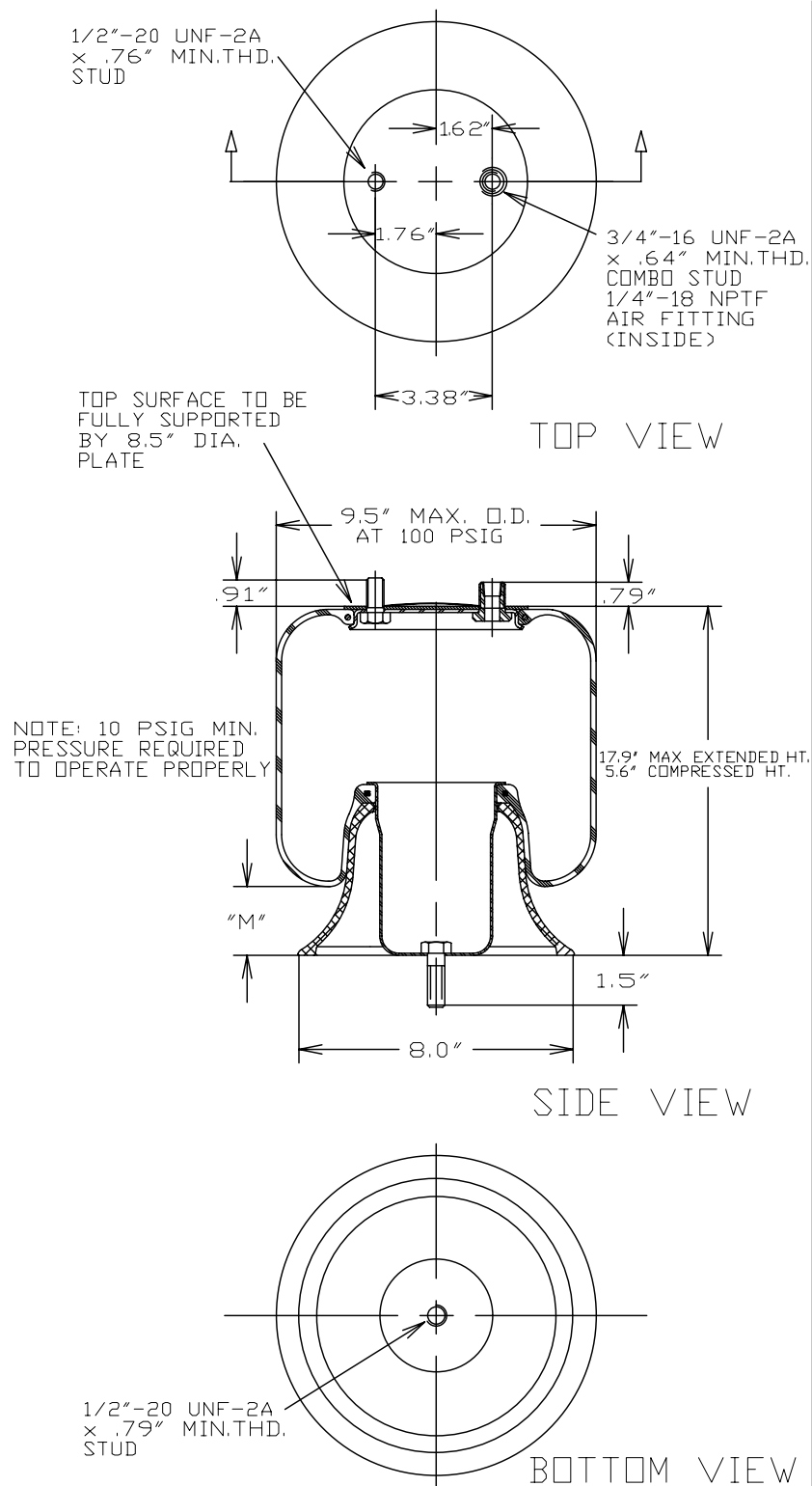




ASSEMBLY NUMBER	ELASTOMER	AIR FITTING	BUMPER INCLUDED
1R9-003	NAT.RUBBER	1/4"-18 NPTF COMBO STUD	NO

SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....560-3700 lb
- DESIGN HEIGHT RANGE (ISOLATOR).....8.0-12.0 in
- USEABLE STROKE (ACTUATOR).....12.3 in
- ASSEMBLY WEIGHT.....6.4 lb
- TEMPERATURE RANGE*.....
- COMPOSITE PISTON

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

OTHER OPTIONS:

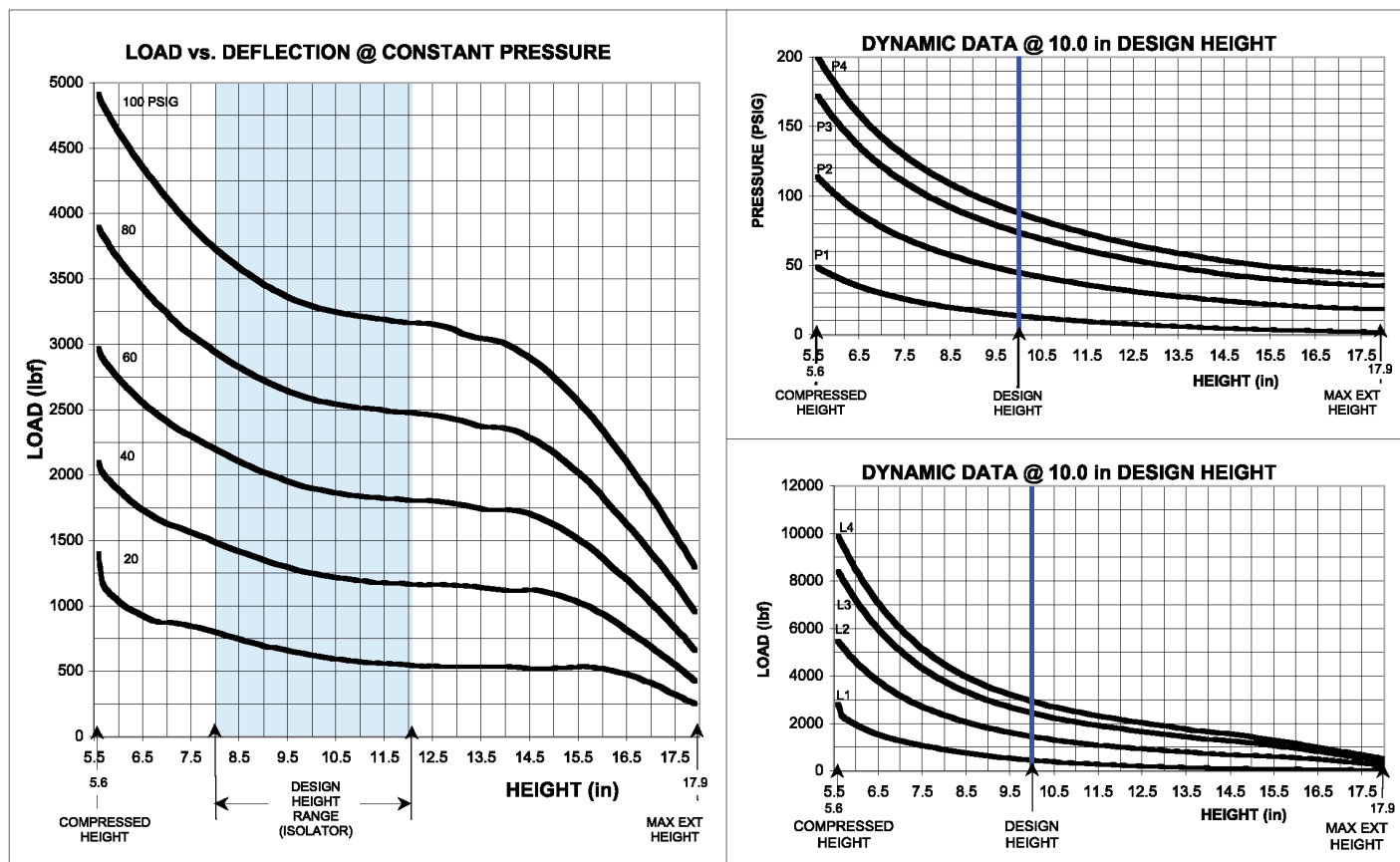
- UPPER RETAINER WITH VARIOUS HEIGHT BUMPERS
- ALTERNATE ALUMINUM PISTONS WITH DIFFERENT SPRING RATE.

RECOMMENDED MAX. TORQUE VALUES

3/4"-16 UNF COMBO STUD	1/2"-20 UNF TOP STUD	3/8"-16 UNC BOTTOM STUD	1/4"-18 UNC AIR FITTING
600 in-lb 50 ft-lb	300 in-lb 25 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
17.9	5.9	610	220	400	640	900	1250
17.0	5.4	592	400	680	1000	1400	1800
16.0	4.8	567	450	900	1350	1800	2300
14.0	3.8	504	540	1100	1700	2300	3000
12.0	2.8	434	560	1150	1800	2500	3200
10.0	1.7	366	600	1200	1900	2600	3300
8.0	0.9	297	800	1500	2200	2900	3700
7.0	0.5	260	900	1600	2400	3200	4100
6.0	0.3	222	1050	1900	2700	3700	4600
5.6	0.2	206	1150	2000	2900	3900	4900

DYNAMIC CHARACTERISTICS

Design Height (in)	Load (lb)	Pressure (PSIG)	Spring Rate (lb/in)	Natural Frequency	
				cpm	Hz
12.0	500	17	100	85	1.42
	1500	48	215	71	1.18
	2500	78	330	68	1.13
	3000	92	370	66	1.10
10.0	500	15	165	107	1.78
	1500	47	295	83	1.38
	2500	76	440	78	1.30
	3000	90	515	77	1.28
8.0	500	18	210	121	2.02
	1500	39	435	102	1.70
	2500	67	675	98	1.63
	3000	80	785	96	1.60
	3500	93	895	95	1.58