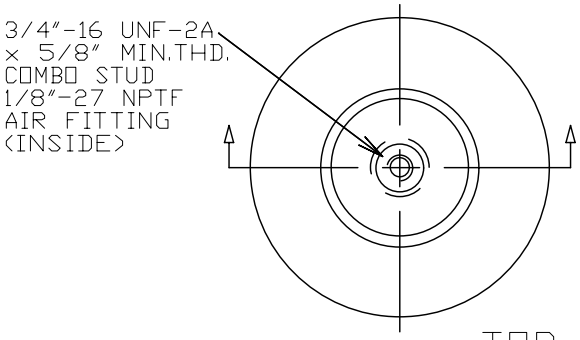
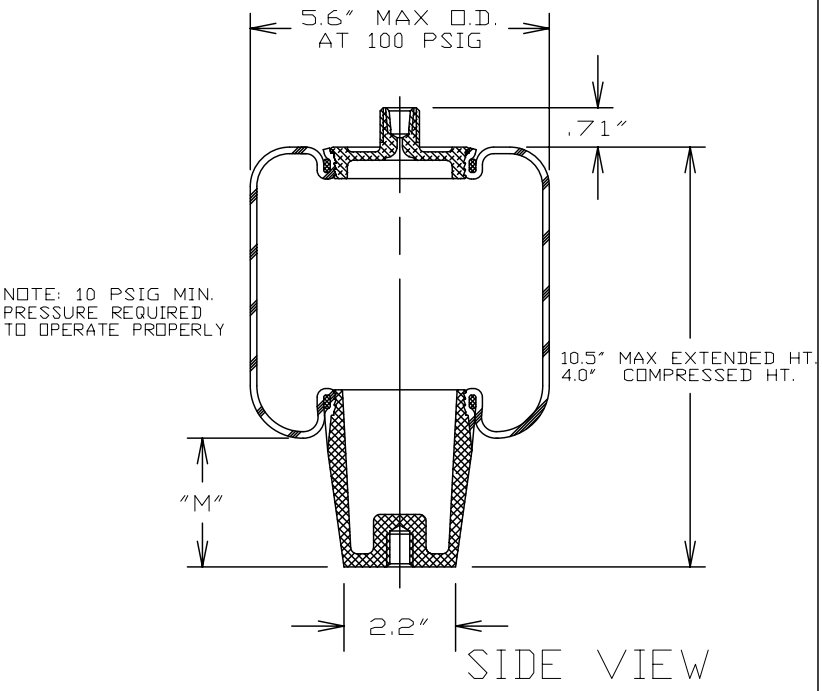
1S5-006

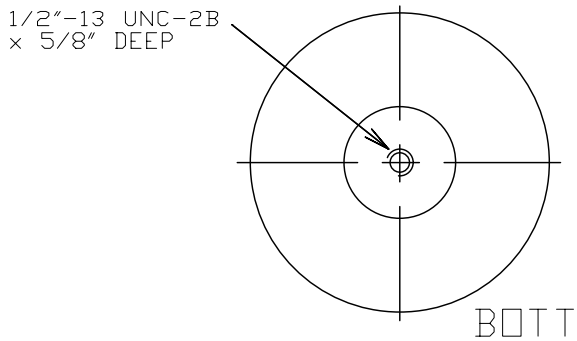


TOP VIEW

TOP AND BOTTOM SURFACE TO BE FULLY SUPPORTED TO 5.1" DIA.



SIDE VIEW



BOTTOM VIEW

ASSEMBLY NUMBER	ELASTOMER	AIR FITTING	BUMPER INCLUDED
1S5-006	WINGPRENE	1/8"-27 NPTF COMBO STUD	NO

CONTACT GOODYEAR BEFORE USING AS AN ACTUATOR

SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....170-1100 lb
- DESIGN HEIGHT RANGE (ISOLATOR).....7.0-9.0 in
- USEABLE STROKE (ACTUATOR).....6.5 in
- ASSEMBLY WEIGHT.....2.6 lb
- TEMPERATURE RANGE*.....
- DIECAST END COMPONENTS

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

OTHER OPTIONS:

- COMPOSITE END COMPONENTS
- INTEGRAL QUICK CONNECT FITTINGS
- SMOOTH MOUNTING STUDS FOR USE WITH STAR CLIPS (SPEEDS ASSEMBLY)
- AIR FITTING IN PISTON
- INTERNAL RUBBER BUMPER

