

Firestone

World's Number 1
Air Spring.



FIRESTONE INDUSTRIAL PRODUCTS COMPANY

AIRSTROKE™
ACTUATORS

AIRMOUNT™
ISOLATORS

DR Series



www.firestoneip.com

DRS_A4_1213

Advantages

- Low cost
- No maintenance
- Friction free
- Angular capability
- Durable for long life
- No lubrication
- Flexible media
- Side loading capability
- Unsurpassed isolation capability
- Constant isolation efficiency
- Accurate height control
- Extended equipment life
- Versatile
- Noise reduction
- Wide size range
- Compact installed height

DR Series Selection Guide

Airstroke™ Actuators

Style Number	Max. Dia. at 7 BAR (mm)	Min. Height (mm)	Max. Stroke (mm)	5 BAR Force at Stroke of		
				25 mm (kN)	50% of Max. Stroke	Maximum Stroke (kN)
SINGLE CONVOLUTED						
4-1/2 x 1	120	50	40	2.5	2.9	1.0
6 x 1	162	50	50	5.9	5.9	4.1
8 x 1	215	50	75	11.3	10.3	3.9
10 x 1	265	50	85	15.7	13.7	7.8
12 x 1	312	55	95	27.5	22.6	3.9
14-1/2 x 2	378	50	115	45.1	37.3	12.3
16 x 2	406	60	140	45.1	33.3	14.2
DOUBLE CONVOLUTED						
4-1/2 X 2	120	70	75	3.9	3.2	1.5
6 X 2	162	75	115	8.3	6.4	1.5
8 X 2	215	75	150	12.3	10.3	3.9
10 X 2	265	75	200	19.8	13.7	5.9
12 X 2	312	75	225	29.4	22.6	4.4
14-1/2 X 2	378	75	260	45.1	36.3	17.7
16 X 2	406	75	265	63.0	43.1	9.8
TRIPLE CONVOLUTED						
8 X 3	215	110	240	13.2	9.8	3.9
10 X 3	265	100	275	20.1	14.2	5.9
12 X 3	312	100	300	27.9	22.1	8.3
14-1/2 X 3	378	125	350	46.1	35.3	15.7
16 X 3	406	100	360	53.4	42.2	13.7

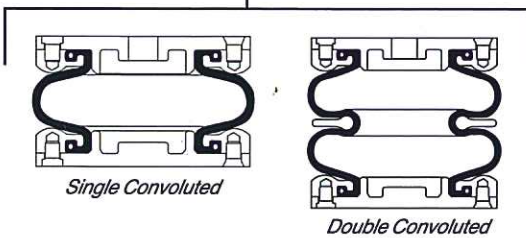
Airmount™ Isolators

Design Height (mm)	Load at Design Height @ 5 BAR (kN)	Natural Frequency @ 5 BAR (Hz)	% of Isolation at Forced Frequency		
			7 Hz	13 Hz	25 Hz
SINGLE CONVOLUTED					
65	3.3	4.8	-	84.4%	96.2%
80	5.5	3.7	-	91.2%	97.8%
89	9.8	3.4	-	92.7%	98.1%
92	14.5	2.9	79.3%	94.8%	98.6%
95	25.5	3.0	77.5%	94.4%	98.5%
110	37.5	3.0	77.5%	94.4%	98.5%
130	34.9	2.6	84.0%	95.8%	98.9%
DOUBLE CONVOLUTED					
100	3.4	3.4	-	92.7%	98.1%
130	6.5	2.9	79.3%	94.8%	98.6%
160	10.0	2.5	85.4%	96.2%	99.0%
170	14.7	2.2	89.0%	97.1%	99.2%
170	24.3	2.1	90.1%	97.3%	99.3%
200	37.0	2.0	91.1%	97.6%	99.4%
200	45.0	1.8	92.9%	98.0%	99.5%
TRIPLE CONVOLUTED					
220	10.6	2.1	90.1%	97.3%	99.3%
250	13.5	1.8	92.9%	98.0%	99.5%
250	23.5	1.6	94.5%	98.5%	99.6%
285	37.0	1.6	94.5%	98.5%	99.6%
290	41.5	1.1	97.5%	99.3%	99.8%

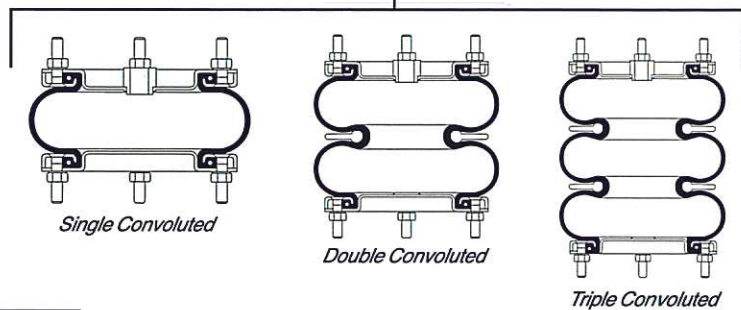
End Closures

Bead Plate Type	Blind Nut or Bolt Circle Dia. (mm)	Number of Bolts
6	93	3
7	127	4
7	158	4
7	181	4
7	232	4
7	283	4
7	283	4
6	93	3
7	127	4
7	156	4
7	181	4
7	232	4
7	283	4
7	283	4
7	156	4
7	181	4
7	232	4
7	283	4
7	283	4

Type 6



Type 7



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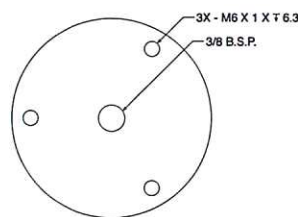
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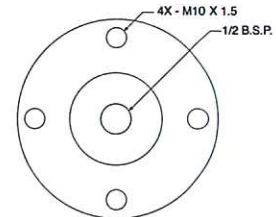
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TYPE 6 BEAD PLATE



TYPE 7 BEAD PLATE



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