

SBT

SPHERICAL | SELF-LUBRICATING | WIDE

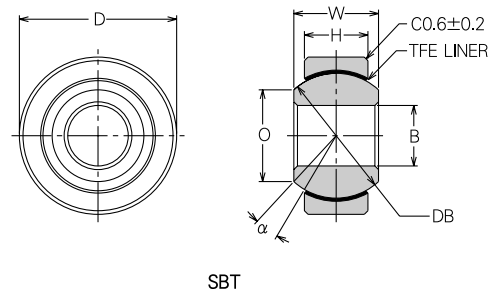
Materials

RACE 410 Stainless Steel
 BALL 440C Stainless Steel
 LINER Teflon / Fabric

Description of Types

SBT D xx T

- No Letter Indicates Standard Breakaway Torque
- Letter "T" Indicates Low Breakaway Torque
- Bearing Bore Code
- For X-1276 LINER add suffix "D"
- Basic Part No.



Dimensions in mm

MINEBEA Part No.	φB H7	φD 0 -0.013	W 0 -0.13	H ± 0.13	α (deg.)	φO Ref.	SφDB Ref.	No Load Rotational Breakaway Torque N·m	Static Limit Load kN		Dynamic Load kN	Approx. Weight g
								Standard	Radial	Axial		
SBT3	3	12	6	4.50	11	6.8	9.042	0.06 ~ 0.57 {0.6 ~ 5.8kgf·cm}	13.72	1.56	6.27	5
SBT4	4	14	7	5.25	12	7.6	10.319		17.65	2.25	8.04	7
SBT5	5	16	8	6.00	11	8.8	11.906	0.12 ~ 0.57 {1.2 ~ 5.8kgf·cm}	24.51	2.94	11.17	10
SBT6	6	18	9	6.75	10	11.1	14.288		36.28	3.72	16.57	14
SBT8	8	22	12	9.00	12	12.7	17.462		58.83	6.76	26.87	26
SBT10	10	26	14	10.50		15.2	20.638		81.39	9.21	37.16	42
SBT12	12	30	16	12.00	11	17.6	23.812		114.73	18.63	52.46	62
SBT14	14	34	19	13.50	14	19.2	26.988		147.09	23.53	67.27	89
SBT16	16	38	21	15.00	13	22.7	30.956	186.32	29.41	85.12	125	
SBT18	18	42	23	16.50		24.1	33.338	215.74	35.30	98.65	165	
SBT20	20	46	25	18.00	12	28.8	38.100	0.23 ~ 0.90 {2.3 ~ 9.2kgf·cm}	274.58	42.16	125.52	220
SBT22	22	50	28	20.00	13	30.3	41.275		333.42	51.97	152.39	285
SBT25	25	56	31	22.00	14	32.4	44.847	0.33 ~ 1.70 {3.4 ~ 17.3kgf·cm}	404.03	65.21	184.65	380
SBT30	30	66	37	25.00	16	38.2	53.181		545.24	84.33	249.28	605

Notes

1. Teflon liner permanently bonded to race I.D.
 2. Made to order only.
 3. No Load Rotational Breakaway Torque.
 Low Torque All Size: 0.02N·m MAX
 (Radial Clearance 0.05mm MAX)
- Please consult Minebea for availability of bearings in this series.

Bore size	~ 3	~ 6	~ 10	~ 18	~ 30
H7 Tolerance (μm)	+ 10 0	+ 12 0	+ 15 0	+ 18 0	+ 21 0