

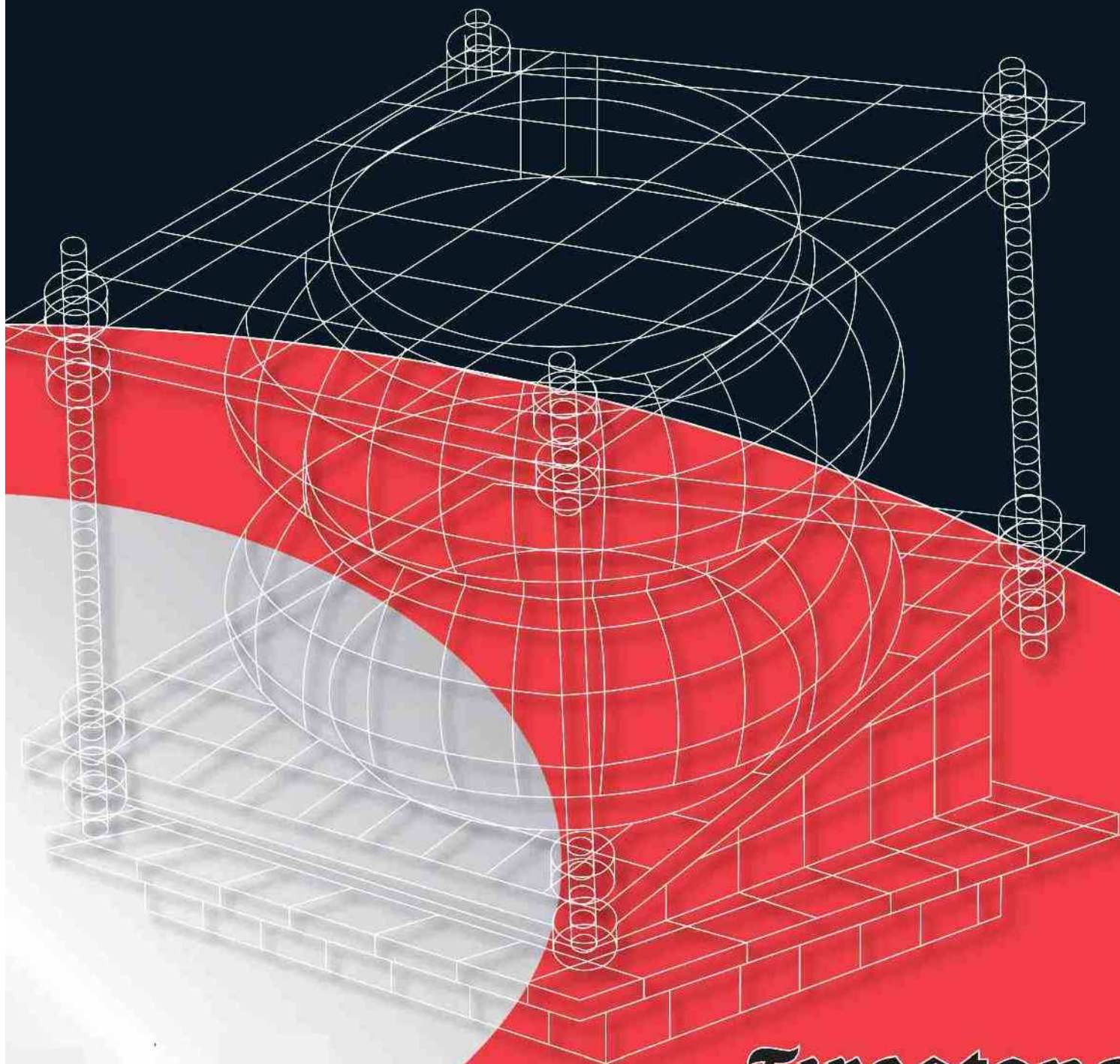
AIRSTROKE™

ACTUATORS

AIRMOUNT™

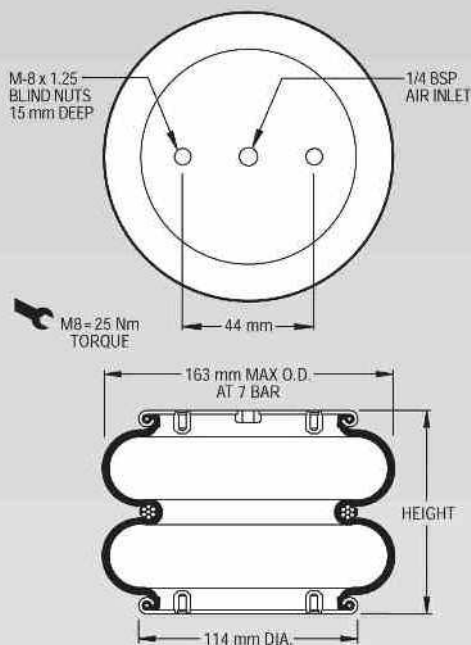
ISOLATORS

METRIC DOUBLE CONVOLUTION



NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style 25	Blind nuts, 1/4 BSP	W01-M58-6160
Two Ply Bellows	Socket head aluminum bead rings (bolts, nuts, washers not included—use M6 cap screws)	W01-358-0030
	Rubber bellows only (no girdle hoop)	W01-358-0025
Assembly weight		1.72 kg.
Force to collapse to minimum height (@ 0 BAR)		85 N.

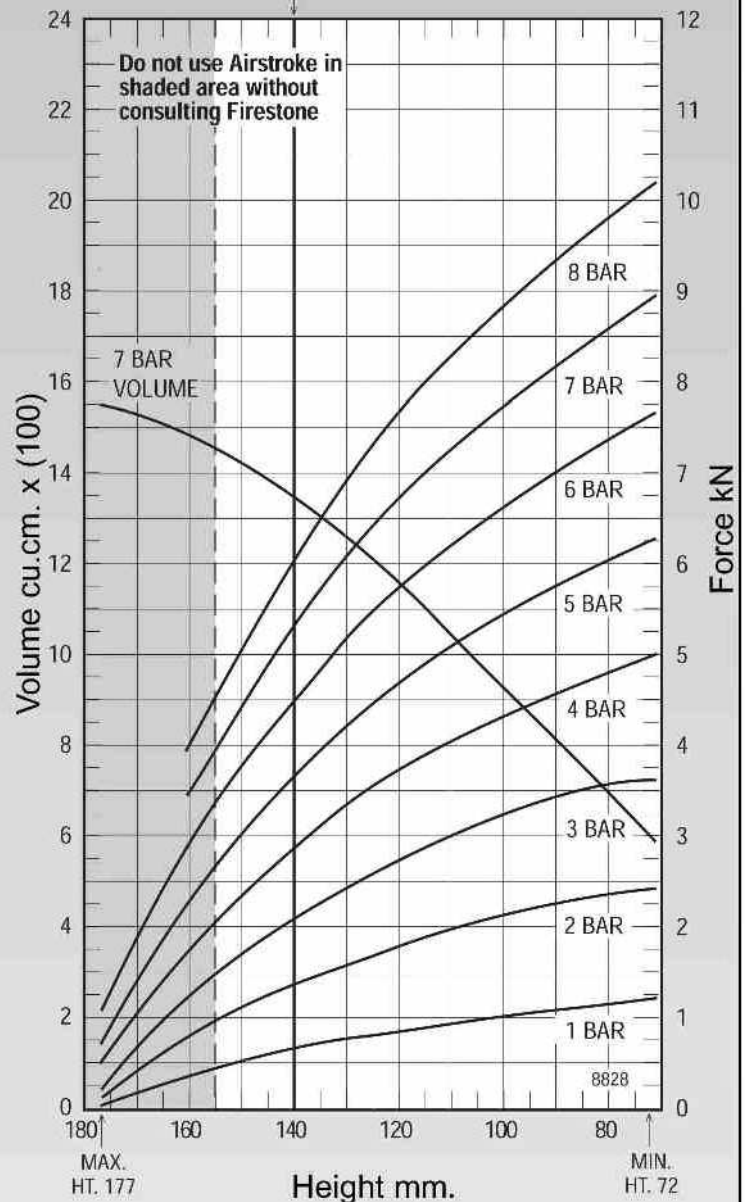


NOTE: A bead plate part is shown. This part is also available with bead rings. Bolts are not included. See pages 8-10 for explanation.

Dynamic Characteristics at 140 mm Design Height (Required for Airmount isolator design only)			
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	2.03	62	2.75
4	2.81	80	2.67
5	3.63	98	2.60
6	4.50	117	2.55
7	5.30	135	2.52

RECOMMENDED
AIRMOUNT
DESIGN HEIGHT
140 mm.

Static Data
8828



See page 12 for instructions on how to use chart.

Force Table (Use for Airstroke™ actuator design)							
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
150	1421	62	1.64	2.29	2.92	3.66	4.32
140	1344	74	2.03	2.81	3.63	4.50	5.30
130	1253	85	2.39	3.27	4.13	5.09	5.96
120	1159	95	2.69	3.66	4.61	5.66	6.62
110	1049	103	2.97	4.00	5.04	6.16	7.18
100	939	109	3.21	4.27	5.38	6.57	7.65
90	817	116	3.41	4.52	5.69	6.95	8.10
80	698	122	3.55	4.76	5.98	7.31	8.52

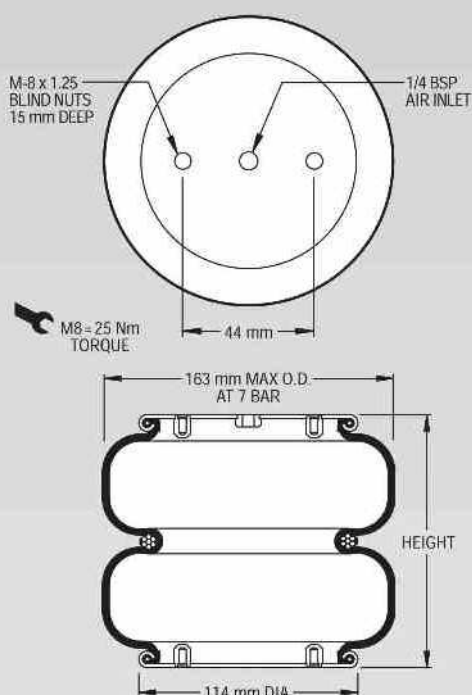
255-1.5 Firestone

AIRSTROKE
ACTUATORS

AIRMOUNT
ISOLATORS

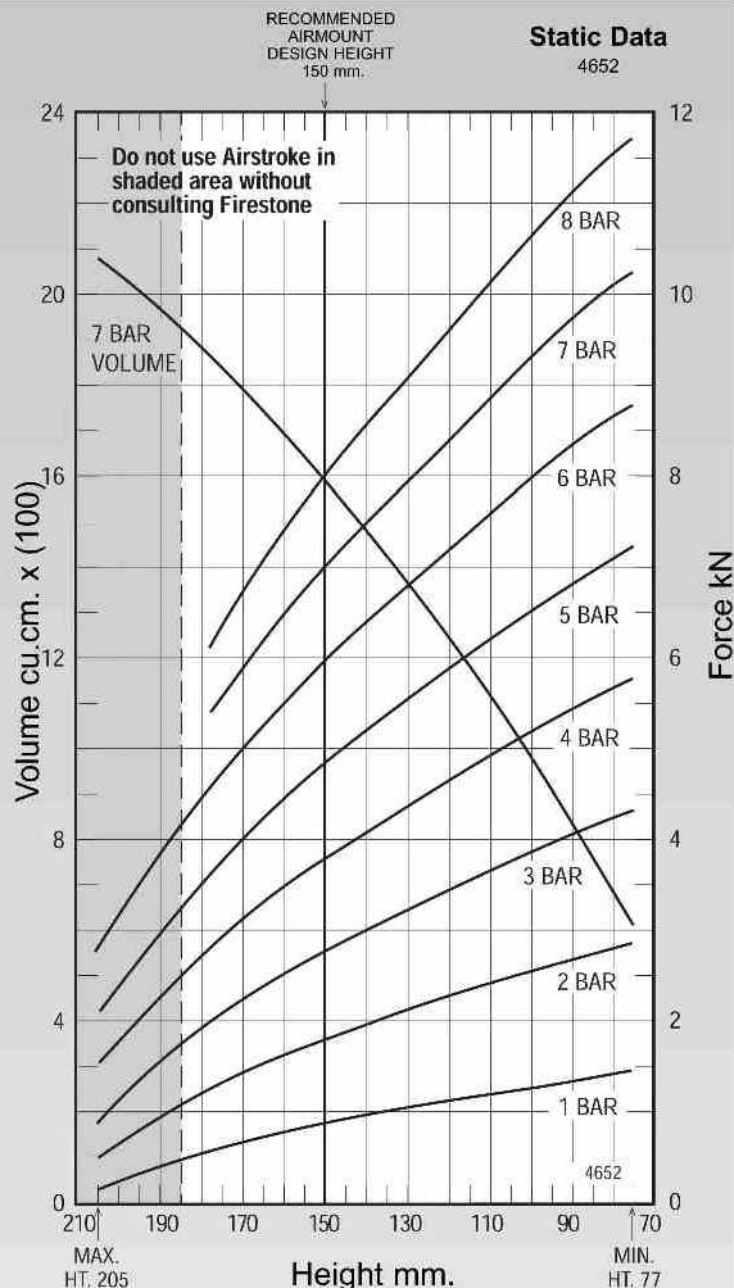
NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style	Blind nuts, 1/4 BSP	W01-M58-6105
255-1.5	Socket head aluminum bead rings (bolts, nuts, washers not included, use cap screws)	SEE NOTE BELOW
Two Ply Bellows		
Assembly weight		1.7 kg.
Force to collapse to minimum height (@ 0 BAR)		190 N.



