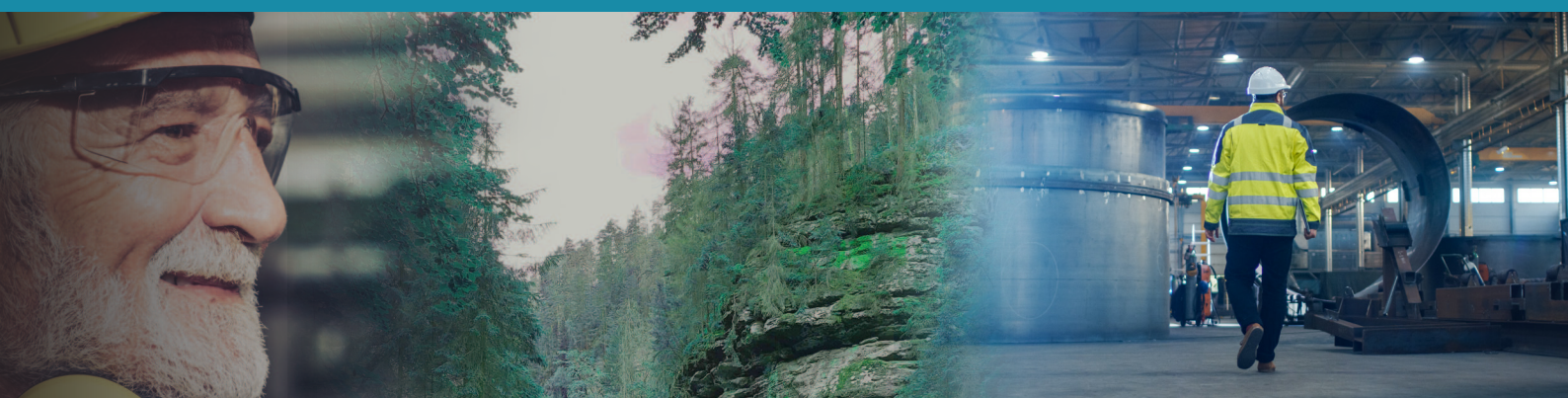




DATASHEET HOWA-PF



PTFE Coated
Multi-layer
Bearing





FEATURES

- Self-lubricating PTFE coated plain bearing for a wide spectrum of loads and speeds
- Backing material in Steel, Bronze and Stainless Steel available to suit various environments
- Low coefficients of friction applies also under dry-running conditions
- Suitable for hydrodynamic running condition

TYPICAL INDUSTRIES

- Agriculture
- Construction and Lifting Equipment
- Hydraulic Cylinders
- Packaging and Textiles

BEARING PARAMETERS

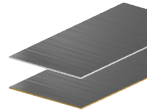
Load Capacity Maximum	dynamic	140	N/mm ²
	static	250	N/mm ²
Coefficient of Friction	dry	0.03 - 0.15	
	in oil	0.01 - 0.04	
Sliding Speed Maximum	dry	2.5	m/s
	in oil, hydrodynamic	5.0	m/s
PV Value		1.6	N/mm ² * m/s
Temperature Strain	minimum	-200	°C
	maximum	250	°C

MATING COMPONENTS

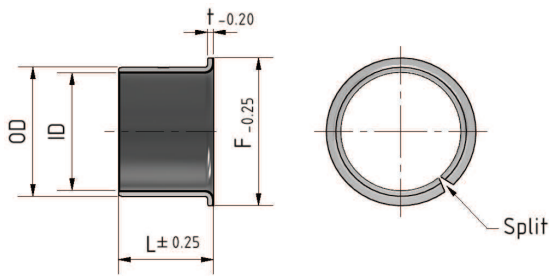
Housing Bore	Tolerance	H7
Shaft	Tolerance	h6...h8, g6...g8, f6...f8
	Hardness	▶ HB150 (light load applications) ▶ HB180 (high load applications)
	Surface Roughness	Ra 0.2 - 0.8
	Material	Corrosive environments: 1.4404 (316L), 1.4057, 1.4462 Normal environments: 1.0503 (C45), 1.7225 (42CrMo4)

PART NUMBER CREATION

The part number indicates all individual parameters in accordance to the selection of shape, material and key dimensions.

