

# Type 630 Regulator

## Introduction

The Type 630 Big Joe™ regulators are direct-operated, spring-loaded, pressure reducing regulators. They are available in 1 and 2-inch / DN 25 and 50 body sizes, and they are designed for maximum inlet pressures to 1500 psig / 103 bar and outlet pressures from 3 to 500 psig / 0.21 to 34.5 bar. The Type 630 can be used with natural gas, air, or a variety of other gases for such applications as first-stage farm-tap regulators or high-pressure industrial regulators. The Type 630 can be converted in the field to a relief valve or is available as the Type 630R relief valve/backpressure regulator; refer to the separate Type 630R Bulletin (71.4:630R) for information.

## Features

- **High-Pressure Capabilities**—Inlet pressures up to 1500 psig / 103 bar and control pressures up to 500 psig / 34.5 bar.
- **Rugged Construction**—Compact, sturdy design and solid metal construction provide a strong, reliable, long-lasting regulator.
- **Better Low-Pressure Control**—The Type 630 is available in both high-pressure and low-pressure constructions; the low-pressure units have a larger diaphragm area to provide more accurate control of low-pressure settings.
- **Sour Gas Service Capability**—Optional materials are available for applications handling sour gases. These constructions comply with the recommendations of the NACE International MR0175.



W1934

**Figure 1.** Type 630 Big Joe High-Pressure Regulator

The manufacturing processes and materials used by Fisher® Controls assure that all products specified for sour gas service comply with the chemical and physical requirements of NACE International MR0175.

## Specifications

### Body Sizes

1 and 2-inch / DN 25 and 50

### End Connection Style

NPT, ASME CL150 RF, CL300 RF, or CL600 RF

### Maximum Inlet Pressure and Pressure Drops<sup>(1)</sup>

Up to 1500 psig / 103 bar, See Table 1

### Maximum Outlet Pressure<sup>(1)</sup>

Up to 500 psig / 34.5 bar, See Table 2

### Outlet Pressure Ranges

3 to 500 psig / 0.21 to 34.5 bar, See Table 2

### Pressure Registration

Internal

### Flow Capacities

See Tables 3 and 4

### Orifice Sizes and Wide-Open Flow Coefficients for Relief Valve Sizing

| ORIFICE SIZE |     | C <sub>g</sub> | C <sub>v</sub> | C <sub>i</sub> |
|--------------|-----|----------------|----------------|----------------|
| Inch         | mm  |                |                |                |
| 1/8          | 3.2 | 13.9           | 0.49           | 28.4           |
| 3/16         | 4.8 | 31.3           | 1.11           | 28.2           |
| 1/4          | 6.4 | 55.1           | 2.03           | 27.2           |
| 3/8          | 9.5 | 122.5          | 4.61           | 26.6           |
| 1/2          | 13  | 216.0          | 8.18           | 26.4           |

### Temperature Capabilities<sup>(1)</sup>

**Nitrile (NBR), Nylon (PA), and Neoprene (CR):**

-20 to 180°F / -29 to 82°C

**Fluorocarbon (FKM) and**

**Polytetrafluoroethylene (PTFE):**

0 to 300°F / -18 to 149°C

### Construction Materials

**Body:** Cast iron, or steel

**Spring Case and Diaphragm Adaptor:**

Cast iron or steel

**Orifice:** Brass or stainless steel

**Valve Disk:** Nitrile (NBR), Nylon (PA),

Polytetrafluoroethylene (PTFE),

or Fluorocarbon (FKM)

**Valve Disk Holder:** Brass or stainless steel

**Valve Carrier:** Brass or stainless steel

**Diaphragm:** Neoprene (CR) or

Fluorocarbon (FKM)

**Inlet Body Gaskets:** Copper with brass trim or

stainless steel with stainless steel trim

**All Other Gaskets:** Composition

**Lever:** Zinc-plated steel or Stainless steel

**Diaphragm Connector:** Aluminum with brass

trim or stainless steel with stainless steel trim

**Pitot Tube:** Stainless steel

**Regulator Spring:** Plated steel

**Adjusting Screw:** Steel

**Diaphragm Plate:** Zinc-plated steel

**Upper Spring Seat:** Zinc

**Lower Spring Seat:** Zinc-plated steel

(low pressure) or Zinc (high pressure)

**Vent:** Type Y602-9

### Spring Case Vent

1/4 NPT

### Options

PTFE diaphragm protector, wire-seal adjusting screw, and NACE

### Approximate Weight

**1-inch End Connection:** 25 pounds / 11.3 kg

**2-inch End Connection:** 30 pounds / 13.6 kg

1. The pressure/temperature limits in this Bulletin and any applicable standard or code limitation should not be exceeded.

## Installation

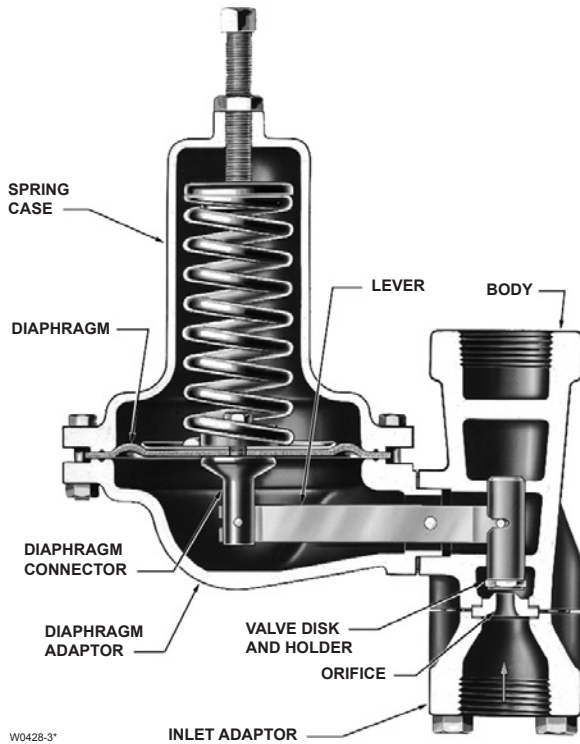
These regulators may be installed in any position. Some installations may require a remote vent line. Protect all vent openings against the entrance of rain, snow, debris, or any other foreign material that may plug the opening.

Direction of flow through the regulator body must be in the direction indicated by the flow direction arrow found on the regulator body.