NOTE: A bead plate part is shown. This part is also available with bead rings. Bolts are not included. See pages 8-10 for explanation.

Dynamic Characteristics at 150 mm Design Height (Required for Airmount isolator design only)			
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	2.71	59	2.33
4	3.75	73	2.21
5	4.83	90	2.16
6	5.98	106	2.11
7	7.00	121	2.08

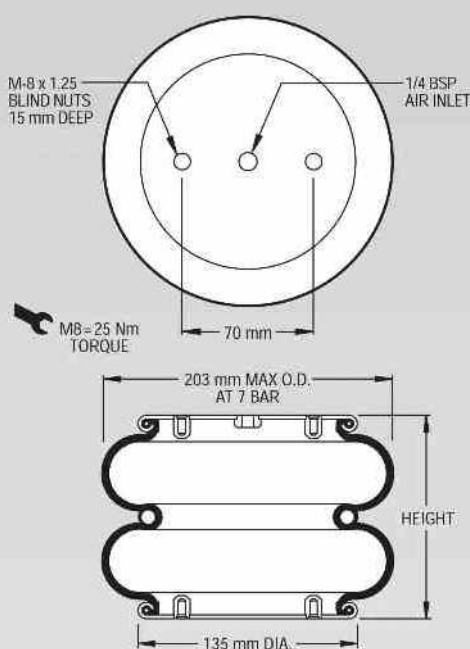


See page 12 for instructions on how to use chart.

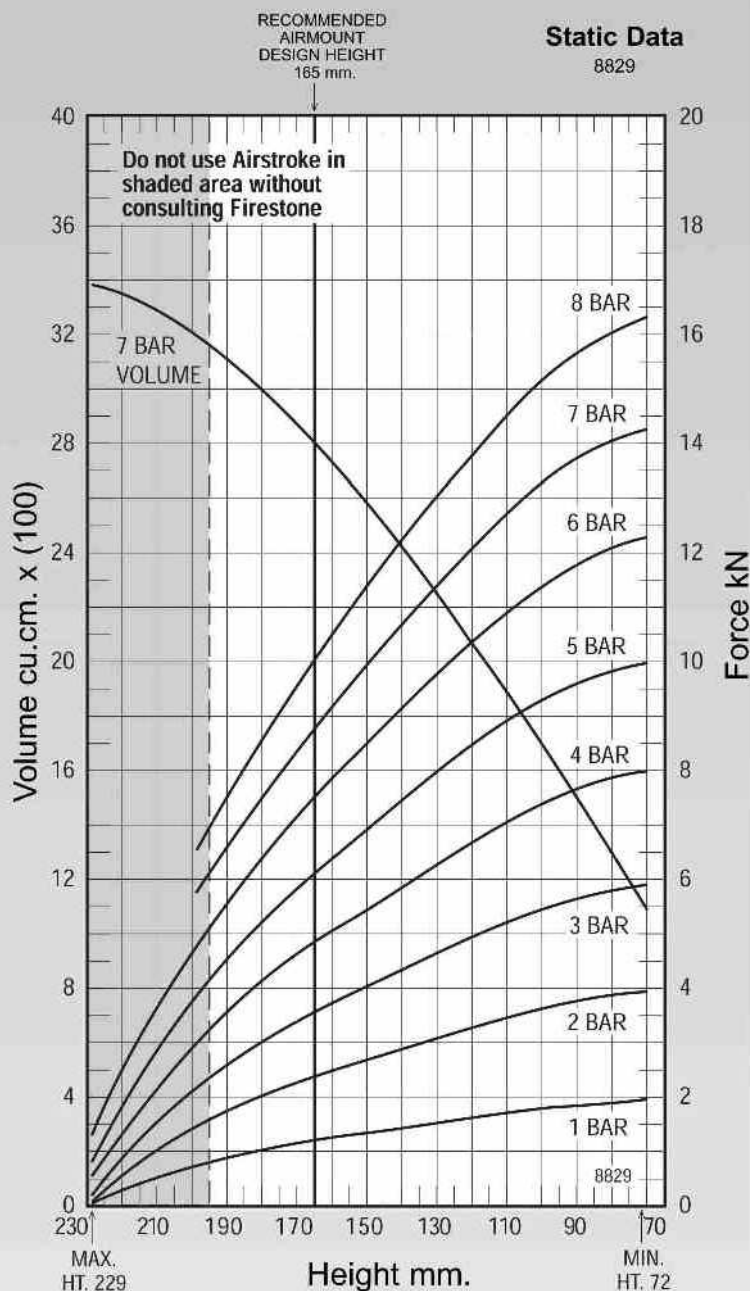
Force Table (Use for Airstroke™ actuator design)							
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
180	1896	74	1.91	2.71	3.49	4.40	5.19
160	1708	92	2.51	3.46	4.41	5.47	6.43
140	1491	106	3.01	4.09	5.18	6.37	7.43
120	1255	119	3.44	4.64	5.85	7.15	8.33
100	992	132	3.84	5.16	6.49	7.92	9.23
80	703	144	4.22	5.65	7.08	8.62	10.06

NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style 224	Blind nuts, 1/4 BSP	W01-M58-6400
Two Ply Bellows		
Assembly weight.....		2.27 kg.
Force to collapse to minimum height (@ 0 BAR)		62 N.



NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.



See page 12 for instructions on how to use chart.

Dynamic Characteristics at 165 mm Design Height
(Required for Airmount isolator design only)

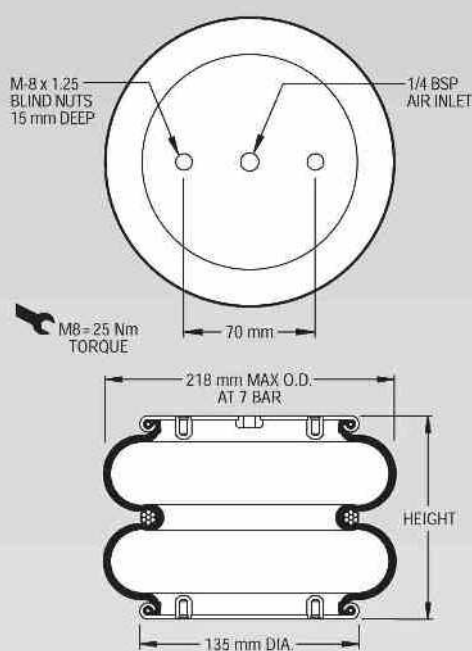
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	3.48	69	2.21
4	4.74	88	2.15
5	6.01	109	2.13
6	7.40	132	2.11
7	8.65	152	2.09

Force Table (Use for Airstroke™ actuator design)

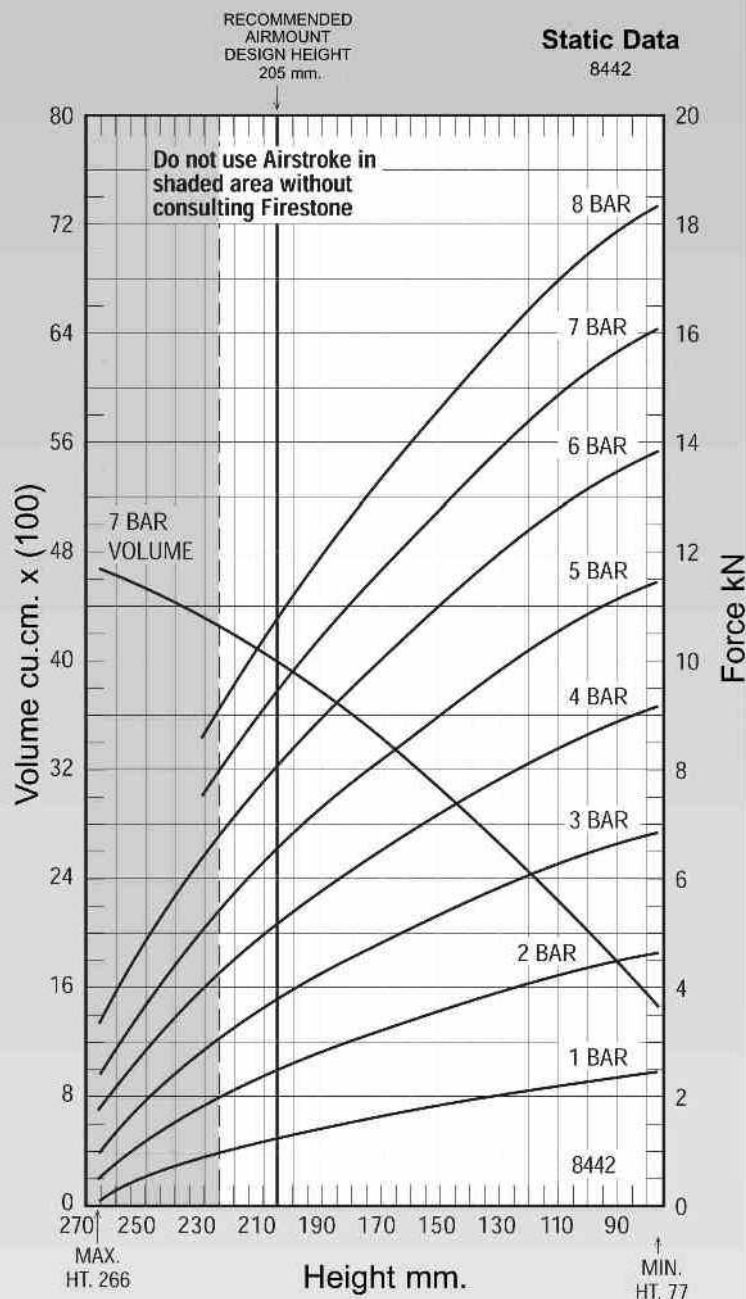
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
180	3002	105	2.90	4.00	5.08	6.28	7.37
160	2730	129	3.64	4.95	6.28	7.73	9.03
140	2411	151	4.29	5.80	7.35	9.05	10.58
120	2063	172	4.87	6.61	8.35	10.27	12.02
100	1690	189	5.37	7.34	9.24	11.32	13.23
80	1300	201	5.76	7.85	9.88	12.05	14.04

NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style 26	Blind nuts, 1/4 BSP	W01-M58-6353
	Blind nuts, 3/4 BSP	W01-M58-6387
Two Ply Bellows	Countersunk steel bead rings, 40 mm bolts, nuts, washers	W01-M58-6988
	Rubber bellows only	W01-358-0142
Assembly weight.....		2.40 kg.
Force to collapse to minimum height (@ 0 BAR)		102 N.



NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.



See page 12 for instructions on how to use chart.

