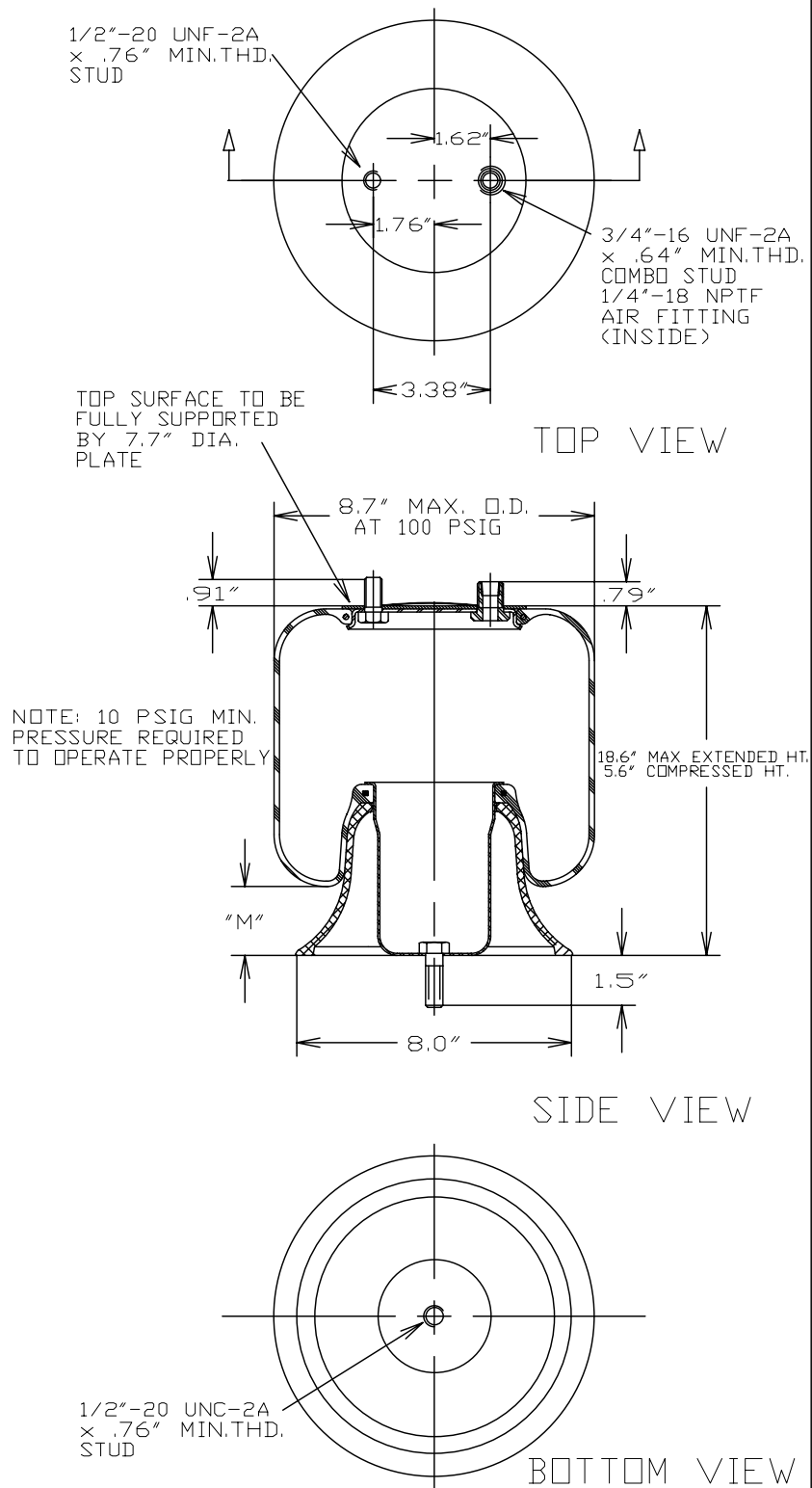


1R8-005



ASSEMBLY NUMBER	ELASTOMER	AIR FITTING	BUMPER INCLUDED
1R8-005	NAT.RUBBER	1/4"-18 NPTF COMBO STUD	NO

SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....560-3100 lb
- DESIGN HEIGHT RANGE (ISOLATOR)....10.5-13.0 in
- USEABLE STROKE (ACTUATOR).....13.0 in
- ASSEMBLY WEIGHT.....6.5 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:

