25,438	-0,025	30,221	$\pm 0,013$				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
18	28,575	28,613	-0,025	33,396	$\pm 0,013$						7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
20	31,750	31,788	-0,025	36,571	$\pm 0,013$								9,53	11,13	12,70	14,30	15,88	17,48	
22	34,925	34,963	-0,025	39,746	$\pm 0,013$								9,53	11,13	12,70	14,30	15,88	17,48	
24	38,100	38,138	-0,025	44,508	$\pm 0,013$								9,53	11,13	12,70	14,30	15,88	17,48	
26	41,275	41,313	-0,025	47,683	$\pm 0,013$										12,70	14,30	15,88	17,48	
28	44,450	44,488	-0,025	50,858	$\pm 0,013$										12,70	14,30	15,88	17,48	
32	50,800	50,838	-0,025	57,208	$\pm 0,013$										12,70	14,30	15,88	17,48	



## Designation

ABS2041A 04 005



Length Code

Diameter Code

Number of ABS Standard

Material: EN2318 / 3.1354 T3511 / Alloy 2024; Anodized

Liner: FRASLIP F per EN2311 / SAE AS81934

Technical Specification: ABS2045

## ABS2041

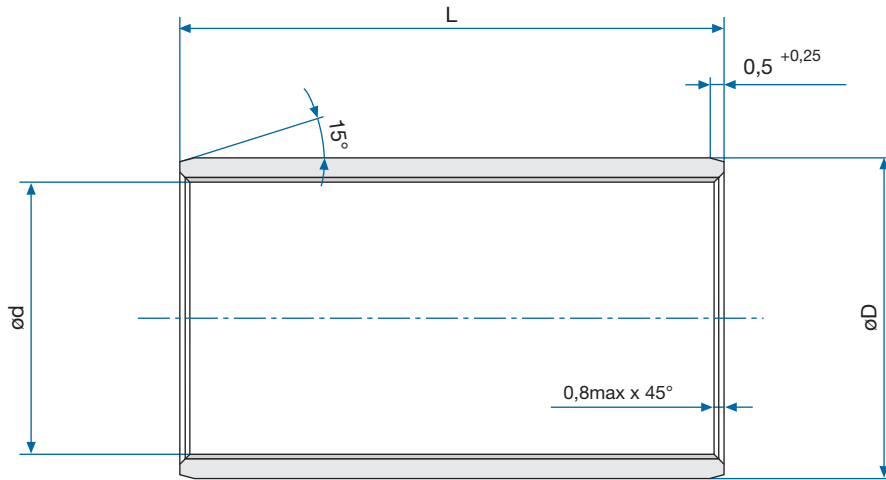
- > Self Lubricating
- > Aluminium
- > Cylindrical Type
- > For Titanium Shaft
- > According to Specification ABS2045 / EN2311

### Static Limit Load $C_s$ :

$$C_s = 0,29 \cdot d \cdot (L - 2) \text{ [kN]}$$

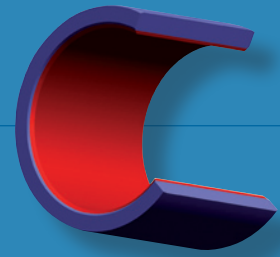
Length L -0,25																	Diameter Code
024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096	
																	04
																	05
19,05																	06
19,05	22,23																07
19,05	22,23																08
19,05	22,23																09
19,05	22,23	25,40	28,58	31,75	34,93												10
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										11
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										12
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63								14
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80							16
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						18
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						20
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						22
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85		24
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	26
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	28
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	32

Schematic drawing



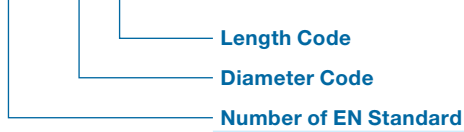
Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	Length L -0,25													
						005	006	007	008	009	010	011	012	014	016	018	020	022	
04	6,350	6,388	-0,025	9,550	-0,013	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70				
05	7,938	7,976	-0,025	11,140	-0,013	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88		
06	9,525	9,563	-0,025	12,730	-0,013	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
07	11,113	11,151	-0,025	14,321	-0,013	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
08	12,700	12,738	-0,025	15,913	-0,013	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
09	14,288	14,326	-0,025	17,506	-0,013	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
10	15,875	15,913	-0,025	20,681	-0,013	3,97	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
11	17,463	17,501	-0,025	22,268	-0,013				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
12	19,050	19,088	-0,025	23,858	-0,013				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
14	22,225	22,263	-0,025	27,038	-0,013				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
16	25,400	25,438	-0,025	30,221	-0,013				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
18	28,575	28,613	-0,025	33,396	-0,013						7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
20	31,750	31,788	-0,025	36,571	-0,013								9,53	11,13	12,70	14,30	15,88	17,48	
22	34,925	34,963	-0,025	39,746	-0,013								9,53	11,13	12,70	14,30	15,88	17,48	
24	38,100	38,138	-0,025	44,508	-0,013								9,53	11,13	12,70	14,30	15,88	17,48	
26	41,275	41,313	-0,025	47,683	-0,013										12,70	14,30	15,88	17,48	
28	44,450	44,488	-0,025	50,858	-0,013										12,70	14,30	15,88	17,48	
32	50,800	50,838	-0,025	57,208	-0,013										12,70	14,30	15,88	17,48	



## Designation

ABS2043A 04 005



Length Code

Diameter Code

Number of EN Standard

Material: EN3161 / 1.4545 / 17-4PH H1150

Liner: FRASLIP F per EN2311 / SAE AS81934

Technical Specification: ABS2045

## ABS2043

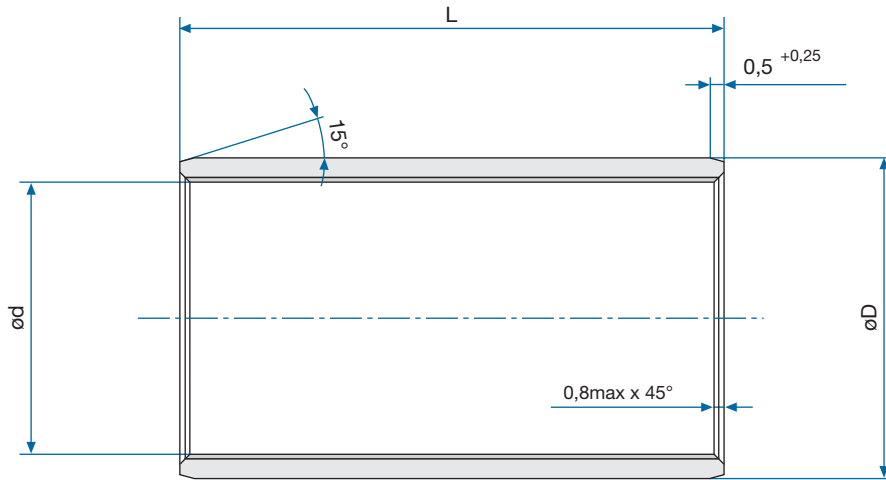
- > Self Lubricating
- > CRES
- > Cylindrical Type
- > According to Specification ABS2045 / EN2311

### Static Limit Load $C_s$ :

$$C_s = 0,541 \cdot d \cdot (L-2) \text{ [kN]}$$

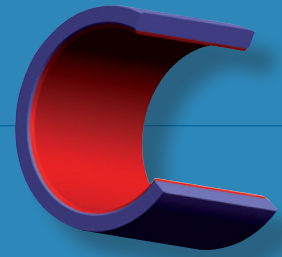
Length L -0,25																	Diameter Code	
024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096		
																		04
																		05
19,05																		06
19,05	22,23																	07
19,05	22,23																	08
19,05	22,23																	09
19,05	22,23	25,40	28,58	31,75	34,93													10
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											11
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											12
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63									14
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80								16
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							18
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							20
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							22
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85			24
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		26
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		28
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		32

Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	Length L -0,25													
						005	006	007	008	009	010	011	012	014	016	018	020	022	
04	6,350	6,388	-0,025	9,550	$\pm 0,013$	3,97	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70				
05	7,938	7,976	-0,025	11,140	$\pm 0,013$	3,97	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88		
06	9,525	9,563	-0,025	12,730	$\pm 0,013$	3,97	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
07	11,113	11,151	-0,025	14,321	$\pm 0,013$	3,97	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
08	12,700	12,738	-0,025	15,913	$\pm 0,013$	3,97	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
09	14,288	14,326	-0,025	17,506	$\pm 0,013$	3,97	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
10	15,875	15,913	-0,025	20,681	$\pm 0,013$	3,97	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
11	17,463	17,501	-0,025	22,268	$\pm 0,013$				6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
12	19,050	19,088	-0,025	23,858	$\pm 0,013$				6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
14	22,225	22,263	-0,025	27,038	$\pm 0,013$				6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
16	25,400	25,438	-0,025	30,221	$\pm 0,013$				6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
18	28,575	28,613	-0,025	33,396	$\pm 0,013$						7,94	8,73	9,53	11,11	12,70	14,29	15,88	17,46	
20	31,750	31,788	-0,025	36,571	$\pm 0,013$								9,53	11,11	12,70	14,29	15,88	17,46	
22	34,925	34,963	-0,025	39,746	$\pm 0,013$								9,53	11,11	12,70	14,29	15,88	17,46	
24	38,100	38,138	-0,025	44,508	$\pm 0,013$								9,53	11,11	12,70	14,29	15,88	17,46	
26	41,275	41,313	-0,025	47,683	$\pm 0,013$										12,70	14,29	15,88	17,46	
28	44,450	44,488	-0,025	50,858	$\pm 0,013$										12,70	14,29	15,88	17,46	
32	50,800	50,838	-0,025	57,208	$\pm 0,013$										12,70	14,29	15,88	17,46	



## Designation

EN4534-2 04 R 006

EN4534-2	04	R	006
			<b>Length Code</b>
			<b>Surface Treatment</b>
			No Code: Non
			R: Anodized
			<b>Diameter Code</b>
			<b>Number of EN Standard</b>
			Material: EN2318 / 3.1354 T3511 / Alloy 2024
			Liner: FRASLIP F per EN2311 / SAE AS81934
			Technical Specification: EN2311 / SAE AS81934

## EN4534

- > Self Lubricating
- > Aluminium
- > Cylindrical Type
- > According to Specification EN2311 / SAE AS81934

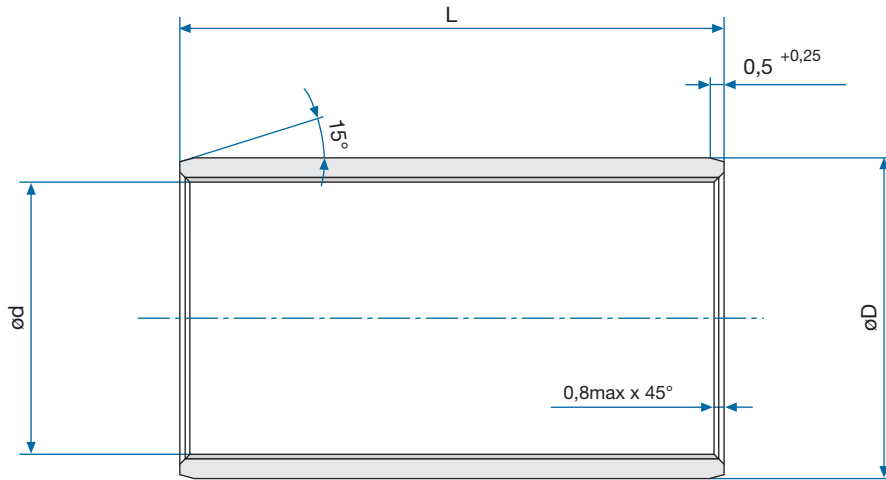
### Static Limit Load $C_s$ :

$$C_s = 0,29 \cdot d \cdot (L - 2) \text{ [kN]}$$

Length L -0,25																	Diameter Code
024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096	
																	04
																	05
19,05																	06
19,05	22,23																07
19,05	22,23																08
19,05	22,23																09
19,05	22,23	25,40	28,58	31,75	34,93												10
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										11
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										12
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63								14
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80							16
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						18
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						20
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						22
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85		24
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	26
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	28
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	32

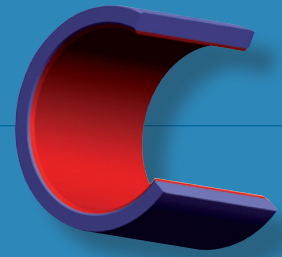


Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	Length L -0,25													
						005	006	007	008	009	010	011	012	014	016	018	020	022	
04	6,350	6,388	-0,025	9,550	-0,013	3,96	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70				
05	7,938	7,976	-0,025	11,140	-0,013	3,96	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88		
06	9,525	9,563	-0,025	12,730	-0,013	3,96	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
07	11,113	11,151	-0,025	14,321	-0,013	3,96	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
08	12,700	12,738	-0,025	15,913	-0,013	3,96	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
09	14,288	14,326	-0,025	17,506	-0,013	3,96	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
10	15,875	15,913	-0,025	20,681	-0,013	3,96	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
11	17,463	17,501	-0,025	22,268	-0,013				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
12	19,050	19,088	-0,025	23,858	-0,013				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
14	22,225	22,263	-0,025	27,038	-0,013				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
16	25,400	25,438	-0,025	30,221	-0,013				6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
18	28,575	28,613	-0,025	33,396	-0,013						7,95	8,74	9,53	11,13	12,70	14,30	15,88	17,48	
20	31,750	31,788	-0,025	36,571	-0,013								9,53	11,13	12,70	14,30	15,88	17,48	
22	34,925	34,963	-0,025	39,746	-0,013								9,53	11,13	12,70	14,30	15,88	17,48	
24	38,100	38,138	-0,025	44,508	-0,013								9,53	11,13	12,70	14,30	15,88	17,48	
26	41,275	41,313	-0,025	47,683	-0,013										12,70	14,30	15,88	17,48	
28	44,450	44,488	-0,025	50,858	-0,013										12,70	14,30	15,88	17,48	
32	50,800	50,838	-0,025	57,208	-0,013										12,70	14,30	15,88	17,48	



## Designation

EN4536-2 04 T 007

EN4536-2	04	T	007
			<b>Length Code</b>
			<b>Surface Treatment</b>
			No Code: Non
			T: Passivated
			<b>Diameter Code</b>
			<b>Number of EN Standard</b>
			Material: EN3161 / 1.4545 / 17-4PH H1150
			Liner: FRASLIP F per EN2311 / SAE AS81934
			Technical Specification: EN2311 / SAE AS81934