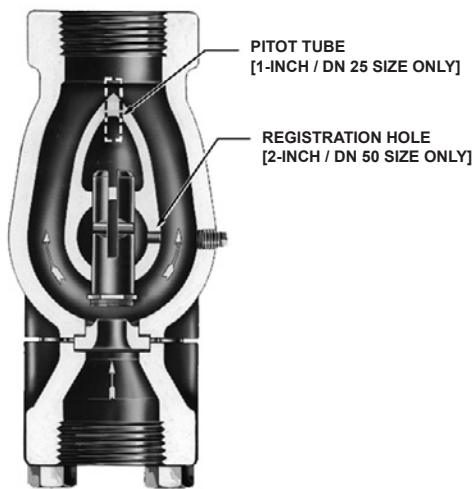
## Overpressure Protection

As is the case with most regulators, these regulators have an outlet pressure rating that is lower than the inlet pressure rating. Overpressure protection is needed if the actual inlet pressure can exceed the outlet pressure rating.

Regulator operation below the limits specified in Tables 1 and 2 do not preclude the possibility of damage from external sources or from debris in the pipeline. The regulator should be inspected for damage after any overpressure condition.



FULL SECTION



BODY ONLY  
(ROTATED 90°)

Figure 2. Type 630 Sectional Views

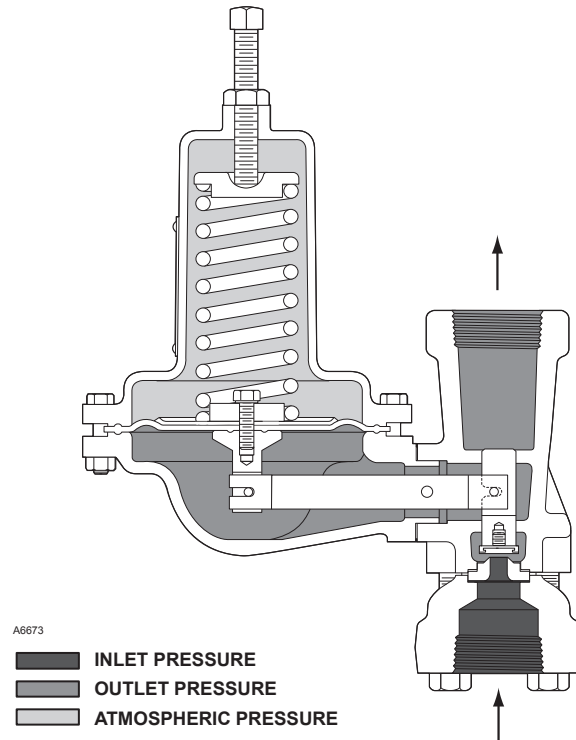


Figure 3. Type 630 Operational Schematic

## Principle of Operations

Refer to Figure 2. In the regulator construction, outlet pressure registers beneath the diaphragm. As long as the outlet pressure is less than the set pressure, spring force on the diaphragm causes the lever to hold the valve open. When the outlet pressure exceeds the set pressure, the diaphragm moves to compress the spring and the lever closes the valve until the outlet pressure returns to set pressure.

## Capacity Data

Flow capacities are given in Tables 3 and 4 in standard cubic feet per hour (SCFH) and normal cubic meters per hour (Nm<sup>3</sup>/h) of 0.6 specific gravity natural gas. To determine the equivalent flow rate for other gases, multiply the table value by the appropriate factor: air—0.775; butane—0.547; nitrogen—0.789; propane—0.627.

# Bulletin 71.1:630

**Table 1. Maximum Inlet Pressure and Pressure Drops**

| ORIFICE SIZES |             | MAXIMUM ALLOWABLE INLET PRESSURE <sup>(1)</sup> |      | MAXIMUM ALLOWABLE PRESSURE DROPS                   |      |                         |      |                    |      |
|---------------|-------------|-------------------------------------------------|------|----------------------------------------------------|------|-------------------------|------|--------------------|------|
|               |             |                                                 |      | Nylon (PA) and Polytetrafluoroethylene (PTFE) Disk |      | Fluorocarbon (FKM) Disk |      | Nitrile (NBR) Disk |      |
| inches        | mm          | psig                                            | bar  | psig                                               | bar  | psig                    | bar  | psig               | bar  |
| 1/8 and 3/16  | 3.2 and 4.8 | 1500                                            | 103  | 1500                                               | 103  | 200                     | 13.8 | 600                | 41.4 |
| 1/4           | 6.4         |                                                 |      | 1000                                               | 69   |                         |      |                    |      |
| 3/8           | 9.5         | 1000                                            | 69   | 500                                                | 34.5 |                         |      | 500                | 34.5 |
| 1/2           | 13          | 750                                             | 51.7 | 250                                                | 17.2 |                         |      | 250                | 17.2 |

1. Inlet pressure must not exceed the sum of the actual outlet pressure setting and the maximum allowable pressure drop. For example, with an outlet pressure setting of 200 psig / 13.8 bar and a 3/8-inch / 9.5 mm orifice with a maximum allowable pressure drop of 500 psid / 34.5 bar d, the maximum inlet pressure is 700 psig / 48.3 bar.

2. Nitrile (NBR) valve disks are normally furnished for pressure drops to 200 psi / 13.8 bar, differential. For better erosion resistance, Nylon (PA) valve disks are normally furnished for higher pressure drops. Some erosion of valve disks occurs at all pressure drops due to solid particles in the flow stream. The rate of erosion is higher with large amounts of impurities in the flow stream and with high pressure drops. Valve disks and other regulator parts must be inspected periodically for erosion and damage and must be replaced as necessary.

