



# MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

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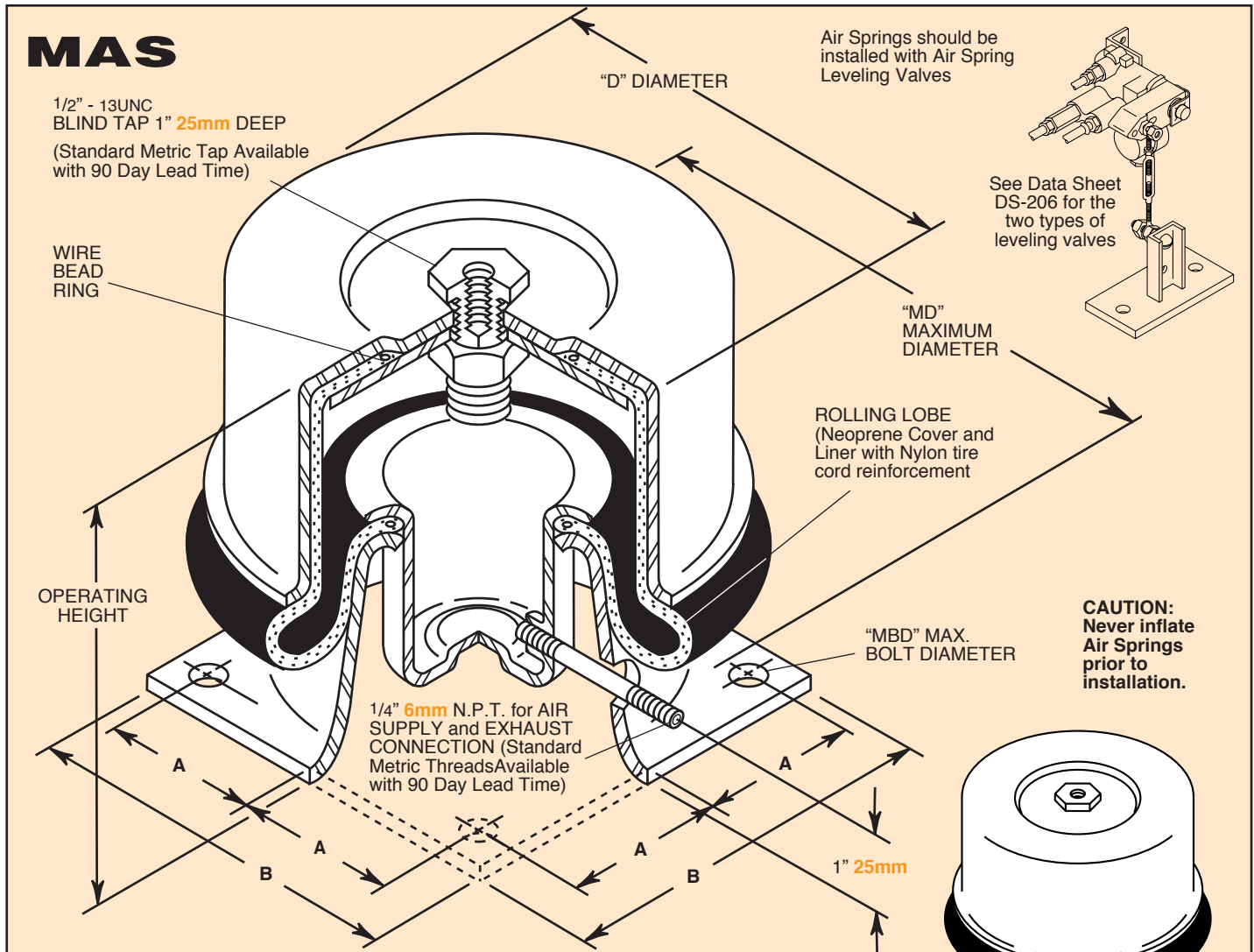
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## ROLLING LOBE AIR SPRINGS

# MAS

DATA SHEET DS-205-6A



### INSTALLATION INSTRUCTIONS:

- Equipment should be blocked at the installed height.
- Install the Air Spring.
- If Leveling Valves are used, allow air to flow into the system until the Air Springs take the load and blocking can be removed.
- If system is installed without Leveling Valves (not recommended), start to inflate each Air Spring to the calculated pressure.
- If blocking can be removed prior to reaching the calculated pressure, operate at the lower pressure.
- If all springs are at calculated pressure and blocking is still tight, increase pressure evenly at each location until blocks can be removed.
- All air springs have minor leakage. Systems installed without Leveling Valves will require periodic manual replenishment.

