

WABO[®] SPHERICAL BEARING

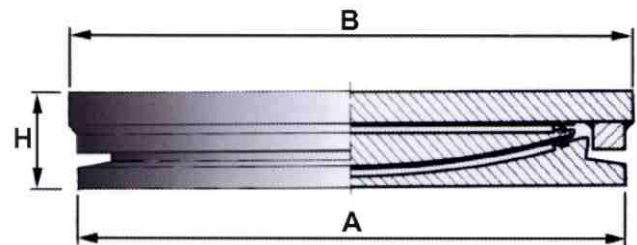
CHARACTERISTICS

The spherical bearing transfers force reliably and rotates smoothly. It not only has great bearing capacity, large displacement, etc. as the pan rubber bearing, but it is more suitable for bearings of large turning angles.

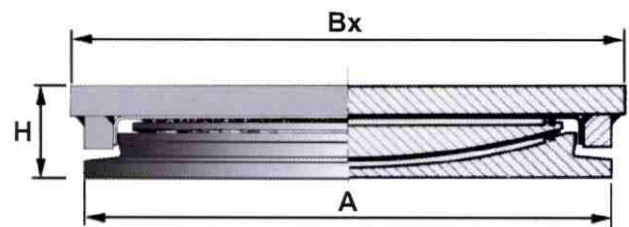
Compared with the pan bearing, it has the following advantages :

1. The bearing transfers force through the spherical surface, so no contraction of force will occur, and the reacting force on concrete is relatively even.
2. The bearing rotates through the sliding of the spherical UHMW-PE plate, with less turning moment, which is only related to the radius of the spherical face and the friction coefficient of the UHMW-PE plate, not subject to the turning angle of the bearing, so it is especially suitable for large turning angles. The design turning angle may be 0.05 rad or more.
3. The turning of the bearing is consistent in all directions so it is suitable for wide and curve bridges.
4. No rubber is used in the bearing so there is no problem of rubber aging affecting the bearing rotation, and it is especially suitable for cold areas.