**Table 2. Outlet Pressure Ranges**

| REGULATOR<br>CONSTRUCTION | OUTLET PRESSURE<br>RANGE |              | SPRING<br>PART<br>NUMBER | SPRING<br>COLOR<br>CODE | SPRING WIRE<br>DIAMETER |      | SPRING FREE<br>LENGTH |     | MAXIMUM<br>OUTLET<br>PRESSURE<br>OVER<br>SETPOINT <sup>(1)</sup> |                     | MAXIMUM<br>EMERGENCY<br>OUTLET<br>(CASING)<br>PRESSURE <sup>(4)</sup> |      |     |      |
|---------------------------|--------------------------|--------------|--------------------------|-------------------------|-------------------------|------|-----------------------|-----|------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------|------|-----|------|
|                           | psig                     | bar          |                          |                         | inches                  | mm   | inches                | mm  | psig                                                             | bar                 | psig                                                                  | bar  |     |      |
| Low pressure              | 3 to 10                  | 0.21 to 0.69 | 0W019227022              | Red stripe              | 0.23                    | 5.84 | 6.0                   | 152 | 20                                                               | 1.4                 | 66                                                                    | 4.6  |     |      |
|                           | 8 to 20                  | 0.55 to 1.4  | 0W019127022              | Olive green             | 0.28                    | 7.11 |                       |     | 20 <sup>(2)</sup>                                                | 1.4 <sup>(2)</sup>  |                                                                       |      |     |      |
|                           | 17 to 30                 | 1.2 to 2.1   | 0W019027022              | Unpainted               | 0.34                    | 8.64 |                       |     | Limited by<br>Maximum<br>Emergency<br>Outlet Pressure            |                     |                                                                       |      |     |      |
|                           | 27 to 40                 | 1.9 to 2.8   | 0Y066427022              | Green stripe            | 0.36                    | 9.14 |                       |     |                                                                  |                     |                                                                       |      |     |      |
| High pressure             | 27 to 50                 | 1.9 to 3.4   | 0W019227022              | Red stripe              | 0.23                    | 5.84 |                       |     | 6.1                                                              | 155                 | 200                                                                   | 13.8 | 550 | 37.9 |
|                           | 46 to 95                 | 3.2 to 6.6   | 0W019127022              | Olive green             | 0.28                    | 7.11 |                       |     |                                                                  |                     |                                                                       |      |     |      |
|                           | 90 to 150                | 6.2 to 10.3  | 0W019027022              | Unpainted               | 0.34                    | 8.64 |                       |     |                                                                  |                     |                                                                       |      |     |      |
|                           | 150 to 200               | 10.3 to 13.8 | 0Y066427022              | Green stripe            | 0.36                    | 9.14 |                       |     |                                                                  |                     |                                                                       |      |     |      |
|                           | 200 to 275               | 13.8 to 19.0 | 1J146927142              | Blue stripe             | 0.38                    | 9.65 |                       |     |                                                                  |                     |                                                                       |      |     |      |
|                           | 275 to 500               | 19.0 to 34.5 | 1K370927082              | Yellow stripe           | 0.44                    | 11.2 | 6.2                   | 157 | 200 <sup>(3)</sup>                                               | 13.8 <sup>(3)</sup> |                                                                       |      |     |      |

1. Damage to internal parts of the regulator may occur if outlet pressure exceeds the actual pressure setting by amounts greater than those shown in this column.

2. For outlet pressure settings to 25 psig / 1.7 bar only. For pressure settings over 25 psig / 1.7 bar, outlet pressure is limited by maximum emergency outlet pressure of 45 psig / 3.1 bar.

3. For outlet pressure settings to 350 psig / 24.1 bar only. For pressure settings over 350 psig / 24.1 bar, outlet pressure is limited by maximum emergency outlet pressure of 550 psig / 37.9 bar.

4. Leakage or bursting of pressure-containing parts may occur if outlet pressure exceeds these values.

To determine the wide-open capacity for relief sizing with the flow coefficients ( $C_g$ ), use the appropriate procedure below.

1. If flow is critical (absolute outlet pressure is equal to or less than one-half the absolute inlet pressure), use the equation:

$$\text{Flow} = (\text{Absolute Inlet Pressure}) (C_g) (1.29)$$

The flow determined will be in SCFH of 0.6 specific gravity natural gas. To convert SCFH to Nm<sup>3</sup>/h multiply the SCFH result by 0.0268.

2. If flow is less than critical (absolute outlet pressure is greater than one-half the absolute inlet pressure), use Fisher®'s computerized sizing program or contact your local Sales Office.