### MAS DIMENSIONS

Size	Operating Height (in)	A (in)	B (in)	D (in)	MBD (in)	MD (in)
MAS-3000	8 1/4	2 1/2	6 1/8	6	5/16	7 1/4
MAS-6800	8 1/4	3 5/8	8 5/8	9	5/16	10 1/2
MAS-12000	8 1/4	4 3/4	11 1/2	12	3/8	14

### MAS METRIC DIMENSIONS

Size	Operating Height (mm)	A (mm)	B (mm)	D (mm)	MBD (mm)	MD (mm)
MAS-3000	209	64	156	152	7	184
MAS-6800	209	92	219	229	7	267
MAS-12000	209	121	292	305	10	356

### MAS RATINGS

Size	Min Load at 10 psi (lbs)	Max Recommended Load at 80 psi (lbs)	Max Load at 100 psi (lbs)	APPROXIMATE FREQUENCY CPM	Hz
MAS-3000	300	2400	3000	84	1.4
MAS-6800	680	5440	6800	84	1.4
MAS-12000	1200	9600	12000	78	1.3

### MAS METRIC RATINGS

Size	Min Load at 0.704kg/cm <sup>2</sup> (kgs)	Max Recommended Load at 5.63kg/cm <sup>2</sup> (kgs)	Max Load at 7.04kg/cm <sup>2</sup> (kgs)	APPROXIMATE FREQUENCY CPM	Hz
MAS-3000	136	1088	1360	84	1.4
MAS-6800	309	2472	3090	84	1.4
MAS-12000	545	4360	5455	78	1.3

**Note:** Frequency based on shape of load deflection curve



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## TWIN SPHERE AIR SPRINGS



DATA SHEET DS-205-6B

### MT

1/2" - 13UNC  
 BLIND TAP 1" 25mm DEEP  
 (Standard Metric Tap Available  
 with 90 Day Lead Time)

WIRE  
 BEAD  
 RING

TWIN SPHERE  
 (Neoprene Cover  
 and Liner with  
 Nylon tire cord  
 reinforcement)

OPERATING  
 HEIGHT

1/4" 6mm FRICTION  
 PAD ON BOTTOM

"D" DIAMETER  
 TOP & BOTTOM

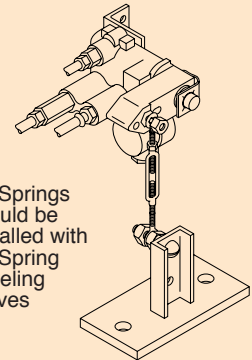
"B" DIAMETER  
 TOP & BOTTOM

"MD" MAXIMUM  
 DIAMETER

1/4" 6mm N.P.T. for  
 AIR SUPPLY AND EXHAUST  
 CONNECTION  
 (Standard Metric Threads  
 Available with 90 Day Lead Time)

3/4" 19mm

**CAUTION:**  
 Never inflate  
 Air Springs  
 prior to  
 installation.



Air Springs  
 should be  
 installed with  
 Air Spring  
 Leveling  
 Valves

See Data Sheet DS-206  
 for the two types of  
 leveling valves

#### INSTALLATION INSTRUCTIONS:

- Equipment should be blocked at the installed height.
  - Install the Air Spring.
  - If Leveling Valves are used, allow air to flow into the system until the Air Springs take the load and blocking can be removed.
  - If system is installed without Leveling Valves (not recommended), start to inflate each Air Spring to the calculated pressure.
  - All air springs have minor leakage. Systems installed without Leveling Valves will require periodic manual replenishment.
- If blocking can be removed prior to reaching the calculated pressure, operate at the lower pressure.
  - If all springs are at calculated pressure and blocking is still tight, increase pressure evenly at each location until blocks can be removed.

**Note: Frequency  
 based on shape of  
 load deflection curve.**

#### MT DIMENSIONS

Size	Operating Height (in)	B (in)	D (in)	MD (in)
MT-3	7 1/2	3 3/4	6	6 1/2
MT-4	7 1/2	4 3/4	7 1/4	7 3/4
MT-6	7 1/2	7	9 3/4	10 1/2
MT-8	7 1/2	8 7/8	12	12 1/2

#### MT RATINGS

Size	Min Load at 10 psi (lbs)	Max Recom- mended Load at 80 psi (lbs)	Max Load at 100 psi (lbs)	APPROXIMATE FREQUENCY CPM	Hz
MT-3	138	1100	1375	138	2.3
MT-4	215	1720	2150	120	2.0
MT-6	470	3760	4700	108	1.8
MT-8	848	6780	8475	102	1.7

#### MT METRIC DIMENSIONS

Size	Operating Height (mm)	B (mm)	D (mm)	MD (mm)
MT-3	190	95	152	165
MT-4	190	121	184	197
MT-6	190	178	248	267
MT-8	190	225	305	318

#### MT METRIC RATINGS

Size	Min Load at 0.704kg/cm <sup>2</sup> (kgs)	Max Recom- mended Load at 5.63kg/cm <sup>2</sup> (kgs)	Max Load at 7.04kg/cm <sup>2</sup> (kgs)	APPROXIMATE FREQUENCY CPM	Hz
MT-3	63	500	625	138	2.3
MT-4	98	781	977	120	2.0
MT-6	214	1708	2136	108	1.8
MT-8	386	3081	3852	102	1.7