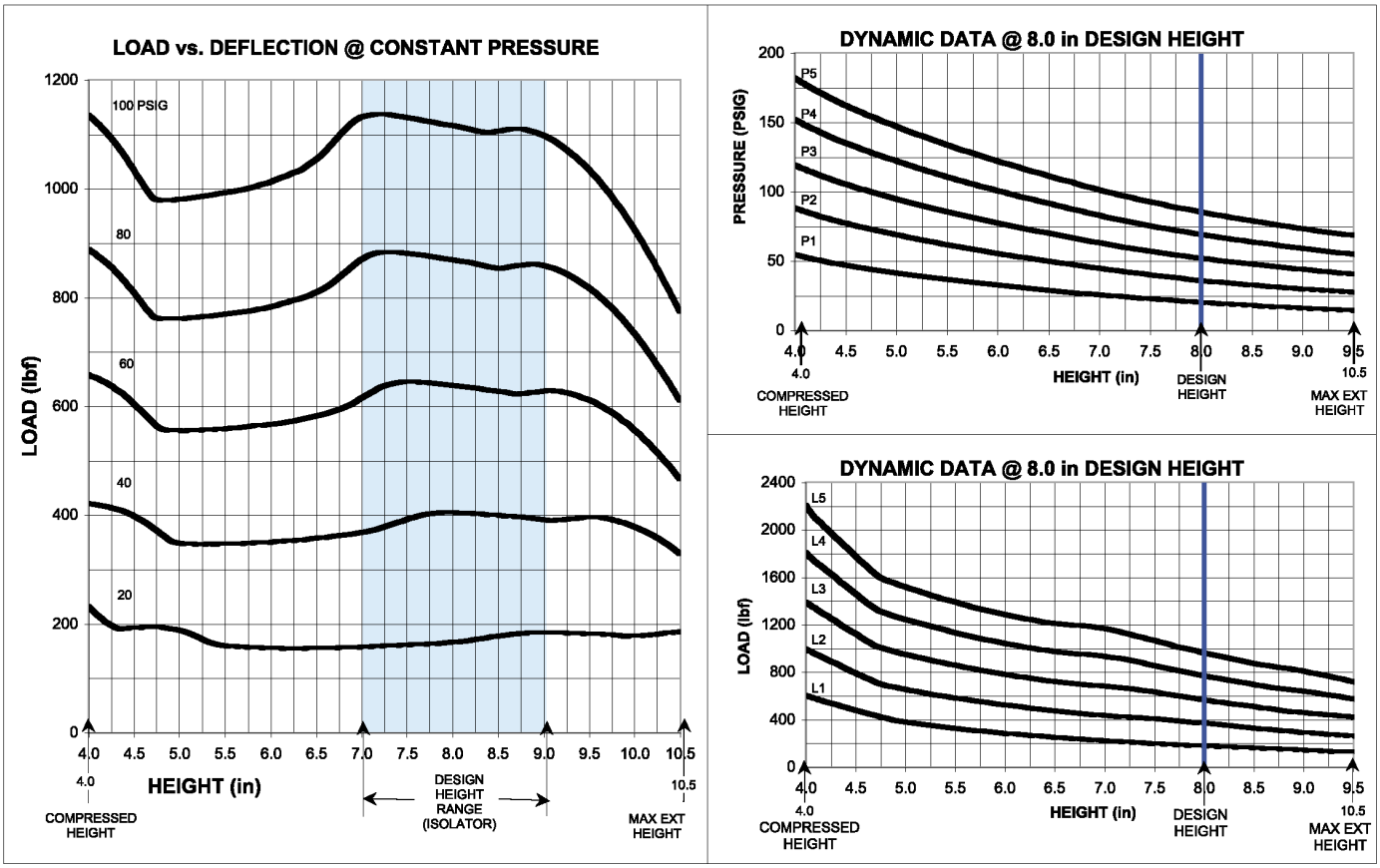
RECOMMENDED MAX. TORQUE VALUES

1/2"-13 UNC BLIND TAP	3/4"-16 UNF COMBO STUD	1/8"-27 UNC AIR FITTING
360 in-lb 30 ft-lb	360 in-lb 30 ft-lb	180 in-lb 15 ft-lb

NOTE: SEE GUIDELINES FOR PROPER APPLICATION OF THIS PRODUCT

1S5-006

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	Volume @ 100 PSIG (in^3)	Nominal Force (lb)				
			@ 20 PSIG	@ 40 PSIG	@ 60 PSIG	@ 80 PSIG	@ 100 PSIG
10.5	3.3	133	180	320	460	600	750
10.0	3.1	131	190	380	550	750	900
9.0	2.9	118	190	400	640	850	1100
8.5	2.7	111	190	400	640	850	1100
8.0	2.4	106	180	420	640	850	1100
7.5	2.1	100	170	420	660	900	1150
7.0	1.8	95	170	400	660	900	1150
6.0	0.9	80	160	360	580	800	1050
5.0	0.5	70	190	360	560	750	1000
4.0	0.0	58	230	420	660	850	1100

DYNAMIC CHARACTERISTICS

Design Height (in)	Load (lb)	Pressure (PSIG)	Spring Rate (lb/in)	Natural Frequency	
				cpm	Hz
9.0	200	21	50	92	1.53
	400	38	80	85	1.42
	550	55	120	84	1.40
	750	73	175	88	1.47
	950	91	225	89	1.48
8.0	200	21	40	85	1.42
	400	38	95	91	1.52
	550	56	130	87	1.45
	750	73	165	85	1.42
	950	89	195	83	1.38
7.0	200	22	50	92	1.53
	400	39	75	81	1.35
	550	54	120	83	1.38
	750	71	165	85	1.42
	950	88	205	85	1.42