

MBYT, MBYT-V

SPHERICAL

SELF-
LUBRICATINGHIGH
MISALIGNMENT

Materials

RACE 410 Stainless Steel / Heat Treated

BALL 440C Stainless Steel / Heat Treated

LINER Teflon / Fabric

Description of Types

MBYT D xx V T

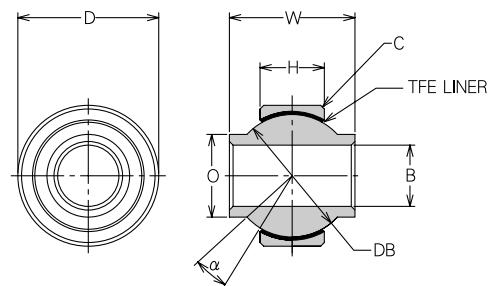
No Letter Indicates Standard Breakaway Torque
 Letter "T" Indicates Low Breakaway Torque

No Letter Indicates Chamfer Type
 Letter "V" Indicates V-Groove Type

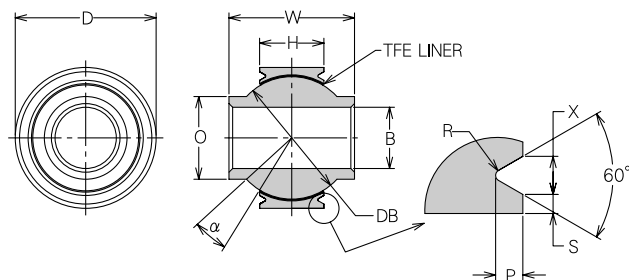
Bearing Bore Code

For X-1276 LINER add suffix "D"

Basic Part No.



MBYT



MBYT-V

Dimensions in mm

MINEBEA Part No.	φ B H7	φ D 0 − 0.013	W 0 − 0.13	H ± 0.13	α (deg.)	φ O Ref.	S φ DB Ref.	No Load Rotational Breakaway Torque N · m	Chamfer	Staking Groove				Static Limit Load kN		Dynamic Load kN	Approx. Weight g				
								Standard	C ± 0.2	S 0 − 0.25	X 0 − 0.25	R 0 − 0.25	P 0 − 0.4	Radial	Axial						
MBYT5/MBYT5V	5	14	12.5	5.0	17	8.0	11.1	0.06 ~ 0.57 {0.6 ~ 5.8kgf · cm}	0.5	0.5	1.0	0.4	0.7	18.63	1.96	7.84	8				
MBYT6/MBYT6V	6	19	15.0	6.5	23	10.0	15.1	0.12 ~ 0.57 {1.2 ~ 5.8kgf · cm}	0.6					0.7	1.4	0.5	1.0	36.26	3.43	14.70	18
MBYT8/MBYT8V	8	18	16.0		20	10.5				5.97	32.34	42									
MBYT10/MBYT10V	10	23	20.5	8.5	22	13.5	20.0						63.70					28.42	32		
MBYT12/MBYT12V	12	26	22.0		16.0	22.5	72.03			32.34	42										
MBYT14/MBYT14V	14	29	23.5	10.0	20	19.0	26.0			98.00	8.33	44.10	60								
MBYT15/MBYT15V	15	33	26.0	12.0	19	20.0	28.0			135.24	18.62	60.76	86								
MBYT16/MBYT16V	16	35	30.5	14.0	21	21.5	31.8			179.34	25.48	80.36	120								
MBYT18/MBYT18V	18	38	33.0	14.5	15	23.5	32.0	0.23 ~ 0.90 {2.3 ~ 9.2kgf · cm}	0.8	2.0	1.5			187.18	27.44	83.30	135				
MBYT20/MBYT20V	20	40	35.5	15.5	18	25.0	35.0		1.0					219.52	31.36	98.00	155				
MBYT22/MBYT22V	22	44				29.0	38.8							243.04		108.78	200				

Notes

- Teflon liner permanently bonded to race I.D.
- MBYT & MBYT-V weights are similar.
- Made to order only.
- 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