**Table 3. 1-Inch / DN 25 Body Capacities (Based on 20% Droop)**

| LOW PRESSURE | OUTLET PRESSURE RANGE, SPRING PART NUMBER, AND COLOR                 | INLET PRESSURE |      | OUTLET PRESSURE |      | 1-INCH / DN 25 BODY CAPACITIES IN SCFH / Nm³/h OF 0.6 SPECIFIC GRAVITY OF NATURAL GAS |       |            |       |           |       |           |       |          |       |
|--------------|----------------------------------------------------------------------|----------------|------|-----------------|------|---------------------------------------------------------------------------------------|-------|------------|-------|-----------|-------|-----------|-------|----------|-------|
|              |                                                                      |                |      |                 |      | Orifice Size, Inches / mm                                                             |       |            |       |           |       |           |       |          |       |
|              |                                                                      | psig           | bar  | psig            | bar  | 1/8 / 3.2                                                                             |       | 3/16 / 4.8 |       | 1/4 / 6.4 |       | 3/8 / 9.5 |       | 1/2 / 13 |       |
|              |                                                                      |                |      |                 |      | SCFH                                                                                  | Nm³/h | SCFH       | Nm³/h | SCFH      | Nm³/h | SCFH      | Nm³/h | SCFH     | Nm³/h |
| LOW PRESSURE | 3 to 10 psig / 0.21 to 0.69 bar<br><br>0W019227022<br><br>Red Stripe | 10             | 0.69 | 5               | 0.34 | 200                                                                                   | 5     | 510        | 14    | 990       | 27    | 1700      | 46    | 2200     | 59    |
|              |                                                                      | 20             | 1.4  |                 |      | 400                                                                                   | 11    | 770        | 21    | 1200      | 32    | 2000      | 54    | 2700     | 72    |
|              |                                                                      | 30             | 2.1  |                 |      | 600                                                                                   | 16    | 1100       | 29    | 1500      | 40    | 2200      | 59    | 3300     | 88    |
|              |                                                                      | 50             | 3.4  |                 |      | 950                                                                                   | 25    | 1500       | 40    | 2100      | 56    | 2800      | 75    | 4200     | 113   |
|              |                                                                      | 60             | 4.1  |                 |      | 1100                                                                                  | 29    | 1750       | 47    | 2400      | 64    | 3000      | 80    | 4100     | 110   |
|              |                                                                      | 100            | 6.9  |                 |      | 1700                                                                                  | 46    | 2400       | 64    | 2900      | 78    | 4000      | 107   | 4900     | 131   |
|              |                                                                      | 200            | 13.8 |                 |      | 3000                                                                                  | 80    | 3400       | 91    | 4200      | 113   | 5100      | 137   | 6100     | 163   |
|              |                                                                      | 400            | 27.6 | 10              | 0.69 | 3700                                                                                  | 99    | 3900       | 105   | 4500      | 121   | 6400      | 172   | -----    | ----- |
|              |                                                                      | 500            | 34.5 |                 |      | 4100                                                                                  | 110   | 4300       | 115   | 4700      | 126   | 7400      | 198   | -----    | ----- |
|              |                                                                      | 600            | 41.4 |                 |      | 4300                                                                                  | 115   | 4600       | 123   | 5000      | 134   | -----     | ----- | -----    | ----- |
|              |                                                                      | 1000           | 69.0 |                 |      | 4600                                                                                  | 123   | 4900       | 131   | 5600      | 150   | -----     | ----- | -----    | ----- |
|              |                                                                      | 1500           | 103  |                 |      | 5000                                                                                  | 134   | 5400       | 145   | -----     | ----- | -----     | ----- | -----    | ----- |
|              |                                                                      | 20             | 1.4  |                 |      | 500                                                                                   | 13    | 1200       | 32    | 1800      | 48    | 4200      | 113   | 4900     | 131   |
|              |                                                                      | 30             | 2.1  |                 |      | 700                                                                                   | 19    | 1400       | 38    | 2800      | 75    | 4100      | 110   | 5300     | 142   |
|              |                                                                      | 50             | 3.4  |                 |      | 1000                                                                                  | 27    | 2300       | 62    | 4100      | 110   | 5100      | 137   | 6200     | 166   |
|              |                                                                      | 60             | 4.1  |                 |      | 1150                                                                                  | 31    | 2700       | 72    | 4200      | 113   | 5500      | 147   | 6500     | 174   |
|              | 8 to 20 psig / 0.55 to 1.4 bar<br><br>0W019127022<br><br>Olive Drab  | 100            | 6.9  | 10              | 0.69 | 1600                                                                                  | 43    | 3800       | 102   | 5000      | 134   | 6400      | 172   | 7300     | 196   |
|              |                                                                      | 200            | 13.8 |                 |      | 3300                                                                                  | 88    | 5800       | 155   | 6900      | 185   | 7700      | 206   | 8200     | 220   |
|              |                                                                      | 400            | 27.6 |                 |      | 5400                                                                                  | 145   | 6900       | 185   | 7600      | 204   | 9000      | 241   | -----    | ----- |
|              |                                                                      | 500            | 34.5 |                 |      | 6000                                                                                  | 161   | 7100       | 190   | 7900      | 212   | 9700      | 260   | -----    | ----- |
|              |                                                                      | 600            | 41.4 |                 |      | 6500                                                                                  | 174   | 7300       | 196   | 8200      | 220   | -----     | ----- | -----    | ----- |
|              |                                                                      | 1000           | 69.0 |                 |      | 7200                                                                                  | 193   | 7700       | 206   | 8400      | 225   | -----     | ----- | -----    | ----- |
|              |                                                                      | 1500           | 103  |                 |      | 7400                                                                                  | 198   | 8400       | 225   | -----     | ----- | -----     | ----- | -----    | ----- |
|              |                                                                      | 20             | 1.4  | 15              | 1.0  | 470                                                                                   | 13    | 1000       | 27    | 1700      | 46    | 3300      | 88    | 4900     | 131   |
|              |                                                                      | 30             | 2.1  |                 |      | 600                                                                                   | 16    | 1500       | 40    | 2500      | 67    | 4600      | 123   | 5200     | 139   |
|              |                                                                      | 50             | 3.4  |                 |      | 1000                                                                                  | 27    | 2300       | 62    | 3800      | 102   | 5500      | 147   | 5700     | 153   |
|              |                                                                      | 60             | 4.1  |                 |      | 1150                                                                                  | 31    | 2700       | 72    | 4300      | 115   | 6100      | 163   | 6800     | 182   |
|              |                                                                      | 100            | 6.9  |                 |      | 1900                                                                                  | 51    | 4300       | 115   | 6200      | 166   | 7600      | 204   | 9600     | 257   |
|              |                                                                      | 200            | 13.8 |                 |      | 3600                                                                                  | 96    | 7500       | 201   | 8500      | 228   | 9600      | 257   | 10,000   | 268   |
|              |                                                                      | 400            | 27.6 |                 |      | 7100                                                                                  | 190   | 8700       | 233   | 10,000    | 268   | 11,000    | 295   | -----    | ----- |
|              |                                                                      | 500            | 34.5 |                 |      | 8300                                                                                  | 222   | 8800       | 236   | 10,500    | 281   | 12,000    | 322   | -----    | ----- |
|              |                                                                      | 600            | 41.4 |                 |      | 8600                                                                                  | 230   | 9600       | 257   | 10,800    | 289   | -----     | ----- | -----    | ----- |
|              |                                                                      | 1000           | 69.0 |                 |      | 9600                                                                                  | 257   | 10,000     | 268   | 11,000    | 295   | -----     | ----- | -----    | ----- |
|              |                                                                      | 1500           | 103  |                 |      | 10,000                                                                                | 268   | 11,000     | 295   | -----     | ----- | -----     | ----- | -----    | ----- |

