RJ Watson Inc

HLMR Disk Bearing

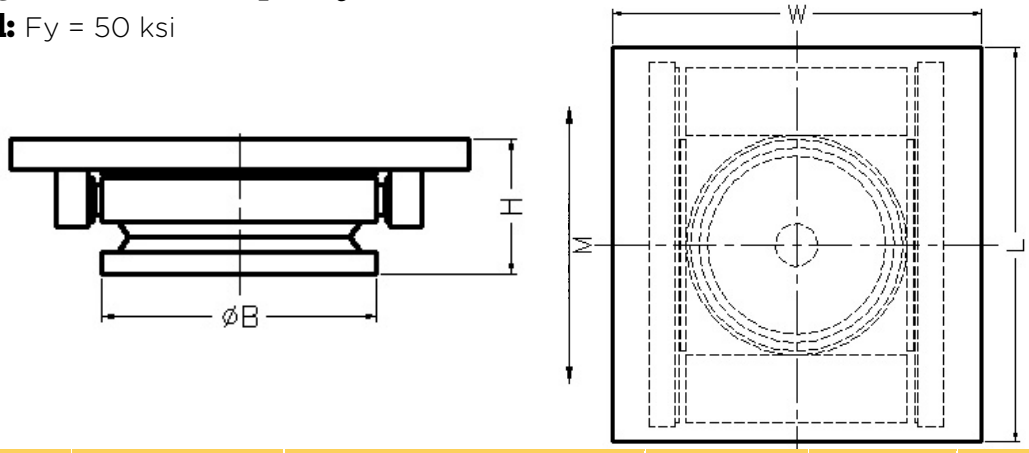
Unidirectional

Design Code: AASHTO 17th Edition Standard and/or LRFD Service Limit.

Rotation: ±0.02 Radians

Design Horizontal Capacity: 30% of Vertical Load Capacity

Steel: Fy = 50 ksi



Model Number	Vertical Load Capacity (Kips)	Horizontal Load Capacity (Kips)	Length L (inches)	Width W (inches)	Base B (inches)	Height H (inches)	Movement M (inches)
DB100U	100	30	13.83	10.38	6.63	3.32	4.00
DB200U	200	60	17.50	14.38	8.63	3.95	4.00
DB300U	300	90	20.17	16.88	10.75	4.70	4.00
DB400U	400	120	22.67	19.75	12.25	5.45	4.00
DB500U	500	150	24.67	21.00	13.50	5.83	4.00
DB600U	600	180	26.50	23.63	14.75	6.32	4.00
DB700U	700	210	28.33	24.75	16.13	6.83	4.00
DB800U	800	240	29.83	27.00	17.25	7.70	4.00
DB900U	900	270	31.33	29.13	18.38	8.20	4.00
DB1000U	1000	300	33.00	30.13	19.13	8.45	4.00
DB1100U	1100	330	34.17	30.75	20.13	8.70	4.00
DB1200U	1200	360	35.50	32.75	21.00	9.36	4.00
DB1300U	1300	390	37.00	34.38	21.75	9.61	4.00
DB1400U	1400	420	38.00	35.63	22.63	9.86	4.00
DB1500U	1500	450	39.33	37.13	23.13	9.98	4.00
DB1600U	1600	480	40.67	38.25	24.00	10.29	4.00
DB1700U	1700	510	41.17	38.00	24.88	10.61	4.00
DB1800U	1800	540	42.33	39.88	25.38	11.23	4.00
DB1900U	1900	570	43.33	40.63	26.25	11.61	4.00
DB2000U	2000	600	44.50	42.00	26.75	11.61	4.00
DB2500U	2500	750	48.67	46.88	29.63	12.23	4.00
DB3000U	3000	900	53.00	51.38	32.38	13.23	4.00
DB3500U	3500	1050	57.00	54.38	35.00	14.23	4.00
DB4000U	4000	1200	61.00	57.38	37.50	14.73	4.00
DB4500U	4500	1350	63.83	59.50	39.88	15.98	4.00
DB5000U	5000	1500	67.33	63.63	41.88	16.86	4.00

- 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*)
- 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.