

# MBY-CR, MBY-VCR

**SPHERICAL METAL TO METAL HIGH MISALIGNMENT**

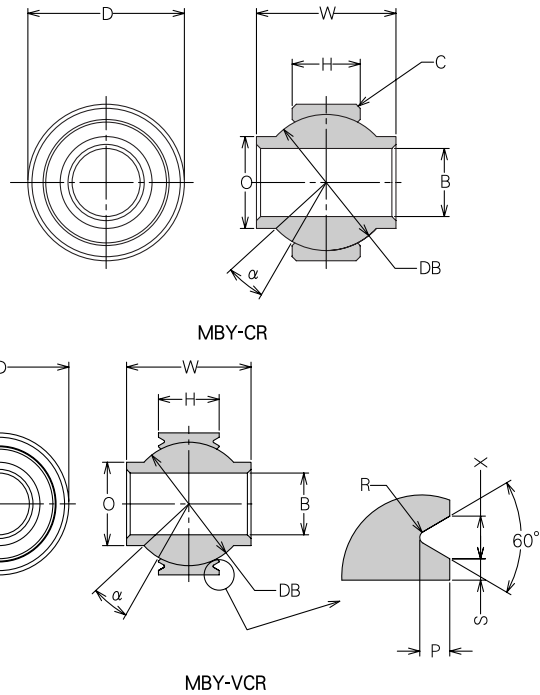
**Materials**

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	172.59	33.73	86		
MBY14CR/MBY14VCR	14	29.0	23.5	10.0	20	19.0	26.00				228.49	45.99	120		
MBY15CR/MBY15VCR	15	33.0	26.0	12.0	19	20.0	28.00	0.8	2.0	1.5	238.30	49.32	135		
MBY16CR/MBY16VCR	16	35.0	30.5	14.0	21	21.5	31.80				279.48	56.38	155		
MBY18CR/MBY18VCR	18	38.0	33.0	14.5	15	23.5	32.00	1.0	2.0	1.5	308.90	56.38	200		
MBY20CR/MBY20VCR	20	40.0	35.5	15.5	18	25.0	35.00				308.90	56.38	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