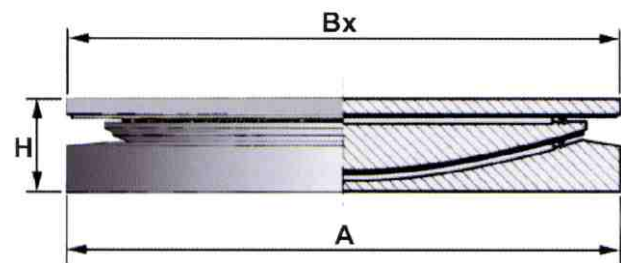
TYPES



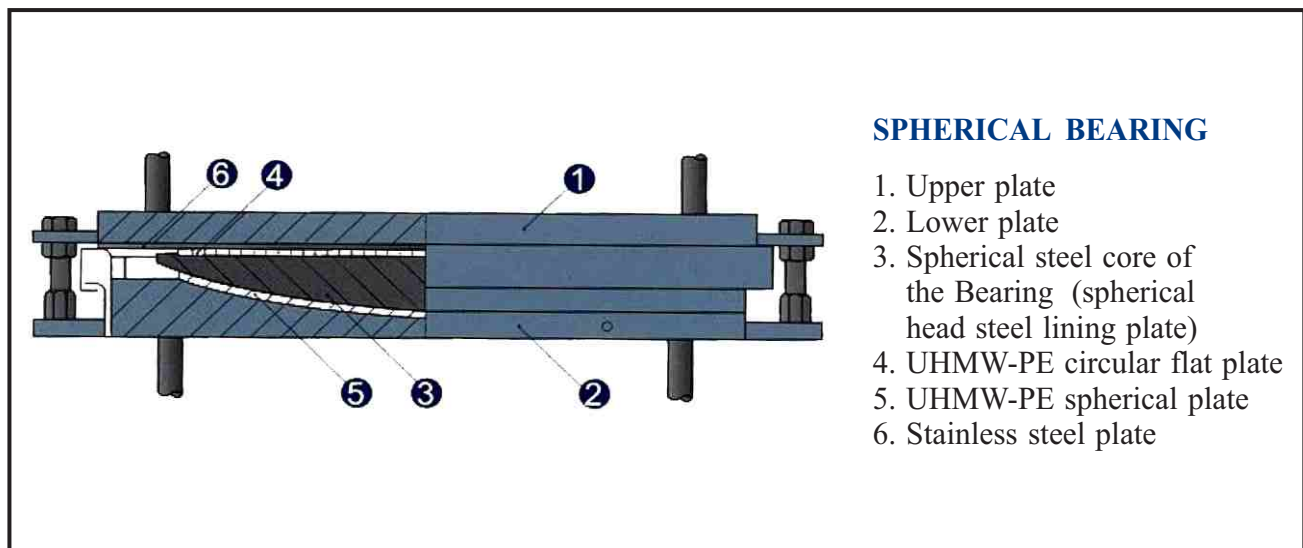
FIXED BEARING



GUIDED SLIDING BEARING



FREE SLIDING BEARING

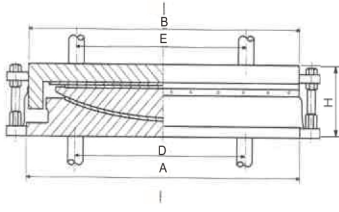
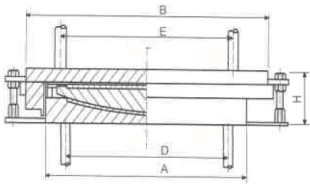
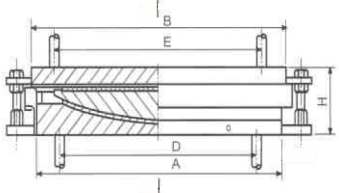


SPHERICAL BEARING

1. Upper plate
2. Lower plate
3. Spherical steel core of the Bearing (spherical head steel lining plate)
4. UHMW-PE circular flat plate
5. UHMW-PE spherical plate
6. Stainless steel plate

Anti friction element : UHMW-PE (Ultra High Molecular Weight Polyethylene)

TABLE DIMENSIONS

TYPE	LOAD kN	A mm	B mm	D mm	E mm	H mm
FIXED BEARING 	1000	330	320	260	340	79
	2000	440	430	340	420	89
	3000	530	520	410	500	110
	4000	590	580	460	570	115
	5000	650	640	500	610	127
	6000	710	700	550	680	137
	7000	770	760	600	730	147
	8000	810	800	630	780	152
	9000	860	850	670	820	162
	10000	900	890	695	850	167
	12500	970	960	750	840	191
	15000	1050	1040	810	900	207
	17500	1110	1110	870	960	211
	20000	1170	1160	920	1020	227
GUIDED SLIDING BEARING 	1000	300	410	240	290	79
	2000	400	510	320	360	89
	3000	480	600	380	420	110
	4000	540	670	430	470	115
	5000	600	710	490	530	127
	6000	660	780	530	570	137
	7000	710	840	570	610	147
	8000	740	880	605	645	152
	9000	790	930	640	680	162
	10000	825	960	665	705	167
	12500	910	990	710	790	191
	15000	990	1080	790	880	207
	17500	1050	1150	810	910	211
	20000	1110	1210	870	970	227
FREE SLIDING BEARING 	1000	300	350	240	290	79
	2000	400	440	320	360	89
	3000	480	520	380	420	110
	4000	540	580	430	470	115
	5000	600	640	490	530	127
	6000	660	700	530	570	137
	7000	710	750	570	610	147
	8000	740	780	605	645	152
	9000	790	830	640	680	162
	10000	825	865	665	705	167
	12500	910	940	710	790	191
	15000	990	1020	790	880	207
	17500	1050	1080	810	910	211
	20000	1110	1140	870	970	227

Rotation capacity +/- 0.05radians.

For further information, Contact :



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