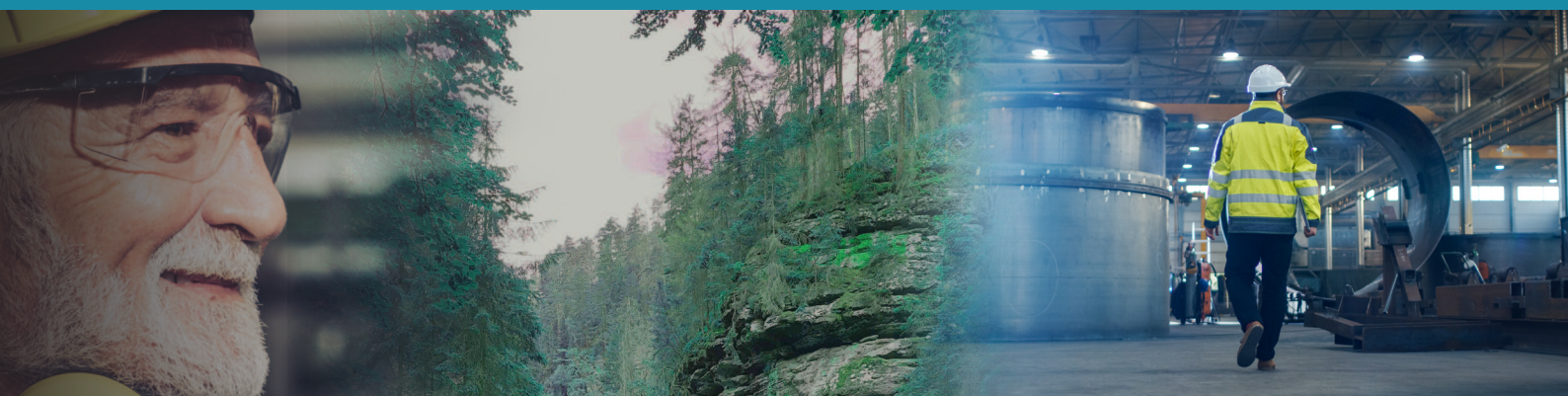




DATASHEET HOWA-BZ



Tin-Bronze with
Lubrication Pockets





FEATURES

- Available with diamond shaped grease pockets or through holes
- Ideal for high loads and low velocities
- Suitable for contaminated applications (due to grease protection)
- Long re-greasing intervals
- Robust and wear-resistant material for wide range of applications

TYPICAL INDUSTRIES

- Agriculture
- Forestry
- Construction
- Material Handling
- Hydraulic Cylinders

BEARING PARAMETERS

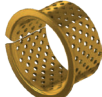
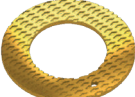
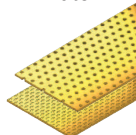
Load Capacity Maximum	dynamic	60	N/mm ²
	static	150	N/mm ²
Coefficient of Friction	dry	not advisable	
	greased	0.06 - 0.15	
Sliding Speed Maximum	greased	2.5	m/s
	in oil, hydrodynamic	8.0	m/s
PV Value		2.8	N/mm ² * m/s
Temperature Strain	minimum	-40	°C
	maximum	200	°C

MATING COMPONENTS

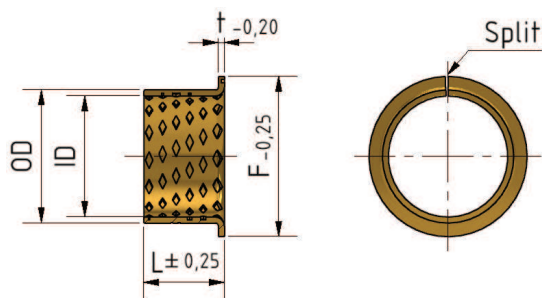
Housing Bore	Tolerance	H7
Shaft	Tolerance	h6...h8, g6...g8, f6...f8
	Hardness	> HB180
	Surface Roughness	Ra 0.2 - 0.8
	Material	1.0503 (C45), 1.7225 (42CrMo4)

PART NUMBER CREATION

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

Material Range	Type				Dimensional Parameters	Design Features
Identifier	 F - Flange	 S - Straight	 W - Washer	 P - Plate	ID - Inner Diameter L - Length WD - Washer Diameter W - Width	D - Dimple H - Holes
BZ	F / S / W / P				value1 - value2	D/H

