SPHERICAL PLAIN BEARINGS

Spherical plain bearings are slide bearings. These bearing rings have spherical plain surfaces. Due to sliding steam: steel/steel, these bearings are designed to withstand high unit loads on sliding surfaces, low-speed oscillating movements (peripheral or tilting), and variable loads.

These bearings are manufactured to ensure a slight wiping of the mating surfaces, even with very low lubrication. The sliding surfaces of both rings are subject to special finishing treatment, which ensures the lowest possible frictional resistance and high resistance to abrasion and seizure. The raceway of the outer rings features finely crystalline phosphate.

For bearings operating at high permanent loads or in the one-sided load direction, the rings are provided with grooves and holes for periodic re-lubrication. For this purpose, use normal running greases, preferably with the addition of molybdenum disulfide or lithium greases.

The bearing outer rings are made inseparable (divided in one place). It is recommended that the dividing lines are placed in the unloaded zone when the bearing is mounted. When mounting bearings in a housing, pressure can only be exerted on the outer ring using a “soft” sleeve with a suitable diameter, and on the inner ring when mounting bearings on the shaft. The rings should be adjacent to the drive shafts or housings and not to their curves.

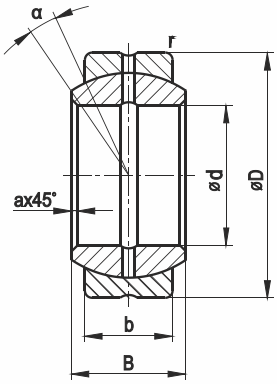
DEVELOPMENT CONDITIONS:

Recommended pivot design:

- floating bearing h6
- locating bearing m6

Recommended design of luminaire sockets:

- small load, floating bearing H7
- load capacity large M7



Application:

Machines and technical devices performing fluctuating movements in light industry, food, agriculture, printing, paper, tobacco and transport.

Delivery status:

Not lubricated. Wash before lubrication and installation.

Note:

Bearings with a bore diameter of 60 mm and larger lubricated with operating grease - do not wash.

If there is no contamination, lubrication is sufficient for the entire life cycle of the bearing.

Protected by maintenance oil, packed in corrosion inhibited anti-corrosion paper.

Designation	Dimensions						
	d	D	B	b	r	a	α
	mm	mm	mm	mm	mm	mm	grades
PGE 6[1)]	6	14	6	4	0,5	0,5	13
PGE 6X[1)]	6	16	9	5	0,5	0,5	21
PGE 8[1)]	8	16	8	5	0,5	0,5	15
PGE 8X[1)]		19	12	9	0,5	0,5	14
PGE 10[1)]	10	19	9	6	0,8	0,8	12
PGE 10X[1)]		22	14	10,5	0,8	0,8	13
PGE 12[1)]	12	22	10	7	0,8	0,4	11
PGE 12X[1)]		26	16	12	0,8	0,5	13
PGE 15	15	26	12	9	0,8	0,4	8
PGE 16	16	30	14	10	1,0	0,5	10
PGE 16X		32	21	15	0,8	0,3	15
PGE 17/30	17	30	14	10	1,0	0,5	10
PGE 17		32	14	10	1,0	0,5	10
PGE 18/32 XG[2)]	18	32	19	15	0,5	0,5	10
PGE 20	20	35	16	12	1,0	0,5	9
PGE 25	25	42	20	16	1,0	0,8	7
PGE 30	30	47	22	18	2,0	0,5	6
PGE 30/48	30	48	22	18	1,0	0,8	6
PGE 32/50 XG[2)]	32	50	22	18	1,0	0,8	6
PGE 32/62 XG	32	62	30	22	1,2	1,4	10
PGE 35	35	55	25	20	1,4	1,0	7
PGE 40/60	40	60	28	22	1,2	1,0	7
PGE 40	40	62	28	22	1,2	1,2	7
PGE 45	45	68	32	25	1,2	1,0	7
PGE 50	50	75	35	28	1,2	1,2	6
PGE 50/80	50	80	40	32	2,0	0,5	8
PGE 60	60	90	44	36	1,2	1,2	6
PGE 60/100 2RS	60	100	50	40	1,5	1,2	8
PGE 60/105		105	63	40	1,0	1,0	17
PGE 70 2RS	70	105	49	40	1,0	1,0	6
PGE 70s	74	105	47	40	2,5	0,5	6
PGE 80 2RS	80	120	55	45	1,0	1,0	6
PGE 80/130	80	130	75	50	1,5	1,2	14
PGE 90	90	130	60	50	1,5	1,2	5

1) - Standard version: without lubrication grooves.
2) - Standard design: with holes and lubrication groove in the inner ring only.
2RS - Version with two seals.