## EN4536

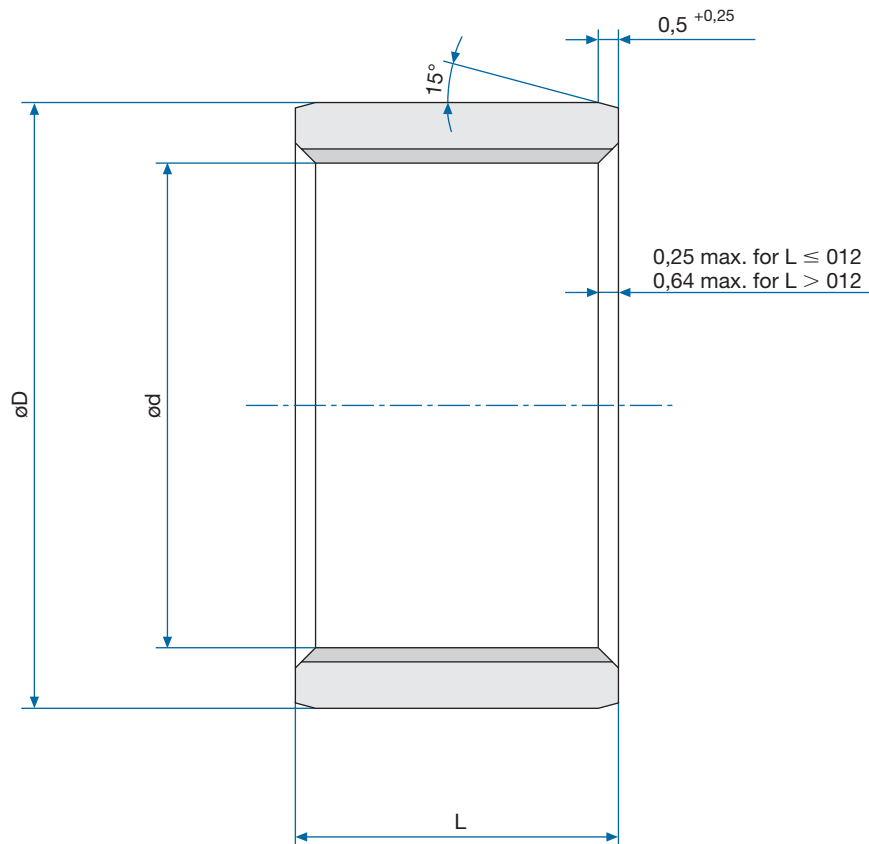
- > Self Lubricating
- > CRES
- > Cylindrical Type
- > According to Specification EN2311 / SAE AS81934

### Static Limit Load $C_s$ :

$$C_s = 0,541 \cdot d \cdot (L-2) \text{ [kN]}$$

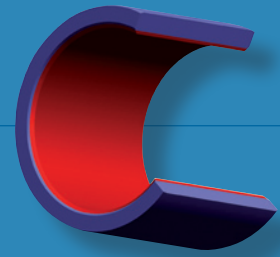
Length L -0,25																	Diameter Code
024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096	
																	04
																	05
19,05																	06
19,05	22,23																07
19,05	22,23																08
19,05	22,23																09
19,05	22,23	25,40	28,58	31,75	34,93												10
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										11
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										12
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63								14
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80							16
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						18
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						20
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						22
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85		24
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	26
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	28
19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	32

### Schematic drawing

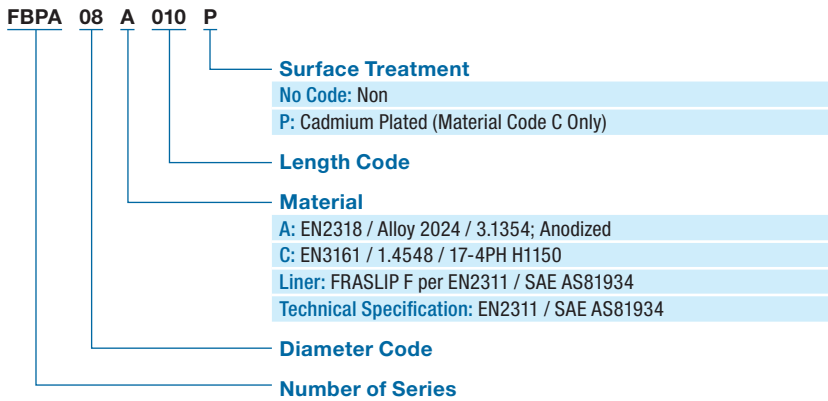


### Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ Code C [mm]	$\Delta_{Dmp}$ Code A [mm]	Length L											
							-0,127 -0,381											
							005	006	007	008	009	010	011	012	014	016	018	020
04	6,350	6,388	-0,025	9,55	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
05	7,937	7,975	-0,025	11,14	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
06	9,525	9,563	-0,025	12,73	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
07	11,112	11,150	-0,025	14,32	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
08	12,70	12,738	-0,025	15,913	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
09	14,287	14,325	-0,025	17,505	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
10	15,875	15,913	-0,025	20,68	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
11	17,462	17,500	-0,025	22,268	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
12	19,05	19,088	-0,025	23,858	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
14	22,225	22,263	-0,025	27,038	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
16	25,40	25,438	-0,025	30,221	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
18	28,575	28,613	-0,025	33,396	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
20	31,75	31,788	-0,025	36,571	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
22	34,925	34,963	-0,025	39,746	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
24	38,10	38,138	-0,025	44,508	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
26	41,275	41,313	-0,025	47,683	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
28	44,45	44,488	-0,025	50,858	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875
32	50,80	50,838	-0,025	57,208	-0,012	$\pm 0,012$	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287	15,875



### Designation



**FBPA...A...**

**FBPA...C...**

- > Self Lubricating
- > Aluminum
- > CRES
- > Cylindrical Type
- > According to Specification EN2311 / SAE AS81934

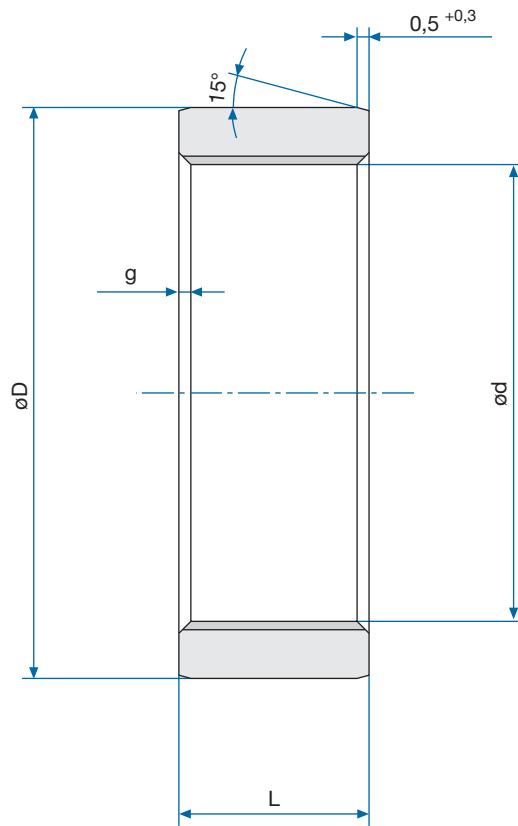
#### Static Limit Loads $C_s$ :

Material Code A:  $C_s = 0,345 \cdot d \cdot (L - 2,54)$  [kN]

Material Code C:  $C_s = 0,541 \cdot d \cdot (L - 2,54)$  [kN]

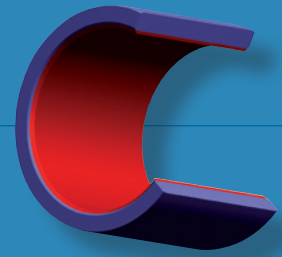
Length L -0,127 -0,381																Diameter Code		
022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096	
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>04</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>05</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>06</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>07</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>08</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>09</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>10</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>11</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>12</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>14</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>16</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>18</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>20</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>22</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>24</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>26</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>28</b>
17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>32</b>

Schematic drawing



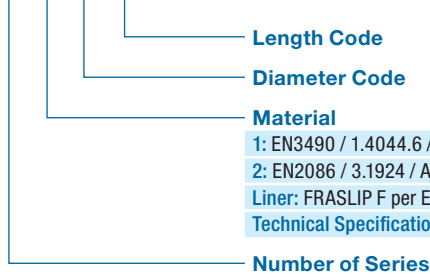
Specifications

Diameter Code	Nominal Code [mm]	d [mm]	D [mm]	g x 45° [mm]	Length L -0,127 -0,381							
					05	06	08	10	12	14	16	20
04	6,35	6,358 to 6,380	9,538 to 9,550	0,25	3,97	4,76	6,35	7,94	9,52	11,11	12,70	
05	7,94	7,950 to 7,973	11,128 to 11,140	0,25	3,97	4,76	6,35	7,94	9,52	11,11	12,70	15,87
06	9,52	9,540 to 9,563	12,715 to 12,730	0,25		4,76	6,35	7,94	9,52	11,11	12,70	15,87
08	12,70	12,715 to 12,741	17,483 to 17,496	0,25		4,76	6,35	7,94	9,52	11,11	12,70	15,87
10	15,87	15,893 to 15,918	20,660 to 20,673	0,25		4,76	6,35	7,94	9,52	11,11	12,70	15,87
12	19,05	19,070 to 19,101	23,835 to 23,848	0,25			6,35	7,94	9,52	11,11	12,70	15,87
14	22,22	22,248 to 22,278	27,013 to 27,026	0,51			6,35	7,94	9,52	11,11	12,70	15,87
16	25,40	25,425 to 25,456	30,188 to 30,201	0,51			6,35	7,94	9,52	11,11	12,70	15,87
18	28,57	28,608 to 28,649	33,368 to 33,383	0,51			6,35	7,94	9,52	11,11	12,70	15,87
20	31,75	31,780 to 31,821	38,133 to 38,148	0,51					9,52	11,11	12,70	15,87
22	34,92	34,958 to 34,999	41,308 to 41,323	0,51					9,52	11,11	12,70	15,87
24	38,10	38,133 to 38,174	44,483 to 44,498	0,51					9,52	11,11	12,70	15,87
28	44,45	44,493 to 44,534	50,841 to 50,858	0,51					9,52	11,11	12,70	15,87
32	50,80	50,843 to 50,889	57,191 to 57,208	0,51							12,70	15,87



### Designation

FBPA 2 - 08 10



1: EN3490 / 1.4044.6 / AISI431
2: EN2086 / 3.1924 / Alloy 2618A; Anodized
Liner: FRASLIP F per EN2311 / SAE AS81934
Technical Specification: MIL-B-8943

## FBPA1

## FBPA2

- > Self Lubricating
- > Aluminum
- > CRES
- > Cylindrical Type

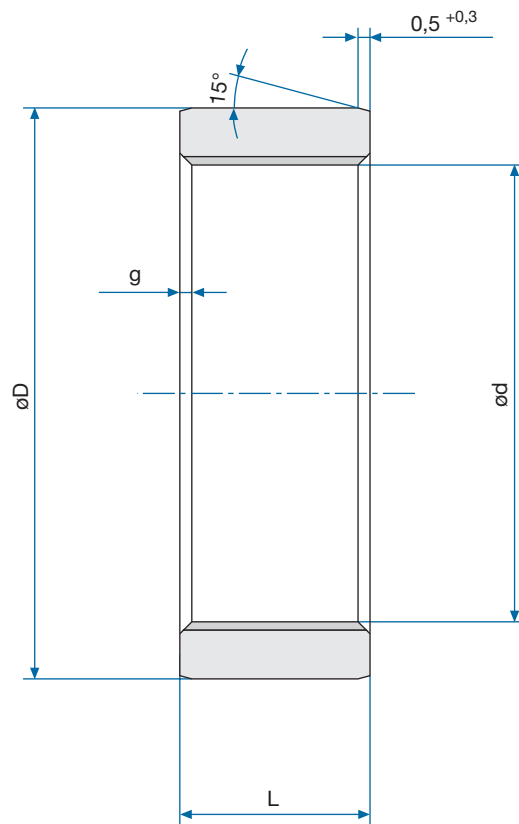
#### Static Limit Loads:

FBPA1:  $C_s = 0,541 \cdot d \cdot (L-2,54)$  [kN]

FBPA2:  $C_s = 0,354 \cdot d \cdot (L-2,54)$  [kN]

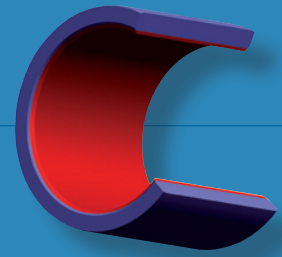
Length L -0,127 -0,381								Diameter Code
24	28	32	40	48	64	80	96	
								04
								05
								06
19,05	22,22							08
19,05	22,22	25,40						10
19,05	22,22	25,40	31,75					12
19,05	22,22	25,40	31,75					14
19,05	22,22	25,40	31,75	38,10				16
19,05	22,22	25,40	31,75	38,10	50,80			18
19,05	22,22	25,40	31,75	38,10	50,80			20
19,05	22,22	25,40	31,75	38,10	50,80	63,50		22
19,05	22,22	25,40	31,75	38,10	50,80	63,50	76,20	24
19,05	22,22	25,40	31,75	38,10	50,80	63,50	76,20	28
19,05	22,22	25,40	31,75	38,10	50,80	63,50	76,20	32

## Schematic drawing



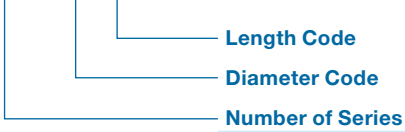
## Specifications

Diameter Code	Nominal Code [mm]	d [mm]	D [mm]	g x 45° [mm]	Length L -0,127 -0,381							
					05	06	08	10	12	14	16	20
04	6,35	6,358 to 6,380	9,538 to 9,550	0,25	3,97	4,76	6,35	7,94	9,52	11,11	12,70	
05	7,94	7,950 to 7,973	11,128 to 11,140	0,25	3,97	4,76	6,35	7,94	9,52	11,11	12,70	15,87
06	9,52	9,540 to 9,563	12,715 to 12,730	0,25		4,76	6,35	7,94	9,52	11,11	12,70	15,87
08	12,70	12,715 to 12,741	17,483 to 17,496	0,25		4,76	6,35	7,94	9,52	11,11	12,70	15,87
10	15,87	15,893 to 15,918	20,660 to 20,673	0,25		4,76	6,35	7,94	9,52	11,11	12,70	15,87
12	19,05	19,070 to 19,101	23,835 to 23,848	0,25			6,35	7,94	9,52	11,11	12,70	15,87
14	22,22	22,248 to 22,278	27,013 to 27,026	0,51			6,35	7,94	9,52	11,11	12,70	15,87
16	25,40	25,425 to 25,456	30,188 to 30,201	0,51			6,35	7,94	9,52	11,11	12,70	15,87
18	28,57	28,608 to 28,649	33,368 to 33,383	0,51			6,35	7,94	9,52	11,11	12,70	15,87
20	31,75	31,780 to 31,821	38,133 to 38,148	0,51					9,52	11,11	12,70	15,87
22	34,92	34,958 to 34,999	41,308 to 41,323	0,51					9,52	11,11	12,70	15,87
24	38,10	38,133 to 38,174	44,483 to 44,498	0,51					9,52	11,11	12,70	15,87
28	44,45	44,493 to 44,534	50,841 to 50,858	0,51					9,52	11,11	12,70	15,87
32	50,80	50,843 to 50,889	57,191 to 57,208	0,51							12,70	15,87



### Designation

NSA8145 - 08 10



Length Code

Diameter Code

Number of Series

NSA8145: EN3490 / 1.4044.6 / AISI 431
NSA8146: EN2086 / 3.1924 / Alloy 2618A; Anodized
Liner: FRASLIP F per EN2311 / SAE AS81934
Technical Specification: MIL-B-8943

