



MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

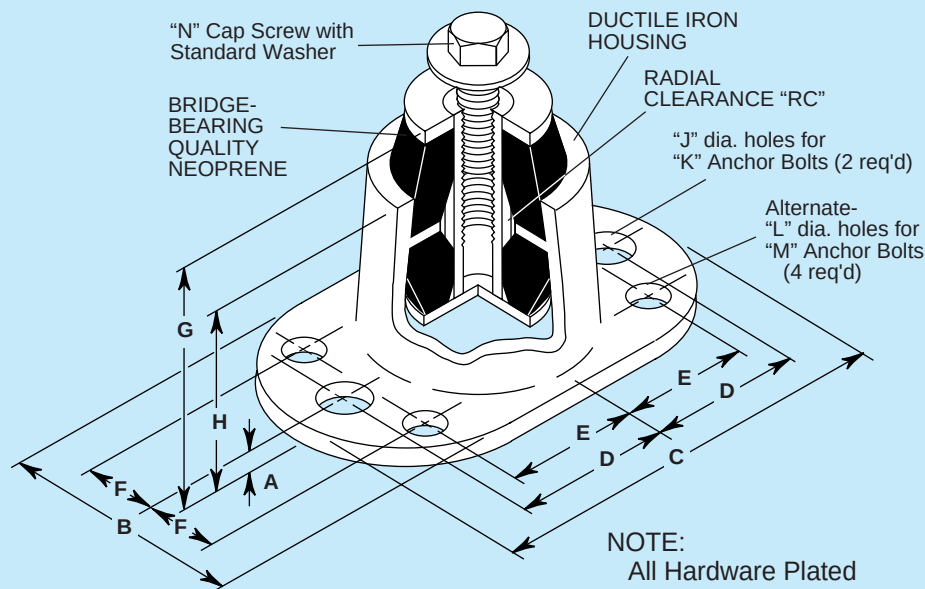
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ALL DIRECTIONAL CAPTIVE MOUNTING FOR SEISMIC, MOBILE, MARINE, WALL HUNG and OVERSEAS APPLICATIONS

BR

DATA SHEET DS-400-7.1A



TYPE BR DIMENSIONS (inches millimeters)

Type	A	B	C	D	E	F	G	H	J	K	L	M	N	RC
BRA	3/16 5	21/2 64	41/4 108	15/8 41	13/8 35	3/4 19	3 76	1 25	1/2 13	3/8 10	3/8 10	1/4 6	5/16 x 1 8 x 25	3/16 5
BRB	3/16 5	31/4 83	53/4 146	21/4 57	17/8 48	7/8 22	7 36	2 51	5/8 16	1/2 13	1/2 13	3/8 10	7/16 x 1 11 x 25	1/4 6
BRC	1/4 6	51/4 133	9 229	35/8 92	3 76	11/2 38	61/2 165	41/2 114	7/8 22	3/4 19	3/4 19	5/8 16	5/8 x 11/2 16 x 38	5/8 16
BRD	1/4 6	6 152	101/2 267	43/8 111	35/8 92	15/8 41	61/2 165	41/2 114	7/8 22	3/4 19	3/4 19	5/8 16	5/8 x 11/2 16 x 38	5/8 16

TYPE BR RATINGS

Type	Size (Color Mark)	Duro- meter	COMPRESSION		TENSION		SHEAR		Maximum Horizontal Static G Rating*
			Rated Capacity (lbs kgs)	Rated Defl (in mm)	Rated Capacity (lbs kgs)	Rated Defl (in mm)	Rated Capacity (lbs kgs)	Rated Defl (in mm)	
BR-	A-Green	40	85 39		85 39		20 9		10.4
	A-Red	50	125 57	0.2	125 57	0.18	30 14	0.13	7.0
	A-White	60	205 93	5	205 95	5	50 23	3	4.3
	A-Yellow	70	290 132		290 132		70 32		3.0
	B-Red	50	450 204		500 227		100 45		3.4
	B-White	60	740 336	0.2	750 340	0.18	170 77	0.15	2.1
	B-Yellow	70	1040 472	5	1050 476	5	240 109	4	1.5
	C-Red	50	650 295		750 340		380 172		2.8
	C-White	60	1100 499	0.3	1150 522	0.25	500 227	0.50	1.6
	C-Yellow	70	1540 699	8	1610 730	6	700 318	13	1.2
	D-White	60	2390 1084	0.3	2450 1111	0.25	750 340	0.50	1.3
	D-Yellow	70	3150 1429	8	3430 1556	6	1050 476	13	1.0

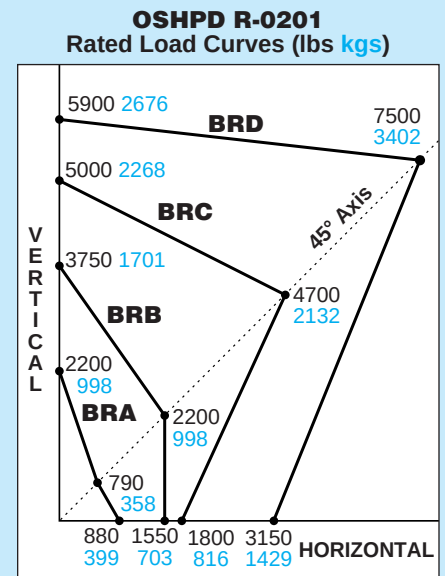
All Rated Capacities are based on proper neoprene loadings without metal to metal contact. Seismic Max. G Ratings are based on metal failure under static seismic loadings as defined in the building codes.