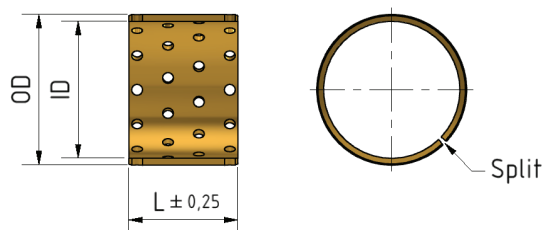
FLANGE-TYPE BEARINGS



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

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

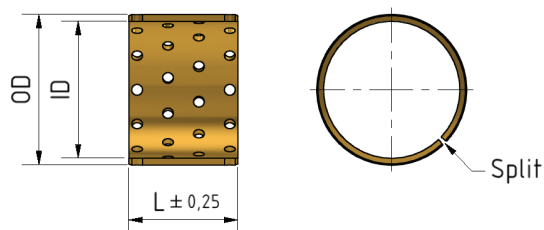
STRAIGHT – TYPE BEARINGS



Dimension			Part Number		
↓ ID	OD	↓ L	Id.	Type	Dimension Parameter
5	7	5	BZ	S	05-05
		8			05-08
		10			05-10
6	8	4	BZ	S	06-04
		6			06-06
		8			06-08
		10			06-10
7	9	10	BZ	S	07-10
8	10	6	BZ	S	08-06
		8			08-08
		10			08-10
		12			08-12
10	12	8	BZ	F	10-08
		10			10-10
		12			10-12
		15			10-15
		20			10-20
12	14	8	BZ	S	12-08
		10			12-10
		12			12-12
		15			12-15
		20			12-20
		25			12-25
13	15	10	BZ	S	13-10
		20			13-20
14	6	5	BZ	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.	Type	Dimension Parameter
15	17	10	BZ	S	15-10
		12			15-12
		15			15-15
		20			15-20
		25			15-25
16	18	10	BZ	S	16-10
		12			16-12
		15			16-15
		20			16-20
		25			16-25
17	19	15	BZ	S	17-15
		20			17-20
18	20	10	BZ	S	18-10
		15			18-15
		20			18-20
		25			18-25
20	22	10	BZ	S	20-10
		15			20-15
		20			20-20
20	23	10	BZ	S	20-10
		15			20-15
		20			20-20
		25			20-25
		30			20-30
		30			20-30
22	25	15	BZ	S	22-15
		20			22-20
		25			22-25
		30			22-30
		30			22-30
24	27	15	BZ	S	24-15
		20			24-20
		25			24-25
		30			24-30
24	28	15	BZ	S	24-15
		20			24-20
		25			24-25
		30			24-30
		30			24-30
25	28	12	BZ	S	25-12
		15			25-15
		20			25-20
		25			25-25
		30			25-30
		50			25-50

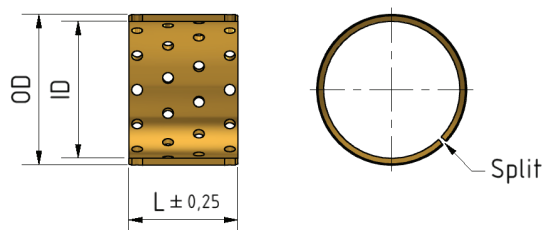
STRAIGHT – TYPE BEARINGS



Dimension			Part Number		
↓ ID	OD	↓ L	Id.	Type	Dimension Parameter
28	32	15	BZ	S	28-15
		20			28-20
		25			28-25
		30			28-30
30	34	10	BZ	S	30-10
		15			30-15
		20			30-20
		25			30-25
		30			30-30
32	36	40	BZ	S	32-40
		20			32-20
		30			32-30
35	39	40	BZ	S	35-40
		50			35-50
		20			35-20
		30			35-30
37	41	20	BZ	S	37-20
		30			40-30
		40			40-40
40	44	45	BZ	S	40-45
		50			40-50
		20			40-20
		30			45-30
45	50	40	BZ	S	45-40
		45			45-45
		50			45-50
		20			50-20
		25			50-25
50	55	30	BZ	S	50-30
		40			50-40
		50			50-50
		60			50-60

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

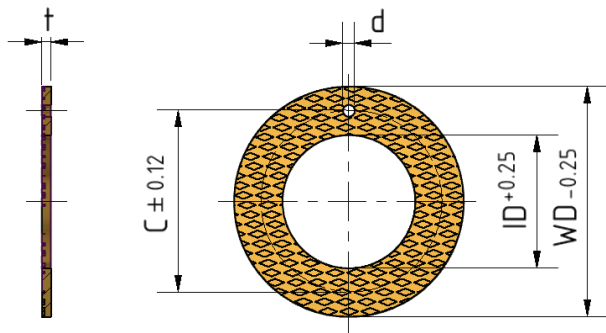
STRAIGHT – TYPE BEARINGS



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

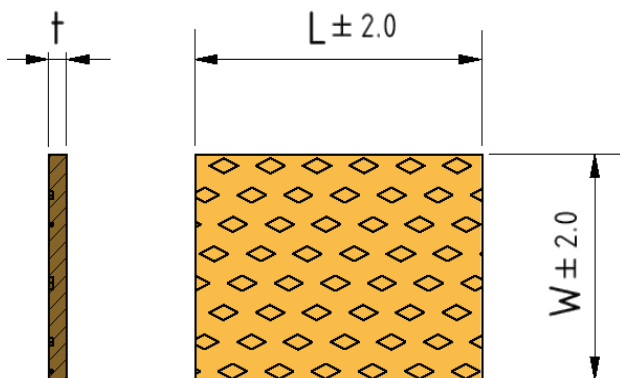
Dimension			Part Number		
↓ ID	OD	↓ L	Id.	Type	Dimension Parameter
170	175	60	BZ	S	170-60
		100			170-100
175	180	60	BZ	S	175-60
		100			175-100
180	185	60	BZ	S	180-60
		80			180-80
		100			180-100
190	195	60	BZ	S	190-60
		100			190-100
200	205	60	BZ	S	200-60
		100			200-100
205	210	60	BZ	S	205-60
	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

THRUST WASHER



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

BEARING PLATE



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