Dynamic Characteristics at 205 mm Design Height
(Required for Airmount isolator design only)

Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	3.74	59	1.99
4	5.15	76	1.92
5	6.52	93	1.88
6	8.03	109	1.83
7	9.41	124	1.81

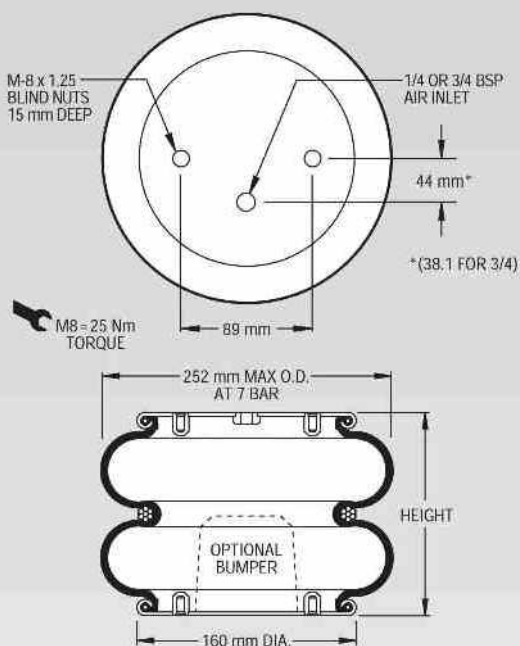
Force Table (Use for Airstroke™ actuator design)

Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
220	4202	118	3.19	4.44	5.66	7.06	8.29
200	3918	139	3.90	5.35	6.76	8.32	9.73
180	3594	157	4.51	6.12	7.70	9.43	11.00
160	3233	174	5.08	6.82	8.57	10.46	12.20
140	2840	191	5.60	7.48	9.40	11.46	13.35
120	2434	206	6.05	8.09	10.16	12.36	14.38
100	2007	218	6.42	8.63	10.81	13.11	15.25
80	1564	228	6.76	9.08	11.34	13.72	15.94

NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style 20	Blind nuts, 1/4 BSP	W01-M58-6187
	Blind nuts, 1/4 BSP, bumper	W01-M58-6188
Two Ply Bellows	Blind nuts, 3/4 BSP	W01-M58-6185
	Blind nuts, 3/4 BSP, bumper	W01-M58-6186
	Countersunk steel bead rings, 40 mm bolts, nuts, washers	W01-M58-6990
	Rubber bellows only	W01-358-7901
Assembly weight.....		3.40 kg.
Force to collapse to minimum height (@ 0 BAR)		62 N.

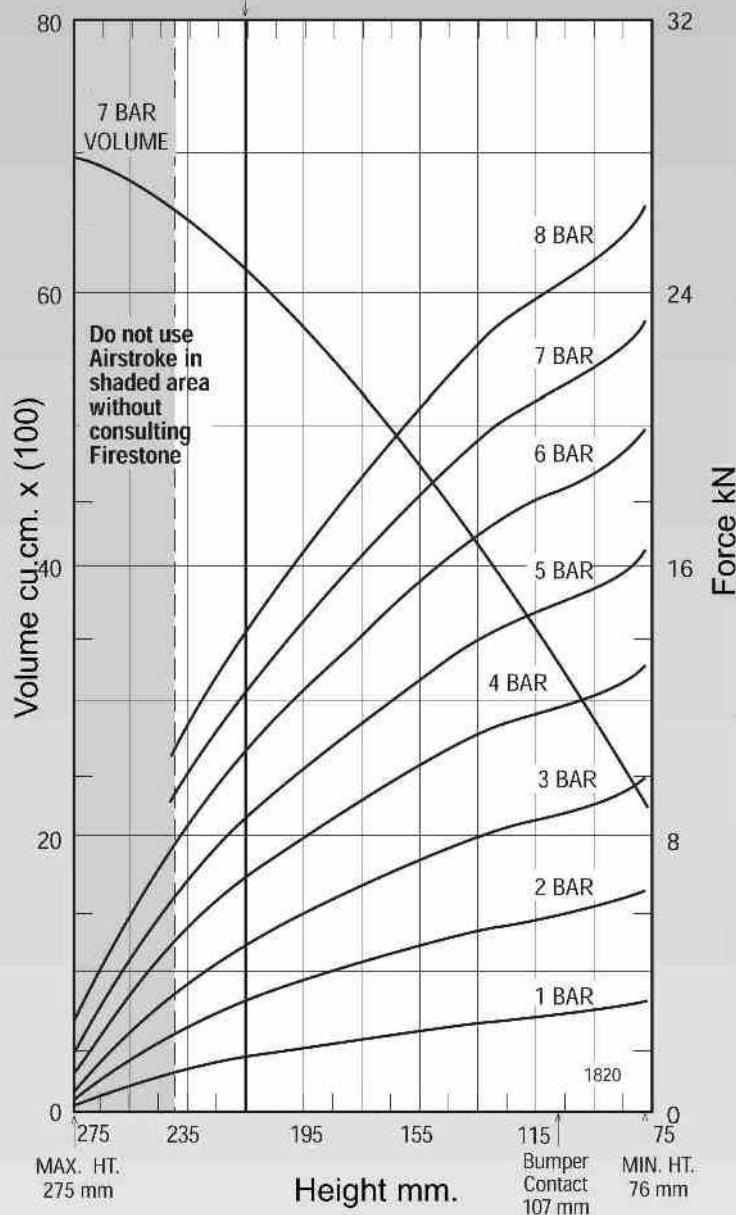
Style 202	Blind nuts, 1/4 BSP	W01-M58-6192
High Strength Construction	Blind nuts, 3/4 BSP	W01-M58-6190



NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.

RECOMMENDED
AIRMOUNT
DESIGN HEIGHT
215 mm.

Static Data
1820



See page 12 for instructions on how to use chart.

Dynamic Characteristics at 215 mm Design Height (Required for Airmount isolator design only)

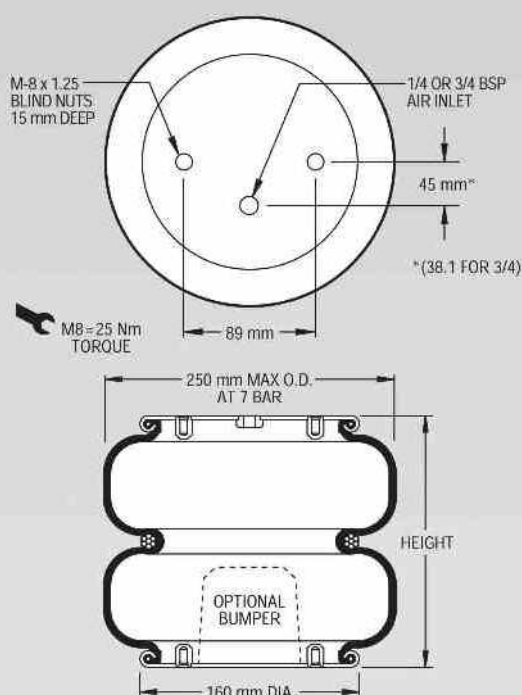
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	4.78	77.93	2.01
4	6.73	98.23	1.96
5	8.49	122.17	1.89
6	10.42	146.53	1.87
7	12.19	168.24	1.85

Force Table (Use for Airstroke™ actuator design)

Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
230	6423	149	3.97	5.70	7.21	8.91	10.45
200	5853	196	5.49	7.59	9.59	11.75	13.72
170	5129	237	6.75	9.20	11.61	14.22	16.60
140	4286	273	7.81	10.72	13.45	16.42	19.17
110	3372	299	8.59	11.72	14.74	17.99	20.98
80	2417	324	9.51	12.74	16.03	19.50	22.68

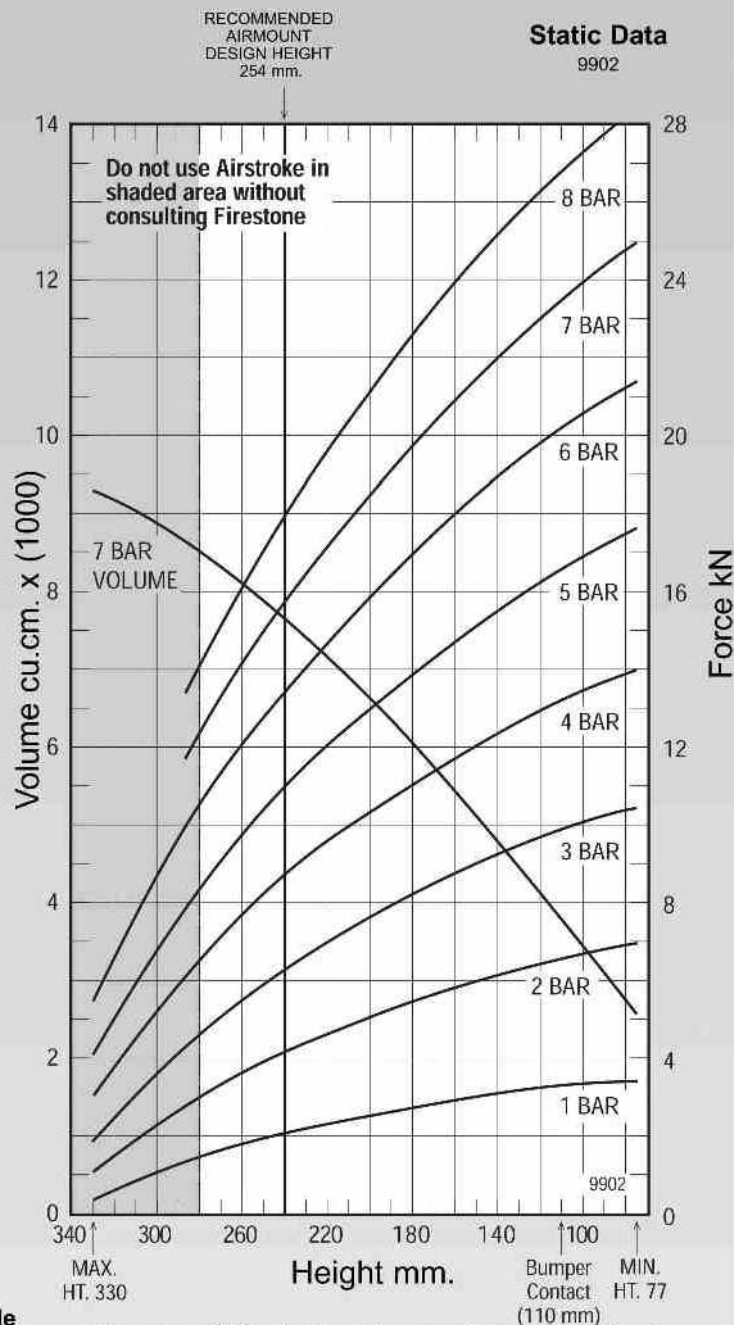
NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style	Blind nuts, 1/4 BSP	W01-M58-6183
20-2	Blind nuts, 3/4 BSP	W01-M58-6194
Two Ply	Countersunk steel bead rings, 40 mm bolts, nuts, washers	SEE NOTE BELOW
Bellows	Rubber bellows only	W01-M58-6146
Assembly weight.....		3.50 kg.
Force to collapse to minimum height (@ 0 BAR)		75 N.



NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.

Dynamic Characteristics at 254 mm Design Height (Required for Airmount isolator design only)			
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	5.71	71	1.76
4	8.12	91	1.67
5	10.15	108	1.63
6	12.45	126	1.59
7	14.58	144	1.57



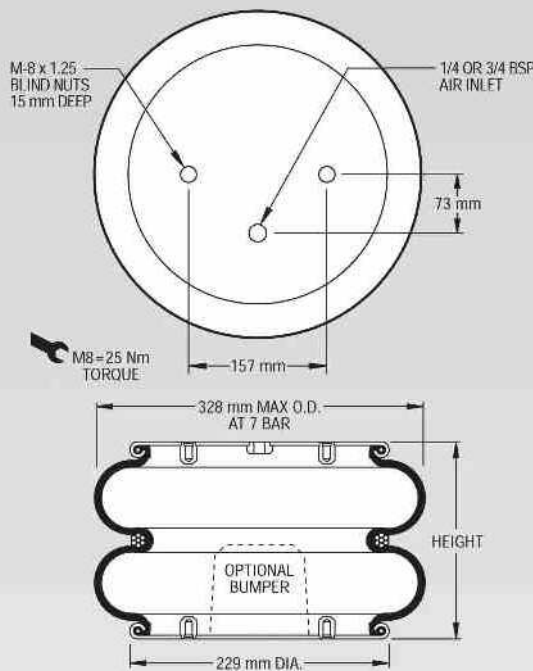
See page 12 for instructions on how to use chart.