*Horizontal G Ratings are for quick reference only— Use OSHPD Rated Load Curves.

BRIDGE-BEARING NEOPRENE SPECIFICATIONS

ORIGINAL PHYSICAL PROPERTIES			TESTED FOR AGING			COMPRESSION SET		
(a) Tensile Duro-meter	(b) Strength (min)	(c) Elongat. at Break (min)	(d) OVEN AGING (70h/212°F) Hard- ness (max)	(e) Tensile Strength at Break (max)	(f) Elongat. (max)	(g) OZONE 1 ppm in air by Vol. 20% Strain 100°F	(h) 22hrs 150°F	(i) Method B
40±5	2000 psi	450%	+15%	+15%	-40%	No Cracks	30%(max)	
50±5	2500 psi	400%	+15%	+15%	-40%	No Cracks	25%(max)	
60±5	2500 psi	350%	+15%	+15%	-40%	No Cracks	25%(max)	

(a)ASTM D-676 (b)ASTM D-412 (c)ASTM D-573 (d)ASTM D-1149 (e)ASTM D-395



Horizontal, Vertical and 45° plotted Ratings are California OSHPD approved values having the OSHPD Anchorage Preapproval Number R-0201. Testing and calculations were performed to meet OSHPD criteria.

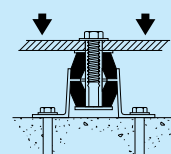
To use approved OSHPD rated load curves: 1) Calculate Vertical and Horizontal Forces on mounting including translations and overturning moments. 2) Plot Horizontal Load vs Vertical Load. The point must fall within the area below the OSHPD curve.

Specification

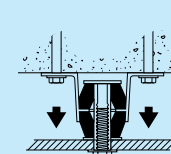
Captive Neoprene elements shall be arranged in opposition within a steel or ductile iron housing to provide positive mechanical restraint in all directions. Neoprene elements shall prevent metal to metal contact during normal operation. Bonded assemblies without mechanical interlocks are not acceptable. Neoprene elements shall be of bridge bearing quality as tabulated.

All mountings shall have minimum 1.0 horizontal G ratings and anchorage preapproval "R" numbers from the Office of Statewide Health Planning and Development (OSHPD) in the state of California, attesting to the maximum horizontal and vertical load ratings. All mountings shall have bolts for rigid attachment to the equipment and adequate base bolting provision. Mountings shall have a minimum static deflection of 0.2" (5 mm).

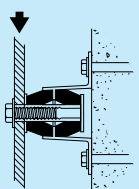
In seismic zones, submittals shall include calculations showing that the intersection of the horizontal and vertical seismic loads fall below the OSHPD approved curves. Anchorages must be designed to meet the applicable building codes. All calculations must be signed by a professional engineer. Mountings shall be type BR as manufactured by Mason Industries, Inc.



COMPRESSION



TENSION



SHEAR



MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

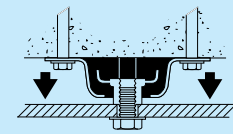
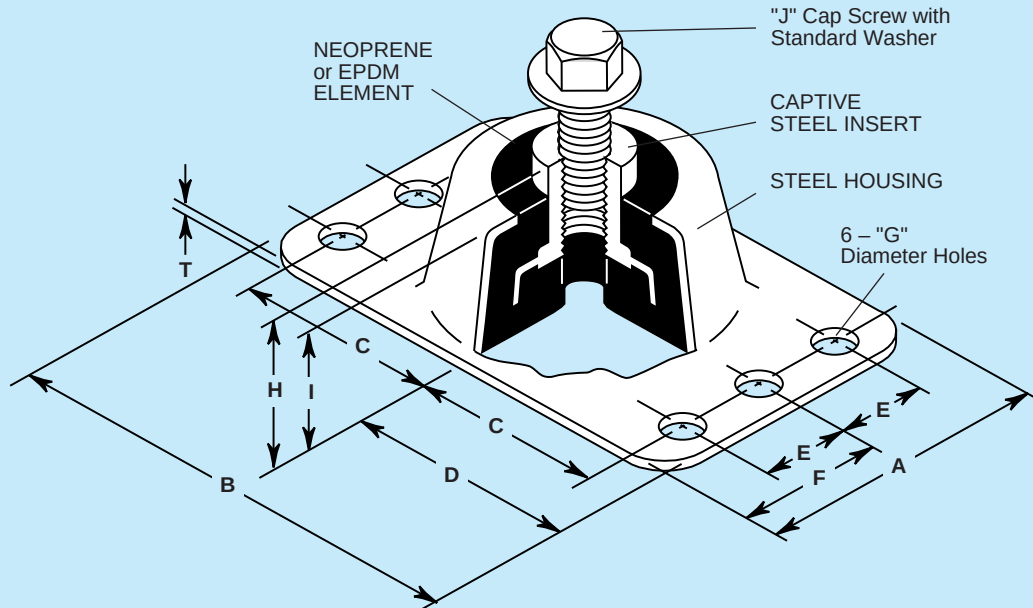
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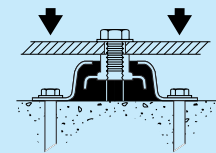
NEOPRENE MOUNTINGS WITH
CAPTIVE STEEL INSERTS FOR
SECURING EQUIPMENT TO
WALLS, FLOORS OR CEILINGS
IN SEISMIC, MOBILE OR
STATIONARY INSTALLATIONS

