Description		Assembly Order No.
Style 323	Ribbed neck aluminum bead rings (equal spacing), 1⁷/₈ bolts, nuts, washers	W01-358-7823
Two Ply Bellows	Rolled plate assembly*, 1/2 blind nuts, 3/4 NPT	W01-358-7274
	Rubber bellows only	W01-358-7921
Assembly weight.. 34.1 lbs		
Force to collapse to minimum height (@ 0 PSIG) ..... 70 lbs.		

Style 324	Ribbed neck aluminum bead rings (equal spacing), 1⁷/₈ bolts, nuts, washers	W01-358-7829
High Strength Bellows	Rubber bellows only	W01-358-0324

24 (3/8-24) BOLTS EACH RING

28-32 FT. LBS. TORQUE

16.50 BOLT CIRCLE DIA.

20.5 MAX O.D. AT 100 PSIG
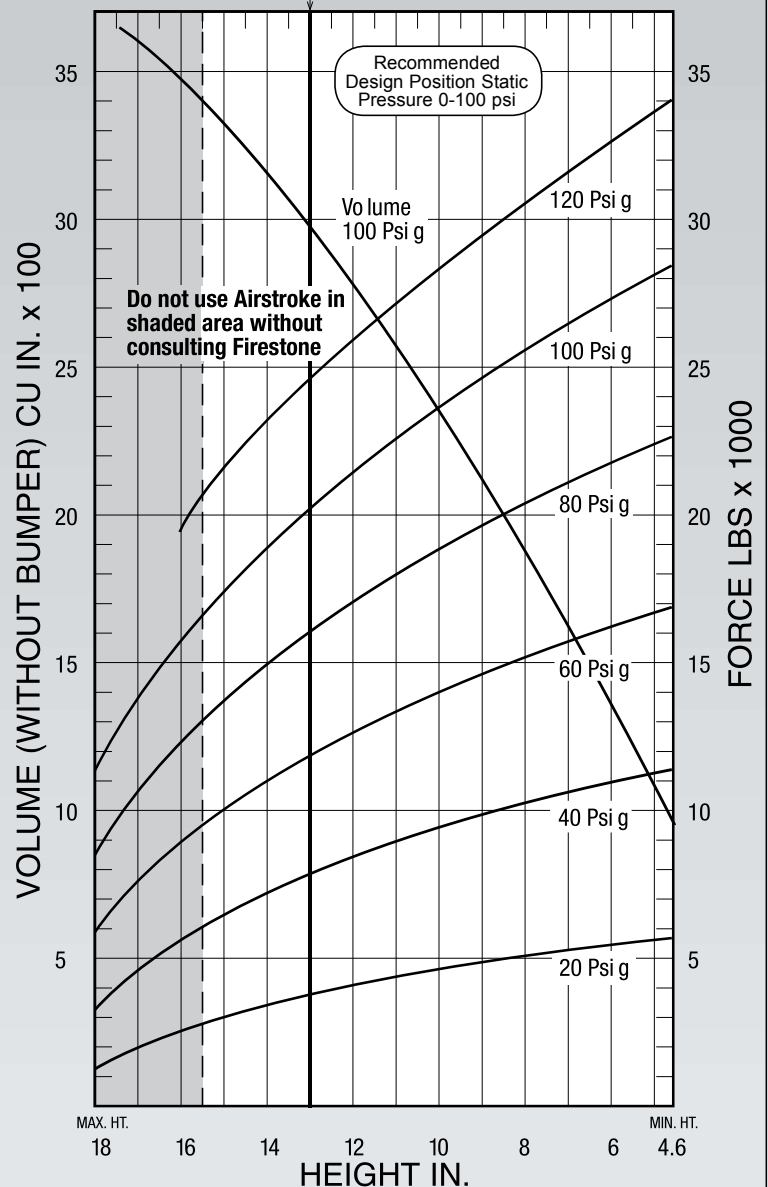
HEIGHT

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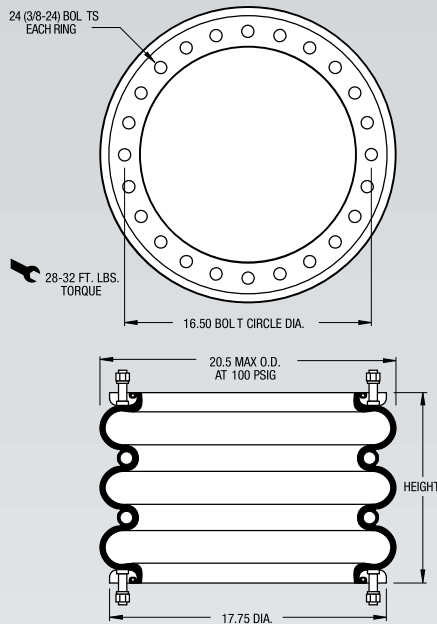
NOTE: A bead ring part is shown. This part is also available with rolled plates. See page 11 for explanation.

Increase the minimum height by .70 inch. Add .70 inch to the height (bottom axis) before reading loads.

CONSULT FIRESTONE BEFORE USING AS AIRMOUNT

RECOMMENDED AIRMOUNT DESIGN HEIGHT 13.0 INCHES

Recommended Design Position Static Pressure 0-100 psi

Volume 100 Psi g

120 Psi g

100 Psi g

80 Psi g

60 Psi g

40 Psi g

20 Psi g

Do not use Airstroke in shaded area without consulting Firestone

VOLUME (WITHOUT BUMPER) CU IN. x 100

FORCE LBS x 1000

MAX. HT. 18 16 14 12 10 8 6 4.6 MIN. HT.

HEIGHT IN.

Dynamic Characteristics at 13.0 in. Design Height
(Required for Airmount isolator design only)

Volume @ 100 PSIG = 3,073 in³

Gage Pressure (PSIG)	Load (lbs.)	Spring Rate (lbs./in.)	Natural Frequency CPM	Natural Frequency HZ
40	8,010	1,744	88	1.46
60	12,030	2,104	78	1.31
80	16,270	2,784	78	1.30
100	20,580	3,624	79	1.31

Force Table (Use for Airstroke™ actuator design)

Assembly Height (in.)	Volume @ 100 PSIG (in³)	Pounds Force @20 PSIG	@40 PSIG	@60 PSIG	@80 PSIG	@100 PSIG
15.0	3,470	3,220	6,640	10,280	13,960	17,740
13.0	3,073	3,960	8,010	12,030	16,270	20,580
11.0	2,632	4,330	8,910	13,420	18,030	22,770
9.0	2,150	4,740	9,610	14,450	19,410	24,420
7.0	1,639	5,030	10,120	15,410	20,770	26,200
5.0	1,093	5,610	11,140	16,590	22,380	28,170