## NSA8145

## NSA8146

- > Self Lubricating
- > Aluminum
- > CRES
- > Cylindrical Type

#### Static Limit Loads:

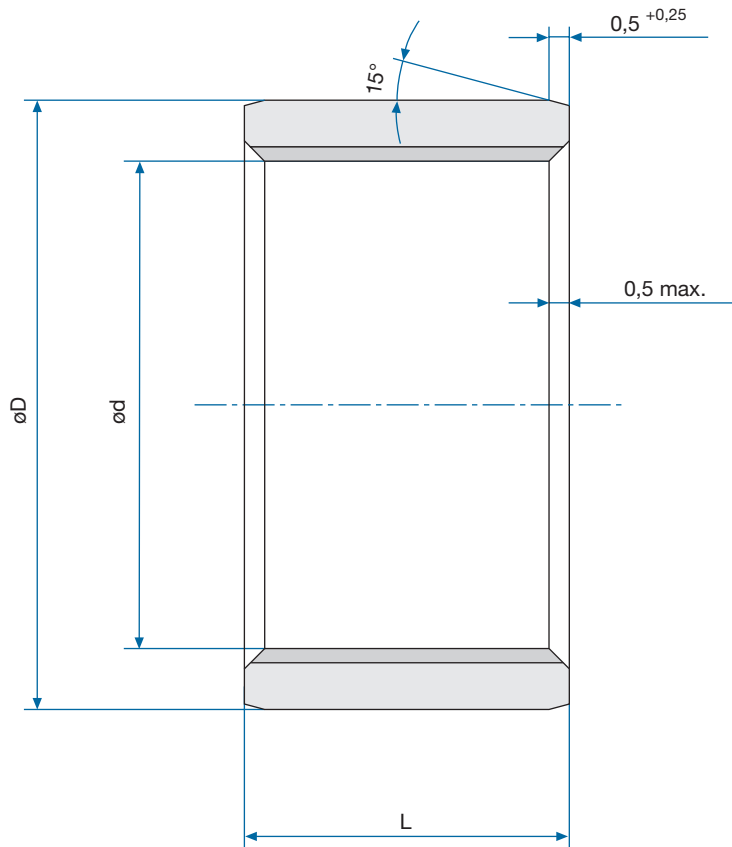
NSA8145:  $C_s = 0,541 \cdot d \cdot (L - 2,54)$  [kN]

NSA8146:  $C_s = 0,259 \cdot d \cdot (L - 2,54)$  [kN]

Length L -0,127 -0,381								Diameter Code
24	28	32	40	48	64	80	96	
								04
								05
								06
19,05	22,22							08
19,05	22,22	25,40						10
19,05	22,22	25,40	31,75					12
19,05	22,22	25,40	31,75					14
19,05	22,22	25,40	31,75	38,10				16
19,05	22,22	25,40	31,75	38,10	50,80			18
19,05	22,22	25,40	31,75	38,10	50,80			20
19,05	22,22	25,40	31,75	38,10	50,80	63,50		22
19,05	22,22	25,40	31,75	38,10	50,80	63,50	76,20	24
19,05	22,22	25,40	31,75	38,10	50,80	63,50	76,20	28
19,05	22,22	25,40	31,75	38,10	50,80	63,50	76,20	32

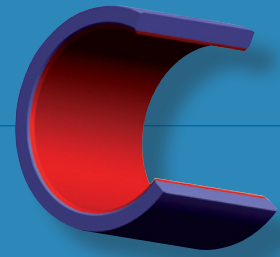


Schematic drawing



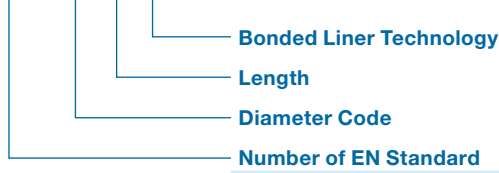
Specifications

Diameter Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	Length L $-0,1$ $-0,4$								
					06	08	10	12	15	16	18	20	
06	6,0	+0,004 to +0,022	10,0	+0,015 to +0,024	6,0								
08	8,0	+0,005 to +0,027	12,0	+0,018 to +0,029	6,0	8,0							
10	10,0	+0,005 to +0,027	14,0	+0,018 to +0,029	6,0	8,0	10,0						
12	12,0	+0,006 to +0,033	16,0	+0,018 to +0,029	6,0	8,0	10,0	12,0					
15	15,0	+0,006 to +0,033	19,0	+0,022 to +0,035		8,0	10,0	12,0	15,0	16,0			
16	16,0	+0,006 to +0,033	20,0	+0,022 to +0,035		8,0	10,0	12,0	15,0	16,0	18,0		
18	18,0	+0,006 to +0,033	22,0	+0,022 to +0,035			10,0	12,0	15,0	16,0	18,0	20,0	
20	20,0	+0,007 to +0,040	25,0	+0,022 to +0,035			10,0	12,0	15,0	16,0	18,0	20,0	
22	22,0	+0,007 to +0,040	26,0	+0,022 to +0,035				12,0	15,0	16,0	18,0	20,0	
25	25,0	+0,007 to +0,040	30,0	+0,022 to +0,035				12,0	15,0	16,0	18,0	20,0	
28	28,0	+0,007 to +0,040	34,0	+0,026 to +0,046					15,0	16,0	18,0	20,0	
30	30,0	+0,007 to +0,040	36,0	+0,026 to +0,046					15,0	16,0	18,0	20,0	
32	32,0	+0,009 to +0,048	38,0	+0,026 to +0,046					15,0	16,0	18,0	20,0	
35	35,0	+0,009 to +0,048	42,0	+0,026 to +0,046						16,0	18,0	20,0	
36	36,0	+0,009 to +0,048	43,0	+0,026 to +0,046							18,0	20,0	
38	38,0	+0,009 to +0,048	45,0	+0,026 to +0,046								20,0	
40	40,0	+0,009 to +0,048	48,0	+0,026 to +0,046									20,0
45	45,0	+0,009 to +0,048	52,0	+0,032 to +0,051									
50	50,0	+0,009 to +0,048	58,0	+0,032 to +0,051									



## Designation

EN2285 - 12 08 A



**Material:** EN2086 / 3.1924 / Alloy 2618A; Anodized  
**Liner:** FRASLIP F per EN2311 / SAE AS81934  
**Technical Specification:** EN2311 / SAE AS81934

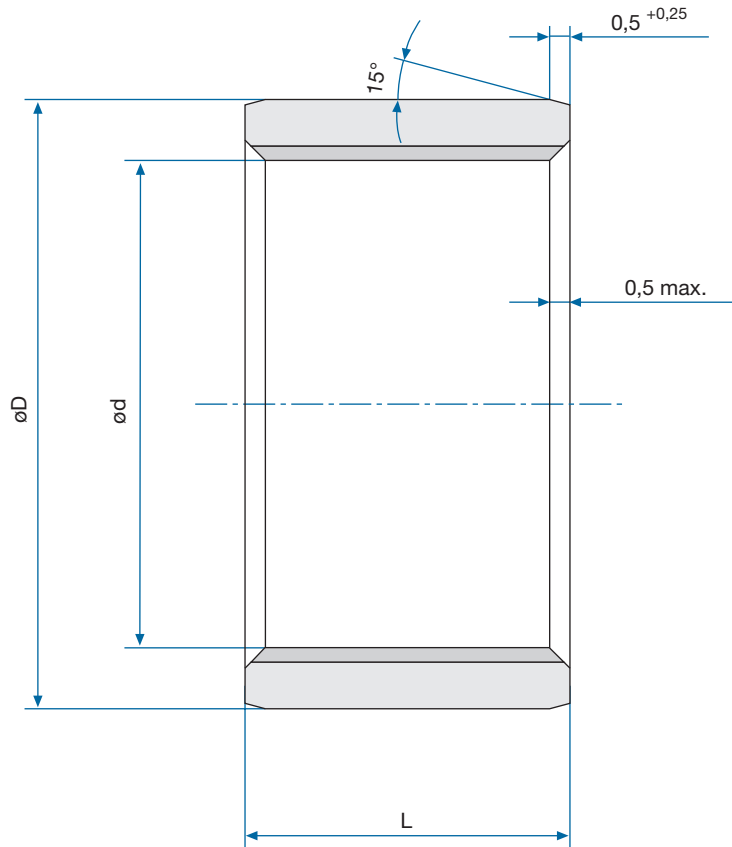
## EN2285

- > Self Lubricating
- > Aluminum
- > Cylindrical Type
- > According to Specification EN2311 / SAE AS81934

Static Limit Load:  $C_s = 0,206 \cdot d \cdot (L-2)$  [kN]

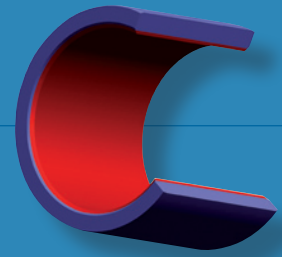
Length L -0,1 -0,4											Diameter Code
22	25	28	30	32	35	36	38	40	45	50	
											06
											08
											10
											12
											15
											16
											18
22,0											20
22,0											22
22,0	25,0										25
22,0	25,0	28,0									28
22,0	25,0	28,0	30,0								30
22,0	25,0	28,0	30,0	32,0							32
22,0	25,0	28,0	30,0	32,0	35,0						35
22,0	25,0	28,0	30,0	32,0	35,0	36,0					36
22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0				38
22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0			40
22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0	45,0		45
	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0	45,0	50,00	50

Schematic drawing



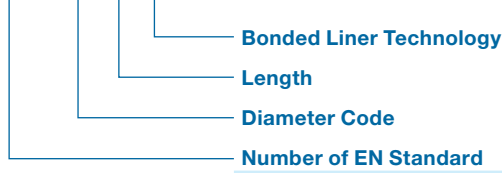
Specifications

Diameter Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	Length L -0,1 -0,4								
					06	08	10	12	15	16	18	20	
06	6,0	+0,004 to +0,022	10,0	+0,015 to +0,024	6,0								
08	8,0	+0,005 to +0,027	12,0	+0,018 to +0,029	6,0	8,0							
10	10,0	+0,005 to +0,027	14,0	+0,018 to +0,029	6,0	8,0	10,0						
12	12,0	+0,006 to +0,033	16,0	+0,018 to +0,029	6,0	8,0	10,0	12,0					
15	15,0	+0,006 to +0,033	19,0	+0,022 to +0,035		8,0	10,0	12,0	15,0	16,0			
16	16,0	+0,006 to +0,033	20,0	+0,022 to +0,035		8,0	10,0	12,0	15,0	16,0	18,0		
18	18,0	+0,006 to +0,033	22,0	+0,022 to +0,035			10,0	12,0	15,0	16,0	18,0	20,0	
20	20,0	+0,007 to +0,040	25,0	+0,022 to +0,035			10,0	12,0	15,0	16,0	18,0	20,0	
22	22,0	+0,007 to +0,040	26,0	+0,022 to +0,035				12,0	15,0	16,0	18,0	20,0	
25	25,0	+0,007 to +0,040	30,0	+0,022 to +0,035				12,0	15,0	16,0	18,0	20,0	
28	28,0	+0,007 to +0,040	34,0	+0,026 to +0,046					15,0	16,0	18,0	20,0	
30	30,0	+0,007 to +0,040	36,0	+0,026 to +0,046					15,0	16,0	18,0	20,0	
32	32,0	+0,009 to +0,048	38,0	+0,026 to +0,046					15,0	16,0	18,0	20,0	
35	35,0	+0,009 to +0,048	42,0	+0,026 to +0,046						16,0	18,0	20,0	
36	36,0	+0,009 to +0,048	43,0	+0,026 to +0,046							18,0	20,0	
38	38,0	+0,009 to +0,048	45,0	+0,026 to +0,046								20,0	
40	40,0	+0,009 to +0,048	48,0	+0,026 to +0,046									20,0
45	45,0	+0,009 to +0,048	52,0	+0,032 to +0,051									
50	50,0	+0,009 to +0,048	58,0	+0,032 to +0,051									



## Designation

EN2287 - 12 08 A



Material: EN3490 / 1.4044.6 / AISI 431
Liner: FRASLIP F per EN2311 / SAE AS81934
Technical Specification: EN2311 / SAE AS81934

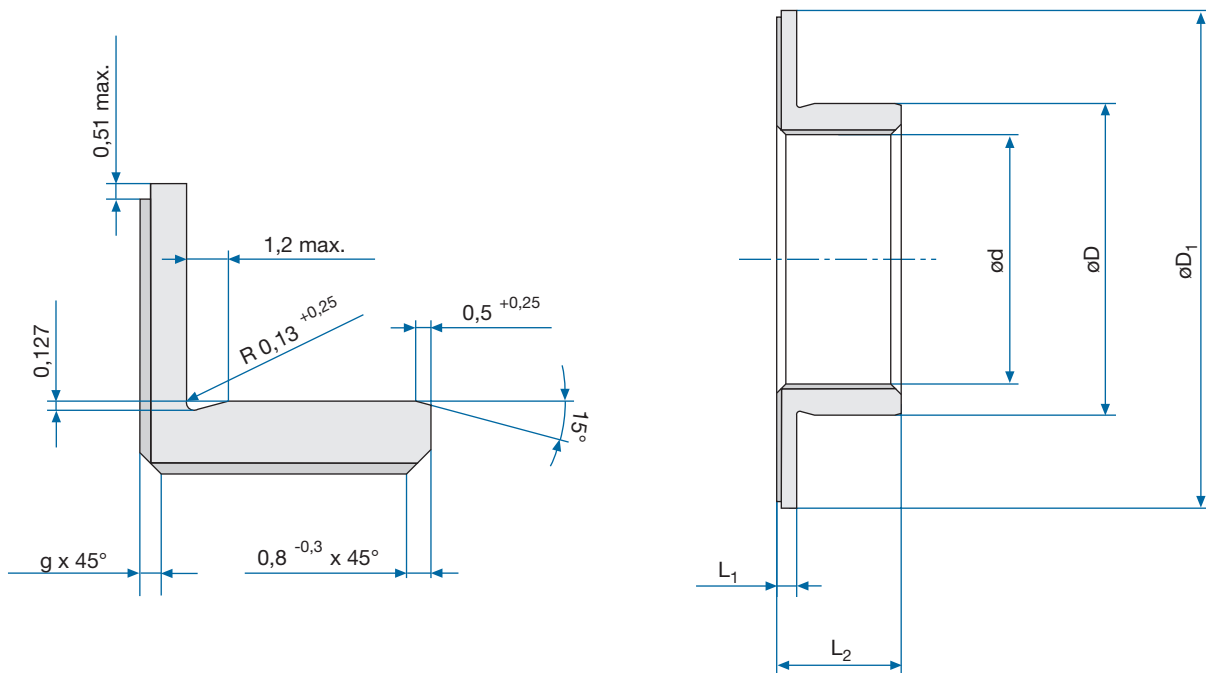
## EN2287

- > Self Lubricating
- > CRES
- > Cylindrical Type
- > According to Specification EN2311 / SAE AS81934

Static Limit Load:  $C_s = 0,43 \cdot d \cdot (L-2)$  [kN]

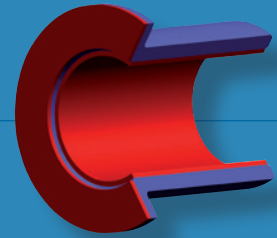
Length L -0,1 -0,4											Diameter Code
22	25	28	30	32	35	36	38	40	45	50	
											06
											08
											10
											12
											15
											16
											18
22,0											20
22,0											22
22,0	25,0										25
22,0	25,0	28,0									28
22,0	25,0	28,0	30,0								30
22,0	25,0	28,0	30,0	32,0							32
22,0	25,0	28,0	30,0	32,0	35,0						35
22,0	25,0	28,0	30,0	32,0	35,0	36,0					36
22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0				38
22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0			40
22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0	45,0		45
	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0	45,0	50,00	50

Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,51 [mm]	g [mm]	Length $L_2$ -0,10 -0,40									
									006	007	008	009	010	011	012	014	016	018
04	6,350	6,388	-0,025	9,550	$\pm 0,013$	1,60	19,05	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	
05	7,938	7,976	-0,025	11,140	$\pm 0,013$	1,60	20,64	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
06	9,525	9,563	-0,025	12,730	$\pm 0,013$	1,60	22,23	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
07	11,113	11,151	-0,025	14,321	$\pm 0,013$	1,60	23,83	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
08	12,700	12,738	-0,025	15,913	$\pm 0,013$	1,60	25,40	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
09	14,288	14,326	-0,025	17,506	$\pm 0,013$	1,60	28,58	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
10	15,875	15,913	-0,025	20,681	$\pm 0,013$	1,60	31,75	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
11	17,463	17,501	-0,025	22,268	$\pm 0,013$	1,60	34,93	0,71			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
12	19,050	19,088	-0,025	23,858	$\pm 0,013$	1,60	38,10	0,71			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
14	22,225	22,263	-0,025	27,038	$\pm 0,013$	1,60	41,28	0,99			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
16	25,400	25,438	-0,025	30,221	$\pm 0,013$	1,60	44,45	0,99			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
18	28,575	28,613	-0,025	33,396	$\pm 0,013$	2,39	47,63	0,99				7,95	8,74	9,53	11,13	12,70	14,30	
20	31,750	31,788	-0,025	36,571	$\pm 0,013$	2,39	50,80	0,99							9,53	11,13	12,70	14,30
22	34,925	34,963	-0,025	39,746	$\pm 0,013$	2,39	53,98	0,99							9,53	11,13	12,70	14,30
24	38,100	38,138	-0,025	44,508	$\pm 0,013$	2,39	57,15	0,99							9,53	11,13	12,70	14,30
26	41,275	41,313	-0,025	47,683	$\pm 0,013$	2,39	60,33	0,99									12,70	14,30
28	44,450	44,488	-0,025	50,858	$\pm 0,013$	2,39	63,50	0,99									12,70	14,30
32	50,800	50,838	-0,025	57,208	$\pm 0,013$	2,39	69,85	0,99									12,70	14,30



## Designation

**ABS2042A 04 D 006**



**Length Code**

**Diameter Code**

**Number of ABS Standard**

**Material:** EN2318 / 3.1354 T3511 / Alloy 2024; Anodized

**Liner:** FRASLIP F per EN2311 / SAE AS81934

**Technical Specification:** ABS2045

## ABS2042...D

- > Self Lubricating
- > CRES
- > Flanged Type
- > For Titanium Shafts
- > According to Specification  
ABS2045 / EN2311

### Static Radial Limit Loads $C_s$ :

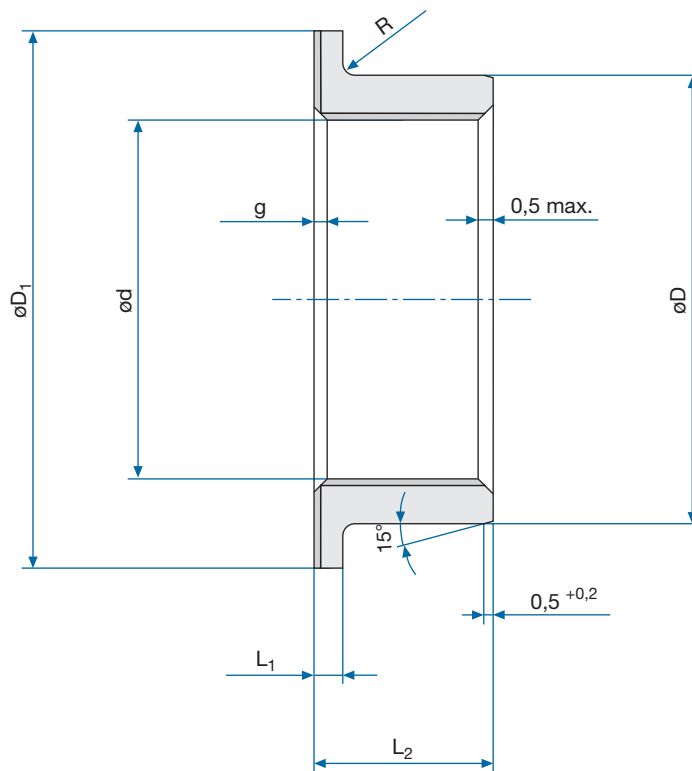
$$C_s = 0,29 \cdot d \cdot (L_2 - L_1 - 2) \text{ [kN]}$$

### Static Axial Limit Loads $C_a$ :

$$C_a = 0,16 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2] \text{ [kN]}$$

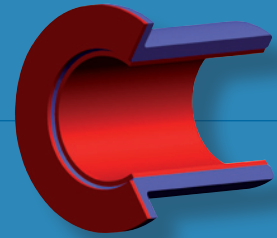
Length $L_2$ -0,10 -0,40																				Diameter Code
020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096		
15,88																				<b>04</b>
15,88	17,48	19,05																		<b>05</b>
15,88	17,48	19,05	22,23																	<b>06</b>
15,88	17,48	19,05	22,23																	<b>07</b>
15,88	17,48	19,05	22,23																	<b>08</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93													<b>09</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											<b>10</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											<b>11</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63									<b>12</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80								<b>14</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							<b>16</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							<b>18</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							<b>20</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							<b>22</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85			<b>24</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		<b>26</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		<b>28</b>
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		<b>32</b>

Schematic drawing



Specifications

Diameter Code	Nominal Code	d	$\Delta_{dmp}$	D	$\Delta_{Dmp}$	$L_1$	$D_1$	g	R	Length $L_2$								
										-0,13	-0,51	g	$\pm 0,13$	006	007	008	009	010
04	6,350	6,388	-0,025	9,550	$\pm 0,013$	1,60	12,70	0,71	0,25	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70
05	7,938	7,976	-0,025	11,140	$\pm 0,013$	1,60	14,30	0,71	0,48	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70
06	9,525	9,563	-0,025	12,730	$\pm 0,013$	1,60	15,88	0,71	0,65	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70
07	11,113	11,151	-0,025	14,321	$\pm 0,013$	1,60	19,15	0,71	0,65	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70
08	12,700	12,738	-0,025	15,913	$\pm 0,013$	1,60	22,23	0,71	0,65	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,11	12,70
10	15,875	15,913	-0,025	20,681	$\pm 0,013$	1,60	25,40	0,71	0,65	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70
11	17,463	17,501	-0,025	22,268	$\pm 0,013$	1,60	27,00	0,71	0,65			6,35	7,14	7,95	8,74	9,53	11,13	12,70
12	19,050	19,088	-0,025	23,858	$\pm 0,013$	1,60	28,58	0,71	0,65			6,35	7,14	7,95	8,74	9,53	11,13	12,70
14	22,225	22,263	-0,025	27,038	$\pm 0,013$	1,60	31,75	0,99	0,65			6,35	7,14	7,95	8,74	9,53	11,13	12,70
16	25,400	25,438	-0,025	30,221	$\pm 0,013$	1,60	34,93	0,99	0,65			6,35	7,14	7,95	8,74	9,53	11,13	12,70
18	28,575	28,613	-0,025	33,396	$\pm 0,013$	2,39	41,28	0,99	0,65					7,95	8,74	9,53	11,13	12,70
20	31,750	31,788	-0,025	36,571	$\pm 0,013$	2,39	44,45	0,99	0,65							9,53	11,13	12,70
22	34,925	34,963	-0,025	39,746	$\pm 0,013$	2,39	47,63	0,99	0,65							9,53	11,13	12,70
24	38,100	38,138	-0,025	44,508	$\pm 0,013$	2,39	50,80	0,99	0,65							9,53	11,13	12,70
28	44,450	44,488	-0,025	50,858	$\pm 0,013$	2,39	57,15	0,99	0,65									12,70
32	50,800	50,838	-0,025	57,208	$\pm 0,013$	2,39	63,50	0,99	0,65									12,70



## Designation

**ABS2042A 04 F 006**



Length Code

Diameter Code

Number of ABS Standard

Material: EN2318 / 3.1354 T3511 / Alloy 2024; Anodized

Liner: FRASLIP F per EN2311 / SAE AS81934

Technical Specification: ABS2045

## ABS2042...F

- > Self Lubricating
- > CRES
- > Flanged Type
- > For Titanium Shafts
- > According to Specification ABS2045 / EN2311

### Static Radial Limit Loads $C_s$ :

$$C_s = 0,29 \cdot d \cdot (L_2 - L_1 - 2) \text{ [kN]}$$

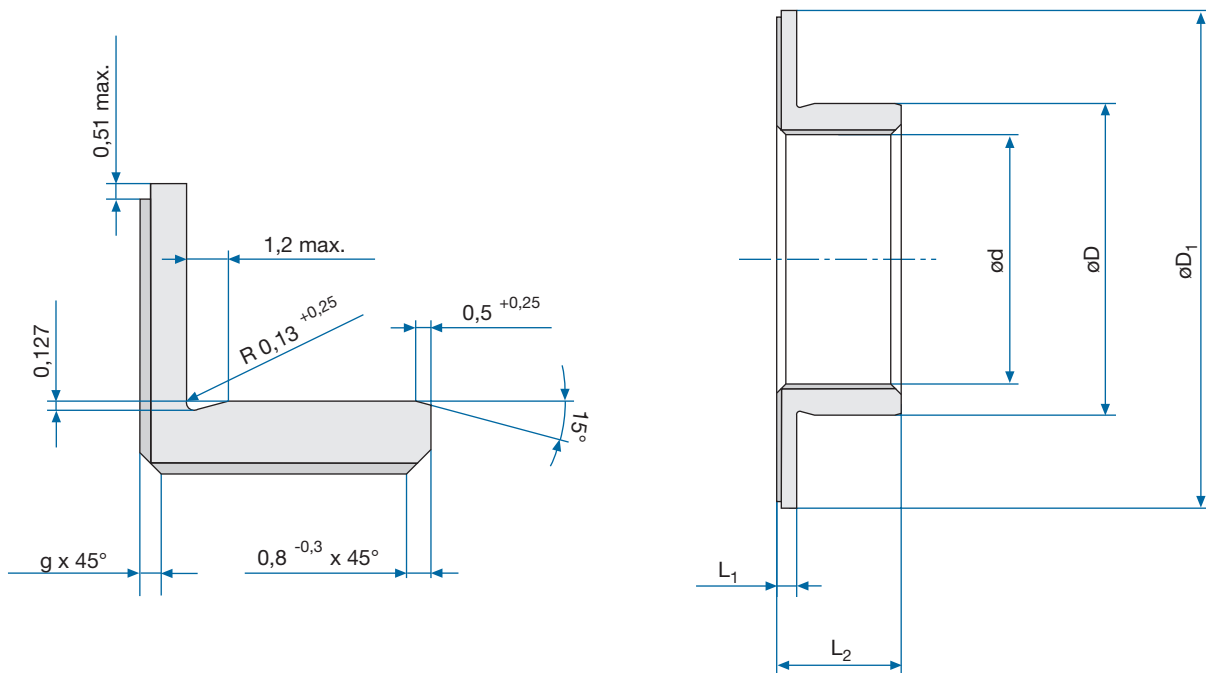
### Static Axial Limit Loads $C_a$ :

$$C_a = 0,16 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2] \text{ [kN]}$$

Length $L_2$ -0,10 -0,40																				Diameter Code
018	020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096	
																				<b>04</b>
14,30	15,88																			<b>05</b>
14,30	15,88	17,48	19,05																	<b>06</b>
14,30	15,88	17,48	19,05	22,23																<b>07</b>
14,30	15,88	17,48	19,05	22,23																<b>08</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75													<b>10</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93												<b>11</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10											<b>12</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										<b>14</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63								<b>16</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80							<b>18</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						<b>20</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						<b>22</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85		<b>24</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	<b>28</b>
14,30	15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	<b>32</b>

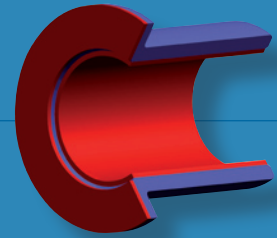


Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,51 [mm]	g [mm]	Length $L_2$ -0,10 -0,40									
									006	007	008	009	010	011	012	014	016	018
04	6,350	6,388	-0,025	9,550	-0,013	1,60	19,05	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
05	7,938	7,976	-0,025	11,140	-0,013	1,60	20,64	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
06	9,525	9,563	-0,025	12,730	-0,013	1,60	22,23	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
07	11,113	11,151	-0,025	14,321	-0,013	1,60	23,83	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
08	12,700	12,738	-0,025	15,913	-0,013	1,60	25,40	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
09	14,288	14,326	-0,025	17,506	-0,013	1,60	28,58	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
10	15,875	15,913	-0,025	20,681	-0,013	1,60	31,75	0,71	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
11	17,463	17,501	-0,025	22,268	-0,013	1,60	34,93	0,71			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
12	19,050	19,088	-0,025	23,858	-0,013	1,60	38,10	0,71			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
14	22,225	22,263	-0,025	27,038	-0,013	1,60	41,28	0,99			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
16	25,400	25,438	-0,025	30,221	-0,013	1,60	44,45	0,99			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
18	28,575	28,613	-0,025	33,396	-0,013	2,39	47,63	0,99				7,95	8,74	9,53	11,13	12,70	14,30	
20	31,750	31,788	-0,025	36,571	-0,013	2,39	50,80	0,99							9,53	11,13	12,70	14,30
22	34,925	34,963	-0,025	39,746	-0,013	2,39	53,98	0,99							9,53	11,13	12,70	14,30
24	38,100	38,138	-0,025	44,508	-0,013	2,39	57,15	0,99							9,53	11,13	12,70	14,30
26	41,275	41,313	-0,025	47,683	-0,013	2,39	60,33	0,99									12,70	14,30
28	44,450	44,488	-0,025	50,858	-0,013	2,39	63,50	0,99									12,70	14,30
32	50,800	50,838	-0,025	57,208	-0,013	2,39	69,85	0,99									12,70	14,30



## Designation

**ABS2044A 04 D 006**



Length Code

Diameter Code

Number of ABS Standard

Material: EN3161 / 1.4545 / 17-4PH H1150

Liner: FRASLIP F per EN2311 / SAE AS81934

Technical Specification: ABS2045

## ABS2044...D

- > Self Lubricating
- > CRES
- > Flanged Type
- > According to Specification ABS2045 / EN2311

### Static Radial Limit Loads $C_s$ :

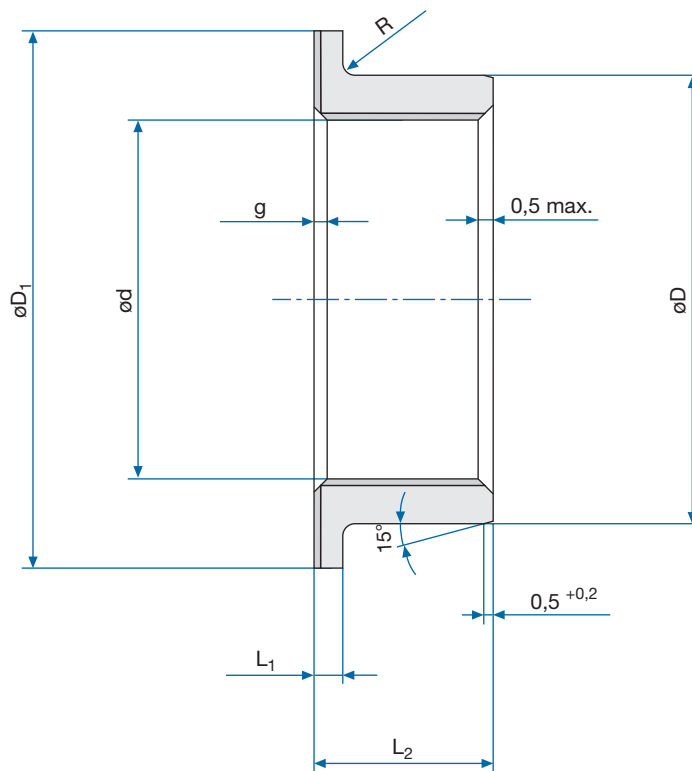
$$C_s = 0,541 \cdot d \cdot (L_2 - L_1 - 2) \text{ [kN]}$$