Force Table (Use for Airstroke™ actuator design)							
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
280	8531	175	4.52	6.43	8.27	10.41	12.28
260	8130	201	5.43	7.58	9.65	11.97	14.05
240	7682	223	6.24	8.60	10.86	13.36	15.63
220	7189	244	6.96	9.51	11.95	14.61	17.07
200	6637	263	7.58	10.31	12.94	15.79	18.43
180	6048	282	8.16	11.03	13.85	16.91	19.73
160	5424	299	8.70	11.70	14.71	17.96	20.96
140	4770	315	9.23	12.33	15.49	18.89	22.02

NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style 22	Blind nuts, 1/4 BSP	W01-M58-6381
	Blind nuts, 1/4 BSP, bumper	W01-M58-6382
Two Ply Bellows	Blind nuts, 3/4 BSP	W01-M58-6200
	Blind nuts, 3/4 BSP, bumper	W01-M58-6201
	Countersunk steel bead rings, 40 mm bolts, nuts, washers	W01-M58-7524
	Rubber bellows only	W01-358-0226
Assembly weight (bead plate version, no bumper)		5.8 kg.
Force to collapse to minimum height (@ 0 BAR)		88.9 N.

Style 210	Blind nuts, 1/4 BSP	W01-M58-6212
	Blind nuts, 1/4 BSP, bumper	W01-M58-6213
High Strength Construction	Blind nuts, 3/4 BSP	W01-M58-6210
	Countersunk steel bead rings, bolts, nuts, washers	W01-M58-6976
	Rubber bellows only	W01-358-7928

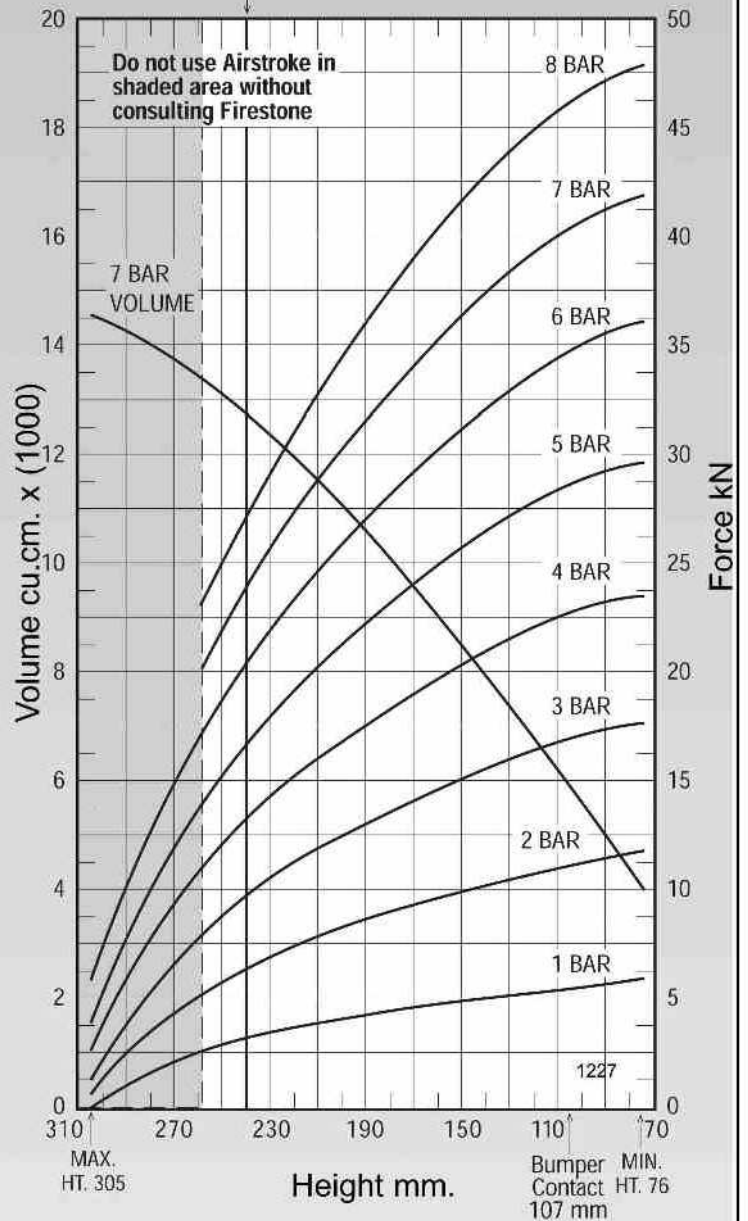


NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.

Dynamic Characteristics at 240 mm Design Height (Required for Airmount isolator design only)			
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	9.68	137	1.88
4	13.12	175	1.82
5	16.56	215	1.80
6	20.35	255	1.77
7	23.81	294	1.75

RECOMMENDED
AIRMOUNT
DESIGN HEIGHT
240 mm.

Static Data
1227

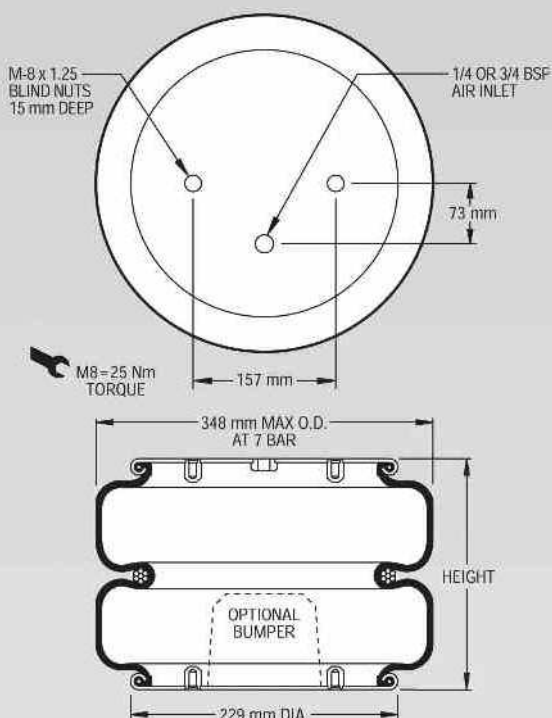


See page 12 for instructions on how to use chart.

Force Table (Use for Airstroke™ actuator design)							
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
240	12776	340	9.68	13.12	16.56	20.35	23.81
220	12002	389	11.22	15.11	19.05	23.31	27.21
200	11107	431	12.49	16.79	21.19	25.89	30.16
180	10127	469	13.60	18.28	23.10	28.21	32.81
160	9072	504	14.61	19.64	24.85	30.32	35.24
140	7952	535	15.56	20.90	26.42	32.23	37.44
120	6815	562	16.42	22.03	27.80	33.85	39.32
100	5637	583	17.15	22.94	28.90	35.12	40.78

NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

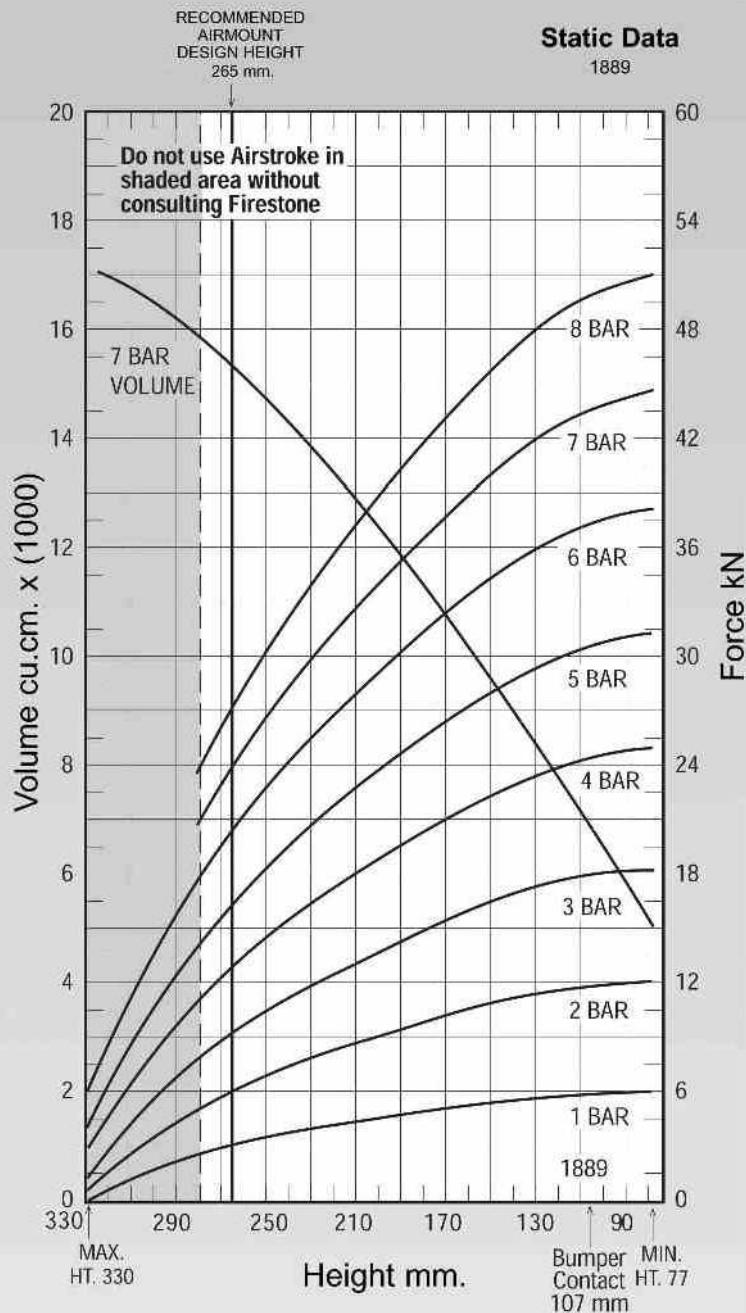
	Description	Assembly Order No.
Style 22-1.5	Blind nuts, 1/4 BSP	W01-M58-6384
	Blind nuts, 3/4 BSP	W01-M58-6383
Two Ply Bellows	Rubber bellows only	W01-358-0259
Assembly weight (bead plate version, no bumper)		5.85 kg.
Force to collapse to minimum height (@ 0 BAR)		116 N.



NOTE: The bellows extends beyond the bead plates at minimum height.

NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.

Dynamic Characteristics at 265 mm Design Height (Required for Airmount isolator design only)			
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	9.12	129	1.87
4	12.82	170	1.82
5	16.30	208	1.78
6	20.28	246	1.74
7	23.86	282	1.71

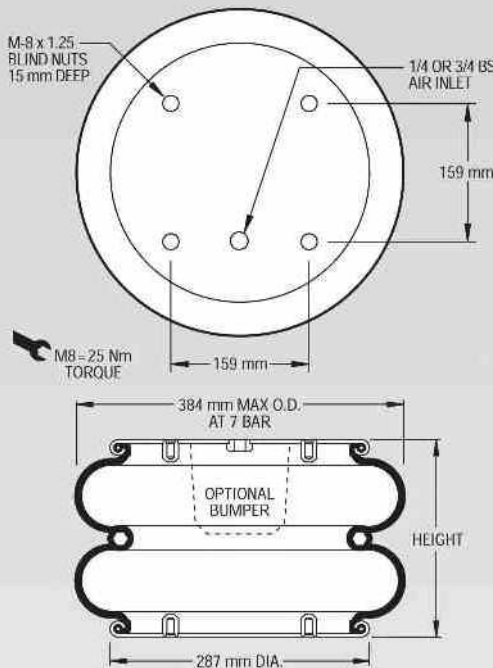


Force Table (Use for Airstroke™ actuator design)							
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
270	15435	327	8.67	12.21	15.55	19.41	22.87
230	13823	424	11.73	16.31	20.58	25.32	29.64
190	11833	502	14.16	19.45	24.50	30.04	35.13
150	9521	571	16.31	22.17	27.91	34.20	39.97
110	7032	619	17.73	24.18	30.37	37.11	43.34
80	4521	635	18.21	24.84	31.20	38.10	44.48

NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

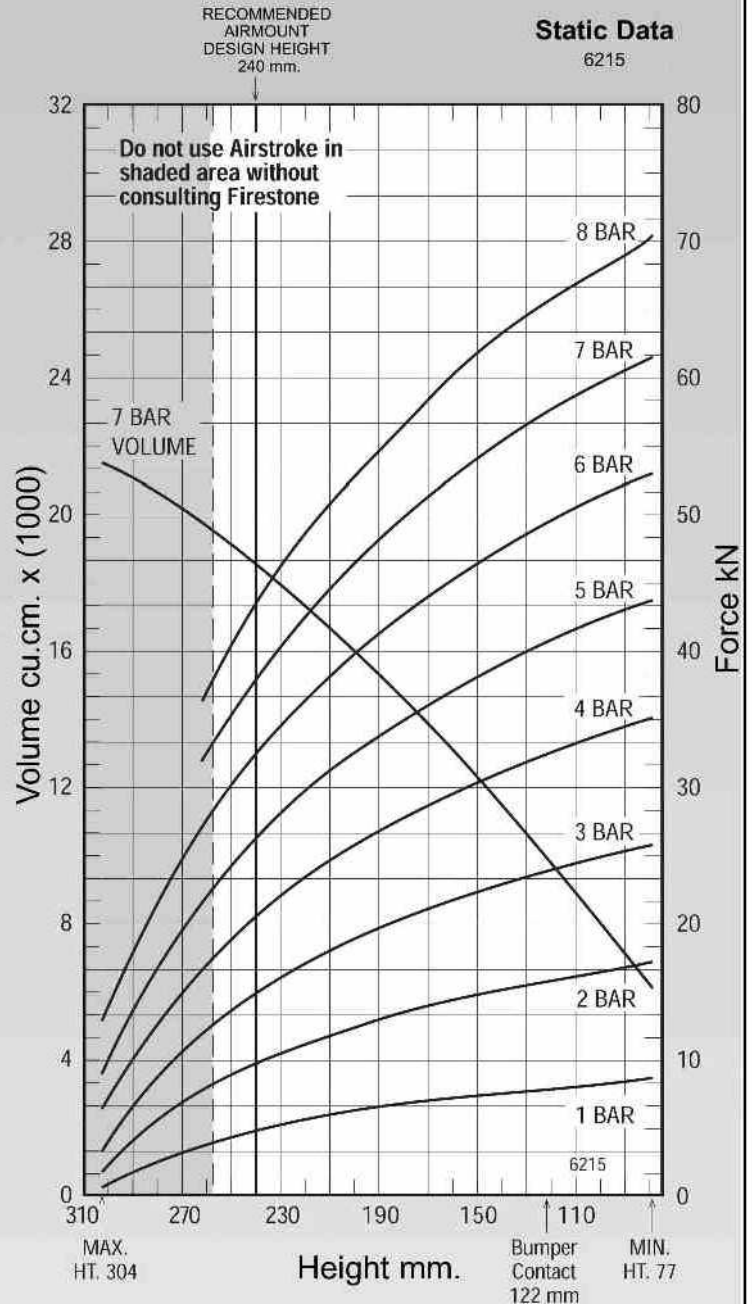
	Description	Assembly Order No.
Style 21	Blind nuts, 1/4 BSP	W01-M58-6114
	Blind nuts, 1/4 BSP, bumper	W01-M58-6115
Two Ply Bellows	Blind nuts, 3/4 BSP	W01-M58-6112
	Blind nuts, 3/4 BSP, bumper	W01-M58-6113
	Countersunk steel bead rings, 40 mm bolts, nuts, washers	W01-M58-7525
	Rubber bellows only	W01-358-0213
Assembly weight.....		7.85 kg.
Force to collapse to minimum height (@ 0 BAR)		98 N.

Style 205	Blind nuts, 1/4 BSP	W01-M58-6079
	Blind nuts, 3/4 BSP	W01-M58-6077
Four Ply Bellows	Countersunk steel bead rings, 40 mm bolts, nuts & washers	W01-M58-7536
	Rubber bellows only	W01-358-7929



NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.

Dynamic Characteristics at 240 mm Design Height (Required for Airmount isolator design only)			
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	14.67	200	1.84
4	20.23	262	1.79
5	25.85	318	1.75
6	31.99	375	1.71
7	37.38	430	1.69

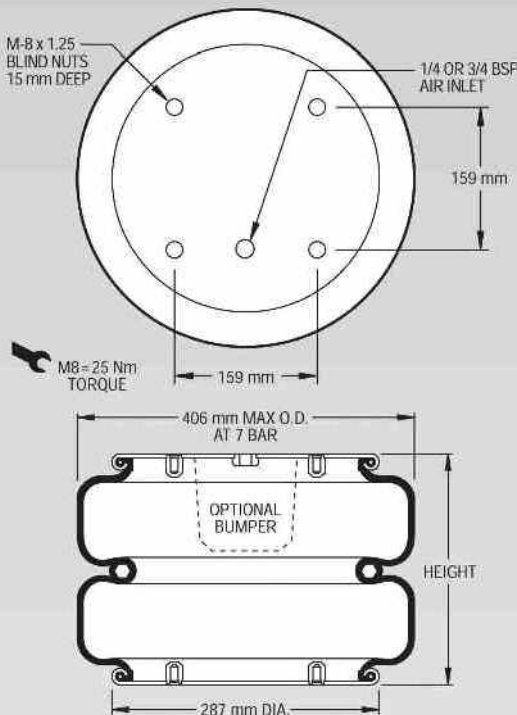


See page 12 for instructions on how to use chart.

Force Table (Use for Airstroke™ actuator design)							
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
240	18574	534	14.67	20.23	25.85	31.99	37.38
220	17382	598	16.77	23.02	29.19	35.86	41.84
200	16033	651	18.51	25.33	31.96	39.08	45.56
180	14575	698	20.01	27.29	34.36	41.93	48.87
160	13022	741	21.33	29.01	36.53	44.56	51.90
140	11385	780	22.48	30.56	38.50	46.92	54.61
120	9732	813	23.47	31.96	40.21	48.91	56.88
100	8023	839	24.34	33.24	41.65	50.51	58.72

NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style	Blind nuts, 1/4 BSP	W01-M58-6377
21-2	Blind nuts, 1/4 BSP, rubber bumper	W01-M58-6379
Two Ply	Blind nuts, 3/4 BSP	W01-M58-6378
Bellows	Rubber bellows only	W01-358-0140
Assembly weight (bead plate version, no bumper)		8.26kg.
Force to collapse to minimum height (@ 0 BAR)		156 N.

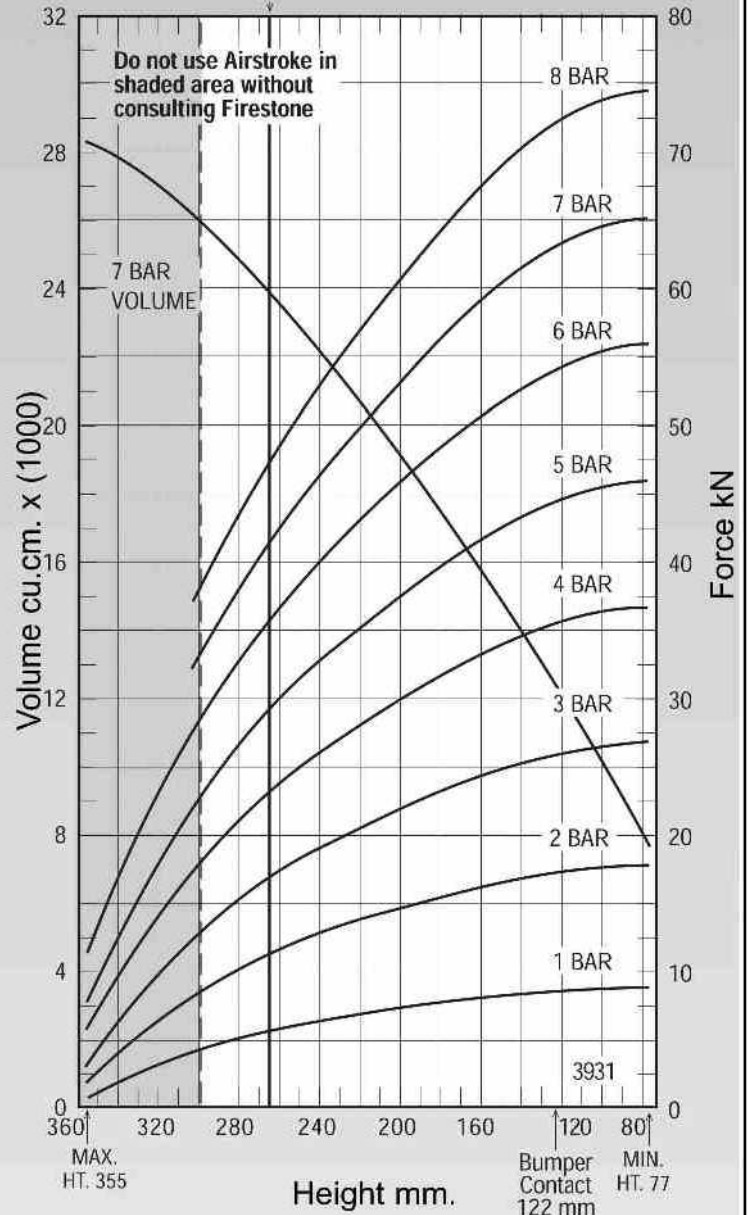


NOTE: The bellows extends beyond the bead plates at minimum height.

NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.

RECOMMENDED
AIRMOUNT
DESIGN HEIGHT
265 mm.

Static Data
3931



See page 12 for instructions on how to use chart.

Dynamic Characteristics at 265 mm Design Height
(Required for Airmount isolator design only)

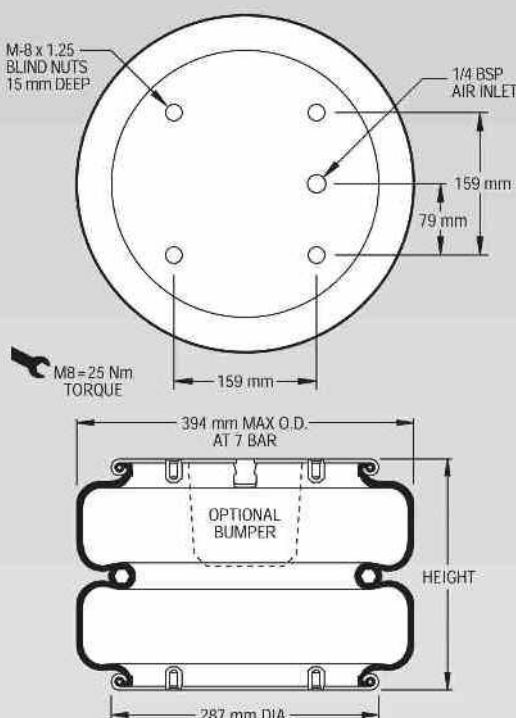
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	16.48	183	1.66
4	22.69	238	1.62
5	28.70	289	1.58
6	35.33	340	1.55
7	41.34	390	1.53

Force Table (Use for Airstroke™ actuator design)

Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
280	24758	541	14.81	20.52	26.07	32.28	37.85
240	22165	661	18.76	25.69	32.37	39.60	46.23
200	19084	758	21.74	29.70	37.34	45.53	53.06
160	15583	844	24.15	33.09	41.57	50.69	59.10
120	11862	906	25.90	35.57	44.61	54.37	63.44
80	8016	930	26.79	36.66	45.89	55.82	65.11

NOTE: All Assembly Order Numbers are for bead plate parts unless noted otherwise.

	Description	Assembly Order No.
Style 233-2	Blind nuts, 1/4 BSP	W01-M58-6107
	Blind nuts, 3/4 BSP	W01-M58-6109
Two Ply Bellows		
Assembly weight.....		8.89 kg.
Force to collapse to minimum height (@ 0 BAR)		156 N.



NOTE: The bellows extends beyond the bead plates at minimum height.

