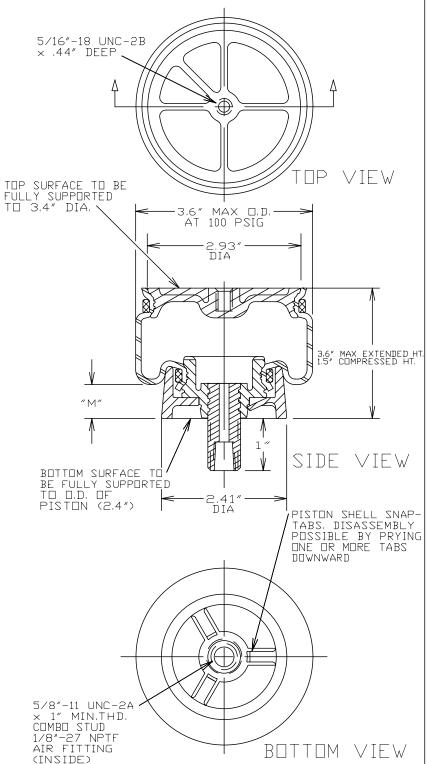
1S3-013



| ASSEMBLY NUMBER | ELASTOMER | AIR FITTING | BUMPER INCLUDED | |
|--------------------|-----------|----------------------------|--------------------|--|
| 183-013 | WINGPRENE | 1/8″-27 NPTF COMBO STUD | 2 | |

SPRING FEATURES:

- LOAD RANGE (ISOLATOR).....90-580 lb
- DESIGN HEIGHT RANGE (ISOLATOR).....2.0-3.0 in
- · USEABLE STROKE (ACTUATOR).....2.1 In
- TEMPERATURE RANGE*
- FORCE TO COMPRESS AT 0 PSIG.....6 lb
- LIGHT WEIGHT END RETAINERS (REINFORCED THERMOPLASTIC)
- · ABUSE RESISTANT STEEL STUD

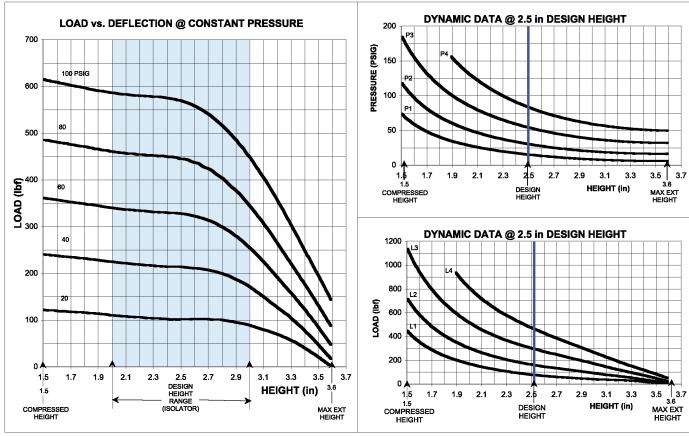
* NOTE: PRODUCT LIFE MAY BE SHORTENED WHEN OPERATING AT OR NEAR EXTREME TEMPERATURES. SEE TEMPERATURE RANGE GUIDELINES SECTION.

RECOMMENDED MAX. TORQUE VALUES

| 5/16″-18 UNC | 5/8″-11 UNC | 1/8″-27 UNC | | |
|--------------|-------------|-------------|--|--|
| BLIND TAP | COMBO STUD | AIR FITTING | | |
| 30-50 in-lb | 300 in-lb | 180 in-lb | | |
| 2.5-4 ft-lb | 25 ft-lb | 15 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 | Assembly Height (in) Meniscus Height "M" Dim. @ 100 PSIG | Volume @ 100 PSIG (in³) | Nominal Force (lb) | | | | |
|-------------|--|-------------------------------|--------------------|--------------|--------------|--------------|---------------|
| Height (in) | | | @ 20 PSIG | @ 40 PSIG | @ 60 PSIG | @ 80 PSIG | @ 100 PSIG |
| 3.6 | 1.03 | 14.8 | 10 | 30 | 40 | 80 | 120 |
| 3.5 | 1.02 | 14.3 | 20 | 50 | 90 | 140 | 180 |
| 3.0 | 0.98 | 12.3 | 90 | 170 | 260 | 340 | 440 |
| 2.5 | 0.78 | 9.6 | 100 | 220 | 320 | 440 | 560 |
| 2.0 | 0.45 | 6.5 | 110 | 230 | 340 | 460 | 580 |
| 1.5 | 0.16 | 3.4 | 120 | 240 | 360 | 480 | 600 |

DYNAMIC CHARACTERISTICS

| Design | Load | Load Pressure (lb) (PSIG) | Spring Rate (lb/in) | Natural Frequency | |
|----------------|------|------------------------------|---------------------------|-------------------|------|
| Height (in) | (lb) | | | срт | Hz |
| | 80 | 21 | 160 | 236 | 3.93 |
| 3.0 | 160 | 43 | 300 | 230 | 3.83 |
| | 300 | 77 | 495 | 223 | 3.72 |
| | 80 | 18 | 145 | 224 | 3.73 |
| 2.5 | 160 | 35 | 225 | 202 | 3.37 |
| 2.5 | 300 | 61 | 370 | 194 | 3.23 |
| | 460 | 88 | 520 | 191 | 3.18 |
| | 80 | 17 | 190 | 258 | 4.30 |
| | 160 | 34 | 300 | 231 | 3.85 |
| 2.0 | 300 | 60 | 470 | 216 | 3.60 |
| | 460 | 85 | 610 | 208 | 3.47 |
| | 570 | 100 | 720 | 207 | 3.45 |