- continued -

# Bulletin 71.1:630

**Table 3. 1-Inch / DN 25 Body Capacities (Based on 20% Droop) (continued)**

|              | OUTLET PRESSURE RANGE, SPRING PART NUMBER, AND COLOR          | INLET PRESSURE |      | OUTLET PRESSURE |     | 1-INCH / DN 25 BODY CAPACITIES IN SCFH / Nm³/h OF 0.6 SPECIFIC GRAVITY OF NATURAL GAS |       |            |       |           |       |           |       |          |       |
|--------------|---------------------------------------------------------------|----------------|------|-----------------|-----|---------------------------------------------------------------------------------------|-------|------------|-------|-----------|-------|-----------|-------|----------|-------|
|              |                                                               |                |      |                 |     | Orifice Size, Inches / mm                                                             |       |            |       |           |       |           |       |          |       |
|              |                                                               | psig           | bar  | psig            | bar | 1/8 / 3.2                                                                             |       | 3/16 / 4.8 |       | 1/4 / 6.4 |       | 3/8 / 9.5 |       | 1/2 / 13 |       |
|              |                                                               |                |      |                 |     | SCFH                                                                                  | Nm³/h | SCFH       | Nm³/h | SCFH      | Nm³/h | SCFH      | Nm³/h | SCFH     | Nm³/h |
| LOW PRESSURE | 8 to 20 psig / 0.55 to 1.4 bar<br>OW019127022<br>Olive Drab   | 30             | 2.1  | 20              | 1.4 | 600                                                                                   | 16    | 1500       | 40    | 2500      | 67    | 4600      | 123   | 6800     | 182   |
|              |                                                               | 40             | 2.8  |                 |     | 800                                                                                   | 21    | 2000       | 54    | 3400      | 91    | 5700      | 153   | 8100     | 217   |
|              |                                                               | 50             | 3.4  |                 |     | 1000                                                                                  | 27    | 2300       | 62    | 4200      | 113   | 6800      | 182   | 9000     | 241   |
|              |                                                               | 60             | 4.1  |                 |     | 1150                                                                                  | 31    | 2700       | 72    | 4900      | 131   | 7500      | 201   | 9800     | 263   |
|              |                                                               | 100            | 6.9  |                 |     | 1800                                                                                  | 48    | 4100       | 110   | 7400      | 198   | 9500      | 255   | 11,000   | 295   |
|              |                                                               | 200            | 13.8 |                 |     | 3600                                                                                  | 96    | 8000       | 214   | 10,000    | 268   | 12,000    | 322   | 13,000   | 348   |
|              |                                                               | 400            | 27.6 |                 |     | 7200                                                                                  | 193   | 10,000     | 268   | 13,000    | 348   | 14,000    | 375   | ----     | ----  |
|              |                                                               | 500            | 34.5 |                 |     | 8500                                                                                  | 228   | 10,800     | 289   | 13,400    | 359   | 14,800    | 397   | ----     | ----  |
|              |                                                               | 600            | 41.4 |                 |     | 10,000                                                                                | 268   | 12,000     | 322   | 13,800    | 370   | ----      | ----  | ----     | ----  |
|              |                                                               | 1000           | 69.0 |                 |     | 11,000                                                                                | 295   | 12,300     | 330   | 15,000    | 402   | ----      | ----  | ----     | ----  |
|              |                                                               | 1500           | 103  |                 |     | 12,000                                                                                | 322   | 13,000     | 348   | ----      | ----  | ----      | ----  | ----     | ----  |
|              | 17 to 30 psig / 1.17 to 2.1 bar<br>OW019027022<br>Silver      | 30             | 2.1  | 20              | 1.4 | 590                                                                                   | 16    | 900        | 24    | 1700      | 46    | 3300      | 88    | 4700     | 126   |
|              |                                                               | 40             | 2.8  |                 |     | 790                                                                                   | 21    | 1700       | 46    | 2400      | 64    | 4000      | 107   | 6100     | 163   |
|              |                                                               | 50             | 3.4  |                 |     | 900                                                                                   | 24    | 2200       | 59    | 3600      | 96    | 4900      | 131   | 6900     | 185   |
|              |                                                               | 60             | 4.1  |                 |     | 1050                                                                                  | 28    | 2500       | 67    | 4000      | 107   | 5500      | 147   | 7400     | 198   |
|              |                                                               | 100            | 6.9  |                 |     | 1700                                                                                  | 46    | 4000       | 107   | 5500      | 147   | 7600      | 204   | 9700     | 260   |
|              |                                                               | 200            | 13.8 |                 |     | 3400                                                                                  | 91    | 6400       | 172   | 9100      | 244   | 11,000    | 295   | 12,000   | 322   |
|              |                                                               | 400            | 27.6 |                 |     | 7000                                                                                  | 188   | 8700       | 233   | 11,000    | 295   | 13,000    | 348   | ----     | ----  |
|              |                                                               | 500            | 34.5 | 30              | 2.1 | 8000                                                                                  | 214   | 9800       | 263   | 11,800    | 316   | 13,700    | 367   | ----     | ----  |
|              |                                                               | 600            | 41.4 |                 |     | 9600                                                                                  | 257   | 11,000     | 295   | 13,000    | 348   | ----      | ----  | ----     | ----  |
|              |                                                               | 1000           | 69.0 |                 |     | 10,000                                                                                | 268   | 12,000     | 322   | 14,000    | 375   | ----      | ----  | ----     | ----  |
|              |                                                               | 1500           | 103  |                 |     | 12,000                                                                                | 322   | 13,000     | 348   | ----      | ----  | ----      | ----  | ----     | ----  |
|              |                                                               | 40             | 2.8  |                 |     | 820                                                                                   | 22    | 1700       | 46    | 2700      | 72    | 5100      | 137   | 7600     | 204   |
|              |                                                               | 50             | 3.4  |                 |     | 900                                                                                   | 24    | 2200       | 59    | 3600      | 96    | 6400      | 172   | 8700     | 233   |
|              |                                                               | 60             | 4.1  |                 |     | 1100                                                                                  | 29    | 2600       | 70    | 4400      | 118   | 7500      | 201   | 9800     | 263   |
|              |                                                               | 100            | 6.9  |                 |     | 1700                                                                                  | 46    | 4100       | 110   | 6800      | 182   | 10,000    | 268   | 12,000   | 322   |
|              |                                                               | 200            | 13.8 |                 |     | 3500                                                                                  | 94    | 8000       | 214   | 11,000    | 295   | 14,000    | 375   | 16,000   | 429   |
|              |                                                               | 400            | 27.6 |                 |     | 6900                                                                                  | 185   | 13,000     | 348   | 15,000    | 402   | 17,000    | 456   | ----     | ----  |
|              |                                                               | 500            | 34.5 |                 |     | 8800                                                                                  | 236   | 14,000     | 375   | 15,600    | 418   | 18,500    | 496   | ----     | ----  |
|              |                                                               | 600            | 41.4 |                 |     | 9700                                                                                  | 260   | 15,000     | 402   | 16,000    | 429   | ----      | ----  | ----     | ----  |
|              |                                                               | 1000           | 69.0 |                 |     | 15,500                                                                                | 415   | 17,800     | 477   | 17,900    | 480   | ----      | ----  | ----     | ----  |
|              |                                                               | 1500           | 103  |                 |     | 16,400                                                                                | 440   | 18,500     | 496   | ----      | ----  | ----      | ----  | ----     | ----  |
|              | 27 to 40 psig / 1.9 to 2.8 bar<br>OY066427022<br>Green Stripe | 40             | 2.8  | 30              | 2.1 | 800                                                                                   | 21    | 1500       | 40    | 2400      | 64    | 4400      | 118   | 6400     | 172   |
|              |                                                               | 50             | 3.4  |                 |     | 900                                                                                   | 24    | 2000       | 54    | 3200      | 86    | 5600      | 150   | 7700     | 206   |
|              |                                                               | 60             | 4.1  |                 |     | 1100                                                                                  | 29    | 2500       | 67    | 3900      | 105   | 6300      | 169   | 8900     | 239   |
|              |                                                               | 100            | 6.9  |                 |     | 1700                                                                                  | 46    | 3900       | 105   | 6400      | 172   | 9400      | 252   | 11,000   | 295   |
|              |                                                               | 200            | 13.8 |                 |     | 3500                                                                                  | 94    | 7000       | 188   | 9400      | 252   | 14,000    | 375   | 15,000   | 402   |
|              |                                                               | 400            | 27.6 |                 |     | 6900                                                                                  | 185   | 12,000     | 322   | 15,000    | 402   | 17,000    | 456   | ----     | ----  |
|              |                                                               | 500            | 34.5 |                 |     | 8800                                                                                  | 236   | 12,500     | 335   | 15,600    | 418   | 17,800    | 477   | ----     | ----  |
|              |                                                               | 600            | 41.4 | 40              | 2.8 | 9700                                                                                  | 260   | 13,400     | 359   | 16,000    | 429   | ----      | ----  | ----     | ----  |
|              |                                                               | 1000           | 69.0 |                 |     | 15,600                                                                                | 418   | 15,800     | 423   | 17,900    | 480   | ----      | ----  | ----     | ----  |
|              |                                                               | 1500           | 103  |                 |     | 16,400                                                                                | 440   | 18,000     | 482   | ----      | ----  | ----      | ----  | ----     | ----  |
|              |                                                               | 50             | 3.4  |                 |     | 950                                                                                   | 25    | 1800       | 48    | 3200      | 86    | 5500      | 147   | 8900     | 239   |
|              |                                                               | 60             | 4.1  |                 |     | 1100                                                                                  | 29    | 2300       | 67    | 4100      | 110   | 7500      | 201   | 10,000   | 268   |
|              |                                                               | 100            | 6.9  |                 |     | 1800                                                                                  | 48    | 4100       | 110   | 7000      | 188   | 11,000    | 295   | 14,000   | 375   |
|              |                                                               | 200            | 13.8 |                 |     | 3500                                                                                  | 94    | 7800       | 209   | 12,000    | 322   | 17,000    | 456   | 19,000   | 509   |
|              |                                                               | 400            | 27.6 |                 |     | 7100                                                                                  | 190   | 15,000     | 402   | 18,000    | 482   | 21,000    | 563   | ----     | ----  |
|              |                                                               | 500            | 34.5 |                 |     | 8800                                                                                  | 236   | 16,500     | 442   | 18,700    | 501   | 21,700    | 582   | ----     | ----  |
|              |                                                               | 600            | 41.4 |                 |     | 9800                                                                                  | 263   | 18,000     | 482   | 21,000    | 563   | ----      | ----  | ----     | ----  |
|              |                                                               | 1000           | 69.0 |                 |     | 16,800                                                                                | 450   | 19,800     | 531   | 22,800    | 611   | ----      | ----  | ----     | ----  |
|              |                                                               | 1500           | 103  |                 |     | 20,000                                                                                | 536   | 22,000     | 590   | ----      | ----  | ----      | ----  | ----     | ----  |

