



# MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

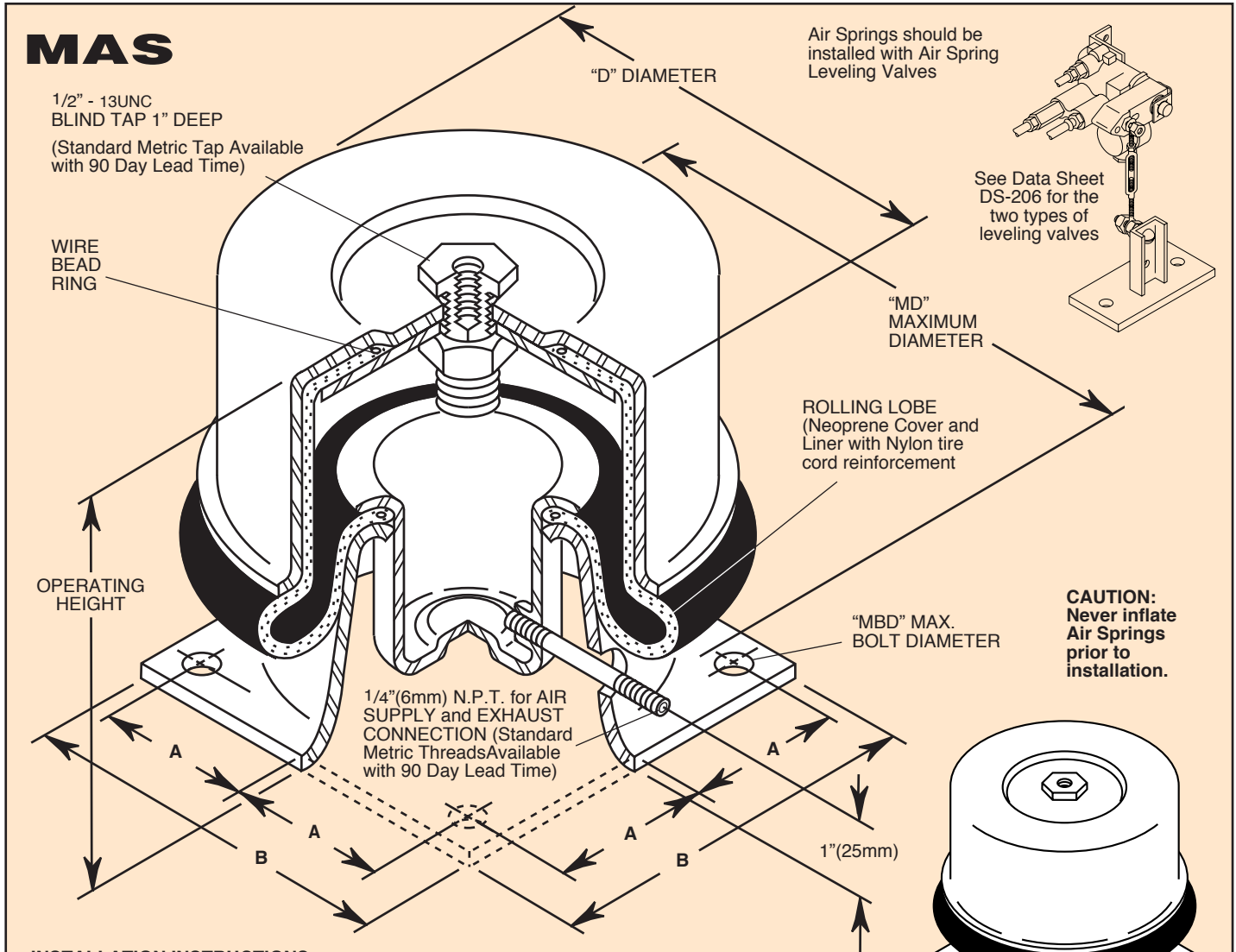
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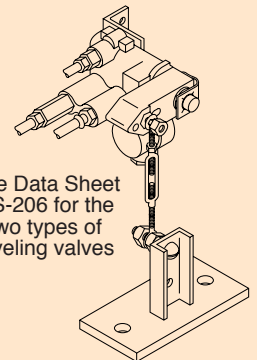
## ROLLING LOBE AIR SPRINGS

# MAS

DATA SHEET DS-205-5A



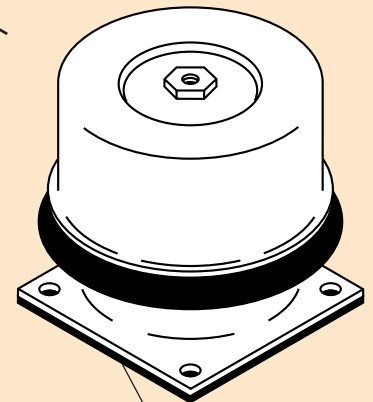
Air Springs should be installed with Air Spring Leveling Valves



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

ROLLING LOBE (Neoprene Cover and Liner with Nylon tire cord reinforcement)

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



OPTIONAL 1/4"(6mm) FRICTION PAD ON BOTTOM

### 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	81/4	21/2	61/8	6	5/16	71/4
MAS-6800	81/4	35/8	85/8	9	5/16	101/2
MAS-12000	81/4	43/4	111/2	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-205-5B

### 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

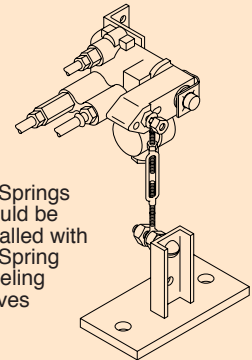
"MD"  
MAXIMUM  
DIAMETER

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	Shipped & Installed Height (in)	B (in)	D (in)	MD (in)
MT-3	7 1/2	33/4	6	6 1/2
MT-4	7 1/2	43/4	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	Shipped & Installed 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