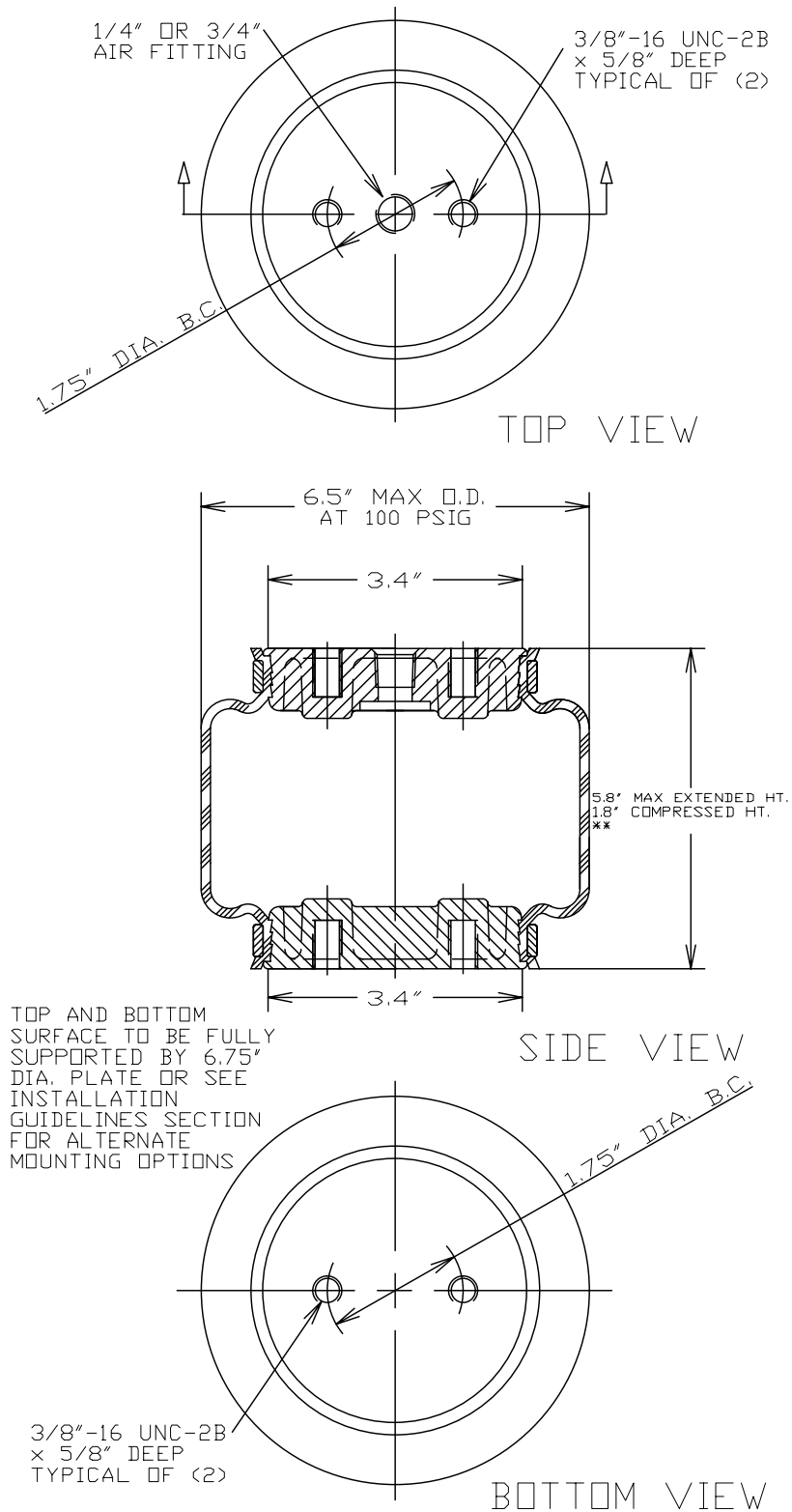


1B5-520



ASSEMBLY NUMBER	ELASTOMER	AIR FITTING	BUMPER INCLUDED
1B5-520	WINGPRENE	1/4"-18 NPTF	NO
1B5-521	WINGPRENE	3/4"-14 NPTF	NO

**NOTE: AS ACTUATOR-DO NOT USE BELOW 2.8" HEIGHT-SEE INSTALLATION GUIDE LINES.

SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....190-1500 lb
- DESIGN HEIGHT RANGE (ISOLATOR).....3.5-5.0 in
- USEABLE STROKE (ACTUATOR).....3.0 in
- ASSEMBLY WEIGHT.....1.4 lb
- TEMPERATURE RANGE.....
- FORCE TO COMPRESS AT 0 PSIG (APPROX.)....40 lb
- NOMINAL FREE STANDING HT. AT 0 PSIG.....4.3 in

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

OTHER OPTIONS:

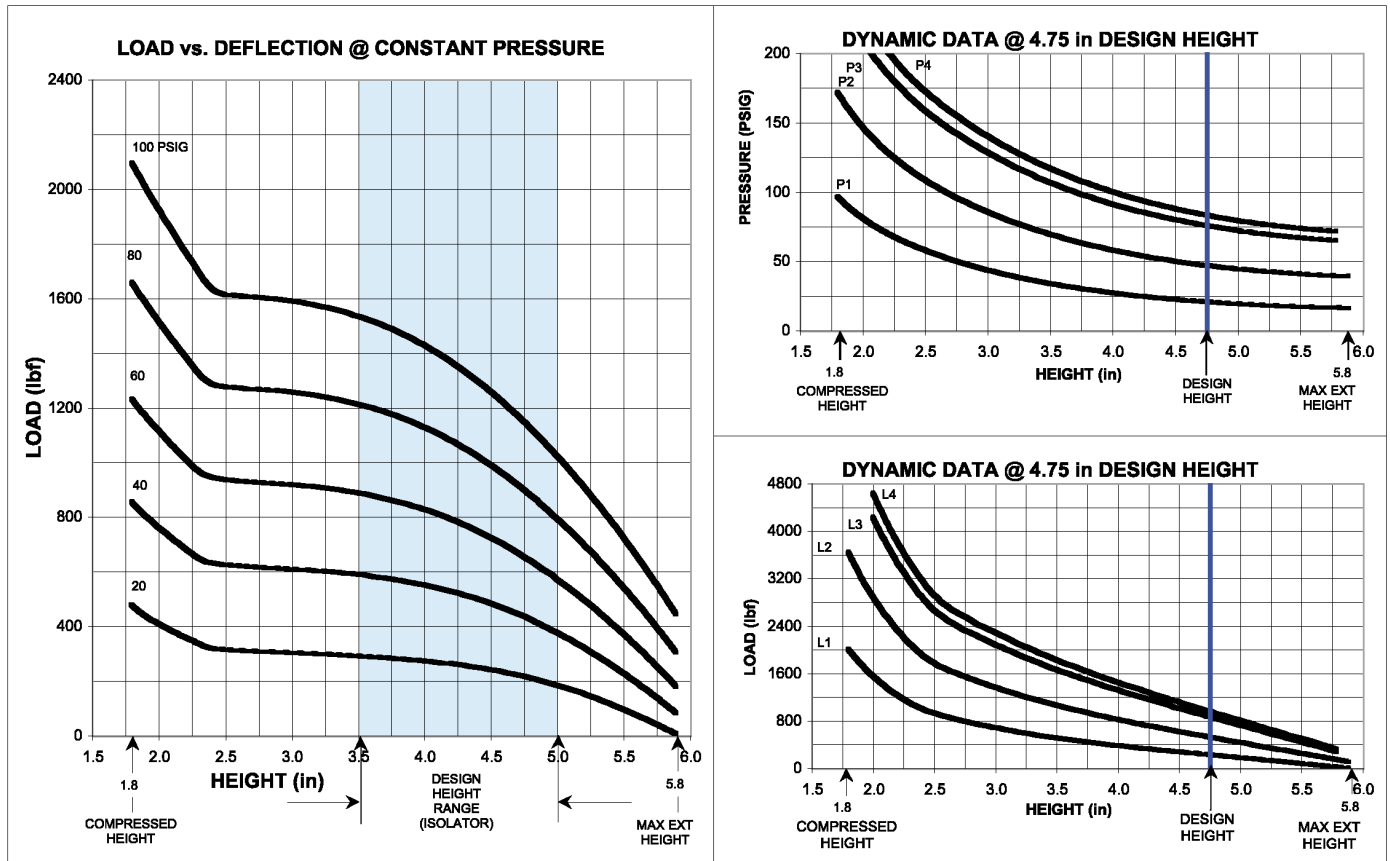
- SHOULDER STUD 3/8"-16 UNC-3A x 9/16" BY 1/2"-13 UNC-3A x 2-1/2" (578-92-9-056)

RECOMMENDED MAX. TORQUE VALUES

3/8"-16 UNC BLIND TAP TYP. OF (4)	1/4"-18 UNC AIR FITTING
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
5.8	93	0	80	180	300	440
5.5	89	100	230	380	540	700
5.0	84	190	380	580	800	1000
4.75	80	220	440	660	900	1150
4.0	70	280	560	800	1100	1450
3.5	63	280	600	900	1200	1500
3.0	55	300	620	900	1250	1600
2.5	46	320	620	950	1250	1600
2.0	36	420	750	1100	1500	1900
1.8	31	480	850	1200	1600	2100

NOTE: AS AN ACTUATOR, DO NOT USE BELOW 2.8" HEIGHT -- SEE INSTALLATION GUIDELINES FOR DETAILS.

DYNAMIC CHARACTERISTICS

Design Height (in)	Load (lb)	Pressure (PSIG)	Spring Rate (lb/in)	Natural Frequency	
				cpm	Hz
5.0	250	24	235	182	3.03
	550	53	430	166	2.77
	900	83	630	159	2.65
	1000	93	700	157	2.62
4.75	250	22	210	171	2.85
	550	49	395	158	2.63
	900	76	575	151	2.52
	1000	85	635	150	2.50
3.5	250	16	185	159	2.65
	550	36	305	140	2.33
	900	57	450	134	2.23
	1000	65	500	133	2.22
	1250	83	630	131	2.18