Material Range	Backing Material	Type				Dimensional Parameters
Identifier	B - Bronze S - Steel N - Stainless Steel	F - Flange	S - Straight	W - Washer	P - Plate	ID - Inner Diameter L - Length WD - Washer Diameter W - Width
						
PF	B/S/N	F / S / W / P				value1 - value2

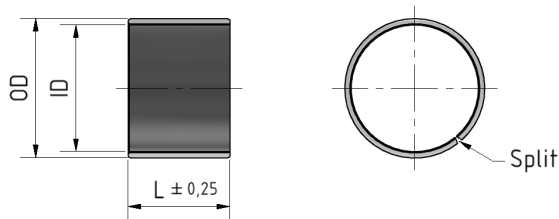
FLANGE-TYPE BEARINGS



Dimension					Part Number			
↓ ID	OD	F	↓ L	t	Id.	Backing ↓	Type	Dimension Parameter
5	7	10	4	1	PF	B/S/N	F	05-04
			5					05-05
			6					05-06
6	8	12	4	1	PF	B/S/N	F	06-04
			7					06-07
			8					06-08
8	10	15	5.5	1	PF	B/S/N	F	08-5.5
			7.5					08-7.5
			9.5					08-9.5
10	12	18	7	1	PF	B/S/N	F	10-07
			9					10-09
			12					10-12
			17					10-17
12	14	20	7	1	PF	B/S/N	F	12-07
			9					12-09
			12					12-12
			17					12-17
14	16	22	12	1	PF	B/S/N	F	14-12
			17					14-17
15	17	23	9	1	PF	B/S/N	F	15-09
			12					15-12
			17					15-17

Dimension					Part Number			
↓ ID	OD	F	↓ L	t	Id.	Backing ↓	Type	Dimension Parameter
16	18	24	12	1	PF	B/S/N	F	16-12
			17					16-17
18	20	26	12	1	PF	B/S/N	F	18-12
			17					18-17
			22					18-22
20	23	30	11.5	1	PF	B/S/N	F	20-11.5
			16.5					20-16.5
			21.5					20-21.5
25	28	35	11.5	1	PF	B/S/N	F	25-11.5
			16.5					25-16.5
			21.5					25-21.5
30	34	42	16	2	PF	B/S/N	F	30-16
			26					30-26
35	39	47	16	2	PF	B/S/N	F	35-7
			26					35-9
40	44	53	16	2	PF	B/S/N	F	40-16
			26					40-26
45	50	58	16	2	PF	B/S/N	F	14-16
			26					14-26

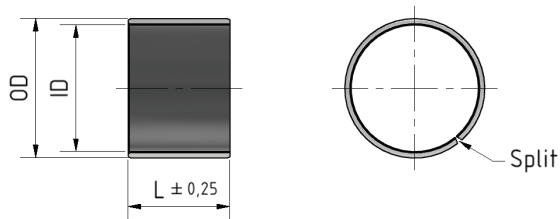
STRAIGHT-TYPE BEARINGS



Dimension			Part Number			
↓ ID	OD	↓ L	Id.	Backing ↓	Type	Dimension Parameter
5	7	5	PF	B/S/N	S	05-05
		8				05-08
		10				05-10
6	8	4	PF	B/S/N	S	06-04
		6				06-06
		8				06-08
7	9	10	PF	B/S/N	S	07-10
		12				08-12
8	10	6	PF	B/S/N	S	08-06
		8				08-08
		10				08-10
10	12	8	PF	B/S/N	F	10-08
		10				10-10
		12				10-12
		15				10-15
		20				10-20
12	14	8	PF	B/S/N	S	12-08
		10				12-10
		12				12-12
		15				12-15
		20				12-20
13	15	10	PF	B/S/N	S	13-10
		20				13-20
14	16	5	PF	B/S/N	S	14-05
		10				14-10
		12				14-12
		15				14-15
		20				14-20
		25				14-25

Dimension			Part Number			
↓ ID	OD	↓ L	Id.	Backing ↓	Type	Dimension Parameter
15	17	10	PF	B/S/N	S	15-10
		12				15-12
		15				15-15
		20				15-20
		25				15-25
16	18	10	PF	B/S/N	S	16-10
		12				16-12
		15				16-15
		20				16-20
17	19	15	PF	B/S/N	S	17-15
		20				17-20
18	20	10	PF	B/S/N	S	18-10
		15				18-15
		20				18-20
		25				18-25
20	22	10	PF	B/S/N	S	20-10
		15				20-15
		20				20-20
20	23	10	PF	B/S/N	S	20-10
		15				20-15
		20				20-20
		25				20-25
		30				20-30
22	25	15	PF	B/S/N	S	22-15
		20				22-20
		25				22-25
		30				22-30
24	27	15	PF	B/S/N	S	24-15
		20				24-20
		25				24-25
		30				24-30
24	28	15	PF	B/S/N	S	24-15
		20				24-20
		25				24-25
		30				24-30
25	28	12	PF	B/S/N	S	25-12
		15				25-15
		20				25-20
		25				25-25
		30				25-30
		50				25-50

