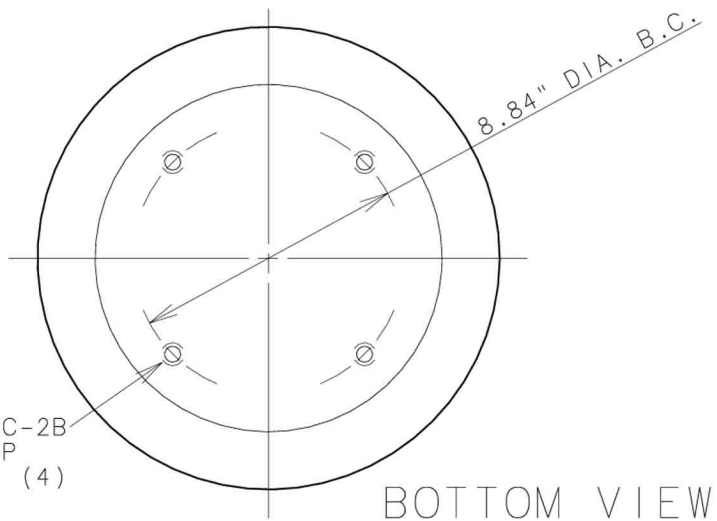
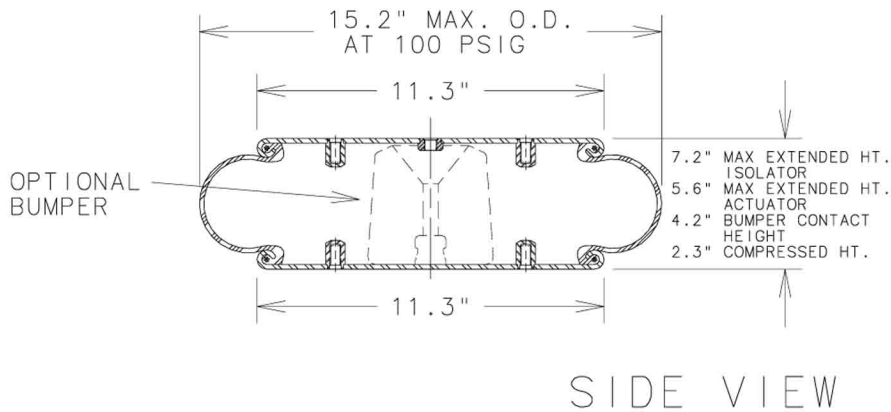
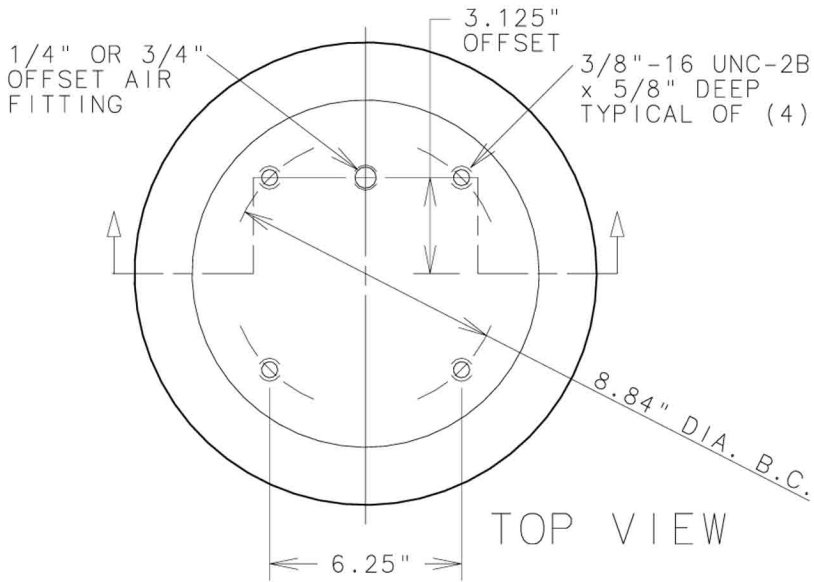


# 1B14-350



ASSEMBLY NUMBER	ELASTOMER	AIR FITTING	BUMPER INCLUDED
1B14-350	NAT. RUBBER	1/4"-18 NPTF OFFSET 3.125"	NO
1B14-351	NAT. RUBBER	1/4"-18 NPTF OFFSET 3.125"	YES
1B14-352	NAT. RUBBER	3/4"-14 NPTF OFFSET 3.125"	NO
1B14-353	NAT. RUBBER	3/4"-14 NPTF OFFSET 3.125"	YES
578913351 FLEXMEMBER ONLY	NAT. RUBBER	----	---

## SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....1900-11900 lb
- DESIGN HEIGHT RANGE (ISOLATOR).....4.0-5.25 in
- USEABLE STROKE w/o BUMPER (ACTUATOR)....3.3 in
- USEABLE STROKE WITH BUMPER (ACTUATOR)...1.4 in
- ASSEMBLY WEIGHT.....15.0 lb
- TEMPERATURE RANGE\*.....
- FORCE TO COMPRESS AT 0 PSIG (APPROX.)....20 lb
- NOMINAL FREE STANDING HT. AT 0 PSIG....3.75 in

