

MBY-CR, MBY-VCR

SPHERICAL METAL TO METAL HIGH MISALIGNMENT

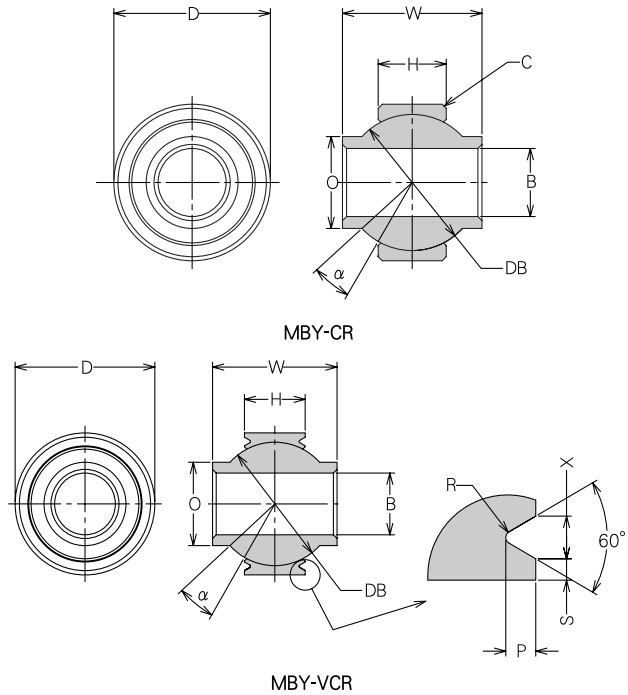
Materials

RACE 410 Stainless Steel
 BALL 440C Stainless Steel

Description of Types

MBY xx V CR G A

- No Letter Indicates no lubrication hole and groove on Ball I.D.
- Letter "A" Indicates lubrication hole and groove on Ball I.D.
- No Letter Indicates nooooo lubrication hole and groove on Race O.D.
- Letter "G" Indicates lubrication hole and groove on Race O.D.
- No Letter Indicates Chamfer Type
- Letter "V" Indicates V-Groove Type
- Bearing Bore Code
- 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.	Chamfer C ± 0.2	Staking Groove				Static Limit Load kN		Approx. Weight g
									S 0 - 0.25	X 0 - 0.25	R 0 - 0.25	P 0 - 0.4	Radial	Axial	
MBY3CR	3	10.0	8.0	3.0	29	5.0	8.00	0.3	0.5	1.0	0.4	0.7	11.76	1.27	3
MBY4CR	4	12.0	10.5	4.0		6.0	10.00						20.49	2.35	5
MBY5CR/MBY5VCR	5	14.0	12.5	5.0	17	8.0	11.10	0.5	0.5	1.0	0.4	0.7	28.43	3.62	8
MBY6CR/MBY6VCR	6	19.0	15.0	6.5	23	10.0	15.10						50.50	6.27	18
MBY8CR/MBY8VCR	8	18.0	16.0		20	10.5		0.6	0.7	1.4	0.5	1.0	87.57	10.68	32
MBY10CR/MBY10VCR	10	23.0	20.5	8.5	22	13.5	20.00						98.06	42	42
MBY12CR/MBY12VCR	12	26.0	22.0		20	19.0	26.00	0.6	0.7	1.0	1.5	133.37	14.80	60	
MBY14CR/MBY14VCR	14	29.0	23.5	10.0	20	19.0	26.00					172.59	33.73	86	
MBY15CR/MBY15VCR	15	33.0	26.0	12.0	19	20.0	28.00	0.8	0.7	1.4	0.5	1.0	228.49	45.99	120
MBY16CR/MBY16VCR	16	35.0	30.5	14.0	21	21.5	31.80						238.30	49.32	135
MBY18CR/MBY18VCR	18	38.0	33.0	14.5	15	23.5	32.00	1.0	0.7	1.4	0.5	1.0	279.48	56.38	155
MBY20CR/MBY20VCR	20	40.0	35.5	15.5	18	25.0	35.00						308.90		200
MBY22CR/MBY22VCR	22	44.0				29.0	38.80								

Notes

1. MBY - CR & MBY - VCR weights are similar.
 2. Made to order only.
 - (3) For below 4mm in Bore size, bearings are without lubrication grooves.
 4. Radial Clearance All Size: 0.051mm 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