



F = Force in Newtons at 75% deflection

Part no	Bearing code	De	Di	t	lo	ho	F at 75% ho
BB986202	623	9.8	6.2	0.20	0.40	0.20	23
BB12872025	624	12.8	7.2	0.25	0.50	0.25	29
BB15882025	625 634	15.8	8.2	0.25	0.55	0.30	23
BB1889203	626 635	18.8	9.2	0.30	0.65	0.35	23
BB188102035	607	18.8	10.2	0.35	0.70	0.35	31
BB218123035	608 627	21.8	12.3	0.35	0.75	0.40	46
BB23714304	609	23.7	14.3	0.40	0.90	0.50	81
BB25714304	6000 629	25.7	14.3	0.40	0.90	0.50	63
BB27717304	6001	27.7	17.3	0.40	1.00	0.60	80
BB29717404	6200	29.7	17.4	0.40	1.10	0.70	83
BBP31720404	6002 6201	31.7	20.4	0.40	1.10	0.70	81
BBP34620404	6300	34.6	20.4	0.40	1.10	0.70	61
BB34622405	6003 6202	34.6	22.4	0.50	1.20	0.70	118
BB36620405	6301	36.6	20.4	0.50	1.30	0.80	110
BB39625505	6203	39.6	25.5	0.50	1.30	0.80	110
BB41625505	6004 6302	41.6	25.5	0.50	1.40	0.90	113
BB46530506	6005 6204 6303	46.5	30.5	0.60	1.50	0.90	153
BB51535506	6205 6304	51.5	35.5	0.60	1.50	0.90	135
BB54540506	6006	54.5	40.5	0.60	1.50	0.90	141
BB61540507	6007 6206 6305	61.5	40.5	0.70	1.80	1.10	176
BB67550507	6008	67.5	50.5	0.70	1.70	1.00	161
BB71545507	6306	71.5	45.5	0.70	2.10	1.40	185
BB71550507	6207	71.5	50.5	0.70	2.10	1.40	218
BB74555508	6009	74.5	55.5	0.80	1.90	1.10	211
BB79550508	6307	79.5	50.5	0.80	2.30	1.50	228
BB79555508	6010 6208	79.5	55.5	0.80	2.30	1.50	263
BB84560509	6209	84.5	60.5	0.90	2.50	1.60	359
BB89560509	6308	89.5	60.5	0.90	2.50	1.60	288
BB89565509	6011 6210	89.5	65.5	0.90	2.50	1.60	335
BB945755010	6012	94.5	75.5	1.00	2.20	1.20	325
BB99655010	6309	99.0	65.5	1.00	2.60	1.60	292
BB99705010	6013 6211	99.0	70.5	1.00	2.60	1.60	332
BB109705125	6310	109.0	70.5	1.25	2.70	1.45	357
BB109755125	6014 6212	109.0	75.5	1.25	2.70	1.45	398
BB114905125	6015	114.0	90.5	1.25	2.45	1.20	398
BB119755125	6311	119.0	75.5	1.25	2.80	1.55	320
BB119855125	6213	119.0	85.5	1.25	2.80	1.55	393
BB124905125	6016 6214	124.0	90.5	1.25	3.00	1.75	445
BB129855125	6312	129.0	85.5	1.25	3.20	1.95	405
BB129955125	6017 6215	129.0	95.5	1.25	3.20	1.95	500
BB139905125	6313	139.0	90.5	1.25	3.25	2.00	354
BB139101125	6018 6216	139.0	101.0	1.25	3.25	2.00	429
BB14995515	6314	149.0	95.5	1.50	3.20	0.00	379
BB14910615	6020 6217	149.0	106.0	1.50	3.20	0.00	450
BB15910115	6315	159.0	101.0	1.50	3.50	2.00	412
BB15911115	6021 6218	159.0	111.0	1.50	3.50	2.00	477
BB16911115	6316	169.0	111.0	1.50	3.80	2.30	470
BB16912115	6022 6219	169.0	121.0	1.50	3.80	2.30	546
BB1791212	6317	179.0	121.0	2.00	4.20	2.20	864
BB1791262	6024 6220	179.0	126.0	2.00	4.20	2.20	928

BB1891212	6318		189.0	121.0	2.00	4.30	2.30	759	
BB1891312	6221		189.0	131.0	2.00	4.30	2.30	858	
BB1981312	6319		198.0	131.0	2.00	4.50	2.50	812	
BB1981412	6026	6222	198.0	141.0	2.00	4.50	2.50	922	
BB213151225	6224	6320	213.0	151.0	2.25	4.50	2.25	942	
BB223161225	6030	6321	223.0	161.0	2.25	4.60	2.35	942	
BB228161225	6226		228.0	161.0	2.25	4.95	2.70	1036	
BB238161225	6032	6322	238.0	161.0	2.25	5.25	3.00	1021	
BB24817125	6228		248.0	171.0	2.50	5.00	2.50	1005	
BB25817125	6034	6324	258.0	171.0	2.50	5.50	3.00	1106	
BB26818125	6230		268.0	181.0	2.50	5.70	3.20	1155	
BB27818125	6036	6326	278.0	181.0	2.50	6.00	3.50	1155	
BB288191275	6038	6232	288.0	191.0	2.75	5.75	3.00	1145	
BB298191275	6328		298.0	191.0	2.75	6.35	3.60	1307	
BB3082023	6040	6234	308.0	202.0	3.00	6.10	3.10	1300	
BB3182123	6236	6330	318.0	212.0	3.00	6.20	3.20	1302	
BB3382323	6044	6238	6332	338.0	232.0	3.00	6.60	3.60	1415
BB3582423	6048	6240	6334	358.0	242.0	3.00	7.00	4.00	1424

Ball - Bearing Pre-Load Disc Springs are manufactured from high carbon steel, heat treated for ultimate ductility and hardness and carry a phosphate and oil finish as standard.

If a more arduous corrosive application is required, then please contact us, where we will be happy to discuss various options.

Ball Bearing Pre-Load Disc Springs are especially designed for use with radial ball bearings and maintain positioning accuracy of the bearing with no end play. These Springs minimise vibration and shaft deflection. Proper pre-loading will increase bearing rigidity and help eliminate excessive running noise.

Advantages of Ball-Bearing Pre-Loaded Disc Springs:-

- ✱ Take up manufacturing tolerances
- ✱ Quietens bearings
- ✱ Reduces numbers of components and simplifies fitting
- ✱ Load evenly applied around bearing outer ring
- ✱ Automatic bearing alignment with a light pre-load
- ✱ Minimises axle space
- ✱ Small load change with axial deflection

Caution should be exercised if this type of Disc is used in a series stack arrangement (back to back).

If the cone height / thickness ratio is 1.5 and above, the stack could be prone to collapse.