Spherilastik Bearings

A heavy duty flexible bearing which combines high load capacity with the ability to accommodate torsional and angular movements in all planes without lubrication and metal to metal wear. It is available with center bore or solid member depending on fixing requirements.

General guidance notes for selection:

- Properties quoted for the components in this document relate to continuous steading loading or deformation conditions
- For continuous dynamic cyclic loading or deformation, the maximum values should be reduced to approximately 30% of the figures quoted, depending on frequency.

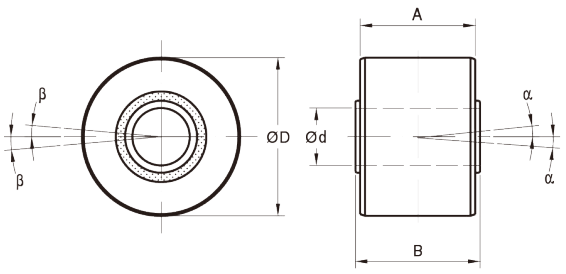
For medium and low incidence loading and deformation, the tabled values may be increased up to 2 to 3 times.
Combined stressing in the different modes and the effects of stress reversals may require a more critical assessment.

Typical Applications Include:

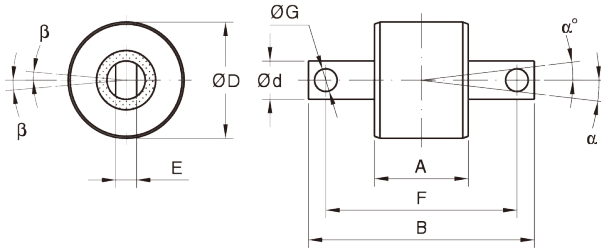
- Traction and braking reaction rods
- Hydraulic damper fixings

TECHNICAL DRAWING

SPERILASTIK® BEARINGS, CENTRE BORE TYPE



SPERILASTIK® BEARINGS, TRUNNION TYPE



Spherilastik Bearings

PRODUCT DATA

DRAWING NO.	PART NO.	DIMENSIONS (mm)									RADIAL		TORSION		CARDANIC	
		Housing		Ød	Tolerance for Ød	A	B	E	F	ØG	STIFFNESS (kN/mm)	MAX. LOAD (kN)	STIFFNESS (Nm/deg)	±β (degrees)	STIFFNESS (Nm/deg)	±α (degrees)
		ØD	Tolerance for ØD													
SPHERICAL MOUNT – CENTRE BORE																
054 18 036	90721	45	+0.086/-0.07	16	+0.043/-0	35	42	-	-	-	22	1	4	4	3	1
054 18 068	92525	65	+0.087/-0.04	16	+0.027/-0	32	60	-	-	-	23	18	8	4	4	1
13-1316	10-00257	66.7	+0/-0.04	25.4	+0.08/-0	47.6	54	-	-	-	70	34	16	8	16	6
054 18 191	93644	75	+0.089/-0.04	20	+0.033/-0	46	50	-	-	-	34	20	24	4	20	4
054 18 070	92041	90	+0.1/-0.05	30	+0.033/-0	45	76	-	-	-	85	45	47	3	40	3
13-2106-1	10-00291	90.5	+0.01/-0.03	28.6	+0.12/-0.02	70	76.2	-	-	-	100	58	49	8	49	6
13-1006	10-00237	90.5	+0.02/-0.03	28.6	+0.05/-0.03	70	76.2	-	-	-	93	58	49	8	49	6
054 18 163	93418	100	+0.1/-0.05	53	+0.03/-0	46.5	50	-	-	-	44	27	88	3	56	3
054 18 163	93643	100	+0.1/-0.05	53	+0.03/-0	46.5	50	-	-	-	50	34	110	3	64	3
13-1285	10-00255	104.8	+0/-0.04	38.1	+0.08/-0	76.2	82.6	-	-	-	90	78	79	8	49	7
054 18 122	2118217	110	+0.089/-0.05	40	+0.039/-0	76	78	-	-	-	73	67	75	3	57	3
13-1180	10-01099	127	+0.04/-0.02	44.5	+0.08/-0	101.6	104.8	-	-	-	87	93	119	7	108	7
13-4007	10-00273	127	+0.04/-0.02	50.1	+0.04/-0.1	101.6	104.8	-	-	-	260	220	262	6	227	5
13-2624	10-03344	127	+0.04/-0.02	31	+0.5/-0	101.6	120	-	-	-	87	93	119	7	108	7
054 18 756	509887	130	+0.067/-0.03	60	+0.03/-0	87	98	-	-	-	198	165	182	3	243	3
054 18 740	2124226	140	+0.185/-0.122	60	+0.03/-0	90	100	-	-	-	180	129	478	3	308	6
13-1990	10-03251	150	+0.07/-0.02	60	+0.1/-0	120	133.8	-	-	-	240	250	300	7	280	6
13-2623	10-03723	150	+0.07/-0.02	37	+0.25/-0	120	140	-	-	-	150	205	155	8	125	8
054 18 204	596836	172	+0.21/-0.15	80	+0.03/-0	120	138	-	-	-	126	105	445	3	295	3
SPHERICAL MOUNT – TRUNNION																
13-4089-00	10-01608	45	+0.05/-0.01	30	–	36	105	12	75	13	55	7	6	8	6	8
13-2202-1	10-00302	66.7	+0.1/-0	35	–	47.6	120	20	90	13	70	34	12	8	16	6
054 18 711	462023	66.67	+0.06/-0.03	40	+/- 0,25	47.6	135	16	96	18	76	25	34	3	24	3
054 18 710	465259	66.67	+0.06/-0.03	40	+/- 0,25	47.6	135	16	96	18	31	25	23	3	9	3
054 18 732	479059	66.67	+0.06/-0.03	40	+/- 0,25	47.6	160	18	120	18	76	25	27	3	20	3
13-2033	10-00283	84	+0.05/-0	40	–	65	155	20	120	17	150	75	49	6	49	6
054 18 202	90205	90	+0.18/-0.12	50	+/- 0,1	65	170	30	130	22	85	46	62	3	43	3
13-2192-1	10-00878	90.5	+0.01/-0.03	48	–	71.4	170	30	130	21	90	58	49	8	49	6
13-2400	10-03615	104.8	+0/-0.04	50.5	–	76.2	195	30	152	23	220	150	75	8	71	7
13-2607-1	10-02168	104.8	+0/-0.04	50.5	–	76.2	195	30	152	25	220	150	75	8	71	7
13-2223	10-00304	104.8	+0/-0.04	50.5	–	76.2	170	30	130	19	220	150	79	8	131	6
13-2568	10-02512	104.8	+0/-0.04	50.5	–	76.2	170	30	130	21	220	150	79	8	131	7
054 18 190	92834	110	+0.2/-0.14	54	+/- 0,2	80	200	32	150	26	50	59	66	4	47	4
054 18 702	500742	120	+0.2/-0.14	60	+/- 0,3	90	220	40	170	28	120	82	150	3	110	3
13-4011	10-04047	127	+0.04/-0.02	51.5	–	101.6	232	30	190	26	190	220	150	8	125	7
054 18 735	2123524	140	+0.23/-0.17	60	+/- 0,3	100	240	36	190	25	15	30	52	7	34	7