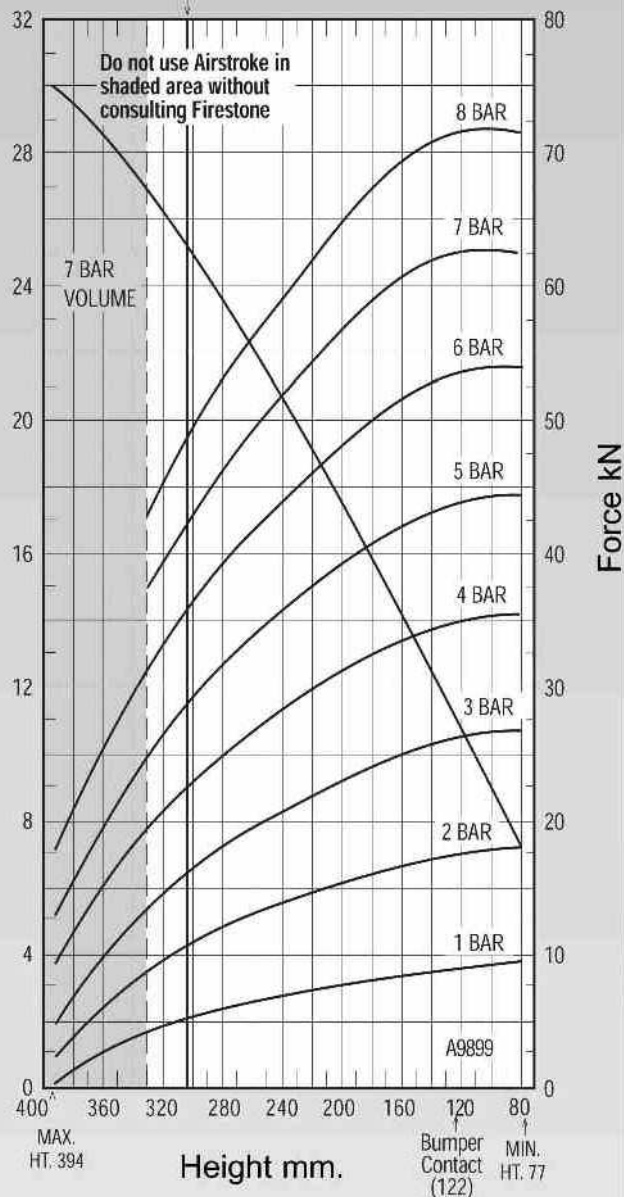
NOTE: A bead plate part is shown. This part is also available with bead rings. See pages 8-10 for explanation.

Dynamic Characteristics at 285 mm Design Height (Required for Airmount isolator design only)			
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	17.48	164	1.53
4	24.14	208	1.46
5	30.73	251	1.43
6	38.28	299	1.39
7	45.04	345	1.38

RECOMMENDED
AIRMOUNT
DESIGN HEIGHT
285 mm.

Static Data
A9899

Volume cu.cm. x (1000)



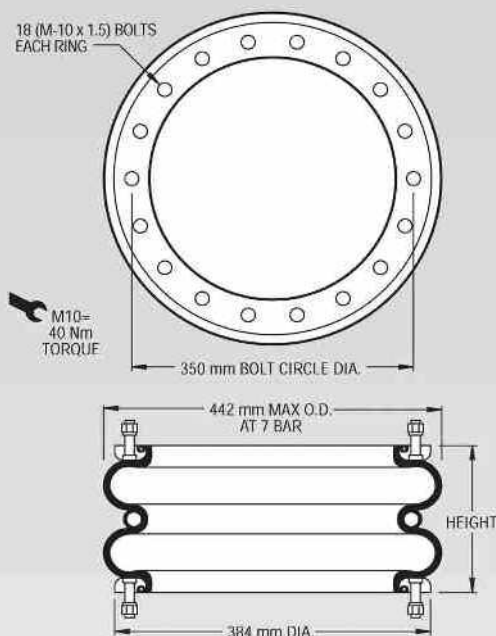
See page 12 for instructions on how to use chart.

Force Table (Use for Airstroke™ actuator design)							
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
320	26309	560	14.44	20.52	26.35	33.20	39.23
280	23714	653	17.82	24.56	31.24	38.87	45.73
240	20846	729	20.39	27.85	35.13	43.41	51.04
200	17673	799	22.69	30.81	38.73	47.65	55.94
160	14250	859	24.68	33.30	41.87	51.34	60.11
120	10748	892	25.94	34.86	43.76	53.44	62.41
80	6382	889	26.62	35.40	44.31	53.60	62.25

NOTE: All Assembly Order Numbers are for bead ring parts unless noted otherwise.

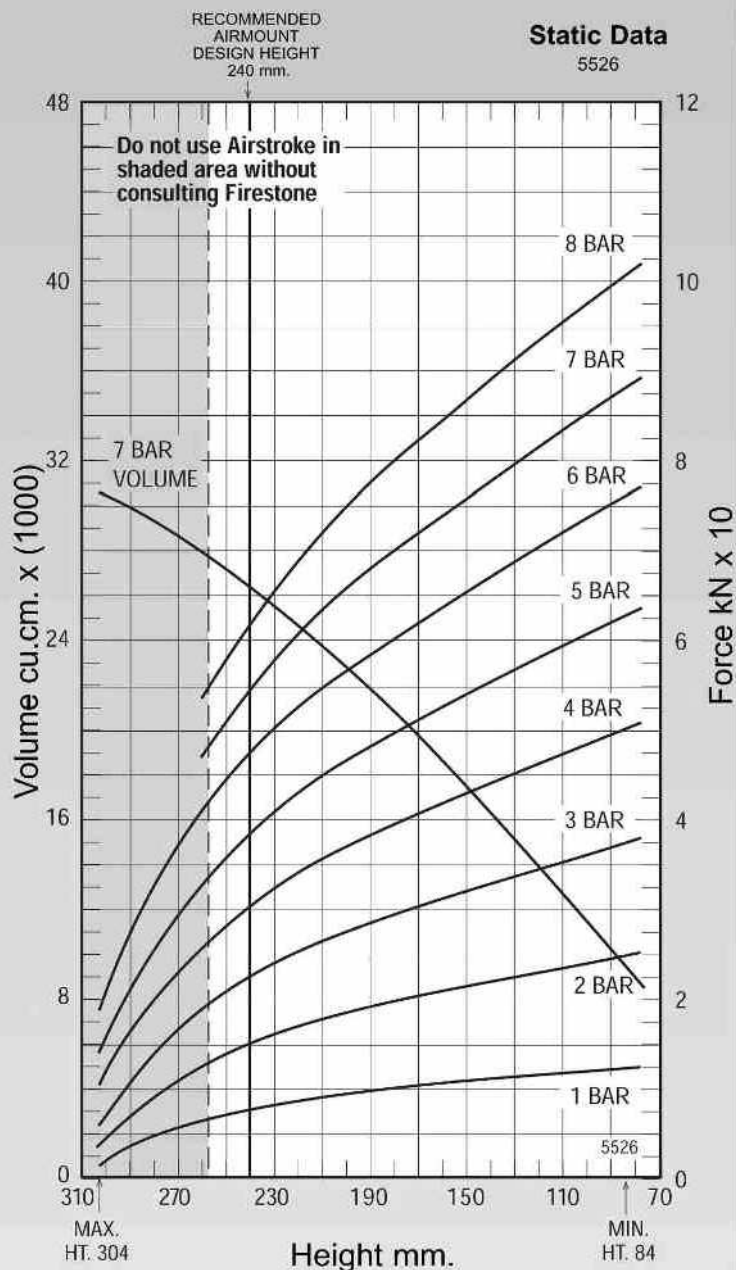
	Description	Assembly Order No.
Style 28	Ribbed neck aluminum bead rings (equal spacing), 45 mm bolts, nuts, washers	W01-M58-7531
Two Ply Bellows	Rolled plate assembly, 1/2 blind nuts, 3/4 NPT	SEE NOTE BELOW
	Rubber bellows only	W01-358-7925
Assembly weight.....		8.62 kg.
Force to collapse to minimum height (@ 0 BAR)		169 N.

Style 201	Ribbed neck aluminum bead rings (equal spacing), 50 mm bolts, nuts, washers	Contact Firestone
High Strength Construction	Rubber bellows only	W01-358-0201



NOTE: A bead ring part is shown. This part is also available with rolled plates. See page 11 for explanation.

Dynamic Characteristics at 240 mm Design Height (Required for Airmount isolator design only)			
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	22.15	295	1.82
4	30.14	376	1.76
5	38.05	460	1.73
6	46.65	542	1.70
7	54.48	618	1.68



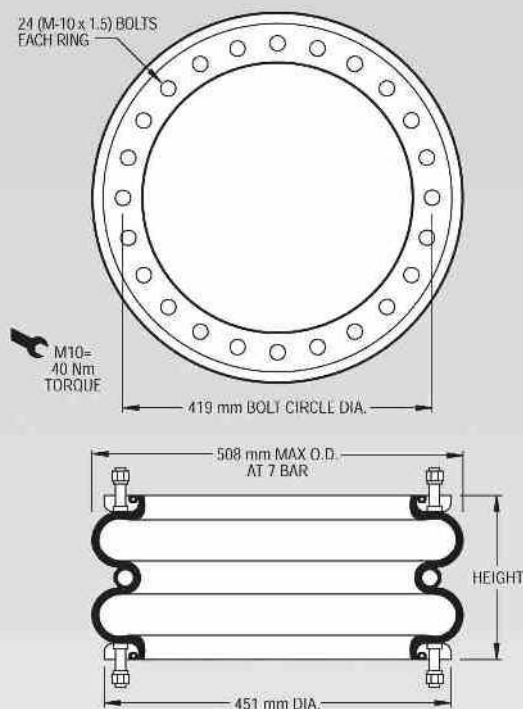
See page 12 for instructions on how to use chart.

Force Table (Use for Airstroke [™] actuator design)							
Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
240	26073	778	22.15	30.14	38.05	46.65	54.48
220	24364	868	25.13	33.95	42.75	52.16	60.76
200	22432	942	27.57	37.08	46.61	56.69	65.96
180	20346	1006	29.58	39.70	49.85	60.54	70.38
160	18120	1062	31.33	42.02	52.74	63.99	74.36
140	15772	1118	32.97	44.25	55.56	67.37	78.24
120	13395	1175	34.68	46.56	58.50	70.87	82.21
100	10932	1231	36.48	48.90	61.43	74.35	86.18

NOTE: All Assembly Order Numbers are for bead ring parts unless noted otherwise.

	Description	Assembly Order No.
Style 203	Ribbed neck aluminum bead rings (equal spacing), 45 mm bolts, nuts, washers	W01-M58-6985
Two Ply Bellows	Rolled plate assembly, 1/2 blind nuts, 3/4 NPT	SEE NOTE BELOW
	Rubber bellows only	W01-358-0205
Assembly weight.....		10.80 kg.
Force to collapse to minimum height (@ 0 BAR)		178 N.

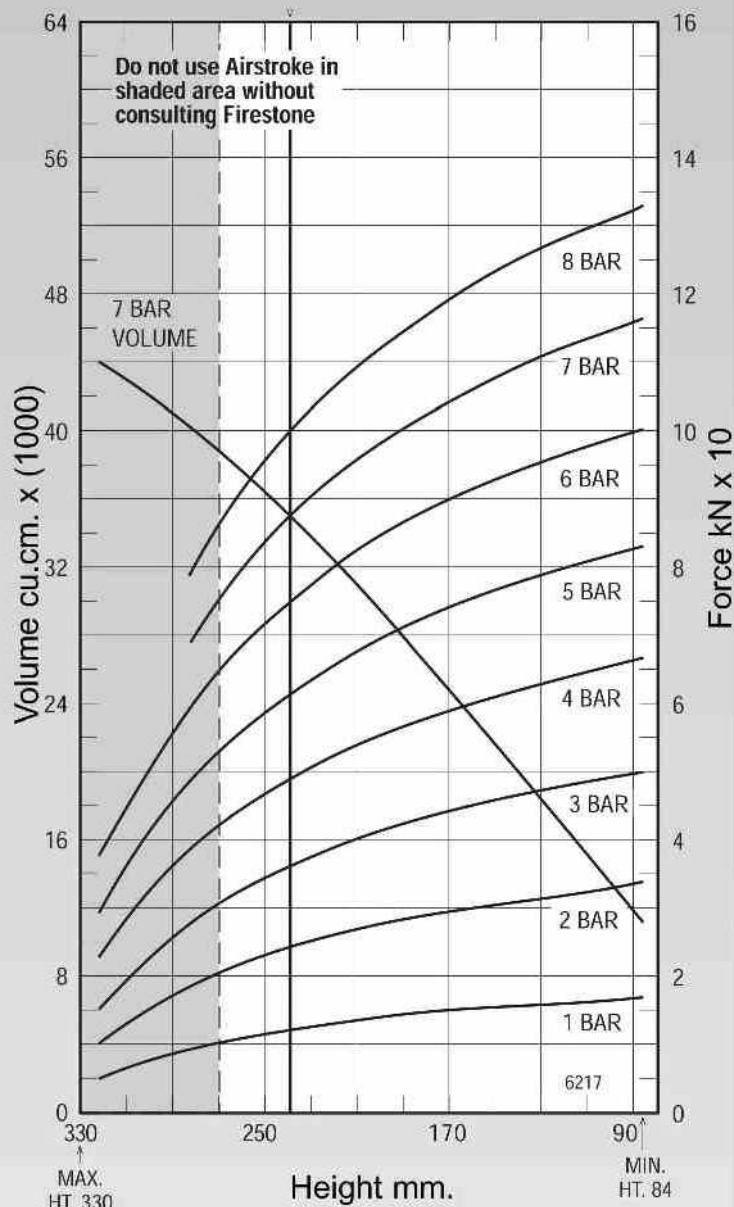
Style 218	Ribbed neck aluminum bead rings (equal spacing), 45 mm bolts, nuts, washers	W01-M58-6986
High Strength Construction	Rubber bellows only	W01-358-0219



NOTE: A bead ring part is shown. This part is also available with rolled plates. See page 11 for explanation.