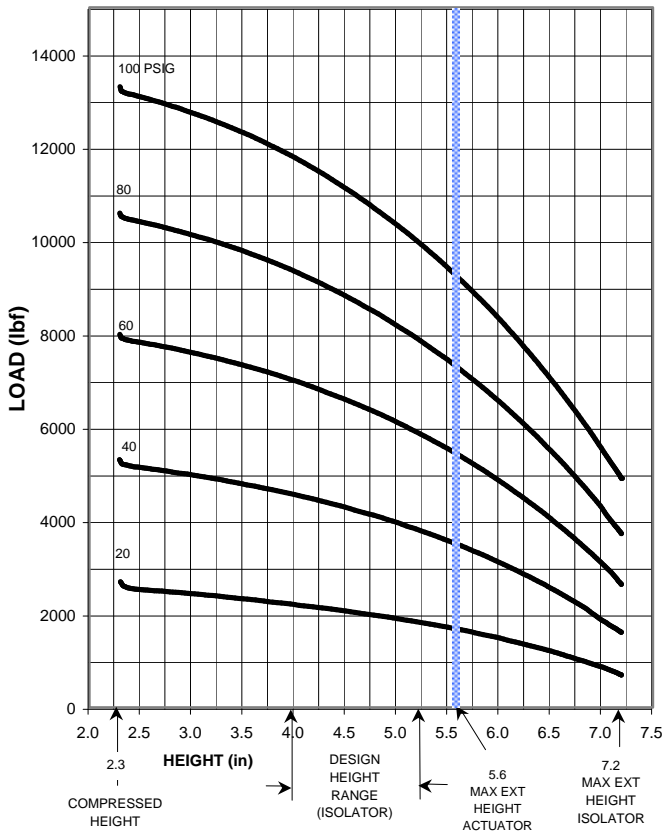
\* NOTE: PRODUCT LIFE MAY BE SHORTENED WHEN OPERATING AT OR NEAR EXTREME TEMPERATURES. SEE TEMPERATURE RANGE GUIDELINES SECTION.

## RECOMMENDED MAX. TORQUE VALUES

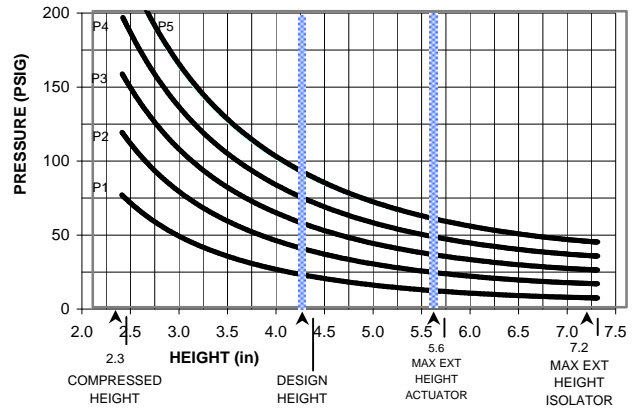
3/8"-16 UNC BLIND TAP TYP. OF (8)	1/4"-18 UNC AIR FITTING	3/4"-14 UNC AIR FITTING
300 in-lb 25 ft-lb	240 in-lb 20 ft-lb	240 in-lb 20 ft-lb

NOTE: SEE GUIDELINES FOR PROPER APPLICATION OF THIS PRODUCT

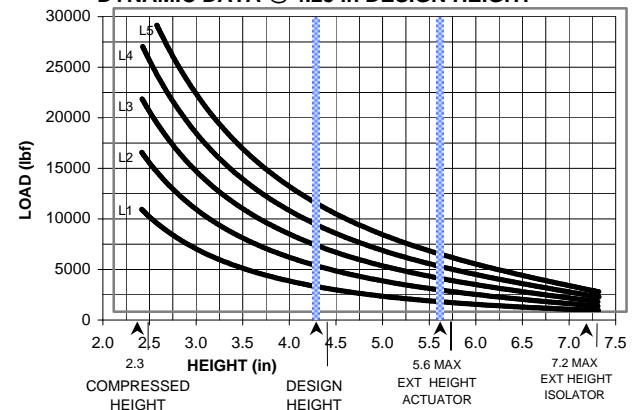
**LOAD vs. DEFLECTION @ CONSTANT PRESSURE**



**DYNAMIC DATA @ 4.25 in DESIGN HEIGHT**



**DYNAMIC DATA @ 4.25 in DESIGN HEIGHT**



**\*\*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)	Volume @ 100 PSIG (in <sup>3</sup> )	Force (lb)				
		@ 20 PSIG	@ 40 PSIG	@ 60 PSIG	@ 80 PSIG	@ 100 PSIG
7.2	824	680	1600	2600	3700	4900
6.5	762	1200	2600	4000	5500	7100
6.0	709	1500	3100	4900	6600	8400
5.6	663	1700	3500	5400	7300	9300
5.25	621	1900	3800	5900	7900	10000
5.0	590	2000	4000	6200	8300	10500
4.25	496	2200	4600	6900	9200	11700
4.0	464	2300	4700	7100	9500	11900
3.5	399	2400	4900	7400	9900	12500
3.0	335	2500	5100	7700	10300	12900
2.3	247	2600	5200	7900	10500	13300

## DYNAMIC CHARACTERISTICS

Design Height (in)	Load (lb)	Pressure (PSIG)	Spring Rate (lb/in)	Natural Frequency	
				cpm	Hz
5.25	2500	26	1420	141	2.35
	4500	46	2280	133	2.22
	6500	65	3065	129	2.15
	8500	85	3895	127	2.12
4.25	2500	22	1625	152	2.53
	4500	39	2505	140	2.33
	6500	56	3340	135	2.25
	8500	73	4215	132	2.20
4.0	10500	90	5035	130	2.17
	2500	21	1755	157	2.62
	4500	38	2635	144	2.40
	6500	55	3495	138	2.30
4.0	8500	71	4390	135	2.25
	10500	88	5260	133	2.22