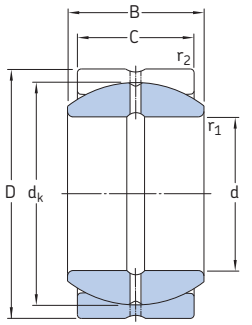
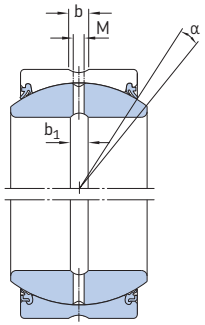
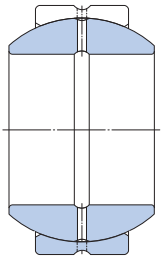
Radial spherical plain bearings, steel/steel, inch sizes
d **4.5 – 6** in



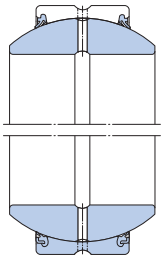
GEZ .. ES



GEZ .. ES-2RS
GEZ .. ES-2LS



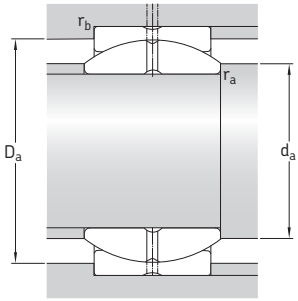
GEZH .. ES



GEZH .. ES-2RS
GEZH .. ES-2LS

Principal dimensions				Angle of tilt[1]	Basic load ratings dynamic	static	Mass	Designations without seals	suffix for seal variants standard	heavy-duty
d	D	B	C	α	C	C_0				
in/*mm*				degrees	lbf/*kN*		lb/*kg*	–		
4.5	7.0000	3.937	3.375	6	252 000	765 000	21.5	**GEZ 408 ES**	**-2RS**	**-2LS**
114,300	*177,800*	*100,00*	*85,73*		*1 120*	*3 400*	*9,80*			
	7.7500	4.690	3.750	9	315 000	933 750	36.0	**GEZH 408 ES**	**-2RS**	**-2LS**
	196,850	*119,17*	*95,25*		*1 400*	*4 150*	*16,5*			
4.75	7.3750	4.156	3.562	6	281 250	843 750	25.5	**GEZ 412 ES**	**-2RS**	**-2LS**
120,650	*187,325*	*105,56*	*90,48*		*1 250*	*3 750*	*11,5*			
5	7.7500	4.375	3.750	6	315 000	933 750	30.0	**GEZ 500 ES**	**-2RS**	**-2LS**
127,000	*196,850*	*111,13*	*95,25*		*1 400*	*4 150*	*13,5*			
5.5	8.7500	4.950	4.125	7	389 250	1 170 000	45.5	**GEZH 508 ES**	**-2RS**	**-2LS**
139,700	*222,250*	*125,73*	*104,78*		*1 730*	*5 200*	*20,5*			
6	8.7500	4.750	4.125	5	389 250	1 170 000	38.5	**GEZ 600 ES**	**-2RS**	**-2LS**
152,400	*222,250*	*120,65*	*104,78*		*1 730*	*5 200*	*17,5*			

[1] To fully utilize the angle of tilt, the shaft shoulder should not be larger than $d_{a\ max}$.



Dimensions							Abutment and fillet dimensions						
d	d_k	b	b_1	M	r_1[1] min	r_2[2] min	d_a min	d_a max	D_a min	$D_{a\ sealed}$ min	D_a max	r_a max	r_b max
in/*mm*							in/*mm*						
4.5	6.4750	0.433	0.394	0.315	0.039	0.043	4.82	5.14	6.16	6.18	6.73	0.039	0,043
114,300	*164,465*	*11*	*10*	*8*	*1*	*1,1*	*122,5*	*130,5*	*156,5*	*157*	*171*	*1*	*1,1*
	7.1900	0.433	0.394	0.315	0.079	0.043	4.96	5.45	6.83	6.91	7.42	0.079	0,043
	182,626	*11*	*10*	*8*	*2*	*1,1*	*126*	*138,4*	*173,5*	*175,5*	*188,5*	*2*	*1,1*
4.75	6.8250	0.433	0.394	0.315	0.039	0.043	5.08	5.41	6.5	6.56	7.05	0.039	0,043
120,650	*173,355*	*11*	*10*	*8*	*1*	*1,1*	*129*	*137,5*	*165*	*166,5*	*179*	*1*	*1,1*
5	7.1900	0.433	0.394	0.315	0.039	0.043	5.33	5.69	6.83	6.91	7.42	0.039	0,043
127,000	*182,626*	*11*	*10*	*8*	*1*	*1,1*	*135,5*	*144,5*	*173,5*	*175,5*	*188,5*	*1*	*1,1*
5.5	8.1560	0.591	0.433	0.315	0.079	0.043	5.98	6.46	7.76	7.78	8.41	0.079	0,043
139,700	*207,162*	*15*	*11*	*8*	*2*	*1,1*	*152*	*164*	*197*	*197,5*	*213,5*	*2*	*1,1*
6	8.1560	0.591	0.433	0.315	0.039	0.043	6.34	6.61	7.76	7.78	8.41	0.039	0,043
152,400	*207,162*	*15*	*11*	*8*	*1*	*1,1*	*161*	*168*	*197*	*197,5*	*213,5*	*1*	*1,1*

[1] Equal to maximum shaft fillet radius $r_{a\ max}$.
[2] Equal to maximum housing fillet radius $r_{b\ max}$.