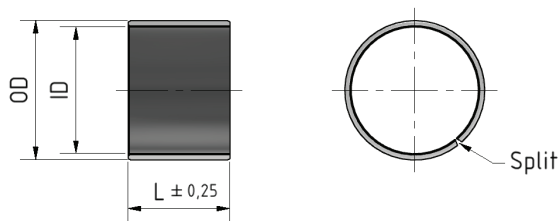
STRAIGHT-TYPE BEARINGS



Dimension			Part Number			
↓ ID	OD	↓ L	Id.	Backing ↓	Type	Dimension Parameter
28	32	15	PF	B/S/N	S	28-15
		20				28-20
		25				28-25
		30				28-30
30	34	10	PF	B/S/N	S	30-10
		15				30-15
		20				30-20
		25				30-25
		30				30-30
32	36	20	PF	B/S/N	S	32-20
		30				32-30
		40				32-40
35	39	20	PF	B/S/N	S	35-20
		30				35-30
		35				35-35
		40				35-40
37	41	20	PF	B/S/N	S	37-20
		20				40-20
		30				40-30
40	44	40	PF	B/S/N	S	40-40
		45				40-45
		50				40-50
		20				45-20
45	50	30	PF	B/S/N	S	45-30
		40				45-40
		45				45-45
		50				45-50

Dimension			Part Number			
↓ ID	OD	↓ L	Id.	Backing ↓	Type	Dimension Parameter
50	55	20	PF	B/S/N	S	50-20
		25				50-25
		30				50-30
		40				50-40
		50				50-50
		60				50-60
55	60	20	PF	B/S/N	S	55-20
		25				55-25
		30				55-30
		40				55-40
		50				55-50
		55				55-55
60	65	60	PF	B/S/N	S	55-60
		20				60-20
		30				60-30
		40				60-40
		50				60-50
		60				60-60
65	70	70	PF	B/S/N	S	60-70
		30				65-30
		40				65-40
		50				65-50
70	75	70	PF	B/S/N	S	65-70
		40				70-40
		50				70-50
75	80	60	PF	B/S/N	S	70-60
		70				70-70
		40				75-40
		50				75-50
80	85	60	PF	B/S/N	S	75-60
		70				75-70
		80				75-80
		100				80-60
85	90	80	PF	B/S/N	S	80-80
		100				80-100
		30				85-30
90	95	60	PF	B/S/N	S	85-60
		100				85-100
		60				90-60
100	105	100	PF	B/S/N	S	90-100
		50				100-50
		60				100-60
		70				100-70
		80				100-80
		100				100-100
		115				100-115

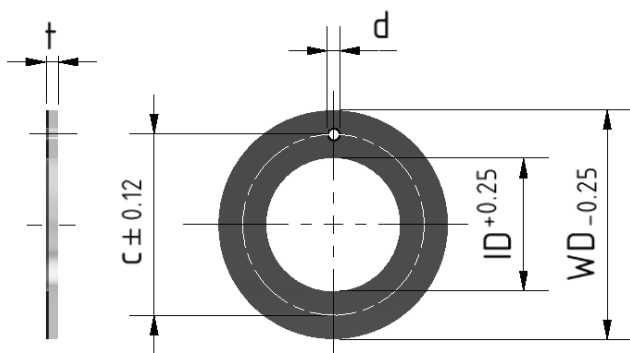
STRAIGHT-TYPE BEARINGS



Dimension			Part Number			
↓ ID	OD	↓ L	Id.	Backing ↓	Type	Dimension Parameter
105	110	60	PF	B/S/N	S	105-60
		100				105-100
		115				105-115
110	115	60	PF	B/S/N	S	110-60
		100				110-100
		115				110-115
115	120	50	PF	B/S/N	S	115-50
		60				115-60
		70				115-70
		115				115-115
120	125	50	PF	B/S/N	S	120-50
		60				120-60
		100				120-100
125	130	60	PF	B/S/N	S	125-60
		100				125-100
130	135	60	PF	B/S/N	S	130-60
		100				130-100
135	140	60	PF	B/S/N	S	135-60
		80				135-80
		100				135-100
140	145	60	PF	B/S/N	S	140-60
		100				140-100
150	155	60	PF	B/S/N	S	150-60
		80				150-80
		100				150-100
155	160	60	PF	B/S/N	S	155-60
		100				155-100
160	165	60	PF	B/S/N	S	160-60
		80				160-80
		100				160-100
165	170	60	PF	B/S/N	S	165-60
		100				165-100

