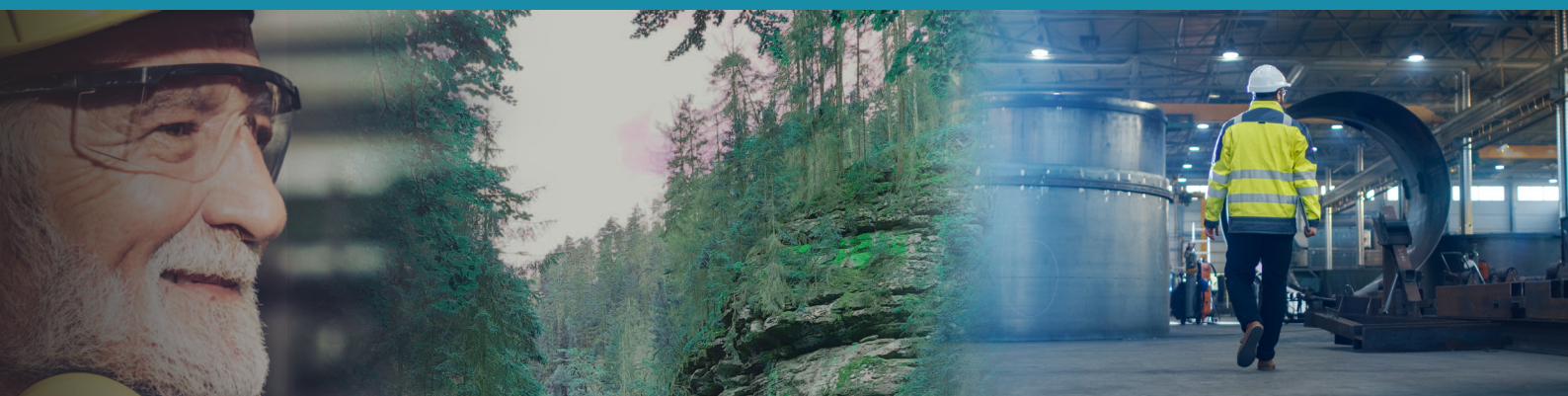




DATASHEET HOWA-PM



POM Resin on
Steel Backing





FEATURES

- Ideal for high loads and low sliding speeds
- Suitable for linear, rotating and oscillating movements
- Long re-greasing intervals
- Robust and wear-resistant material for wide range of applications

TYPICAL INDUSTRIES

- Agriculture
- Forestry
- Recreational and Sports Equipment
- Material Handling
- Hydraulic Cylinders

BEARING PARAMETERS

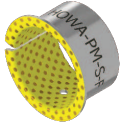
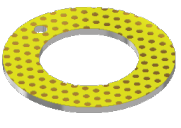
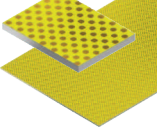
Load Capacity Maximum	dynamic	140	N/mm ²
	static	250	N/mm ²
Coefficient of Friction	greased	0.03 - 0.10	
	in oil	0.01 - 0.05	
Sliding Speed Maximum	greased	2.5	m/s
	in oil, hydrodynamic	8.0	m/s
PV Value		2.6	N/mm ² * m/s
Temperature Strain	minimum	-40	°C
	maximum	170	°C

MATING COMPONENTS

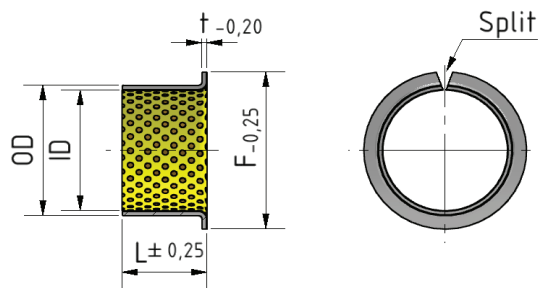
Housing Bore	Tolerance	H7
Shaft	Tolerance	h6...h8, g6...g8, f6...f8
	Hardness	▶ HB150 (light load applications) ▶ HB180 (high load applications)
	Surface Roughness	Ra 0.2 - 0.8
	Material	Corrosive Environments: not advisable Normal Environments: 1.0503 (C45), 1.7225 (42CrMo4)

PART NUMBER CREATION

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

Material Range	Type				Dimensional Parameters
Identifier	F - Flange 	S - Straight 	W - Washer 	P - Plate 	ID - Inner Diameter L - Length WD - Washer Diameter W - Width
PM	F / S / W / P				value1 - value2

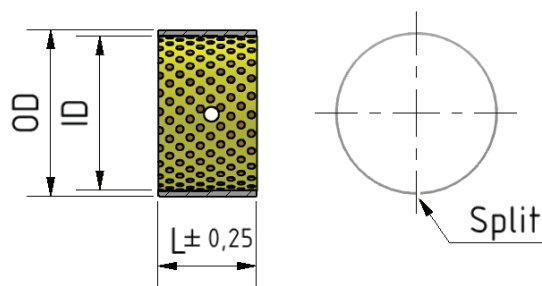
FLANGE-TYPE BEARINGS



Dimension					Part Number		
↓ ID	OD	F	↓ L	t	Id.	Type	Dimension Parameter
5	7	10	4	1	PM	F	05-04
			5				05-05
			6				05-06
6	8	12	4	1	PM	F	06-04
			7				06-07
			8				06-08
8	10	15	5.5	1	PM	F	08-5.5
			7.5				08-7.5
			9.5				08-9.5
10	12	18	7	1	PM	F	10-07
			9				10-09
			12				10-12
			17				10-17
12	14	20	7	1	PM	F	12-07
			9				12-09
			12				12-12
			17				12-17
14	16	22	12	1	PM	F	14-12
			17				14-17
15	17	23	9	1	PM	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	PM	F	16-12
			17				16-17
18	20	26	12	1	PM	F	18-12
			17				18-17
			22				18-22
20	23	30	11.5	1	PM	F	20-11.5
			16.5				20-16.5
			21.5				20-21.5
25	28	35	11.5	1	PM	F	25-11.5
			16.5				25-16.5
			21.5				25-21.5
30	34	42	16	2	PM	F	30-16
			26				30-26
35	39	47	16	2	PM	F	35-16
			26				35-26
40	44	53	16	2	PM	F	40-16
			26				40-26
45	50	58	16	2	PM	F	45-16
			26				45-26