RBA, RCA & RDA

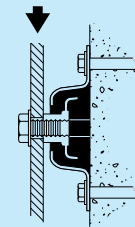
DATA SHEET DS-400-7.1B



TENSION



COMPRESSION



SHEAR

TYPE RBA, RCA and RDA DIMENSIONS (inches millimeters)

Type	A	B	C	D	E	F	G	H	I	J	T
RBA	3 76	43/4 121	115/16 49	23/8 60	1 25	11/2 38	7/16 11	17/8 48	11/2 38	1/2-13UNC x 11/4	3/32 2
RCA	33/4 95	61/4 159	21/2 64	31/8 79	11/4 32	17/8 48	9/16 14	17/8 48	11/2 38	5/8 -11UNC x 11/4	3/32 2
RDA	5 127	8 203	31/4 83	4 102	13/4 44	21/2 64	3/4 19	23/8 60	17/8 48	7/8 -9UNC x 11/4	3/16 5

TYPE RBA, RCA and RDA RATINGS

Type	Size (Color Mark)	Duro- meter	COMPRESSION		TENSION		SHEAR		Maximum Horizontal Static G Rating*
			Rated Capacity (lbs kgs)	Rated Defl (in mm)	Rated Capacity (lbs kgs)	Rated Defl (in mm)	Rated Capacity (lbs kgs)	Rated Defl (in mm)	
RBA-	Black	30	250 113	0.15	200 91	0.12	200 90	0.09	13.6
	Green	45	525 238	4	420 191	3	420 191	2	6.5
	White	60	1000 454		800 363		800 363		3.4
RCA-	Green	40	1400 635	0.15	1000 454	0.12	400 181	0.09	2.7
	Red	50	2100 953	4	1500 680	3	600 272	2	1.8
	White	60	3500 1588		2500 1134		1000 454		1.1
RDA-	Green	40	2800 1270	0.18	2000 910	0.15	900 410	0.12	3.3
	Red	50	4200 1910	5	2900 1320	4	1300 590	3	2.2
	White	60	7100 3230		4200 1910		1800 820		1.3

All Rated Capacities are based on proper neoprene loadings without metal to metal contact. Seismic Max. G Ratings are based on metal failure under static seismic loadings as defined in the building codes.

*Horizontal G Ratings are for quick reference only— Use OSHPD Rated Load Curves.

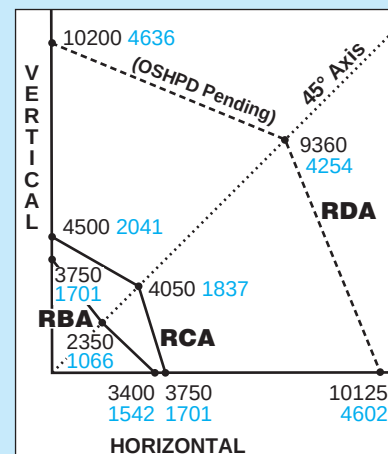
Specification

Captive neoprene mountings shall consist of a steel housing with a captive steel insert embedded in neoprene to prevent contact between the housing and the central threaded insert. Bonded assemblies without mechanical interlocks are not acceptable.

All mountings shall have minimum 1.0 horizontal G ratings and anchorage preapproval "R" numbers from the Office of Statewide Health Planning and Development (OSHPD) in the state of California, attesting to the maximum horizontal and vertical load ratings. All mountings shall have bolts for rigid attachment to the equipment and adequate base bolting provision. Mountings shall have a minimum static deflection of 0.15" (4 mm).

In seismic zones, submittals shall include calculations showing that the intersection of the horizontal and vertical seismic loads fall below the OSHPD approved curves. Anchorages must be designed to meet the applicable building codes. All calculations must be signed by a professional engineer. Mountings shall be type RBA, RCA and RDA as manufactured by Mason Industries, Inc.

OSHPD R-0200 Rated Load Curves (lbs kgs)



Horizontal, Vertical and 45° plotted Ratings are California OSHPD approved values having the OSHPD Anchorage Preapproval Number R-0200. Testing and calculations were performed to meet OSHPD criteria.

To use approved OSHPD rated load curves: 1) Calculate Vertical and Horizontal Forces on mounting including translations and overturning moments. 2) Plot Horizontal Load vs Vertical Load. The point must fall within the area below the OSHPD curve.