### Static Axial Limit Loads $C_a$ :

$$C_a = 0,34 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2] \text{ [kN]}$$

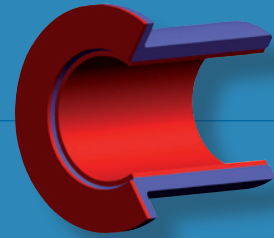
Length $L_2$ -0,10 -0,40																				Diameter Code
020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096		
15,88																				04
15,88	17,48	19,05																		05
15,88	17,48	19,05	22,23																	06
15,88	17,48	19,05	22,23																	07
15,88	17,48	19,05	22,23																	08
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93													09
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											10
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											11
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63									12
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80								14
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							16
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							18
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							20
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							22
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85			24
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		26
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		28
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		32

Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,51 [mm]	g [mm]	R $\pm 0,13$ [mm]	Length $L_2$ -0,10 -0,40									
										006	007	008	009	010	011	012	014	016	018
04	6,350	6,388	-0,025	9,550	-0,013	1,60	12,70	0,71	0,25	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	
05	7,938	7,976	-0,025	11,140	-0,013	1,60	14,30	0,71	0,50	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
06	9,525	9,563	-0,025	12,730	-0,013	1,60	15,88	0,71	0,65	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
07	11,113	11,151	-0,025	14,321	-0,013	1,60	19,15	0,71	0,65	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
08	12,700	12,738	-0,025	15,913	-0,013	1,60	22,23	0,71	0,65	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,11	12,70	14,30
10	15,875	15,913	-0,025	20,681	-0,013	1,60	25,40	0,71	0,65	4,78	5,56	6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
11	17,463	17,501	-0,025	22,268	-0,013	1,60	27,00	0,71	0,65			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
12	19,050	19,088	-0,025	23,858	-0,013	1,60	28,58	0,71	0,65			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
14	22,225	22,263	-0,025	27,038	-0,013	1,60	31,75	0,99	0,65			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
16	25,400	25,438	-0,025	30,221	-0,013	1,60	34,93	0,99	0,65			6,35	7,14	7,95	8,74	9,53	11,13	12,70	14,30
18	28,575	28,613	-0,025	33,396	-0,013	2,39	41,28	0,99	0,65					7,95	8,74	9,53	11,13	12,70	14,30
20	31,750	31,788	-0,025	36,571	-0,013	2,39	44,45	0,99	0,65							9,53	11,13	12,70	14,30
22	34,925	34,963	-0,025	39,746	-0,013	2,39	47,63	0,99	0,65							9,53	11,13	12,70	14,30
24	38,100	38,138	-0,025	44,508	-0,013	2,39	50,80	0,99	0,65							9,53	11,13	12,70	14,30
28	44,450	44,488	-0,025	50,858	-0,013	2,39	57,15	0,99	0,65									12,70	14,30
32	50,800	50,838	-0,025	57,208	-0,013	2,39	63,50	0,99	0,65									12,70	14,30



## Designation

**ABS2044A 04 F 006**



Length Code

Diameter Code

Number of ABS Standard

Material: EN3161 / 1.4545 / 17-4PH H1150

Liner: FRASLIP F per EN2311 / SAE AS81934

Technical Specification: ABS2045

## ABS2044... F

- > Self Lubricating
- > CRES
- > Flanged Type
- > According to Specification ABS2045 / EN2311

### Static Radial Limit Loads $C_s$ :

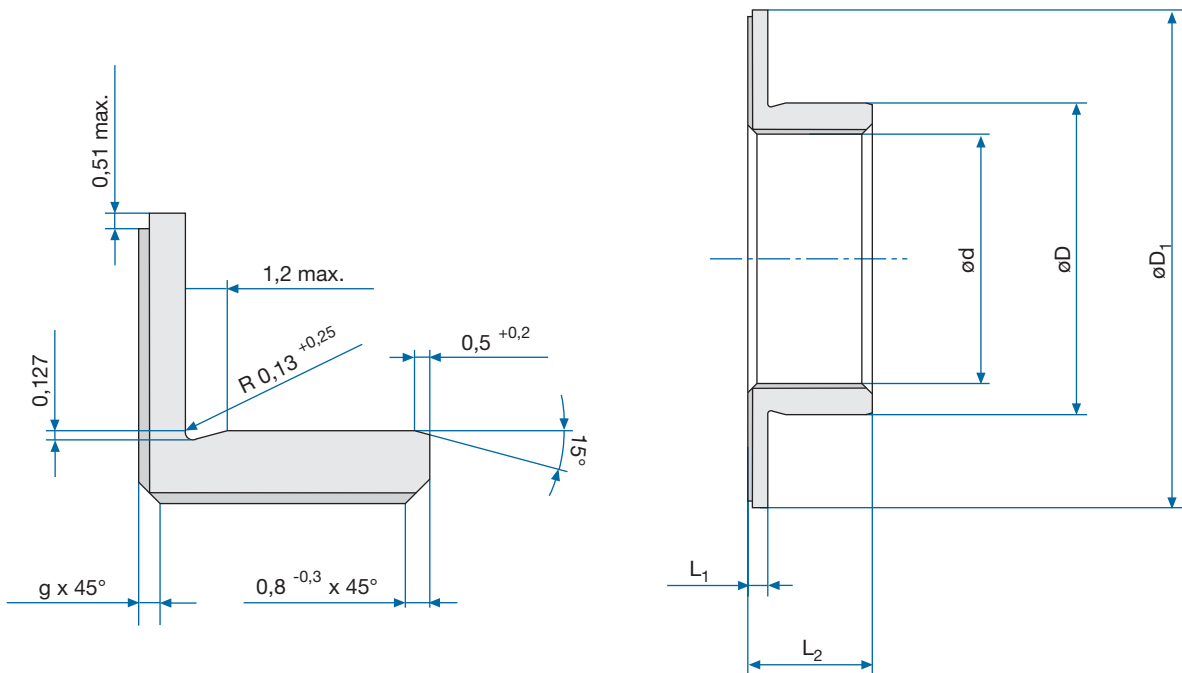
$$C_s = 0,541 \cdot d \cdot (L_2 - L_1 - 2) \text{ [kN]}$$

### Static Axial Limit Loads $C_a$ :

$$C_a = 0,34 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2] \text{ [kN]}$$

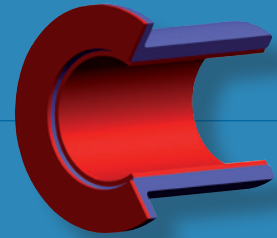
Length $L_2$ -0,10 -0,40																			Diameter Code	
020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096		
15,88																				04
15,88	17,48	19,05																		05
15,88	17,48	19,05	22,23																	06
15,88	17,48	19,05	22,23																	07
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93													08
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											10
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											11
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63									12
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80								14
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							16
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							18
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							20
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							22
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85			24
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		28
15,88	17,48	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		32

Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,51 [mm]	g [mm]	Length $L_2$ -0,10 -0,40									
									006	007	008	009	010	011	012	014	016	018
04	6,350	6,388	-0,025	9,55	$\pm 0,013$	1,60	19,05	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	
05	7,938	7,976	-0,025	11,14	$\pm 0,013$	1,60	20,64	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
06	9,525	9,563	-0,025	12,73	$\pm 0,013$	1,60	22,23	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
07	11,113	11,151	-0,025	14,32	$\pm 0,013$	1,60	23,81	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
08	12,700	12,738	-0,025	15,913	$\pm 0,013$	1,60	25,40	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
09	14,288	14,326	-0,025	17,505	$\pm 0,013$	1,60	28,58	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
10	15,875	15,913	-0,025	20,681	$\pm 0,013$	1,60	31,75	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
11	17,463	17,501	-0,025	22,268	$\pm 0,013$	1,60	34,93	0,70			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
12	19,050	19,088	-0,025	23,858	$\pm 0,013$	1,60	38,10	0,70			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
14	22,225	22,263	-0,025	27,038	$\pm 0,013$	1,60	41,28	1,00			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
16	25,400	25,438	-0,025	30,221	$\pm 0,013$	1,60	44,45	1,00			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
18	28,575	28,613	-0,025	33,396	$\pm 0,013$	2,39	47,63	1,00					7,94	8,73	9,53	11,11	12,70	14,29
20	31,750	31,788	-0,025	36,571	$\pm 0,013$	2,39	50,80	1,00							9,53	11,11	12,70	14,29
22	34,925	34,963	-0,025	39,746	$\pm 0,013$	2,39	53,98	1,00							9,53	11,11	12,70	14,29
24	38,100	38,138	-0,025	44,508	$\pm 0,013$	2,39	57,15	1,00							9,53	11,11	12,70	14,29
26	41,275	41,313	-0,025	47,683	$\pm 0,013$	2,39	60,33	1,00									12,70	14,29
28	44,450	44,488	-0,025	50,858	$\pm 0,013$	2,39	63,50	1,00									12,70	14,29
32	50,800	50,838	-0,025	57,208	$\pm 0,013$	2,39	69,85	1,00									12,70	14,29



## Designation

EN4535-2D 04 R 006

EN4535-2D	04	R	006
			<b>Length Code</b>
			<b>Surface Treatment</b>
			No Code: Non
			R: Anodized
			<b>Diameter Code</b>
			<b>Number of EN Standard</b>
			Material: EN2318 / 3.1354 T3511 / Alloy 2024
			Liner: FRASLIP F per EN2311 / SAE AS81934
			Technical Specification: EN2311 / SAE AS81934

## EN4535 2D

- > Self Lubricating
- > Aluminum
- > Flanged Type
- > According to Specification EN2311 / SAE AS81934

### Static Radial Limit Loads $C_s$ :

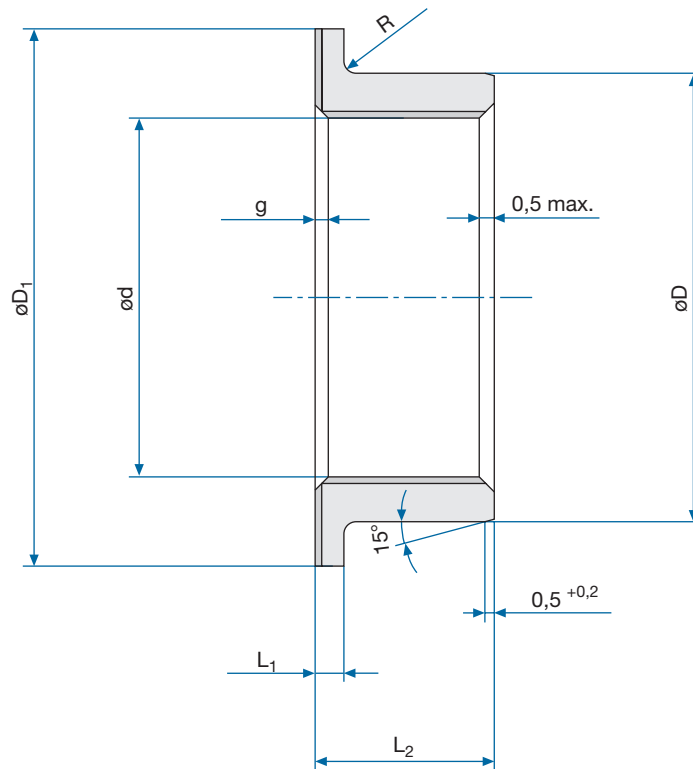
$$C_s = 0,29 \cdot d \cdot (L_2 - L_1 - 2) \text{ [kN]}$$

### Static Axial Limit Loads $C_a$ :

$$C_a = 0,16 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2] \text{ [kN]}$$

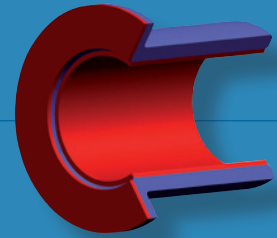
Length $L_2$ -0,10 -0,40																				Diameter Code
020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096		
15,88																				04
15,88	17,46	19,05																		05
15,88	17,46	19,05	22,23																	06
15,88	17,46	19,05	22,23																	07
15,88	17,46	19,05	22,23	25,40	28,58															08
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93													09
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											10
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											11
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											12
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63									14
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80								16
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							18
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							20
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							22
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85			24
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		26
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		28
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		32

Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,51 [mm]	g [mm]	R $\pm 0,13$ [mm]	Length $L_2$ -0,10 -0,40									
										006	007	008	009	010	011	012	014	016	018
04	6,350	6,388	-0,025	9,550	$\pm 0,013$	1,60	12,70	0,70	0,25	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	
05	7,938	7,976	-0,025	11,140	$\pm 0,013$	1,60	14,29	0,70	0,50	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
06	9,525	9,563	-0,025	12,730	$\pm 0,013$	1,60	15,88	0,70	0,65	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
07	11,113	11,151	-0,025	14,321	$\pm 0,013$	1,60	19,05	0,70	0,65	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
08	12,700	12,738	-0,025	15,913	$\pm 0,013$	1,60	22,23	0,70	0,65	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
10	15,875	15,913	-0,025	20,681	$\pm 0,013$	1,60	25,40	0,70	0,65	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
11	17,463	17,501	-0,025	22,268	$\pm 0,013$	1,60	26,99	0,70	0,65			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
12	19,050	19,088	-0,025	23,858	$\pm 0,013$	1,60	28,58	0,70	0,65			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
14	22,225	22,263	-0,025	27,038	$\pm 0,013$	1,60	31,75	1,00	0,65			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
16	25,400	25,438	-0,025	30,221	$\pm 0,013$	1,60	34,93	1,00	0,65			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
18	28,575	28,613	-0,025	33,396	$\pm 0,013$	2,39	41,28	1,00	0,65					7,94	8,73	9,53	11,11	12,70	14,29
20	31,750	31,788	-0,025	36,571	$\pm 0,013$	2,39	44,45	1,00	0,65							9,53	11,11	12,70	14,29
22	34,925	34,963	-0,025	39,746	$\pm 0,013$	2,39	47,63	1,00	0,65							9,53	11,11	12,70	14,29
24	38,100	38,138	-0,025	44,508	$\pm 0,013$	2,39	50,80	1,00	0,65							9,53	11,11	12,70	14,29
28	44,450	44,488	-0,025	50,858	$\pm 0,013$	2,39	57,15	1,00	0,65									12,70	14,29
32	50,800	50,838	-0,025	57,208	$\pm 0,013$	2,39	63,50	1,00	0,65									12,70	14,29



## Designation

**EN4535-2F 04 R 006**

EN4535-2F	04	R	006
			<b>Length Code</b>
			<b>Surface Treatment</b>
			No Code: Non
			R: Anodized
			<b>Diameter Code</b>
			<b>Number of EN Standard</b>
			Material: EN2318 / 3.1354 T3511 / Alloy 2024
			Liner: FRASLIP F per EN2311 / SAE AS81934
			Technical Specification: EN2311 / SAE AS81934

## EN4535 2F

- > Self Lubricating
- > Aluminum
- > Flanged Type
- > According to Specification EN2311 / SAE AS81934

