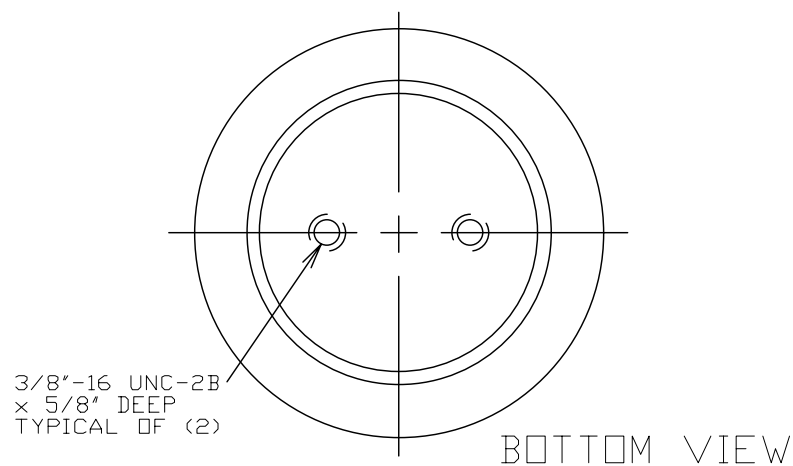
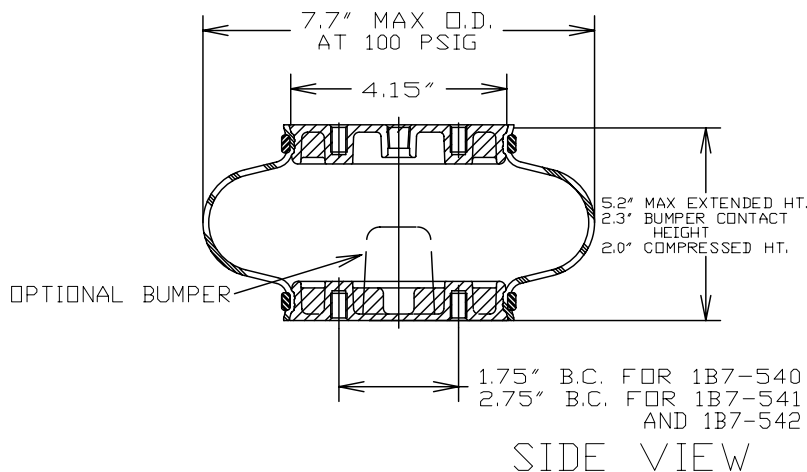
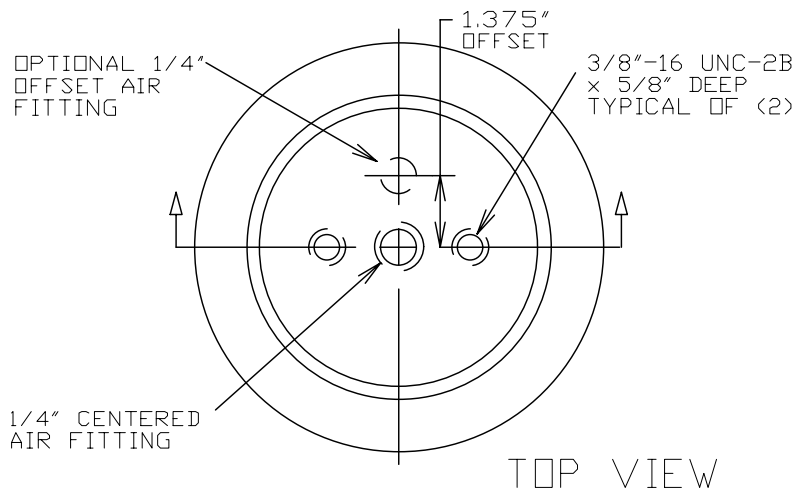


1B7-540



ASSEMBLY NUMBER	ELASTOMER	AIR FITTING	BUMPER INCLUDED
1B7-540	WINGPRENE	1/4\"-18 NPTF CENTERED	NO
1B7-541	WINGPRENE	1/4\"-18 NPTF OFFSET 1.375\"	NO
1B7-542	WINGPRENE	1/4\"-18 NPTF OFFSET 1.375\"	YES

SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....140-2200 lb
- DESIGN HEIGHT RANGE (ISOLATOR).....3.5-4.5 in
- USEABLE STROKE w/o BUMPER (ACTUATOR)....3.2 in
- USEABLE STROKE WITH BUMPER (ACTUATOR)...2.9 in
- ASSEMBLY WEIGHT w/o BUMPER.....3.5 lb
- TEMPERATURE RANGE.....
- FORCE TO COMPRESS AT 0 PSIG (APPROX.)....65 lb
- NOMINAL FREE STANDING HT. AT 0 PSIG....2.2 in