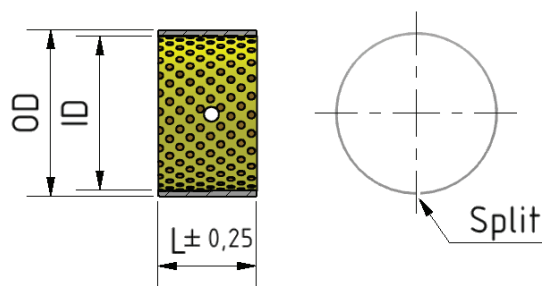
STRAIGHT – TYPE BEARINGS



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

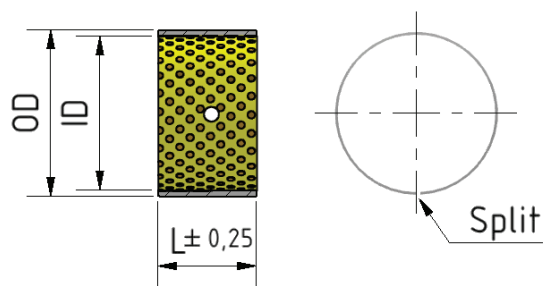
STRAIGHT – TYPE BEARINGS



Dimension			Part Number		
↓ ID	OD	↓ L	Id.	Type	Dimension Parameter
28	32	15	PM	S	28-15
		20			28-20
		25			28-25
		30			28-30
30	34	10	PM	S	30-10
		15			30-15
		20			30-20
		25			30-25
		30			30-30
32	36	20	PM	S	32-20
		30			32-30
		40			32-40
35	39	20	PM	S	35-20
		30			35-30
		35			35-35
		40			35-40
37	41	2	PM	S	37-2
40	44	20	PM	S	40-20
		30			40-30
		40			40-40
		45			40-45
45	50	20	PM	S	45-20
		30			45-30
		40			45-40
		45			45-45
50	55	50	PM	S	45-50
		20			50-20
		25			50-25
		30			50-30
		40			50-40
		50			50-50
		60			50-60

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

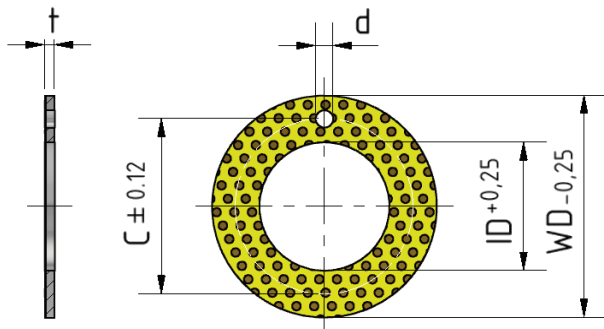
STRAIGHT – TYPE BEARINGS



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

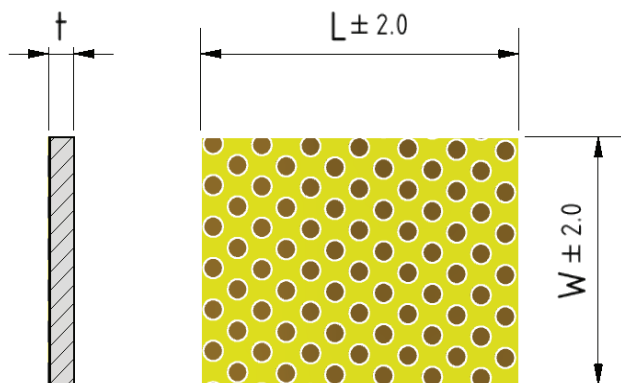
Dimension			Part Number		
↓ ID	OD	↓ L	Id.	Type	Dimension Parameter
170	175	60	PM	S	170-60
		100			170-100
175	180	60	PM	S	175-60
		100			175-100
180	185	60	PM	S	180-60
		80			180-80
		100			180-100
190	195	60	PM	S	190-60
		100			190-100
200	205	60	PM	S	200-60
		100			200-100
205	210	60	PM	S	205-60
		100			205-100
210	215	60	PM	S	210-60
		100			210-100
215	220	60	PM	S	215-60
		100			215-100
220	225	60	PM	S	220-60
		100			220-100
230	235	60	PM	S	230-60
		100			230-100
240	245	60	PM	S	240-60
		100			240-100
250	255	60	PM	S	250-60
		100			250-100
280	285	60	PM	S	280-60
		100			280-100
300	305	60	PM	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	PM	W	10-20
12	24		18	1.62 1.87	PM	W	12-24
14	26		20	2.12 2.37	PM	W	14-26
16	30		22		PM	W	16-30
18	32		25		PM	W	18-32
20	36		28	3.12 3.37	PM	W	20-36
22	38		30		PM	W	22-38
24	42		33		PM	W	24-42
26	44		35		PM	W	26-44
28	48		38	4.12 4.37	PM	W	28-48
32	54	1.950 2.000	43		PM	W	32-54
38	62		50		PM	W	38-62
42	66		54		PM	W	42-66
48	74		61		PM	W	48-74
52	78		65		PM	W	52-78
62	90		76		PM	W	62-90

BEARING PLATE



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