



MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

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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

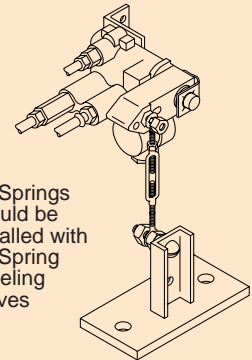
"MD"
MAXIMUM
DIAMETER

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	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	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 ² (kgs)	Max Recom- mended Load at 5.63kg/cm ² (kgs)	Max Load at 7.04kg/cm ² (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



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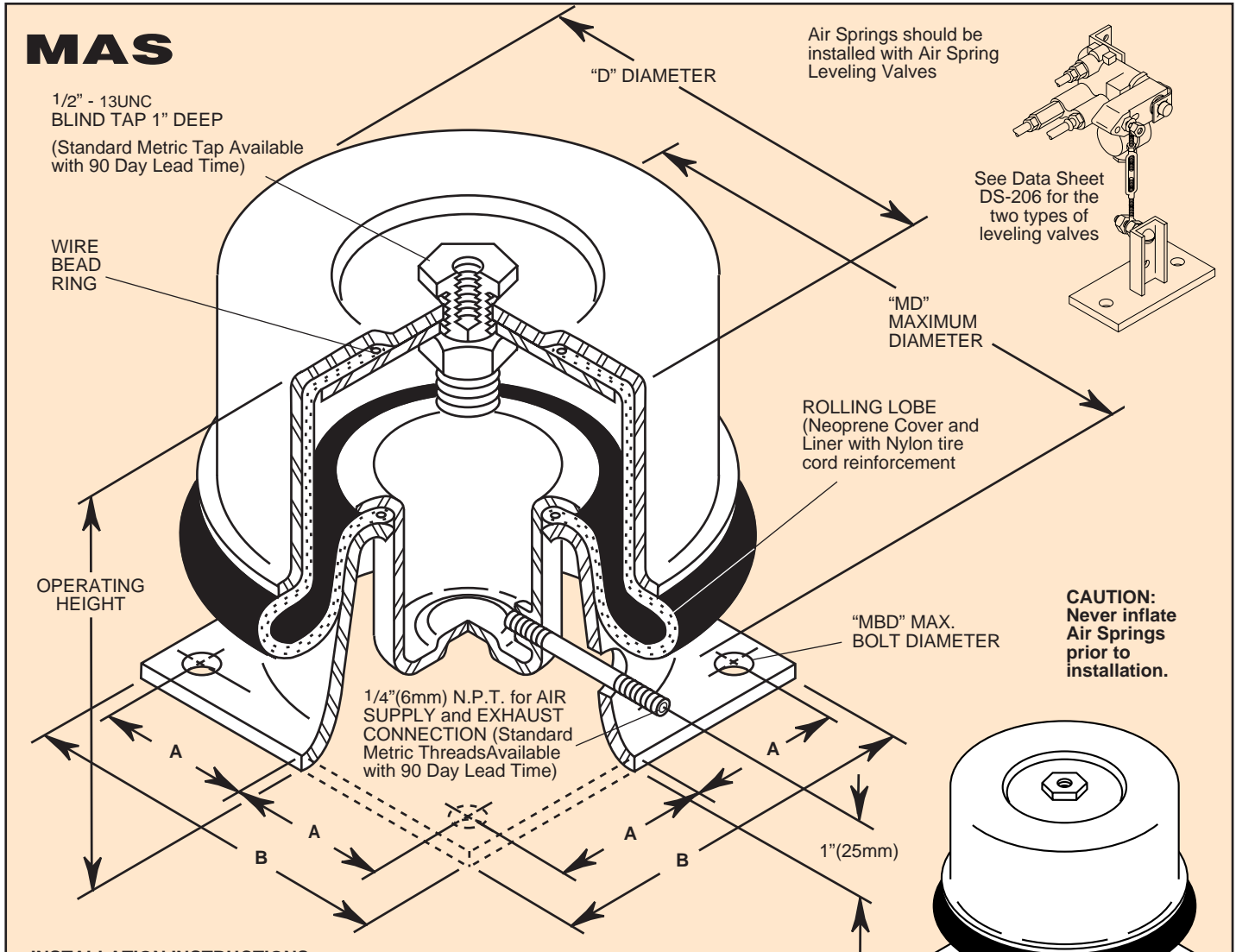
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ROLLING LOBE AIR SPRINGS

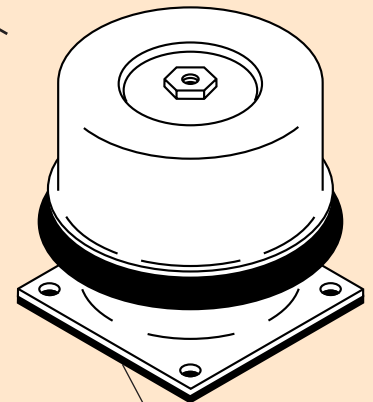
MAS

DATA SHEET DS-205-5A



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.



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

Note: Frequency based on shape of load deflection curve.

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 ² (kgs)	Max Recommended Load at 5.63kg/cm ² (kgs)	Max Load at 7.04kg/cm ² (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