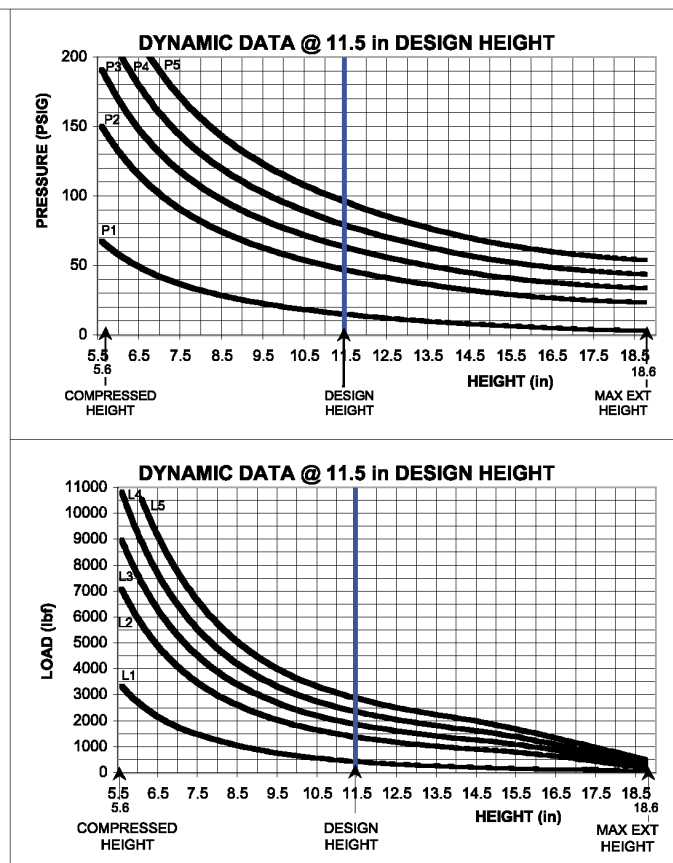
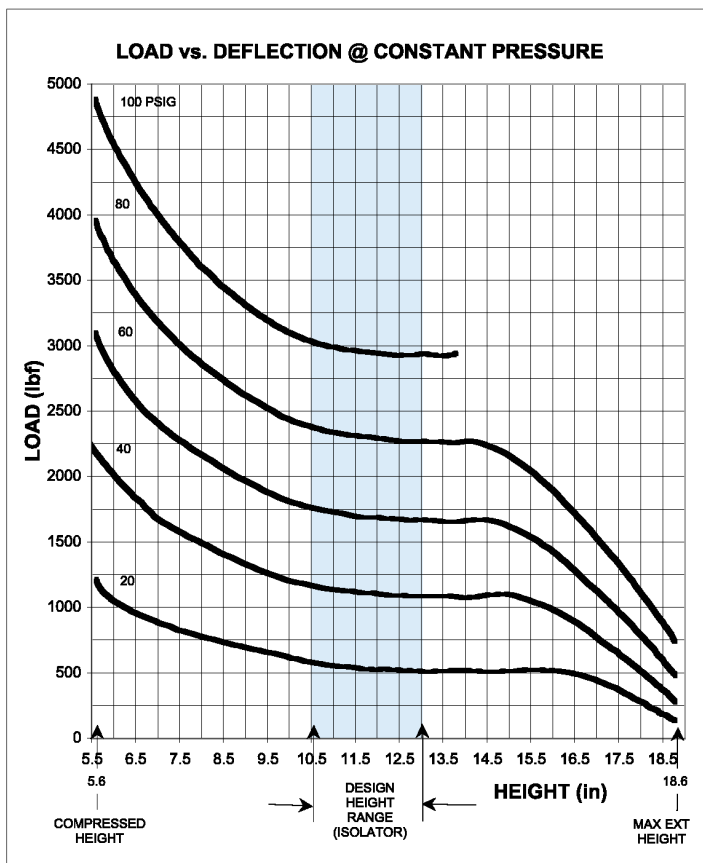
- UPPER RETAINER WITH VARIOUS HEIGHT BUMPERS
- ALTERNATE ALUMINUM PISTONS WITH DIFFERENT
SPRING RATES.

RECOMMENDED MAX. TORQUE VALUES

3/4"-16 UNF COMBO STUD	1/2"-20 UNF STUD TYP. 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	5.4	562	210	380	640	900	--
17.0	4.7	529	480	850	1200	1600	--
16.0	4.4	502	560	1050	1500	2000	--
14.5	3.8	458	540	1150	1700	2300	--
13.0	3.1	410	560	1100	1700	2300	3000
11.5	2.3	363	580	1150	1700	2400	3000
10.5	1.7	332	640	1200	1800	2500	3100
9.0	1.1	286	800	1400	2000	2700	3400
7.0	0.5	219	1100	1800	2500	3300	4200
5.6	0.3	177	1500	2400	3200	4100	5000

DYNAMIC CHARACTERISTICS

Design Height (in)	Load (lb)	Pressure (PSIG)	Spring Rate (lb/in)	Natural Frequency	
				cpm	Hz
13.0	500	17	100	85	1.42
	1500	51	205	70	1.17
	2000	68	250	67	1.12
	2500	84	275	63	1.05
11.5	500	17	125	93	1.55
	1500	50	250	77	1.28
	2000	67	310	74	1.23
	2500	83	350	71	1.18
10.5	500	16	185	113	1.88
	1500	49	335	89	1.48
	2000	65	390	83	1.38
	2500	81	465	81	1.35
	3000	97	545	80	1.33