- continued -

**Table 3. 1-Inch / DN 25 Body Capacities (Based on 20% Droop) (continued)**

|               | OUTLET PRESSURE RANGE, SPRING PART NUMBER, AND COLOR              | INLET PRESSURE |      | OUTLET PRESSURE |      | 1-INCH / DN 25 BODY CAPACITIES IN SCFH / Nm³/h OF 0.6 SPECIFIC GRAVITY OF NATURAL GAS |       |            |       |           |       |           |       |          |       |
|---------------|-------------------------------------------------------------------|----------------|------|-----------------|------|---------------------------------------------------------------------------------------|-------|------------|-------|-----------|-------|-----------|-------|----------|-------|
|               |                                                                   |                |      |                 |      | Orifice Size, Inches / mm                                                             |       |            |       |           |       |           |       |          |       |
|               |                                                                   |                |      |                 |      | 1/8 / 3.2                                                                             |       | 3/16 / 4.8 |       | 1/4 / 6.4 |       | 3/8 / 9.5 |       | 1/2 / 13 |       |
|               |                                                                   | psig           | bar  | psig            | bar  | SCFH                                                                                  | Nm³/h | SCFH       | Nm³/h | SCFH      | Nm³/h | SCFH      | Nm³/h | SCFH     | Nm³/h |
| HIGH PRESSURE | 27 to 50 psig / 1.9 to 3.4 bar<br>0W019227022<br>Red Stripe       | 60             | 4.1  | 50              | 3.4  | 900                                                                                   | 24    | 2000       | 54    | 3100      | 83    | 5200      | 139   | 8100     | 217   |
|               |                                                                   | 100            | 6.9  |                 |      | 1700                                                                                  | 46    | 3500       | 94    | 5700      | 153   | 10,500    | 281   | 13,000   | 348   |
|               |                                                                   | 200            | 13.8 |                 |      | 3500                                                                                  | 94    | 7800       | 209   | 11,000    | 295   | 16,000    | 429   | 19,000   | 509   |
|               |                                                                   | 300            | 20.7 |                 |      | 5300                                                                                  | 142   | 10,500     | 281   | 14,000    | 375   | 20,000    | 536   | 23,000   | 616   |
|               |                                                                   | 400            | 27.6 |                 |      | 6900                                                                                  | 185   | 13,000     | 348   | 17,000    | 456   | 23,000    | 616   | ----     | ----  |
|               |                                                                   | 500            | 34.5 |                 |      | 8700                                                                                  | 233   | 15,000     | 402   | 19,000    | 509   | 25,000    | 670   | ----     | ----  |
|               |                                                                   | 600            | 41.4 |                 |      | 9800                                                                                  | 263   | 17,000     | 456   | 21,000    | 563   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1000           | 69.0 |                 |      | 16,200                                                                                | 434   | 22,300     | 598   | 26,300    | 705   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1500           | 103  |                 |      | 19,000                                                                                | 509   | 25,000     | 670   | ----      | ----  | ----      | ----  | ----     | ----  |
|               | 46 to 95 psig / 3.2 to 6.6 bar<br>0W019127022<br>Olive Drab       | 60             | 4.1  | 50              | 3.4  | 800                                                                                   | 21    | 1500       | 40    | 2400      | 64    | 4300      | 115   | 6400     | 172   |
|               |                                                                   | 100            | 6.9  |                 |      | 1500                                                                                  | 40    | 3100       | 83    | 4200      | 113   | 7500      | 201   | 10,000   | 268   |
|               |                                                                   | 200            | 13.8 |                 |      | 3400                                                                                  | 91    | 6800       | 182   | 9400      | 252   | 14,000    | 375   | 17,000   | 456   |
|               |                                                                   | 300            | 20.7 |                 |      | 5200                                                                                  | 139   | 8900       | 239   | 11,000    | 295   | 16,000    | 429   | 20,000   | 536   |
|               |                                                                   | 400            | 27.6 |                 |      | 6800                                                                                  | 182   | 11,000     | 295   | 15,000    | 402   | 20,000    | 536   | ----     | ----  |
|               |                                                                   | 500            | 34.5 |                 |      | 8600                                                                                  | 230   | 12,300     | 330   | 16,300    | 437   | 22,000    | 590   | ----     | ----  |
|               |                                                                   | 600            | 41.4 |                 |      | 9800                                                                                  | 263   | 14,000     | 375   | 19,000    | 509   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1000           | 69.0 |                 |      | 13,500                                                                                | 362   | 18,400     | 493   | 21,700    | 582   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1500           | 103  |                 |      | 18,000                                                                                | 482   | 24,000     | 643   | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                   | 100            | 6.9  | 75              | 5.17 | 1700                                                                                  | 46    | 3200       | 86    | 5000      | 134   | 8000      | 214   | 13,000   | 348   |
|               |                                                                   | 200            | 13.8 |                 |      | 3500                                                                                  | 94    | 7300       | 196   | 10,000    | 268   | 16,000    | 429   | 22,000   | 590   |
|               |                                                                   | 400            | 27.6 |                 |      | 7100                                                                                  | 190   | 14,000     | 375   | 19,000    | 509   | 27,000    | 724   | ----     | ----  |
|               |                                                                   | 500            | 34.5 |                 |      | 8600                                                                                  | 230   | 16,300     | 437   | 21,300    | 571   | 28,700    | 769   | ----     | ----  |
|               |                                                                   | 600            | 41.4 |                 |      | 9900                                                                                  | 265   | 19,000     | 509   | 25,000    | 670   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1000           | 69.0 |                 |      | 16,700                                                                                | 448   | 25,800     | 691   | 31,000    | 831   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1500           | 103  |                 |      | 23,000                                                                                | 616   | 32,000     | 858   | ----      | ----  | ----      | ----  | ----     | ----  |
|               | 90 to 150 psig / 6.2 to 10.3 bar<br>0W019027022<br>Sliver         | 125            | 8.62 | 100             | 6.9  | 2000                                                                                  | 54    | 3600       | 96    | 5500      | 147   | 9200      | 247   | 13,000   | 348   |
|               |                                                                   | 150            | 10.3 |                 |      | 2500                                                                                  | 67    | 4600       | 123   | 6800      | 182   | 11,000    | 295   | 16,000   | 429   |
|               |                                                                   | 200            | 13.8 |                 |      | 3600                                                                                  | 96    | 6600       | 177   | 9400      | 252   | 13,000    | 348   | 22,000   | 590   |
