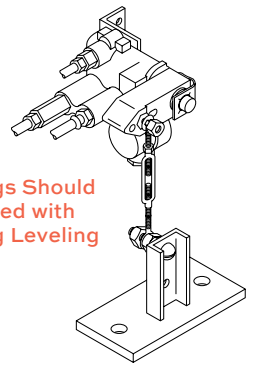
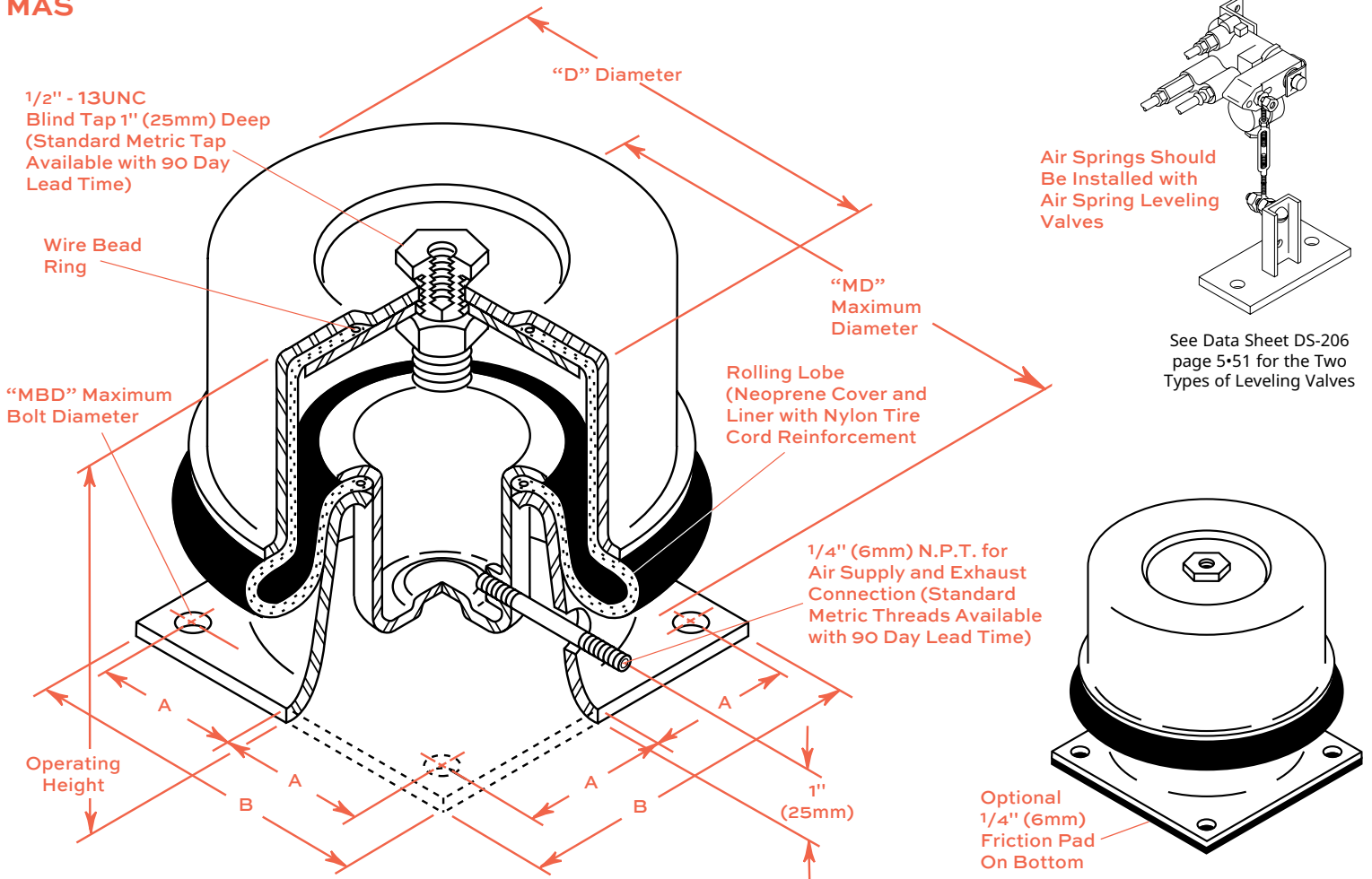


