

AIRSTROKE[®]

ACTUATORS

AIRMOUNT[®]

ISOLATORS



DR SERIES

Firestone

World's Number 1
Air Spring.



FIRESTONE INDUSTRIAL PRODUCTS COMPANY

Advantages

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

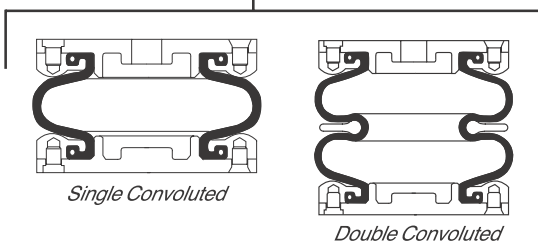
Airmount™ Isolators

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%

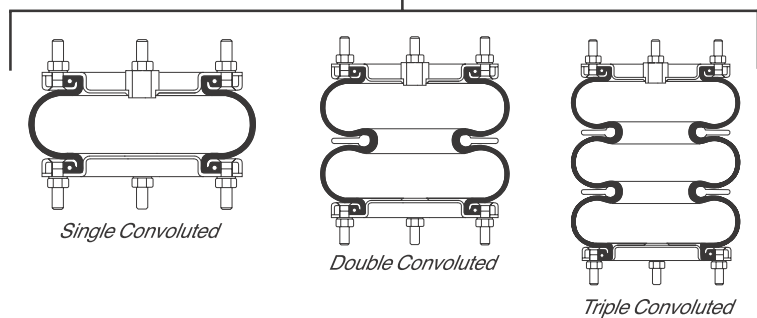
End Closures

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

Type 6

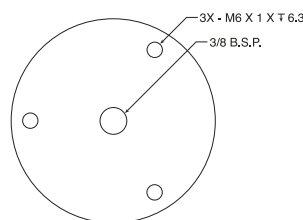


Type 7



Distributed by:

TYPE 6 BEAD PLATE



TYPE 7 BEAD PLATE