### Static Radial Limit Loads $C_s$ :

$$C_s = 0,29 \cdot d \cdot (L_2 - L_1 - 2) \text{ [kN]}$$

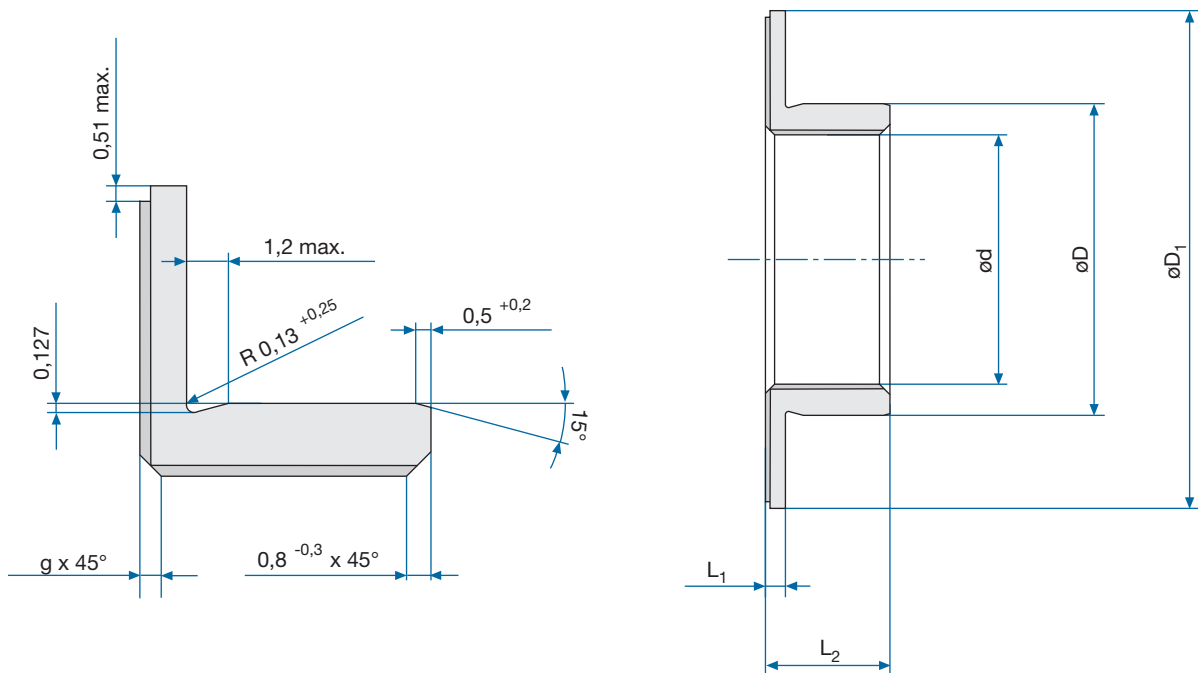
### Static Axial Limit Loads $C_a$ :

$$C_a = 0,16 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2] \text{ [kN]}$$

Length $L_2$ -0,10 -0,40																			Diameter Code	
020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096		
15,88																				04
15,88	17,46	19,05																		05
15,88	17,46	19,05	22,23																	06
15,88	17,46	19,05	22,23																	07
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93													08
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											10
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											11
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											12
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63									14
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80								16
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							18
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							20
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							22
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85			24
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		28
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		32

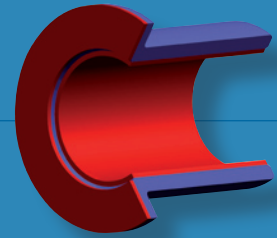


Schematic drawing



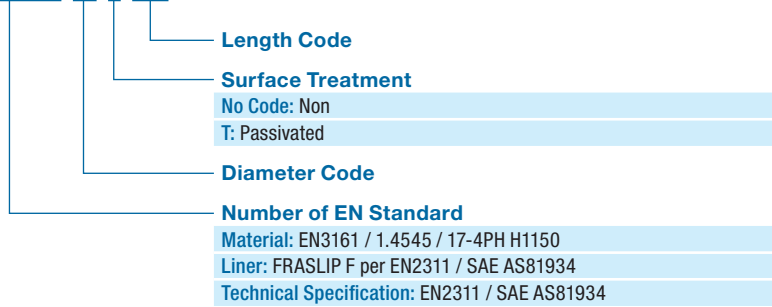
Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,51 [mm]	g [mm]	Length $L_2$ -0,10 -0,40									
									006	007	008	009	010	011	012	014	016	018
04	6,350	6,388	-0,025	9,550	$\pm 0,013$	1,60	19,05	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	
05	7,938	7,976	-0,025	11,140	$\pm 0,013$	1,60	20,64	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
06	9,525	9,563	-0,025	12,730	$\pm 0,013$	1,60	22,23	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
07	11,113	11,151	-0,025	14,321	$\pm 0,013$	1,60	23,81	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
08	12,700	12,738	-0,025	15,913	$\pm 0,013$	1,60	25,40	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
09	14,288	14,326	-0,025	17,506	$\pm 0,013$	1,60	28,58	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
10	15,875	15,913	-0,025	20,681	$\pm 0,013$	1,60	31,75	0,70	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
11	17,463	17,501	-0,025	22,268	$\pm 0,013$	1,60	34,93	0,70			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
12	19,050	19,088	-0,025	23,858	$\pm 0,013$	1,60	38,10	0,70			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
14	22,225	22,263	-0,025	27,038	$\pm 0,013$	1,60	41,28	1,00			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
16	25,400	25,438	-0,025	30,221	$\pm 0,013$	1,60	44,45	1,00			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
18	28,575	28,613	-0,025	33,396	$\pm 0,013$	2,39	47,63	1,00				7,94	8,73	9,53	11,11	12,70	14,29	
20	31,750	31,788	-0,025	36,571	$\pm 0,013$	2,39	50,80	1,00							9,53	11,11	12,70	14,29
22	34,925	34,963	-0,025	39,746	$\pm 0,013$	2,39	53,98	1,00							9,53	11,11	12,70	14,29
24	38,100	38,138	-0,025	44,508	$\pm 0,013$	2,39	57,15	1,00							9,53	11,11	12,70	14,29
26	41,275	41,313	-0,025	47,683	$\pm 0,013$	2,39	60,33	1,00									12,70	14,29
28	44,450	44,488	-0,025	50,858	$\pm 0,013$	2,39	63,50	1,00									12,70	14,29
32	50,800	50,838	-0,025	57,208	$\pm 0,013$	2,39	69,85	1,00									12,70	14,29



## Designation

**EN4537-2D 04 T 006**



## EN4537 2D

- > Self Lubricating
- > CRES
- > Flanged Type
- > According to Specification EN2311 / SAE AS81934

### Static Radial Limit Loads $C_s$ :

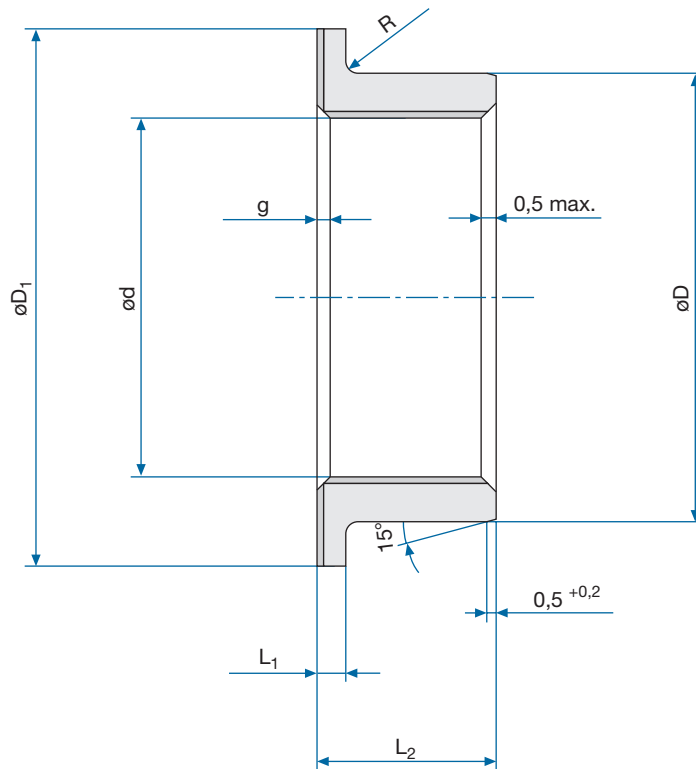
$$C_s = 0,541 \cdot d \cdot (L_2 - L_1 - 2) \text{ [kN]}$$

### Static Axial Limit Loads $C_a$ :

$$C_a = 0,34 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2] \text{ [kN]}$$

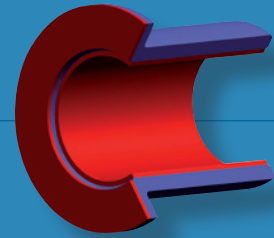
Length $L_2$ -0,10 -0,40																			Diameter Code
020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096	
15,88																			<b>04</b>
15,88	17,46	19,05																	<b>05</b>
15,88	17,46	19,05	22,23																<b>06</b>
15,88	17,46	19,05	22,23																<b>07</b>
15,88	17,46	19,05	22,23																<b>08</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93												<b>09</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										<b>10</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28										<b>11</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63								<b>12</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80							<b>14</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						<b>16</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						<b>18</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						<b>20</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98						<b>22</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85		<b>24</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	<b>26</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	<b>28</b>
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20	<b>32</b>

Schematic drawing



Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,51 [mm]	g [mm]	R $\pm 0,13$ [mm]	Length $L_2$ -0,10 -0,40									
										006	007	008	009	010	011	012	014	016	018
04	6,350	6,388	-0,025	9,550	$\pm 0,013$	1,60	12,70	0,70	0,25	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	
05	7,938	7,976	-0,025	11,140	$\pm 0,013$	1,60	14,29	0,70	0,50	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
06	9,525	9,563	-0,025	12,730	$\pm 0,013$	1,60	15,88	0,70	0,65	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
07	11,113	11,151	-0,025	14,321	$\pm 0,013$	1,60	19,05	0,70	0,65	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
08	12,700	12,738	-0,025	15,913	$\pm 0,013$	1,60	22,23	0,70	0,65	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
10	15,875	15,913	-0,025	20,681	$\pm 0,013$	1,60	25,40	0,70	0,65	4,76	5,56	6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
11	17,463	17,501	-0,025	22,268	$\pm 0,013$	1,60	26,99	0,70	0,65			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
12	19,050	19,088	-0,025	23,858	$\pm 0,013$	1,60	28,58	0,70	0,65			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
14	22,225	22,263	-0,025	27,038	$\pm 0,013$	1,60	31,75	1,00	0,65			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
16	25,400	25,438	-0,025	30,221	$\pm 0,013$	1,60	34,93	1,00	0,65			6,35	7,14	7,94	8,73	9,53	11,11	12,70	14,29
18	28,575	28,613	-0,025	33,396	$\pm 0,013$	2,39	41,28	1,00	0,65					7,94	8,73	9,53	11,11	12,70	14,29
20	31,750	31,788	-0,025	36,571	$\pm 0,013$	2,39	44,45	1,00	0,65							9,53	11,11	12,70	14,29
22	34,925	34,963	-0,025	39,746	$\pm 0,013$	2,39	47,63	1,00	0,65							9,53	11,11	12,70	14,29
24	38,100	38,138	-0,025	44,508	$\pm 0,013$	2,39	50,80	1,00	0,65							9,53	11,11	12,70	14,29
28	44,450	44,488	-0,025	50,858	$\pm 0,013$	2,39	57,15	1,00	0,65									12,70	14,29
32	50,800	50,838	-0,025	57,208	$\pm 0,013$	2,39	63,50	1,00	0,65									12,70	14,29



## Designation

EN4537-2F 04 T 006

EN4537-2F	04	T	006
		Length Code	
		Surface Treatment	
		No Code: Non	
		T: Passivated	
		Diameter Code	
		Number of EN Standard	
		Material: EN3161 / 1.4545 / 17-4PH H1150	
		Liner: FRASLIP F per EN2311 / SAE AS81934	
		Technical Specification: EN2311 / SAE AS81934	

## EN4537 2F

- > Self Lubricating
- > CRES
- > Flanged Type
- > According to Specification EN2311 / SAE AS81934

### Static Radial Limit Loads $C_s$ :

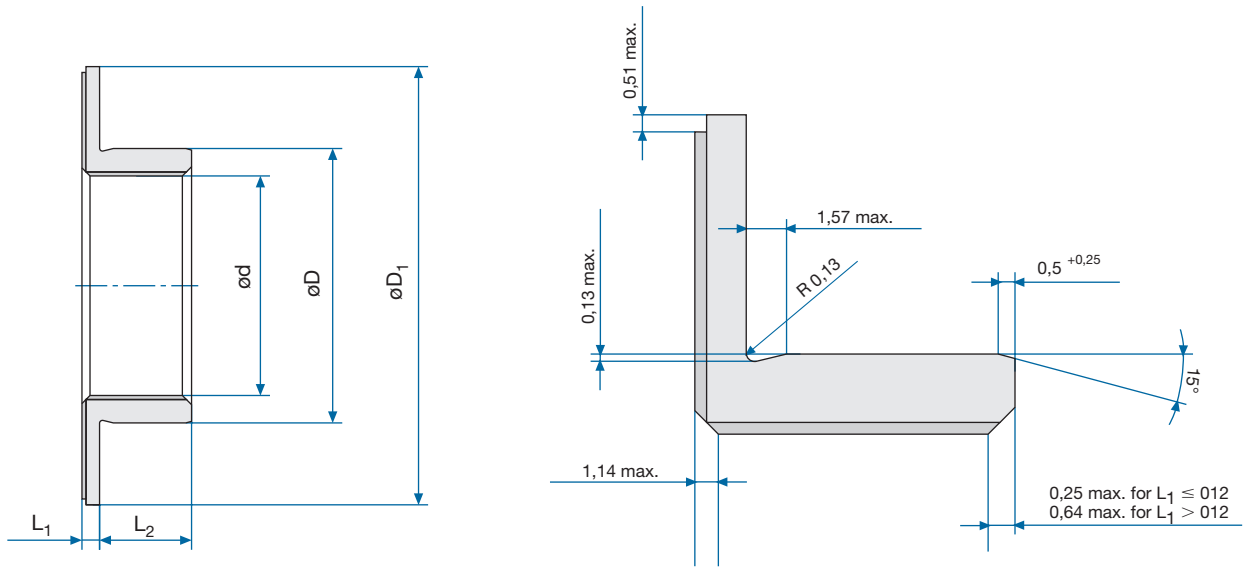
$$C_s = 0,541 \cdot d \cdot (L_2 - L_1 - 2) \text{ [kN]}$$

### Static Axial Limit Loads $C_a$ :

$$C_a = 0,34 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2] \text{ [kN]}$$

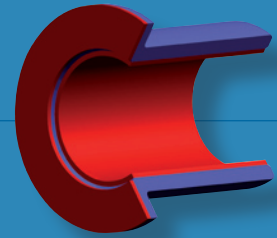
Length $L_2$ -0,10 -0,40																			Diameter Code	
020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096		
15,88																				04
15,88	17,46	19,05																		05
15,88	17,46	19,05	22,23																	06
15,88	17,46	19,05	22,23																	07
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93													08
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											10
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28											11
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63									12
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80								14
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							16
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							18
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							20
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98							22
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85			24
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		28
15,88	17,46	19,05	22,23	25,40	28,58	31,75	34,93	38,10	41,28	44,45	47,63	50,80	53,98	57,15	60,33	63,50	69,85	76,20		32