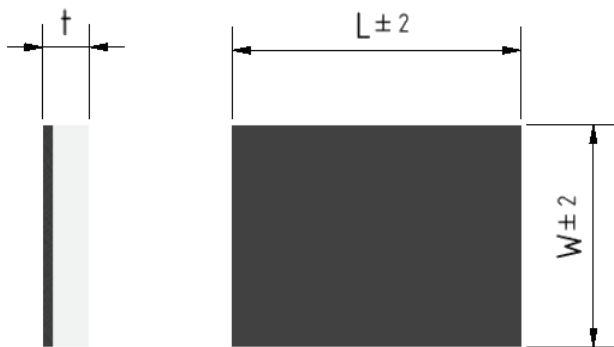
Dimension			Part Number			
↓ ID	OD	↓ L	Id.	Backing ↓	Type	Dimension Parameter
170	175	60	PF	B/S/N	S	170-60
		100				170-100
175	180	60	PF	B/S/N	S	175-60
		100				175-100
180	185	60	PF	B/S/N	S	180-60
		80				180-80
		100				180-100
190	195	60	PF	B/S/N	S	190-60
		100				190-100
200	205	60	PF	B/S/N	S	200-60
		100				200-100
205	210	60	PF	B/S/N	S	205-60
		100				205-100
210	215	60	PF	B/S/N	S	210-60
		100				210-100
215	220	60	PF	B/S/N	S	215-60
		100				215-100
220	225	60	PF	B/S/N	S	220-60
		100				220-100
230	235	60	PF	B/S/N	S	230-60
		100				230-100
240	245	60	PF	B/S/N	S	240-60
		100				240-100
250	255	60	PF	B/S/N	S	250-60
		100				250-100
280	285	60	PF	B/S/N	S	280-60
		100				280-100
300	305	60	PF	B/S/N	S	300-60
		100				300-100

THRUST WASHER



Dimension					Part Number			
↓ ID	WD	t min./max.	c	d min./max.	Id.	Backing ↓	Type	Dimension Parameter
10	20	1.450 1.500	15	1.5	PF	B/S/N	W	10-20
12	24		18	1.62 1.87	PF	B/S/N	W	12-24
14	26		20	2.12 2.37	PF	B/S/N	W	14-26
16	30		22		PF	B/S/N	W	16-30
18	32		25		PF	B/S/N	W	18-32
20	36		28	3.12 3.37	PF	B/S/N	W	20-36
22	38		30		PF	B/S/N	W	22-38
24	42		33		PF	B/S/N	W	24-42
26	44		35		PF	B/S/N	W	26-44
28	48		38	4.12 4.37	PF	B/S/N	W	28-48
32	54	1.950 2.000	43		PF	B/S/N	W	32-54
38	62		50		PF	B/S/N	W	38-62
42	66		54		PF	B/S/N	W	42-66
48	74		61		PF	B/S/N	W	48-74
52	78		65		PF	B/S/N	W	52-78
62	90		76		PF	B/S/N	W	62-90

BEARING PLATE



Dimension			Part Number			
↓ t min./max.	↓ W	L	Id.	Backing ↓	Type	Dimension Parameter
0.70	95	500	PF	B/S/N	P	95-07
0.74	200		PF	B/S/N	P	200-07
0.97	193		PF	B/S/N	P	193-1.0
1.01	200		PF	B/S/N	P	200-1.0
1.48	193		PF	B/S/N	P	193-1.5
1.52	254		PF	B/S/N	P	254-1.5
1.96	193		PF	B/S/N	P	193-2.0
2.00	254		PF	B/S/N	P	254-2.0
2.46	193		PF	B/S/N	P	193-2.5
2.50	254		PF	B/S/N	P	254-2.5
3.02	254		PF	B/S/N	P	254-3.0
3.06						