RECOMMENDED
AIRMOUNT
DESIGN HEIGHT
240 mm.

Static Data
6217



See page 12 for instructions on how to use chart.

Dynamic Characteristics at 240 mm Design Height
(Required for Airmount isolator design only)

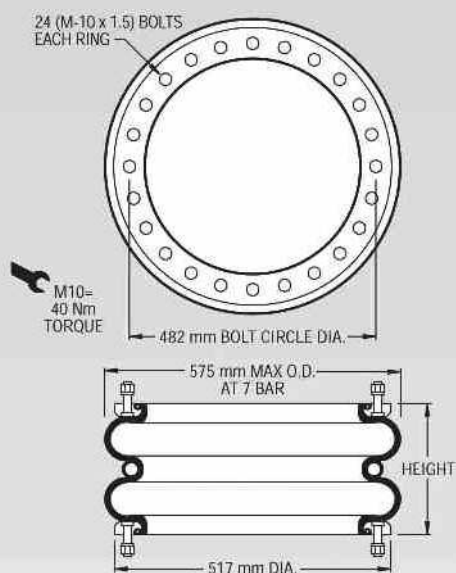
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	35.98	409	1.68
4	48.73	516	1.62
5	61.33	627	1.60
6	74.72	745	1.57
7	86.97	856	1.56

Force Table (Use for Airstroke™ actuator design)

Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
260	37836	1132	32.38	44.21	55.77	68.08	79.26
240	35328	1243	35.98	48.73	61.33	74.72	86.97
220	32638	1331	38.91	52.40	65.84	80.08	93.18
200	29694	1404	41.34	55.43	69.58	84.51	98.30
180	26610	1467	43.38	57.99	72.78	88.32	102.65
160	23416	1520	45.15	60.21	75.56	91.62	106.42
140	20139	1567	46.72	62.20	77.99	94.46	109.68
120	16912	1607	48.13	64.04	80.11	96.86	112.48

NOTE: All Assembly Order Numbers are for bead ring parts unless noted otherwise.

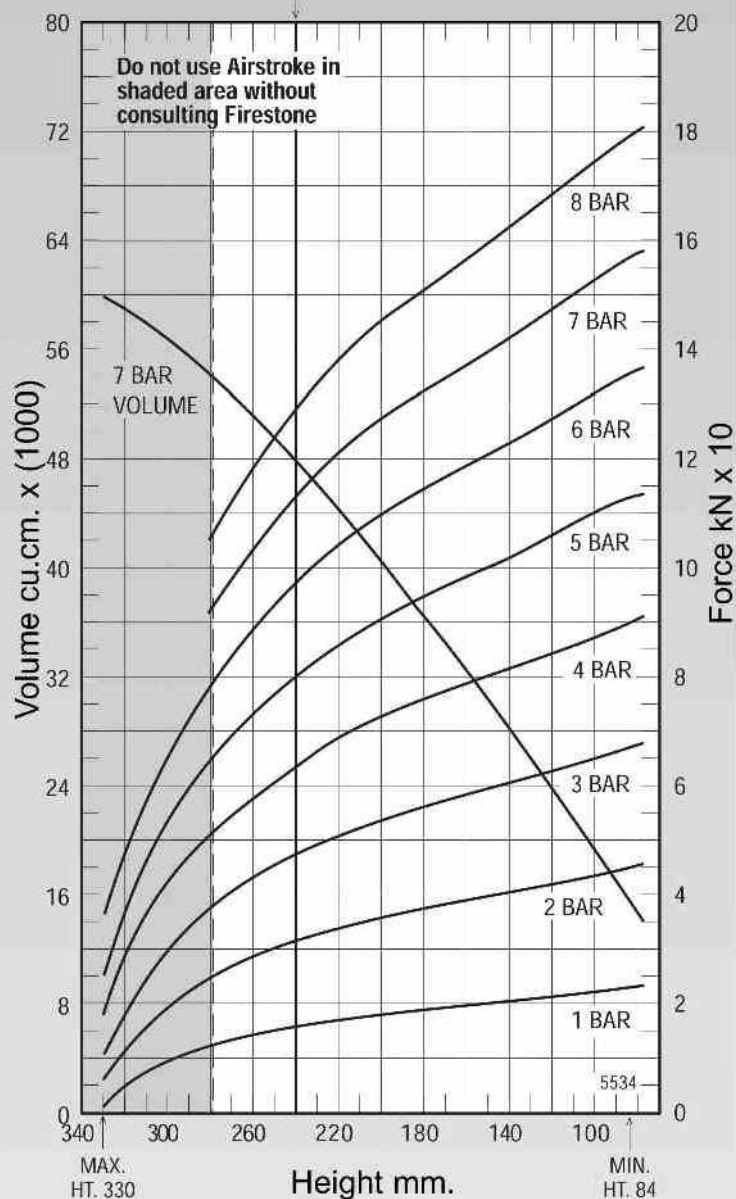
	Description	Assembly Order No.
Style 29	Ribbed neck aluminum bead rings (equal spacing), 45 mm bolts, nuts, washers	W01-M58-7532
Two Ply Bellows	Rolled plate assembly, 1/2 blind nuts, 3/4 BSP	SEE NOTE BELOW
	Rubber bellows only	W01-358-7902
Assembly weight.....		13.06 kg.
Force to collapse to minimum height (@ 0 BAR)		311 N.
Style 207	Ribbed neck aluminum bead rings (equal spacing), 45 mm bolts, nuts, washers	W01-M58-6987
High Strength Construction	Rubber bellows only	W01-358-0207



NOTE: A bead ring part is shown. This part is also available with rolled plates. See page 11 for explanation.

RECOMMENDED
AIRMOUNT
DESIGN HEIGHT
240 mm.

Static Data
5534



See page 12 for instructions on how to use chart.

Dynamic Characteristics at 240 mm Design Height
(Required for Airmount isolator design only)

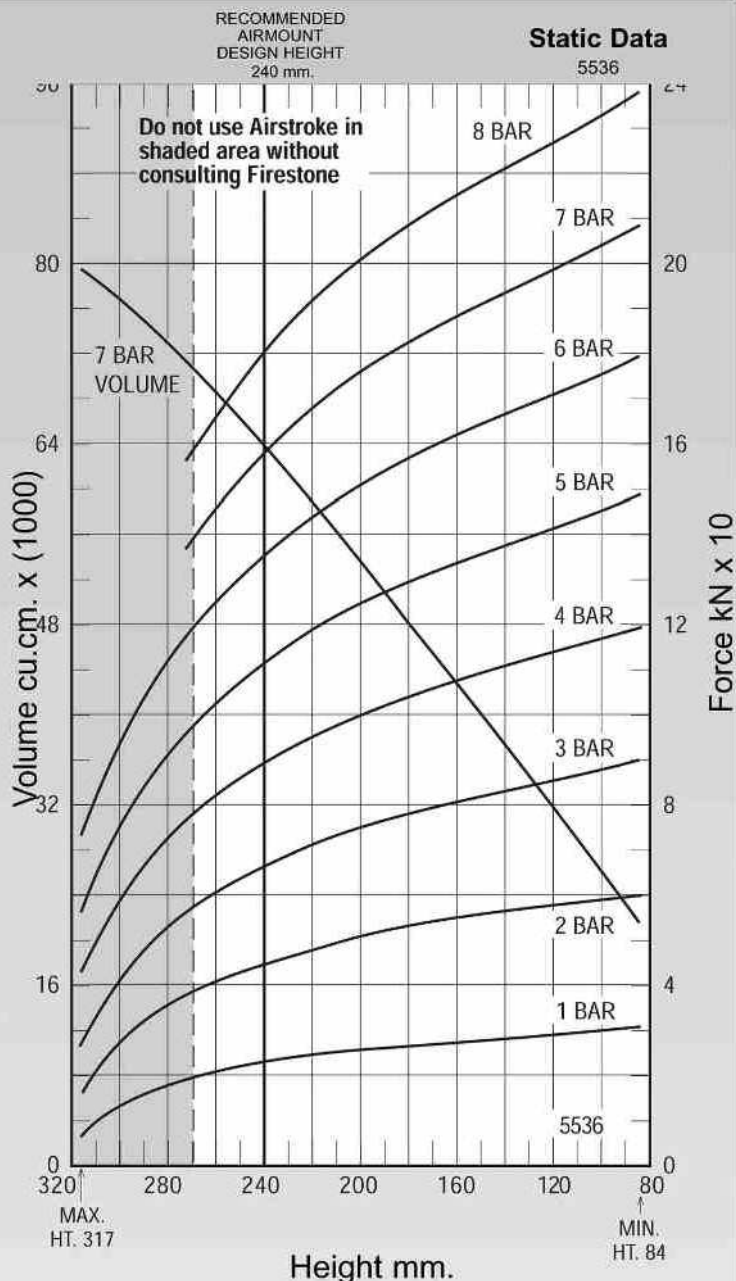
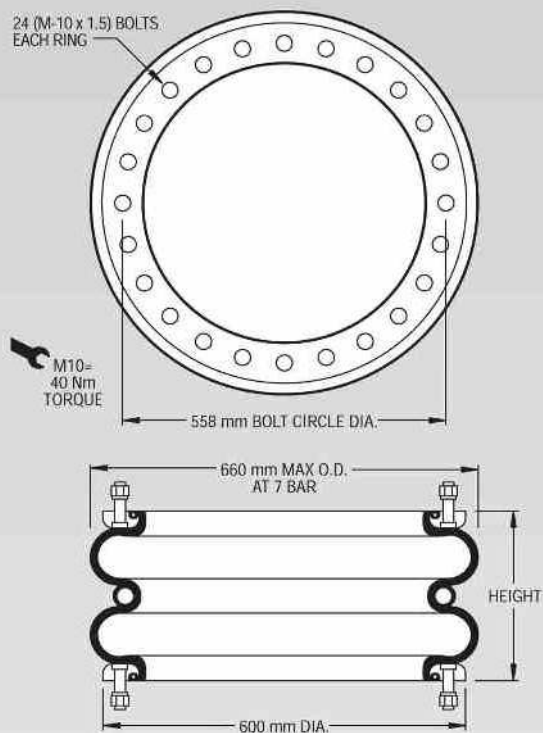
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	47.12	497	1.62
4	63.62	663	1.61
5	80.06	795	1.57
6	97.40	923	1.54
7	113.25	1050	1.52

Force Table (Use for Airstroke[™] actuator design)

Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
280	53863	1317	37.03	50.72	64.11	78.82	92.17
240	47704	1618	47.12	63.62	80.06	97.40	113.25
200	40443	1814	53.26	72.74	90.77	109.45	127.00
160	32306	1962	57.95	78.61	98.18	118.39	137.31
120	23824	2110	62.84	84.57	105.81	127.52	147.69
80	15280	2255	67.74	90.95	113.48	136.38	157.84

NOTE: All Assembly Order Numbers are for bead ring parts unless noted otherwise.

	Description	Assembly Order No.
Style 200	Ribbed neck aluminum bead rings (equal spacing), 45 mm bolts, nuts, washers	W01-M58-6979
Two Ply Bellows	Rubber bellows only	W01-358-5126
Assembly weight.....		15.83 kg.
Force to collapse to minimum height (@ 0 BAR)		445 N.