Schematic drawing

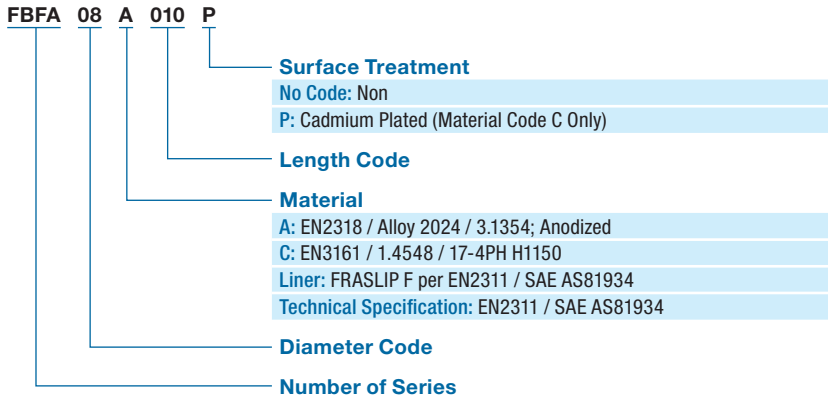


Specifications

Diameter Code	Nominal Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ Code C [mm]	$\Delta_{Dmp}$ Code A [mm]	$L_1$ -0,127 [mm]	$D_1$ -0,508 [mm]	Length $L_2$ -0,127 -0,381										
									005	006	007	008	009	010	011	012	014	016	018
04	6,35	6,388	-0,025	9,55	-0,012	$\pm 0,012$	1,587	19,05	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
05	7,937	7,975	-0,025	11,14	-0,012	$\pm 0,012$	1,587	20,625	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
06	9,525	9,563	-0,025	12,73	-0,012	$\pm 0,012$	1,587	22,225	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
07	11,112	11,15	-0,025	14,32	-0,012	$\pm 0,012$	1,587	23,8	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
08	12,7	12,738	-0,025	15,913	-0,012	$\pm 0,012$	1,587	25,4	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
09	14,287	14,325	-0,025	17,505	-0,012	$\pm 0,012$	1,587	28,575	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
10	15,875	15,913	-0,025	20,68	-0,012	$\pm 0,012$	1,587	31,75	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
11	17,462	17,5	-0,025	22,268	-0,012	$\pm 0,012$	1,587	34,925	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
12	19,05	19,088	-0,025	23,858	-0,012	$\pm 0,012$	1,587	38,1	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
14	22,225	22,263	-0,025	27,038	-0,012	$\pm 0,012$	1,587	41,275	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
16	25,4	25,438	-0,025	30,221	-0,012	$\pm 0,012$	1,587	44,45	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
18	28,575	28,613	-0,025	33,396	-0,012	$\pm 0,012$	2,38	47,625	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
20	31,75	31,788	-0,025	36,571	-0,012	$\pm 0,012$	2,38	50,8	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
22	34,925	34,963	-0,025	39,746	-0,012	$\pm 0,012$	2,38	53,975	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
24	38,1	38,138	-0,025	44,508	-0,012	$\pm 0,012$	2,38	57,15	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
26	41,275	41,313	-0,025	47,683	-0,012	$\pm 0,012$	2,38	60,325	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
28	44,45	44,488	-0,025	50,858	-0,012	$\pm 0,012$	2,38	63,5	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287
32	50,8	50,838	-0,025	57,208	-0,012	$\pm 0,012$	2,38	69,85	3,96	4,75	5,53	6,35	7,14	7,93	8,73	9,525	11,112	12,7	14,287



## Designation



**FBFA...A...**

**FBFA...C...**

- > Self Lubricating
- > Aluminum
- > CRES
- > Flanged Type
- > According to Specification EN2311 / SAE AS81934 / 2

### Static Radial Limit Loads $C_s$ :

Material Code A:  $C_s = 0,345 \cdot d \cdot (L_1 + L_2 - 3,3)$  [kN]

Material Code C:  $C_s = 0,541 \cdot d \cdot (L_1 + L_2 - 3,3)$  [kN]

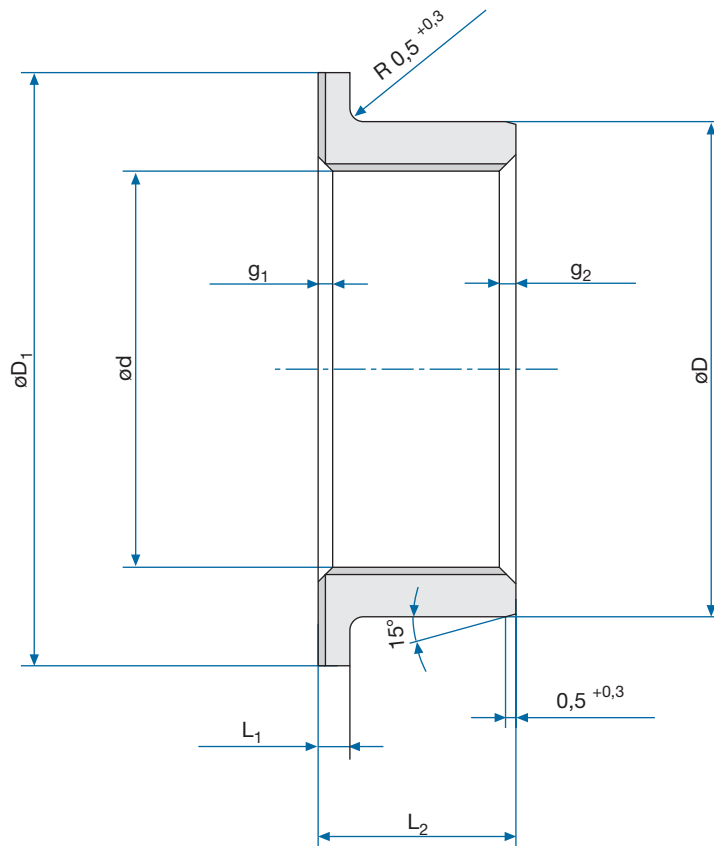
### Static Axial Limit Loads $C_a$ :

Material Code A:  $C_a = 0,16 [(D_1 - 1,5)^2 - (d + 2,5)^2]$  [kN]

Material Code C:  $C_a = 0,34 [(D_1 - 1,5)^2 - (d + 2,5)^2]$  [kN]

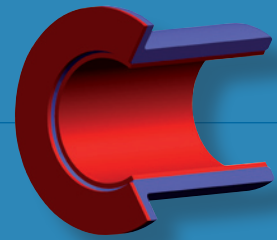
Length $L_2$ -0,127 -0,381																			Diameter Code
020	022	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	088	096	
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>04</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>05</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>06</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>07</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>08</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>09</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>10</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>11</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>12</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>14</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>16</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>18</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>20</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>22</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>24</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>26</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>28</b>
15,875	17,46	19,05	22,225	25,4	28,575	31,75	34,925	38,1	41,275	44,45	47,625	50,8	53,975	57,15	60,325	63,5	69,85	76,2	<b>32</b>

Schematic drawing



Specifications

Diameter Code	Nominal Code [mm]	d [mm]	D [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,5 [mm]	$g_1 \times 45^\circ$ +0,25 [mm]	$g_2 \times 45^\circ$ +0,25 [mm]	Length $L_2$ -0,127 -0,381					
								004	006	008	010	012	014
04	6,35	6,358 to 6,380	9,538 to 9,550	1,6	12,7	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
05	7,937	7,950 to 7,973	11,128 to 11,140	1,6	14,3	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
06	9,525	9,540 to 9,563	12,715 to 12,730	1,6	15,9	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
07	11,112	11,164 to 11,188	15,900 to 15,924	1,6	19,1	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
08	12,7	12,715 to 12,741	17,483 to 17,496	1,6	22,2	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
10	15,875	15,893 to 15,918	20,660 to 20,673	1,6	25,4	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
12	19,05	19,070 to 19,101	23,835 to 23,848	1,6	28,6	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
14	22,225	22,248 to 22,278	27,013 to 27,026	1,6	31,8	1,0	0,51	3,17	4,76	6,35	7,94	9,52	11,11
16	25,4	25,425 to 25,456	30,188 to 30,201	1,6	34,9	1,0	0,51	3,17	4,76	6,35	7,94	9,52	11,11
18	28,575	28,608 to 28,649	33,368 to 33,383	2,4	41,3	1,0	0,51					9,52	11,11
20	31,75	31,780 to 31,821	38,133 to 38,148	2,4	44,4	1,0	0,51					9,52	11,11
22	34,925	34,958 to 34,999	41,308 to 41,323	2,4	47,6	1,0	0,51					9,52	11,11
24	38,1	38,133 to 38,174	44,483 to 44,498	2,4	50,8	1,0	0,51					9,52	11,11
28	44,45	44,493 to 44,534	50,841 to 50,858	2,4	57,2	1,0	0,51						
32	50,8	50,843 to 50,889	57,191 to 57,208	2,4	63,5	1,0	0,51						



## Designation

FBFA 2 - 08 10

Length Code

Diameter Code

Material

FBFA1: EN3490 / 1.4044.6 / AISI 431

FBFA2: EN2086 / 3.1924 / Alloy 2618A; Anodized

Liner: FRASLIP F per EN2311 / SAE AS81934

Technical Specification: MIL-B-8943

Number of Series

## FBFA1

## FBFA2

- > Self Lubricating
- > Aluminum
- > CRES
- > Flanged Type

### Static Radial Limit Loads $C_r$ :

FBFA1:  $C_r = 0,541 \cdot d \cdot (L_2 - 3,3)$  [kN]

FBFA2:  $C_r = 0,345 \cdot d \cdot (L_2 - 3,3)$  [kN]

### Static Axial Limit Loads $C_a$ :

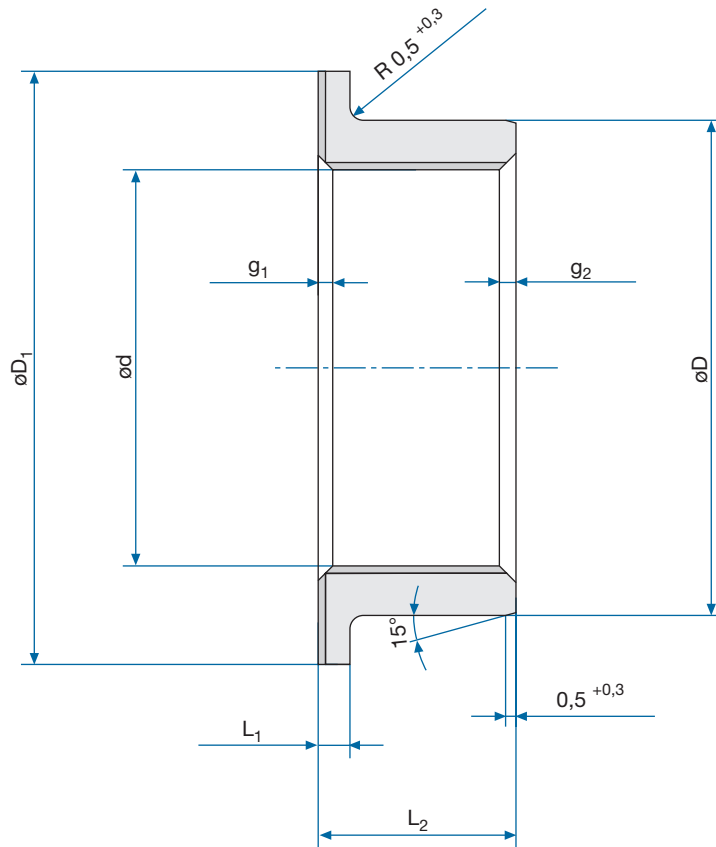
FBFA1:  $C_a = 0,34 \cdot [(A - 1,5)^2 - (d + 2,5)^2]$  [kN]

FBFA2:  $C_a = 0,16 \cdot [(A - 1,5)^2 - (d + 2,5)^2]$  [kN]

Length $L_2$ -0,127 -0,381													Diameter Code
016	018	020	024	026	028	032	040	044	048	064	080	096	
													04
12,7	14,29												05
12,7	14,29	15,87											06
12,7	14,29	15,87	19,05	20,64									07
12,7	14,29	15,87	19,05	20,64	22,22								08
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75						10
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75						12
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92					14
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92					16
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8			18
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8			20
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8	63,5		22
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8	63,5	76,2	24
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8	63,5	76,2	28
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8	63,5	76,2	32

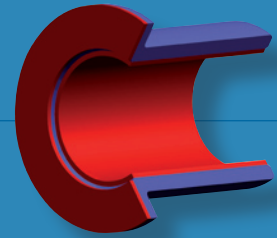


## Schematic drawing



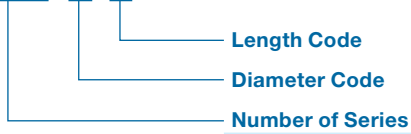
## Specifications

Diameter Code	Nominal Code [mm]	d [mm]	D [mm]	$L_1$ -0,13 [mm]	$D_1$ -0,5 [mm]	$g_1 \times 45^\circ$ +0,25 [mm]	$g_2 \times 45^\circ$ +0,25 [mm]	Length $L_2$ -0,127 -0,381					
								004	006	008	010	012	014
04	6,35	6,358 to 6,380	9,538 to 9,550	1,6	12,7	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
05	7,937	7,950 to 7,973	11,128 to 11,140	1,6	14,3	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
06	9,525	9,540 to 9,563	12,715 to 12,730	1,6	15,9	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
07	11,112	11,164 to 11,188	15,900 to 15,924	1,6	19,1	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
08	12,7	12,715 to 12,741	17,483 to 17,496	1,6	22,2	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
10	15,875	15,893 to 15,918	20,660 to 20,673	1,6	25,4	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
12	19,05	19,070 to 19,101	23,835 to 23,848	1,6	28,6	0,5	0,25	3,17	4,76	6,35	7,94	9,52	11,11
14	22,225	22,248 to 22,278	27,013 to 27,026	1,6	31,8	1,0	0,51	3,17	4,76	6,35	7,94	9,52	11,11
16	25,4	25,425 to 25,456	30,188 to 30,201	1,6	34,9	1,0	0,51	3,17	4,76	6,35	7,94	9,52	11,11
18	28,575	28,608 to 28,649	33,368 to 33,383	2,4	41,3	1,0	0,51					9,52	11,11
20	31,75	31,780 to 31,821	38,133 to 38,148	2,4	44,4	1,0	0,51					9,52	11,11
22	34,925	34,958 to 34,999	41,308 to 41,323	2,4	47,6	1,0	0,51					9,52	11,11
24	38,1	38,133 to 38,174	44,483 to 44,498	2,4	50,8	1,0	0,51					9,52	11,11
28	44,45	44,493 to 44,534	50,841 to 50,858	2,4	57,2	1,0	0,51						
32	50,8	50,843 to 50,889	57,191 to 57,208	2,4	63,5	1,0	0,51						



## Designation

**NSA8147 - 08 10**



**Length Code**

**Diameter Code**

**Number of Series**

**NSA8147:** EN3490 / 1.4044.6 / AISI 431

**NSA8148:** EN2086 / 3.1924 / Alloy 2618A; Anodized

**Liner:** FRASLIP F per EN2311 / SAE AS81934

**Technical Specification:** MIL-B-8943

# NSA8147

# NSA8148

- > Self Lubricating
- > Aluminum
- > CRES
- > Flanged Type

### Static Radial Limit Loads $C_s$ :

NSA8147:  $C_s = 0,541 \cdot d \cdot (L_2 - 3,3)$  [kN]

NSA8148:  $C_s = 0,345 \cdot d \cdot (L_2 - 3,3)$  [kN]

