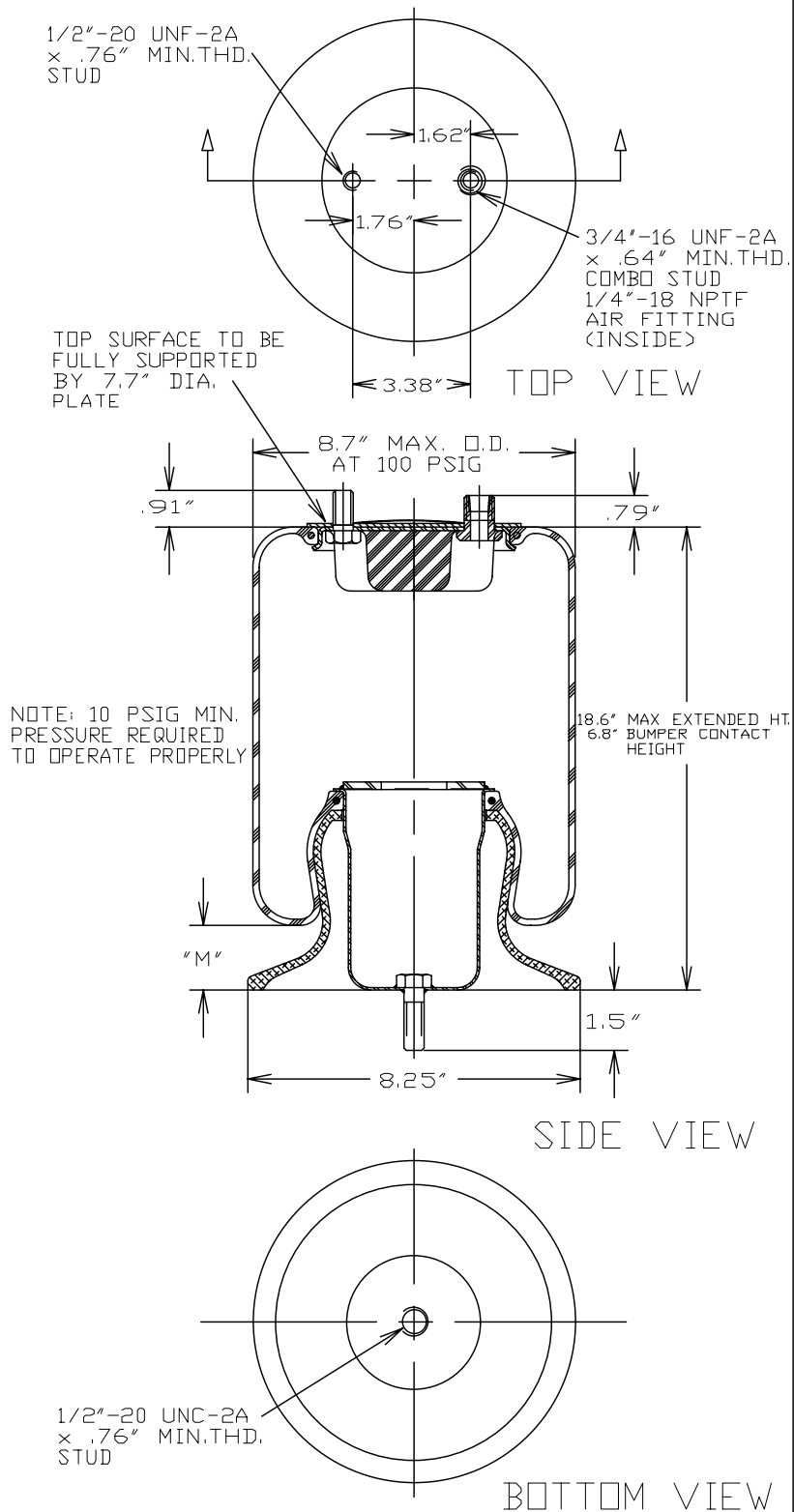


1R8-009



ASSEMBLY NUMBER	ELASTOMER	AIR FITTING	BUMPER INCLUDED
1R8-009	NAT. RUBBER	1/4"-18 NPTF COMBO STUD	YES

SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....480-2700 lb
- DESIGN HEIGHT RANGE (ISOLATOR)....10.5-13.0 in
- USEABLE STROKE (ACTUATOR).....11.8 in
- ASSEMBLY WEIGHT.....8.2 lb
- TEMPERATURE RANGE*.....
- ALUMINUM PISTON

* NOTE: PRODUCT LIFE MAY BE SHORTENED WHEN
OPERATING AT OR NEAR EXTREME TEMPERATURES.
SEE TEMPERATURE RANGE GUIDELINES SECTION.

OTHER OPTIONS:

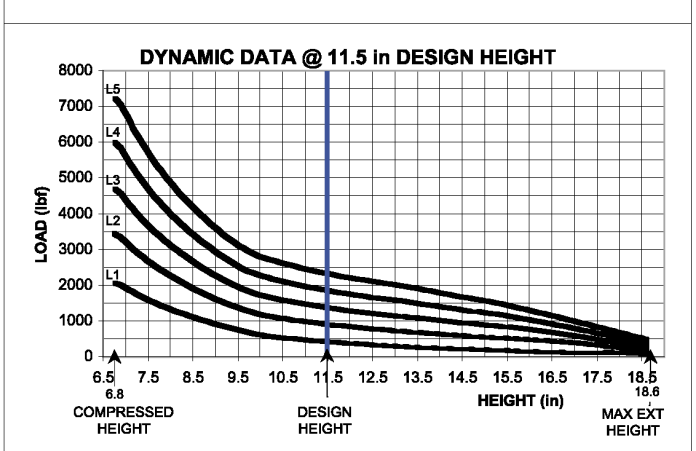
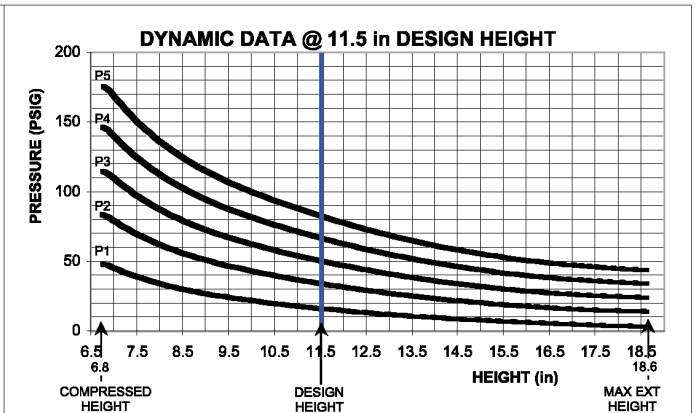
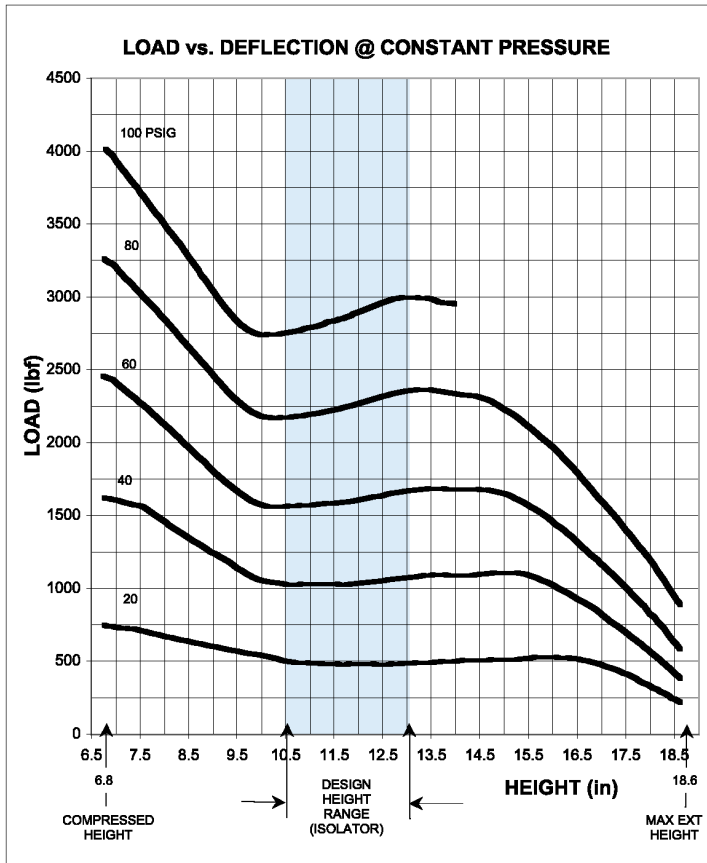
- UPPER RETAINER WITH NO BUMPER OR ALTERNATE BUMPER
- COMPOSITE PISTON WITH DIFFERENT SPRING RATE

RECOMMENDED MAX. TORQUE VALUES

3/4"-16 UNF COMBO STUD	1/2"-20 UNF STUD, OF (2)	1/4"-18 UNC AIR FITTING
600 in-lb 50 ft-lb	300 in-lb 25 ft-lb	240 in-lb 20 ft-lb

NOTE: SEE GUIDELINES FOR PROPER APPLICATION OF
THIS PRODUCT

GRAPHS FOR REFERENCE ONLY - USE THE CHART DATA BELOW FOR DESIGN WORK



****NOTE: MAXIMUM INFLATION PRESSURE IS 100 PSIG. MAXIMUM JOUNCE PRESSURE IS 200 PSIG. IF YOUR APPLICATION WILL EXCEED THESE LIMITS, CONSULT A GOODYEAR REPRESENTATIVE FOR APPLICATION ASSISTANCE.**

CONSTANT PRESSURE CHARACTERISTICS

Assembly Height (in)	Meniscus Height "M" Dim. @ 100 PSIG (in)	Volume @ 100 PSIG (in ³)	Nominal Force (lb)				
			@ 20 PSIG	@ 40 PSIG	@ 60 PSIG	@ 80 PSIG	@ 100 PSIG
18.6	5.6	533	200	360	560	850	--
17.0	4.5	501	440	800	1150	1600	--
16.0	4.3	474	520	1000	1450	1900	--
14.5	3.9	429	500	1050	1700	2300	--
13.0	3.3	381	480	1050	1700	2300	2900
11.5	2.1	334	460	1000	1700	2200	2800
10.5	1.4	305	480	1000	1600	2100	2700
9.0	0.9	264	700	1150	1800	2300	2900
8.0	0.6	235	700	1450	2200	2700	3400
6.8	0.5	196	750	1600	2500	3200	3900

DYNAMIC CHARACTERISTICS

Design Height (in)	Load (lb)	Pressure (PSIG)	Spring Rate (lb/in)	Natural Frequency	
				cpm	Hz
13.0	500	18	80	74	1.23
	1000	34	125	67	1.12
	1500	51	185	66	1.10
	2000	67	240	65	1.08
11.5	2500	81	290	64	1.07
	500	18	105	87	1.45
	1000	36	150	72	1.20
	1500	53	185	66	1.10
10.5	2000	70	235	64	1.07
	2500	86	250	59	0.98
	500	19	150	102	1.70
	1000	37	180	80	1.33
10.5	1500	54	205	70	1.17
	2000	71	260	68	1.13
	2500	89	285	63	1.05