|               |                                                                   | 300            | 20.7 |                 |      | 5300                                                                                  | 142   | 9800       | 263   | 14,000    | 375   | 21,000    | 563   | 30,000   | 804   |
|               |                                                                   | 400            | 27.6 | 125             | 8.62 | 7000                                                                                  | 188   | 13,000     | 348   | 18,000    | 482   | 27,000    | 724   | ----     | ----  |
|               |                                                                   | 500            | 34.5 |                 |      | 8300                                                                                  | 222   | 15,500     | 415   | 20,500    | 549   | 31,000    | 831   | ----     | ----  |
|               |                                                                   | 1000           | 69.0 |                 |      | 17,500                                                                                | 469   | 26,000     | 697   | 32,600    | 874   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1500           | 103  |                 |      | 25,000                                                                                | 670   | 35,000     | 938   | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                   | 150            | 10.3 |                 |      | 2400                                                                                  | 64    | 4600       | 123   | 6700      | 180   | 11,000    | 295   | 17,000   | 456   |
|               |                                                                   | 200            | 13.8 |                 |      | 3500                                                                                  | 94    | 6800       | 182   | 10,000    | 268   | 15,000    | 402   | 23,000   | 616   |
|               |                                                                   | 300            | 20.7 |                 |      | 5200                                                                                  | 139   | 10,000     | 268   | 15,000    | 402   | 25,000    | 670   | 34,000   | 911   |
|               |                                                                   | 400            | 27.6 |                 |      | 7300                                                                                  | 196   | 14,500     | 389   | 19,000    | 509   | 29,000    | 777   | ----     | ----  |
|               |                                                                   | 500            | 34.5 |                 |      | 7900                                                                                  | 212   | 15,000     | 402   | 25,000    | 670   | 36,000    | 965   | ----     | ----  |
|               |                                                                   | 1000           | 69.0 |                 |      | 16,000                                                                                | 429   | 30,300     | 812   | 38,800    | 1040  | ----      | ----  | ----     | ----  |
|               |                                                                   | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 43,000     | 1152  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                   | 200            | 13.8 | 150             | 10.3 | 3400                                                                                  | 91    | 6800       | 182   | 10,000    | 268   | 16,000    | 429   | 26,000   | 697   |
|               |                                                                   | 300            | 20.7 |                 |      | 5300                                                                                  | 142   | 10,000     | 268   | 15,000    | 402   | 24,000    | 643   | 35,000   | 938   |
|               |                                                                   | 400            | 27.6 |                 |      | 7100                                                                                  | 190   | 14,000     | 375   | 22,000    | 590   | 34,000    | 911   | 42,000   | 1126  |
|               |                                                                   | 500            | 34.5 |                 |      | 8000                                                                                  | 214   | 18,800     | 504   | 26,300    | 705   | 39,300    | 1053  | ----     | ----  |
|               |                                                                   | 800            | 55.2 |                 |      | 13,000                                                                                | 348   | 29,000     | 777   | 38,000    | 1018  | ----      | ----  | ----     | ----  |
|               |                                                                   | 1000           | 69.0 |                 |      | 17,000                                                                                | 456   | 34,000     | 911   | 44,300    | 1187  | ----      | ----  | ----     | ----  |
|               |                                                                   | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 47,000     | 1260  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                   | 200            | 13.8 | 150             | 10.3 | 3400                                                                                  | 91    | 6200       | 166   | 9300      | 249   | 16,000    | 429   | 26,000   | 697   |
|               |                                                                   | 300            | 20.7 |                 |      | 5300                                                                                  | 142   | 10,000     | 268   | 15,000    | 402   | 24,000    | 643   | 30,000   | 804   |
|               |                                                                   | 400            | 27.6 |                 |      | 7100                                                                                  | 190   | 14,000     | 375   | 21,000    | 563   | 32,000    | 858   | 38,000   | 1018  |
|               |                                                                   | 500            | 34.5 |                 |      | 8000                                                                                  | 214   | 16,500     | 442   | 26,300    | 705   | 39,000    | 1045  | ----     | ----  |
|               |                                                                   | 800            | 55.2 |                 |      | 13,000                                                                                | 348   | 27,000     | 724   | 37,000    | 992   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1000           | 69.0 |                 |      | 16,700                                                                                | 448   | 31,000     | 831   | 43,900    | 1177  | ----      | ----  | ----     | ----  |
|               |                                                                   | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 44,000     | 1179  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                   | 200            | 13.8 | 150             | 10.3 | 3400                                                                                  | 91    | 6200       | 166   | 9300      | 249   | 16,000    | 429   | 26,000   | 697   |
|               |                                                                   | 300            | 20.7 |                 |      | 5300                                                                                  | 142   | 10,000     | 268   | 15,000    | 402   | 24,000    | 643   | 30,000   | 804   |
|               |                                                                   | 400            | 27.6 |                 |      | 7100                                                                                  | 190   | 14,000     | 375   | 21,000    | 563   | 32,000    | 858   | 38,000   | 1018  |
|               |                                                                   | 500            | 34.5 |                 |      | 8000                                                                                  | 214   | 16,500     | 442   | 26,300    | 705   | 39,000    | 1045  | ----     | ----  |
|               | 150 to 200 psig / 10.3 to 13.8 bar<br>0Y066427022<br>Green Stripe | 800            | 55.2 |                 |      | 13,000                                                                                | 348   | 27,000     | 724   | 37,000    | 992   | ----      | ----  | ----     | ----  |
|               |                                                                   | 1000           | 69.0 |                 |      | 16,700                                                                                | 448   | 31,000     | 831   | 43,900    | 1177  | ----      | ----  | ----     | ----  |
|               |                                                                   | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 44,000     | 1179  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                   | 200            | 13.8 |                 |      | 3400                                                                                  | 91    | 6200       | 166   | 9300      | 249   | 16,000    | 429   | 26,000   | 697   |

