



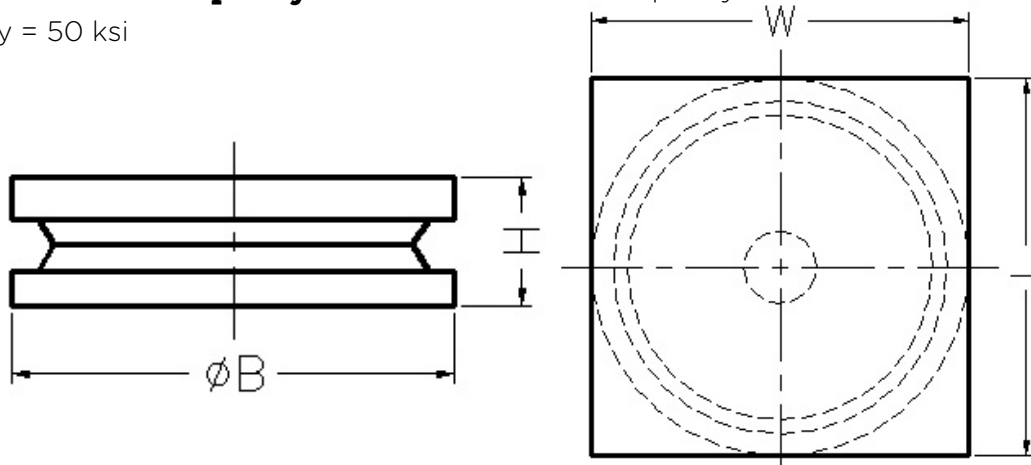
# HLMR Disk Bearing Fixed

**Design Code:** AASHTO 17<sup>th</sup> Edition Standard and/or LRFD Service Limit.

**Rotation:** ±0.02 Radians

**Design Horizontal Capacity:** 10% of Vertical Load Capacity

**Steel:**  $F_y = 50$  ksi



Model Number	Vertical Load Capacity (Kips)	Horizontal Load Capacity (Kips)	Length L (inches)	Width W (inches)	Base B (inches)	Height H (inches)
DB100F	100	10	6.50	6.50	6.50	1.88
DB200F	200	20	8.38	8.38	8.38	2.13
DB300F	300	30	10.38	10.38	10.38	2.63
DB400F	400	40	11.88	11.88	11.88	2.88
DB500F	500	50	13.13	13.13	13.13	3.01
DB600F	600	60	14.25	14.25	14.25	3.25
DB700F	700	70	15.50	15.50	15.50	3.51
DB800F	800	80	16.50	16.50	16.50	3.88
DB900F	900	90	17.63	17.63	17.63	4.13
DB1000F	1000	100	18.38	18.38	18.38	4.13
DB1100F	1100	110	19.25	19.25	19.25	4.38
DB1200F	1200	120	20.25	20.25	20.25	4.75
DB1300F	1300	130	20.88	20.88	20.88	4.75
DB1400F	1400	140	22.00	22.00	22.00	5.00
DB1500F	1500	150	22.50	22.50	22.50	5.13
DB1600F	1600	160	23.25	23.25	23.25	5.63
DB1700F	1700	170	24.00	24.00	24.00	5.75
DB1800F	1800	180	24.75	24.75	24.75	5.75
DB1900F	1900	190	25.38	25.38	25.38	6.13
DB2000F	2000	200	26.13	26.13	26.13	6.13
DB2500F	2500	250	29.13	29.13	29.13	7.00
DB3000F	3000	300	31.75	31.75	31.75	7.13
DB3500F	3500	350	34.38	34.38	34.38	7.75
DB4000F	4000	400	36.63	36.63	36.63	8.00
DB4500F	4500	450	38.88	38.88	38.88	8.63
DB5000F	5000	500	40.75	40.75	40.75	8.76

- Design loads are Service loads. Contact RJW design team for bearing dimensions according to other design codes, i.e., AREMA, CAN/CSA, etc. ([www.rjwatson.com/services/design-services](http://www.rjwatson.com/services/design-services))
- Bearing top plate can be used as the sole plate. Sole plate is designed for a welded connection to a steel girder flange or embed plate. Sole plate dimensions may vary for a bolted connection.
- Bearing dimensions are based on zero skew. Top and bottom bearing elements can be oriented at different skew angles to suit varying structure conditions.
- Design movement is the total and includes an additional +/- 1 inch for construction tolerances. Adjust slide plate dimension L if more/less movement is required.
- Masonry plate is not included. Contact RJW design team for masonry plate design assistance.