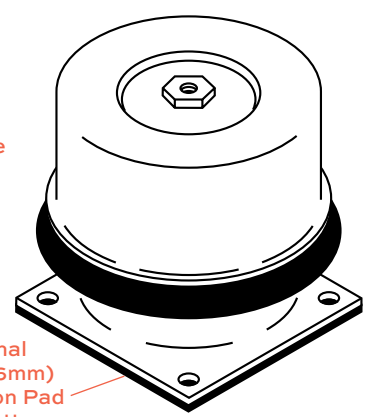
# ROLLING LOBE AIR SPRINGS



## MAS



See Data Sheet DS-206 page 5•51 for the Two Types of Leveling Valves



**CAUTION:**  
Never Inflate Air Springs Prior to Installation.

### TYPE MAS DIMENSIONS

Type & Size	Operating Height (in) (mm)	A (in) (mm)	B (in) (mm)	D (in) (mm)	MBD (in) (mm)	MD (in) (mm)
MAS-3000	8 1/4 209	2 1/2 64	6 1/8 156	6 152	5/16 7	7 1/4 184
MAS-6800	8 1/4 209	3 5/8 92	8 5/8 219	9 229	5/16 7	10 1/2 267
MAS-12000	8 1/4 209	4 3/4 121	11 1/2 292	12 305	3/8 10	14 356

### TYPE MAS RATINGS

Type & Size	Minimum Load <sup>1</sup> (lb) (kg)		Maximum Recom. Load <sup>2</sup> (in) (mm)		Maximum Load <sup>3</sup> (lb) (kg)		Approximate Frequency CPM Hz	
MAS-3000	300	136	2400	1088	3000	1360	84	1.4
MAS-6800	680	309	5440	2472	6800	3090	84	1.4
MAS-12000	1200	545	9600	4360	12000	5455	78	1.3

<sup>1</sup> Minimum Load at 10 psi (0.704 kg/cm<sup>2</sup>)

<sup>2</sup> Maximum Recommended Load at 80 psi (5.63 kg/cm<sup>2</sup>)

<sup>3</sup> Maximum Load at 100 psi (7.04 kg/cm<sup>2</sup>)

NOTE: Frequency based on shape of load deflection curve

### INSTALLATION INSTRUCTIONS

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

# TWIN SPHERE AIR SPRINGS



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

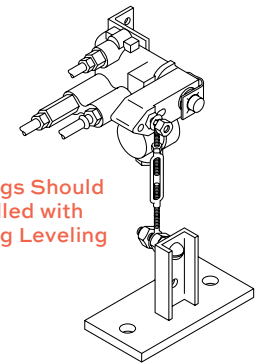
"D" Diameter  
Top & Bottom

"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)



Air Springs Should  
Be Installed with  
Air Spring Leveling  
Valves

See Data Sheet DS-206  
page 5-51 for the Two  
Types of Leveling Valves

**CAUTION:**  
Never Inflate Air Springs Prior to Installation.

## TYPE MT DIMENSIONS

Type & Size	Operating Height		B		D		MD	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
MT-3	7 1/2	190	3 3/4	95	6	152	6 1/2	165
MT-4	7 1/2	190	4 3/4	121	7 1/4	184	7 3/4	197
MT-6	7 1/2	190	7	178	9 3/4	248	10 1/2	267
MT-8	7 1/2	190	8 7/8	225	12	305	12 1/2	318

## TYPE MT RATINGS

Type & Size	Minimum Load <sup>1</sup>		Maximum Recom. Load <sup>2</sup>		Maximum Load <sup>3</sup>		Approximate Frequency	
	(lb)	(kg)	(in)	(mm)	(lb)	(kg)	CPM	Hz
MT-3	138	63	1100	500	1375	625	138	2.3
MT-4	215	98	1720	781	2150	977	120	2.0
MT-6	470	214	3760	1708	4700	2136	108	1.8
MT-8	848	386	6780	3081	8475	3852	102	1.7

<sup>1</sup> Minimum Load at 10 psi (0.704 kg/cm<sup>2</sup>)

<sup>2</sup> Maximum Recommended Load at 80 psi (5.63 kg/cm<sup>2</sup>)

<sup>3</sup> Maximum Load at 100 psi (7.04 kg/cm<sup>2</sup>)

NOTE: Frequency based on shape of load deflection curve

## 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.