See page 12 for instructions on how to use chart.

Dynamic Characteristics at 240 mm Design Height
(Required for Airmount isolator design only)

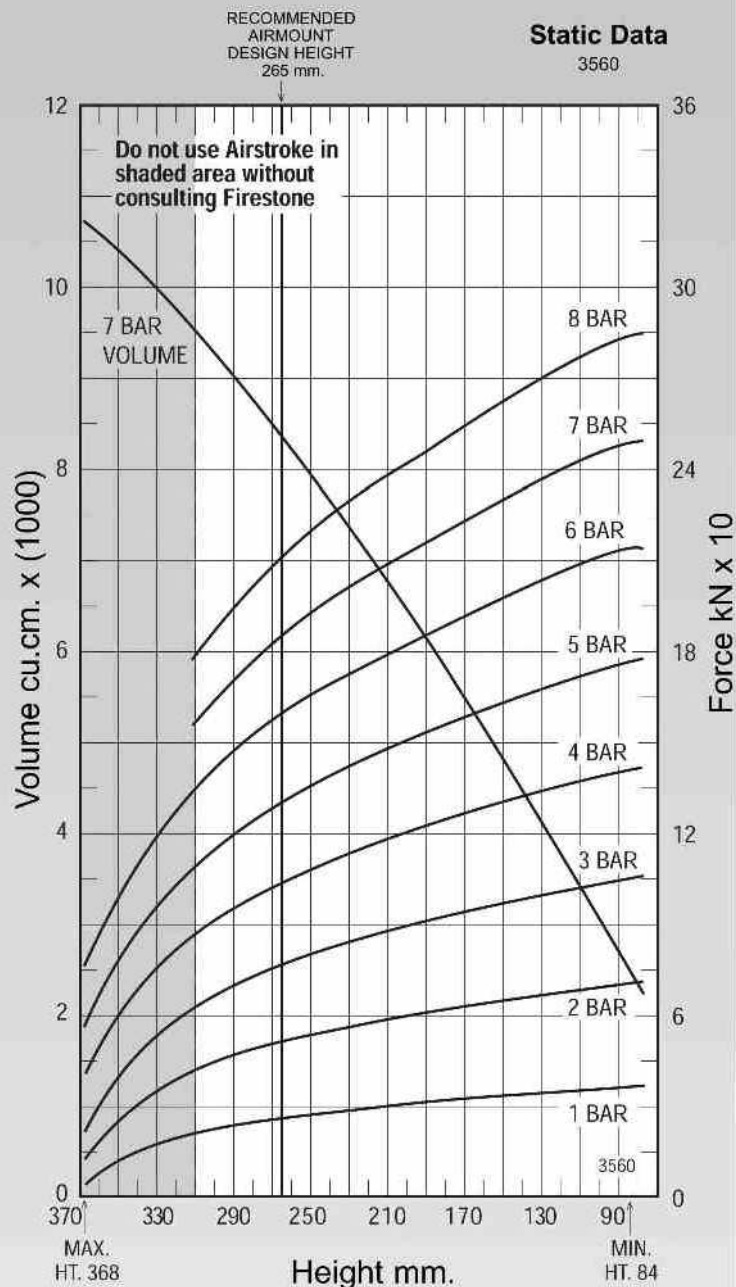
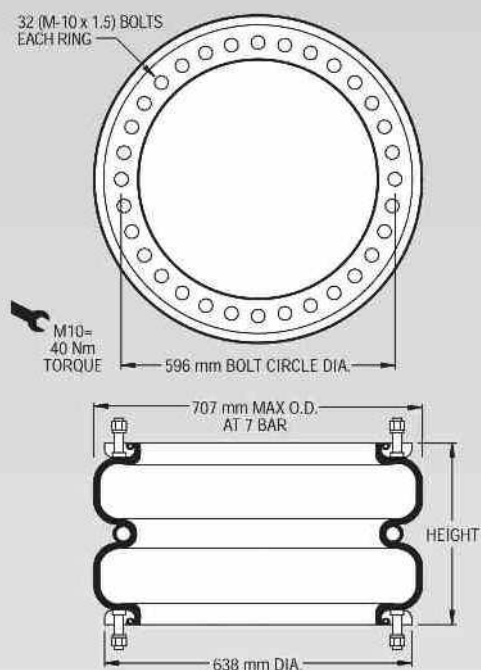
Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	65.60	710	1.64
4	88.20	903	1.60
5	110.53	1091	1.57
6	134.38	1290	1.54
7	156.56	1480	1.53

Force Table (Use for Airstroke™ actuator design)

Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
260	68626	2057	59.56	80.57	101.22	123.62	143.98
240	64100	2237	65.60	88.20	110.53	134.38	156.56
220	59270	2384	70.27	94.34	117.99	143.23	166.86
200	54018	2503	74.03	99.30	124.00	150.38	175.20
180	48552	2599	77.11	103.27	128.85	156.12	181.87
160	42927	2678	79.74	106.59	132.92	160.96	187.47
140	37197	2754	82.19	109.71	136.77	165.54	192.76
120	31597	2835	84.73	113.02	140.90	170.45	198.42

NOTE: All Assembly Order Numbers are for bead ring parts unless noted otherwise.

	Description	Assembly Order No.
Style 215	Ribbed neck aluminum bead rings (equal spacing), 45 mm bolts, nuts, washers	W01-M58-6978
High Strength Construction	Rubber bellows only	W01-358-7912
Assembly weight.....		17.42 kg.
Force to collapse to minimum height (@ 0 BAR)		712 N.



See page 12 for instructions on how to use chart.

Dynamic Characteristics at 265 mm Design Height
(Required for Airmount isolator design only)

Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	75.98	710	1.52
4	103.39	879	1.45
5	130.16	1077	1.43
6	158.58	1277	1.42
7	184.57	1458	1.40

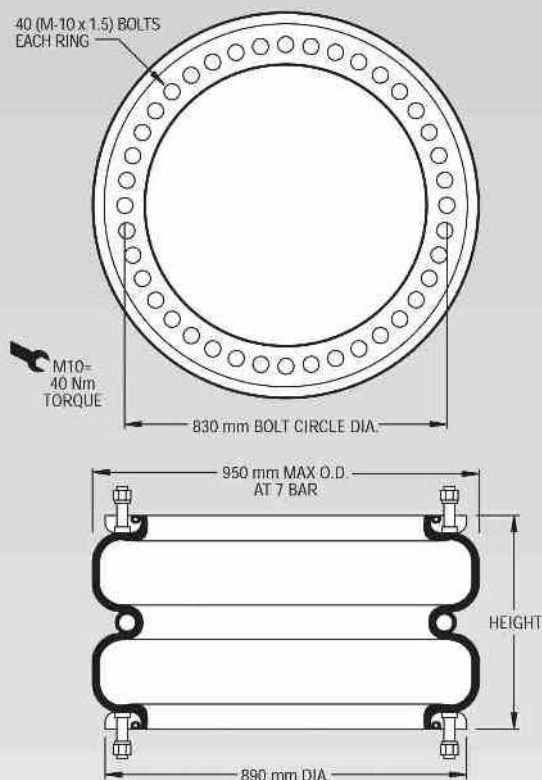
Force Table (Use for Airstroke™ actuator design)

Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
280	87025	2517	71.76	98.42	123.96	151.24	176.18
240	76206	2804	81.69	110.16	138.72	168.82	196.27
200	64214	3026	88.70	119.39	150.17	182.38	211.83
160	51165	3225	94.30	127.88	160.34	194.31	225.73
120	37635	3424	100.33	135.61	169.95	206.11	239.66
80	23815	3558	105.77	141.44	177.04	214.33	249.02

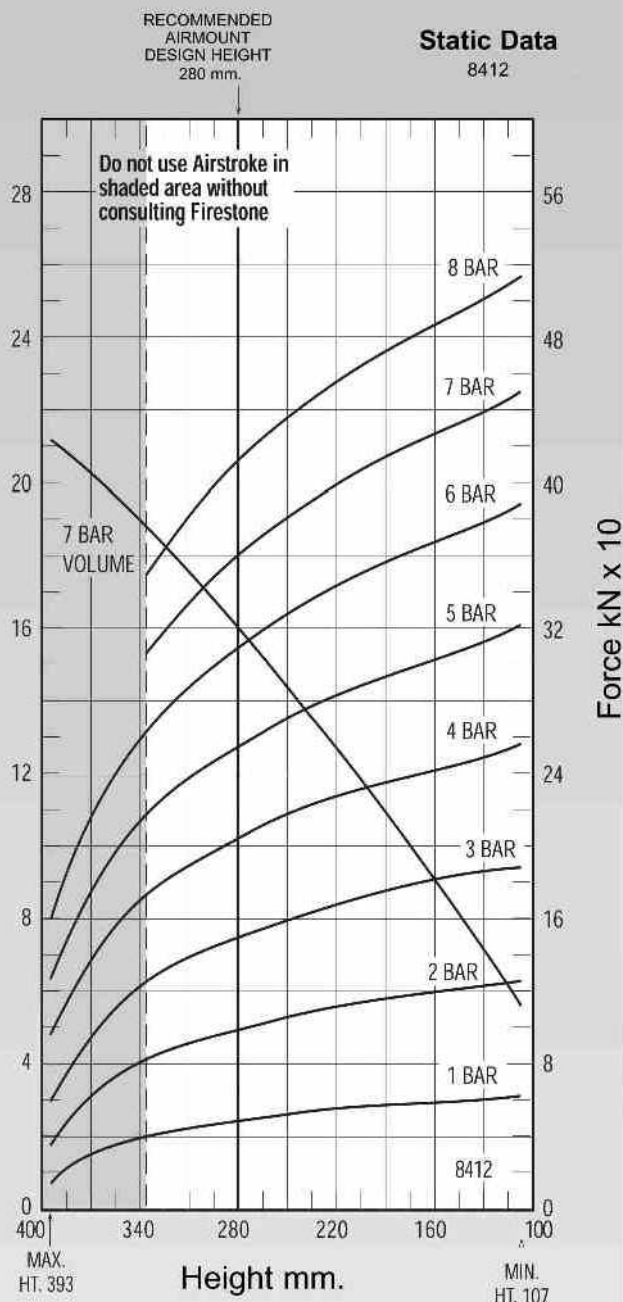
NOTE: All Assembly Order Numbers are for bead ring parts unless noted otherwise.

	Description	Assembly Order No.
Style 248-2	Ribbed neck aluminum bead rings (equal spacing), 45 mm bolts, nuts, washers	W01-M58-6970
High Strength Construction	Rubber bellows only	W01-358-1022
Assembly weight.....		32.88 kg.
Force to collapse to minimum height (@ 0 BAR)		1556 N.

Static Data
8412



Volume cu.cm. x (1000)



See page 12 for instructions on how to use chart.

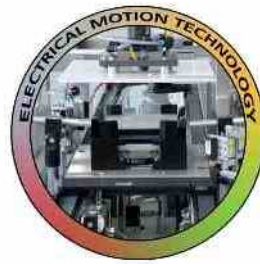
NOTE: The effective length of the 45 mm bolt is 23 mm in this bead ring.

Dynamic Characteristics at 280 mm Design Height
(Required for Airmount isolator design only)

Gauge Pressure (BAR)	Load (kN)	Spring Rate (kN/m)	Natural Frequency Hz
3	150.00	1245	1.44
4	204.75	1600	1.39
5	255.83	1923	1.37
6	309.73	2281	1.35
7	360.26	2628	1.35

Force Table (Use for Airstroke™ actuator design)

Assembly Height (mm)	Volume @ 7 BAR (cu cm)	EFF Area @ 7 BAR (cm sq)	kN Force				
			@ 3 BAR	@ 4 BAR	@ 5 BAR	@ 6 BAR	@ 7 BAR
320	180105	4643	133.77	183.62	230.28	279.45	324.96
280	160037	5147	150.00	204.75	255.83	309.73	360.26
240	138633	5549	162.94	220.93	275.60	333.61	388.39
200	115452	5858	174.20	233.51	291.87	352.93	410.04
160	90693	6106	182.57	242.51	304.68	368.72	427.34
120	65396	6367	188.40	252.37	317.21	384.29	445.66



We look forward to your application.

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