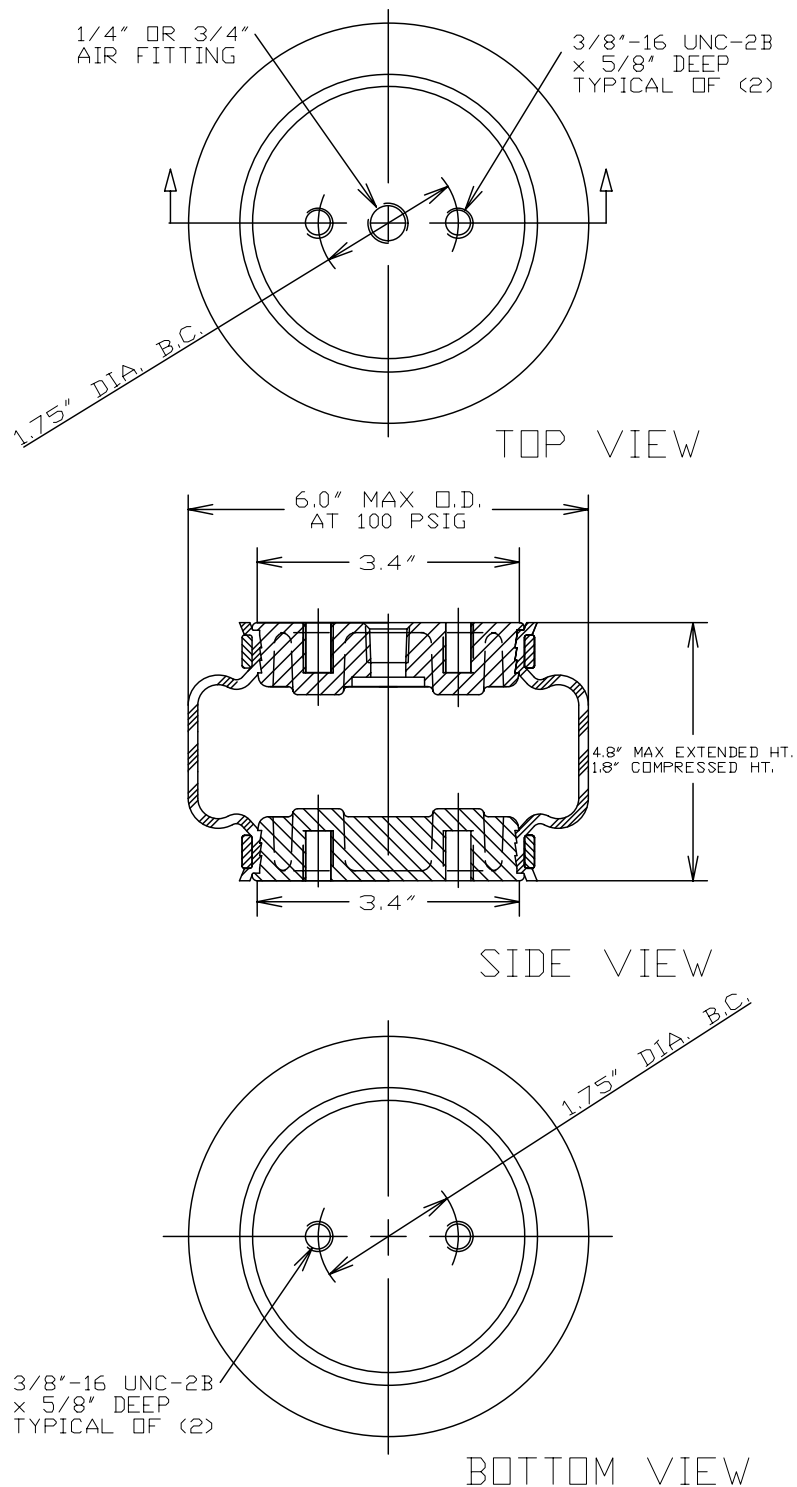




ASSEMBLY NUMBER	ELASTOMER	AIR FITTING	BUMPER INCLUDED
1B5-510	WINGPRENE	1/4"-18 NPTF	NO
1B5-512	WINGPRENE	3/4"-14 NPTF	NO

SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....190-1500 lb
- DESIGN HEIGHT RANGE (ISOLATOR).....2.5-4.0 in
- USEABLE STROKE (ACTUATOR).....3.0 in
- ASSEMBLY WEIGHT1.2 lb
- TEMPERATURE RANGE*.....
- FORCE TO COMPRESS AT 0 PSIG (APPROX).....23 lb
- NOMINAL FREE STANDING HT. AT 0 PSIG.....3.5 in

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

OTHER OPTIONS:

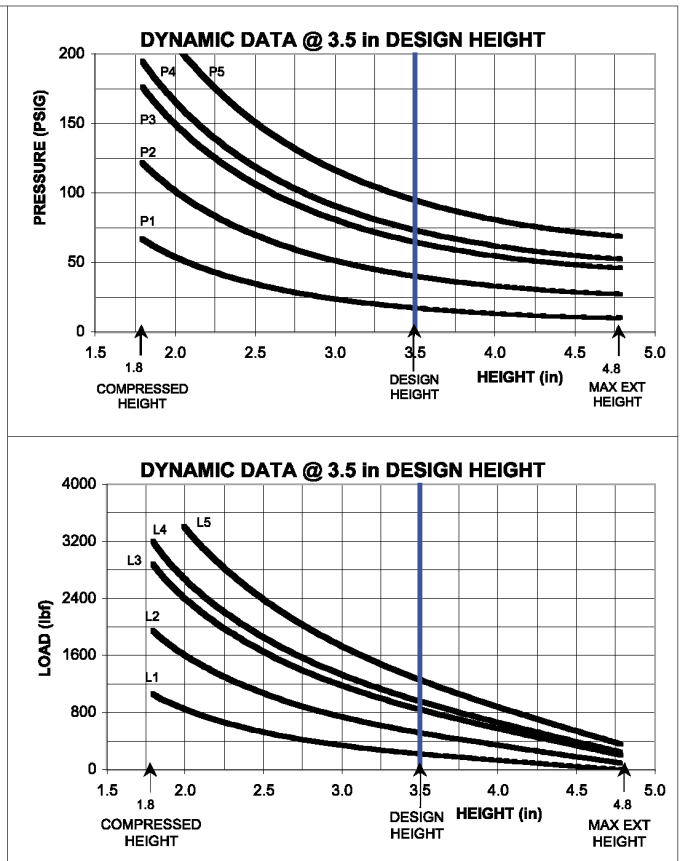
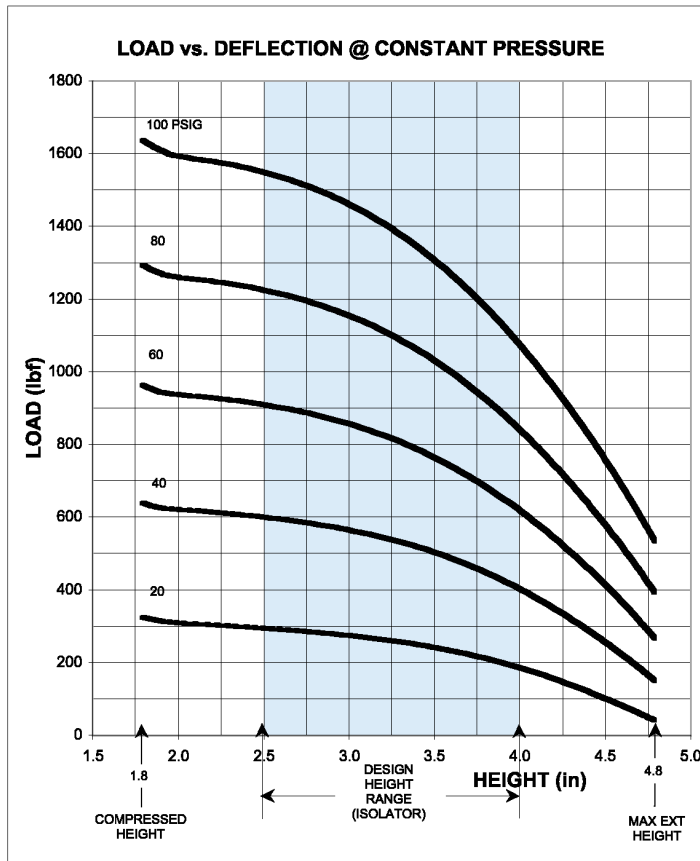
- SHOULDER STUD 3/8"-16 UNC-3A x 9/16" BY 1/2"-13 UNC-3A x 2-1/2" (578-92-9-056)

RECOMMENDED MAX. TORQUE VALUES

3/8"-16 UNC BLIND TAP TYP. OF (4)	1/4"-18 UNC AIR FITTING	3/4"-14 UNC AIR FITTING
240 in-lb 20 ft-lb	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
4.8	68	30	140	260	380	520
4.5	64	110	260	420	580	700
4.0	59	190	400	620	850	1050
3.5	52	250	500	750	1000	1250
3.0	45	280	560	850	1150	1450
2.5	37	300	600	900	1200	1500
2.0	30	300	620	900	1250	1600
1.8	25	320	620	950	1250	1600

DYNAMIC CHARACTERISTICS

Design Height (in)	Load (lb)	Pressure (PSIG)	Spring Rate (lb/in)	Natural Frequency	
				cpm	Hz
4.0	250	24	265	194	3.23
	550	52	495	177	2.95
	850	80	715	170	2.83
	950	91	805	169	2.82
3.5	250	19	220	177	2.95
	550	42	415	163	2.72
	850	68	625	158	2.63
	950	76	695	156	2.60
	1250	98	865	153	2.55
2.5	250	16	275	199	3.32
	550	36	470	174	2.90
	850	57	670	165	2.75
	950	65	750	162	2.70
	1250	84	930	159	2.65