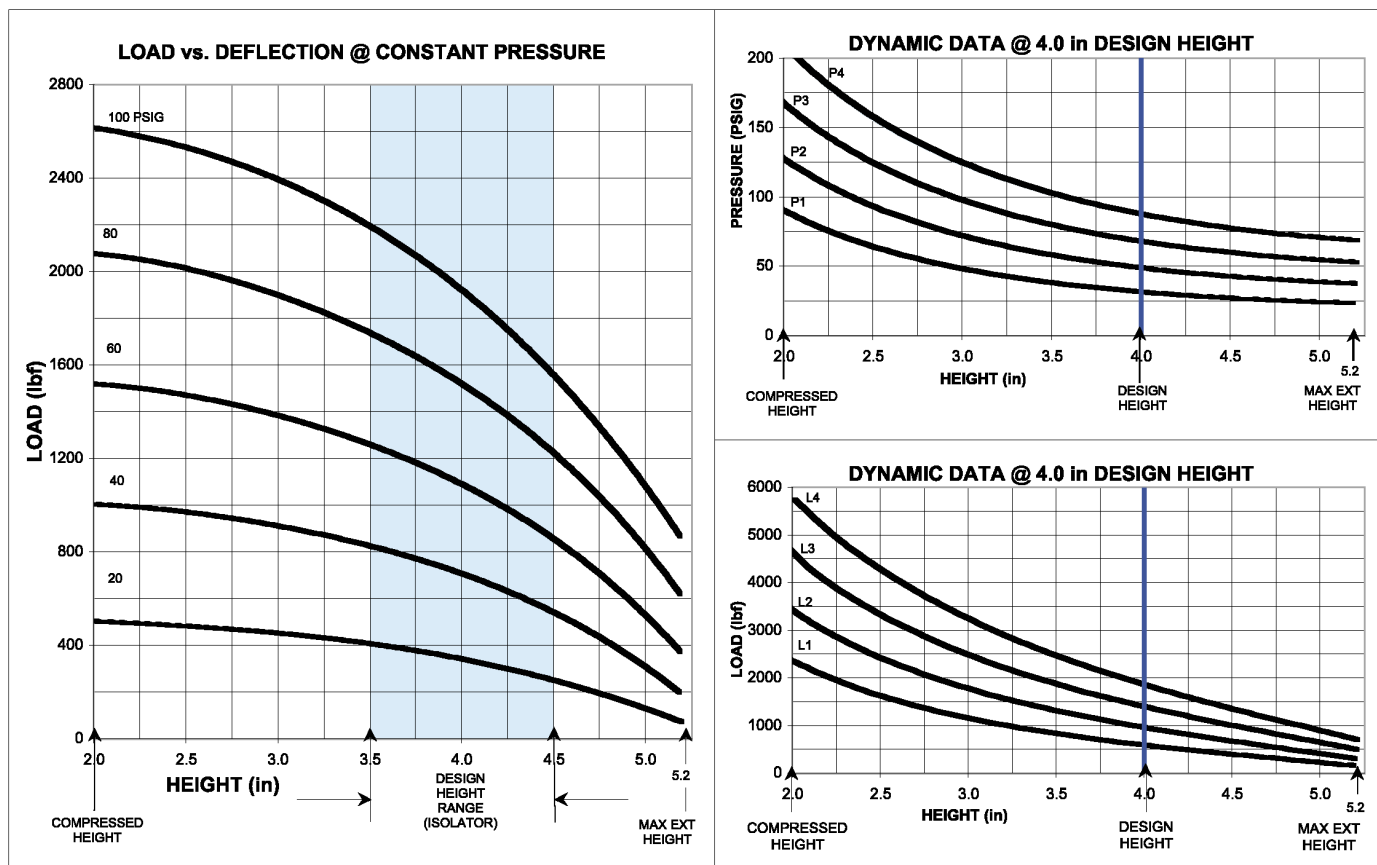
* NOTE: PRODUCT LIFE MAY BE SHORTENED WHEN OPERATING AT OR NEAR EXTREME TEMPERATURES. SEE TEMPERATURE RANGE GUIDELINES SECTION.

RECOMMENDED MAX. TORQUE VALUES

3/8\"-16 UNC BLIND TAP TYP. OF (4)	1/4\"-18 UNC AIR FITTING
240 in-lb 20 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)	Volume @ 100 PSIG (in ³)	Nominal Force (lb)				
		@ 20 PSIG	@ 40 PSIG	@ 60 PSIG	@ 80 PSIG	@ 100 PSIG
5.2	119	100	200	350	600	850
5.0	117	140	340	580	850	1100
4.5	112	260	560	850	1250	1600
4.0	109	340	700	1100	1500	1900
3.5	90	400	800	1250	1700	2200
3.0	78	440	900	1400	1900	2400
2.5	55	480	950	1450	2000	2500
2.0	32	500	1000	1500	2000	2600

DYNAMIC CHARACTERISTICS

Design Height (in)	Load (lb)	Pressure (PSIG)	Spring Rate (lb/in)	Natural Frequency	
				cpm	Hz
4.5	650	42	535	171	2.85
	1000	63	775	165	2.75
	1400	86	1025	160	2.67
4.0	650	34	485	163	2.72
	1000	52	685	155	2.58
	1400	72	910	151	2.52
3.5	1800	91	1120	148	2.47
	650	31	470	159	2.65
	1000	46	650	152	2.53
3.0	1400	64	865	148	2.47
	1800	81	1060	144	2.40