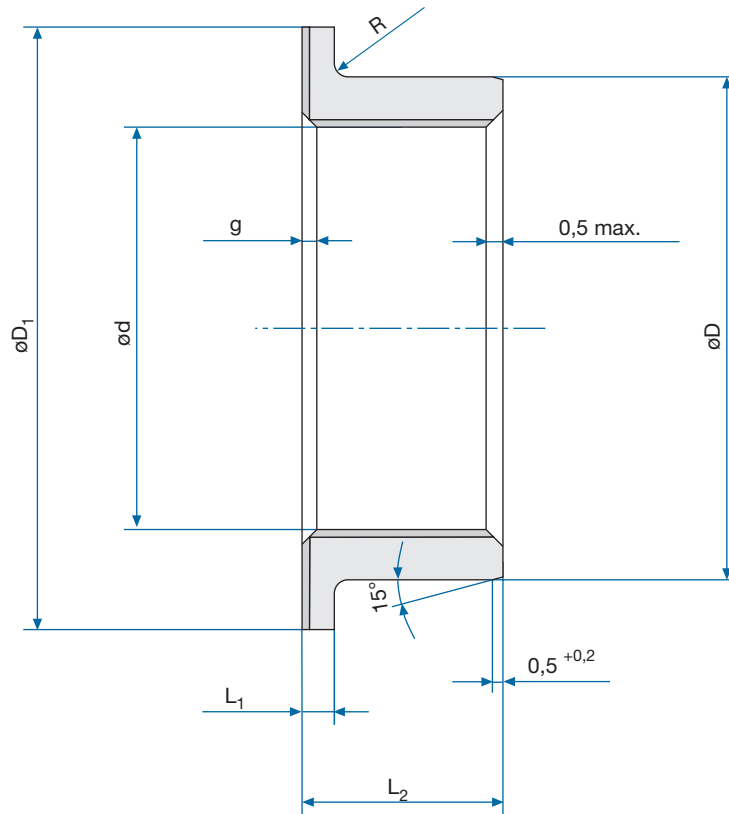
### Static Axial Limit Loads $C_a$ :

NSA8147:  $C_a = 0,34 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2]$  [kN]

NSA8148:  $C_a = 0,16 \cdot [(D_1 - 1,5)^2 - (d + 2,5)^2]$  [kN]

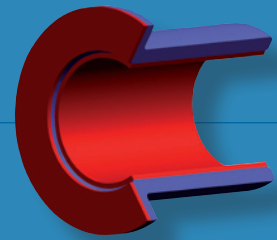
Length $L_2$ -0,127 -0,381													Diameter Code
016	018	020	024	026	028	032	040	044	048	064	080	096	
													<b>04</b>
12,7	14,29												<b>05</b>
12,7	14,29	15,87											<b>06</b>
12,7	14,29	15,87	19,05	20,64									<b>07</b>
12,7	14,29	15,87	19,05	20,64	22,22								<b>08</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75						<b>10</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75						<b>12</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92					<b>14</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92					<b>16</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8			<b>18</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8			<b>20</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8	63,5		<b>22</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8	63,5	76,2	<b>24</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8	63,5	76,2	<b>28</b>
12,7	14,29	15,87	19,05	20,64	22,22	25,4	31,75	34,92	38,1	50,8	63,5	76,2	<b>32</b>

Schematic drawing



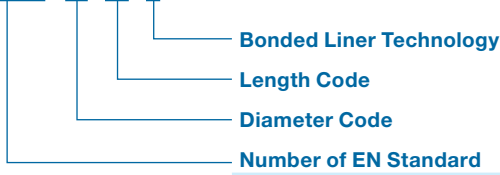
Specifications

Diameter Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	D <sub>1</sub> [mm]	g x 45° [mm]	L <sub>1</sub> [mm]	R [mm]	Length L <sub>2</sub> -0,1 -0,4				
									06	08	10	12	15
06	6,0	+0,004 to +0,022	10,0	+0,015 to +0,024	12,0	0,65 to 0,9	1,5	0,1 to 0,4	6,0				
08	8,0	+0,005 to +0,027	12,0	+0,018 to +0,029	14,0	0,65 to 0,9	1,5	0,1 to 0,4	6,0	8,0			
10	10,0	+0,005 to +0,027	14,0	+0,018 to +0,029	16,0	0,65 to 0,9	1,5	0,1 to 0,4	6,0	8,0	10,0		
12	12,0	+0,006 to +0,033	16,0	+0,018 to +0,029	22,0	0,65 to 0,9	1,5	0,5 to 0,8	6,0	8,0	10,0	12,0	
15	15,0	+0,006 to +0,033	19,0	+0,022 to +0,035	25,0	0,65 to 0,9	1,5	0,5 to 0,8		8,0	10,0	12,0	15,0
16	16,0	+0,006 to +0,033	20,0	+0,022 to +0,035	26,0	0,65 to 0,9	1,5	0,5 to 0,8		8,0	10,0	12,0	15,0
18	18,0	+0,006 to +0,033	22,0	+0,022 to +0,035	28,0	0,65 to 0,9	1,5	0,5 to 0,8			10,0	12,0	15,0
20	20,0	+0,007 to +0,040	25,0	+0,022 to +0,035	30,0	0,95 to 1,2	1,5	0,5 to 0,8			10,0	12,0	15,0
22	22,0	+0,007 to +0,040	26,0	+0,022 to +0,035	32,0	0,95 to 1,2	1,5	0,5 to 0,8				12,0	15,0
25	25,0	+0,007 to +0,040	30,0	+0,022 to +0,035	35,0	0,95 to 1,2	1,5	0,5 to 0,8				12,0	15,0
28	28,0	+0,007 to +0,040	34,0	+0,026 to +0,046	40,0	0,95 to 1,2	2,5	0,5 to 0,8					15,0
30	30,0	+0,007 to +0,040	36,0	+0,026 to +0,046	42,0	0,95 to 1,2	2,5	0,5 to 0,8					15,0
32	32,0	+0,009 to +0,048	38,0	+0,026 to +0,046	44,0	0,95 to 1,2	2,5	0,5 to 0,8					15,0
35	35,0	+0,009 to +0,048	42,0	+0,026 to +0,046	47,0	0,95 to 1,2	2,5	0,5 to 0,8					
36	36,0	+0,009 to +0,048	43,0	+0,026 to +0,046	48,0	0,95 to 1,2	2,5	0,5 to 0,8					
38	38,0	+0,009 to +0,048	45,0	+0,026 to +0,046	50,0	0,95 to 1,2	2,5	0,5 to 0,8					
40	40,0	+0,009 to +0,048	48,0	+0,026 to +0,046	52,0	0,95 to 1,2	2,5	0,5 to 0,8					
45	45,0	+0,009 to +0,048	52,0	+0,032 to +0,051	57,0	0,95 to 1,2	2,5	0,5 to 0,8					
50	50,0	+0,009 to +0,048	58,0	+0,032 to +0,051	62,0	0,95 to 1,2	2,5	0,5 to 0,8					



## Designation

EN2288 - 12 08 A



<b>Material:</b> EN3490 / 1.4044.6 / AISI 431
<b>Liner:</b> FRASLIP F per EN2311 / SAE AS81934
<b>Technical Specification:</b> EN2311 / SAE AS81934

## EN2288

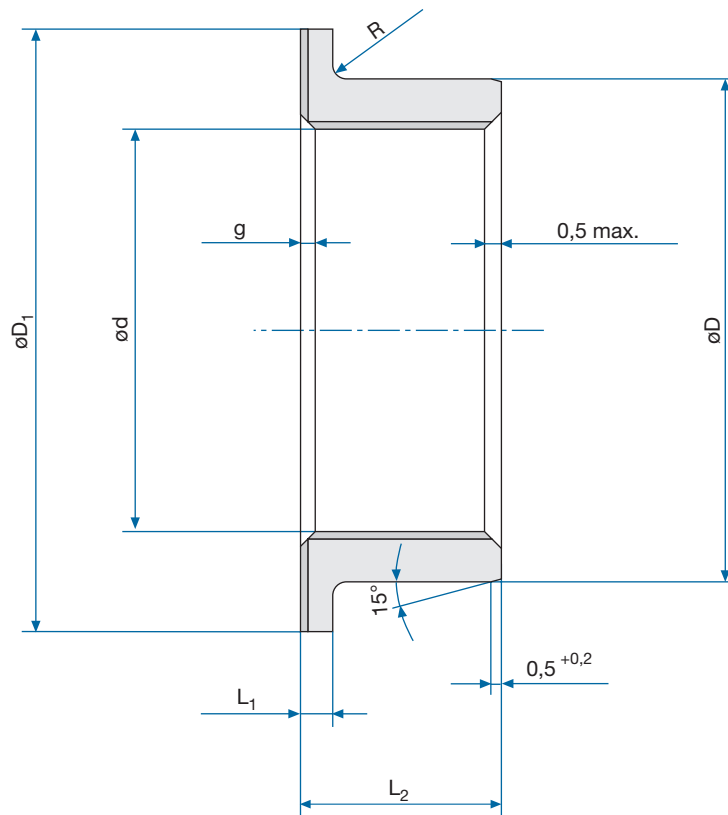
- > Self Lubricating
- > Aluminum
- > CRES
- > Flanged Type
- > According to Specification EN2311 / SAE AS81934

Static Radial Limit Load:  $C_s = 0,43 \cdot d \cdot (L_2 - 1,2 - R_{max} - L_1)$  [kN]

Static Axial Limit Load:  $C_a = 0,34 \cdot (D_1 - 1,5)^2 - (d + 2,5)^2$  [kN]

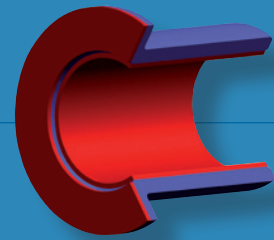
Length $L_2 - 0,1$ -0,4														Diameter Code
16	18	20	22	25	28	30	32	35	36	38	40	45	50	
														06
														08
														10
														12
16,0														15
16,0	18,0													16
16,0	18,0	20,0												18
16,0	18,0	20,0	22,0											20
16,0	18,0	20,0	22,0											22
16,0	18,0	20,0	22,0	25,0										25
16,0	18,0	20,0	22,0	25,0	28,0									28
16,0	18,0	20,0	22,0	25,0	28,0	30,0								30
16,0	18,0	20,0	22,0	25,0	28,0	30,0	32,0							32
16,0	18,0	20,0	22,0	25,0	28,0	30,0	32,0	35,0						35
	18,0	20,0	22,0	25,0	28,0	30,0	32,0	35,0	36,0					36
		20,0	22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0				38
		20,0	22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0			40
			22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0	45,0		45
				25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0	45,0	50,00	50

Schematic drawing



Specifications

Diameter Code	d [mm]	$\Delta_{dmp}$ [mm]	D [mm]	$\Delta_{Dmp}$ [mm]	D <sub>1</sub> [mm]	g x 45° [mm]	L <sub>1</sub> [mm]	R [mm]	Length L <sub>2</sub> -0,1 -0,4				
									06	08	10	12	15
06	6,0	+0,004 to +0,022	10,0	+0,015 to +0,024	12,0	0,65 to 0,9	1,5	0,1 to 0,4	6,0				
08	8,0	+0,005 to +0,027	12,0	+0,018 to +0,029	14,0	0,65 to 0,9	1,5	0,1 to 0,4	6,0	8,0			
10	10,0	+0,005 to +0,027	14,0	+0,018 to +0,029	16,0	0,65 to 0,9	1,5	0,1 to 0,4	6,0	8,0	10,0		
12	12,0	+0,006 to +0,033	16,0	+0,018 to +0,029	22,0	0,65 to 0,9	1,5	0,5 to 0,8	6,0	8,0	10,0	12,0	
15	15,0	+0,006 to +0,033	19,0	+0,022 to +0,035	25,0	0,65 to 0,9	1,5	0,5 to 0,8		8,0	10,0	12,0	15,0
16	16,0	+0,006 to +0,033	20,0	+0,022 to +0,035	26,0	0,65 to 0,9	1,5	0,5 to 0,8		8,0	10,0	12,0	15,0
18	18,0	+0,006 to +0,033	22,0	+0,022 to +0,035	28,0	0,65 to 0,9	1,5	0,5 to 0,8			10,0	12,0	15,0
20	20,0	+0,007 to +0,040	25,0	+0,022 to +0,035	30,0	0,95 to 1,2	1,5	0,5 to 0,8			10,0	12,0	15,0
22	22,0	+0,007 to +0,040	26,0	+0,022 to +0,035	32,0	0,95 to 1,2	1,5	0,5 to 0,8				12,0	15,0
25	25,0	+0,007 to +0,040	30,0	+0,022 to +0,035	35,0	0,95 to 1,2	1,5	0,5 to 0,8				12,0	15,0
28	28,0	+0,007 to +0,040	34,0	+0,026 to +0,046	40,0	0,95 to 1,2	2,5	0,5 to 0,8					15,0
30	30,0	+0,007 to +0,040	36,0	+0,026 to +0,046	42,0	0,95 to 1,2	2,5	0,5 to 0,8					15,0
32	32,0	+0,009 to +0,048	38,0	+0,026 to +0,046	44,0	0,95 to 1,2	2,5	0,5 to 0,8					15,0
35	35,0	+0,009 to +0,048	42,0	+0,026 to +0,046	47,0	0,95 to 1,2	2,5	0,5 to 0,8					
36	36,0	+0,009 to +0,048	43,0	+0,026 to +0,046	48,0	0,95 to 1,2	2,5	0,5 to 0,8					
38	38,0	+0,009 to +0,048	45,0	+0,026 to +0,046	50,0	0,95 to 1,2	2,5	0,5 to 0,8					
40	40,0	+0,009 to +0,048	48,0	+0,026 to +0,046	52,0	0,95 to 1,2	2,5	0,5 to 0,8					
45	45,0	+0,009 to +0,048	52,0	+0,032 to +0,051	57,0	0,95 to 1,2	2,5	0,5 to 0,8					
50	50,0	+0,009 to +0,048	58,0	+0,032 to +0,051	62,0	0,95 to 1,2	2,5	0,5 to 0,8					



## Designation

EN2286 - 12 08 A

Bonded Liner Technology

Length Code

Diameter Code

Number of EN Standard

Material: EN2086 / 3.1924/ Alloy 2618A; Anodized

Liner: FRASLIP F per EN2311 / SAE AS81934

Technical Specification: EN2311 / SAE AS81934

## EN2286

- > Self Lubricating
- > Aluminum
- > Flanged Type
- > According to Specification EN2311 / SAE AS81934

Static Radial Limit Load:  $C_s = 0,206 \cdot d \cdot (L_2 - 1,2 \cdot R_{\max} - L_1)$  [kN]

Static Axial Limit Load:  $C_a = 0,16 \cdot (D_1 - 1,5)^2 - (d + 2,5)^2$  [kN]

Length $L_2 - 0,1$ -0,4														Diameter Code
16	18	20	22	25	28	30	32	35	36	38	40	45	50	
														06
														08
														10
														12
16,0														15
16,0	18,0													16
16,0	18,0	20,0												18
16,0	18,0	20,0	22,0											20
16,0	18,0	20,0	22,0											22
16,0	18,0	20,0	22,0	25,0										25
16,0	18,0	20,0	22,0	25,0	28,0									28
16,0	18,0	20,0	22,0	25,0	28,0	30,0								30
16,0	18,0	20,0	22,0	25,0	28,0	30,0	32,0							32
16,0	18,0	20,0	22,0	25,0	28,0	30,0	32,0	35,0						35
	18,0	20,0	22,0	25,0	28,0	30,0	32,0	35,0	36,0					36
		20,0	22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0				38
		20,0	22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0			40
			22,0	25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0	45,0		45
				25,0	28,0	30,0	32,0	35,0	36,0	38,0	40,0	45,0	50,00	50