- continued -

# Bulletin 71.1:630

**Table 3. 1-Inch / DN 25 Body Capacities (Based on 20% Droop) (continued)**

|               | OUTLET PRESSURE RANGE, SPRING PART NUMBER, AND COLOR                       | INLET PRESSURE |      | OUTLET PRESSURE |      | 1-INCH / DN 25 BODY CAPACITIES IN SCFH / Nm³/h OF 0.6 SPECIFIC GRAVITY OF NATURAL GAS |       |            |       |           |       |           |       |          |       |
|---------------|----------------------------------------------------------------------------|----------------|------|-----------------|------|---------------------------------------------------------------------------------------|-------|------------|-------|-----------|-------|-----------|-------|----------|-------|
|               |                                                                            |                |      |                 |      | Orifice Size, Inches / mm                                                             |       |            |       |           |       |           |       |          |       |
|               |                                                                            | psig           | bar  | psig            | bar  | 1/8 / 3.2                                                                             |       | 3/16 / 4.8 |       | 1/4 / 6.4 |       | 3/8 / 9.5 |       | 1/2 / 13 |       |
|               |                                                                            |                |      |                 |      | SCFH                                                                                  | Nm³/h | SCFH       | Nm³/h | SCFH      | Nm³/h | SCFH      | Nm³/h | SCFH     | Nm³/h |
| HIGH PRESSURE | 150 to 200 psig / 10.3 to 13.8 bar<br><br>0Y066427022<br><br>Green Stripe  | 250            | 17.2 | 200             | 13.8 | 4200                                                                                  | 113   | 8300       | 222   | 12,000    | 322   | 20,000    | 536   | 30,000   | 804   |
|               |                                                                            | 300            | 20.7 |                 |      | 5200                                                                                  | 139   | 10,000     | 268   | 16,000    | 429   | 25,000    | 670   | 35,000   | 938   |
|               |                                                                            | 600            | 41.4 |                 |      | 9500                                                                                  | 255   | 22,000     | 590   | 34,000    | 911   | 55,000    | 1474  | ----     | ----  |
|               |                                                                            | 700            | 48.3 |                 |      | 11,000                                                                                | 295   | 25,000     | 670   | 40,000    | 1072  | 61,500    | 1648  | ----     | ----  |
|               |                                                                            | 800            | 55.2 |                 |      | 13,000                                                                                | 348   | 30,000     | 804   | 43,000    | 1152  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1000           | 69.0 |                 |      | 16,000                                                                                | 429   | 37,000     | 992   | 50,000    | 1340  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1200           | 82.7 |                 |      | 20,000                                                                                | 536   | 41,000     | 1099  | 59,000    | 1581  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 53,000     | 1420  | ----      | ----  | ----      | ----  | ----     | ----  |
|               | 200 to 275 psig / 13.8 to 19.0 bar<br><br>1J146927142<br><br>Blue Stripe   | 250            | 17.2 | 200             | 13.8 | 4200                                                                                  | 113   | 8200       | 220   | 11,000    | 295   | 20,000    | 536   | 29,000   | 777   |
|               |                                                                            | 300            | 20.7 |                 |      | 5200                                                                                  | 139   | 10,000     | 268   | 14,500    | 389   | 25,000    | 670   | 35,000   | 938   |
|               |                                                                            | 600            | 41.4 |                 |      | 9500                                                                                  | 255   | 22,000     | 590   | 31,000    | 831   | 51,000    | 1367  | ----     | ----  |
|               |                                                                            | 700            | 48.3 |                 |      | 11,000                                                                                | 295   | 25,000     | 670   | 35,000    | 938   | 55,000    | 1474  | ----     | ----  |
|               |                                                                            | 800            | 55.2 |                 |      | 13,000                                                                                | 348   | 29,000     | 777   | 42,000    | 1126  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1000           | 69.0 |                 |      | 16,000                                                                                | 429   | 36,000     | 965   | 50,000    | 1340  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1200           | 82.7 |                 |      | 19,000                                                                                | 509   | 41,000     | 1099  | 55,000    | 1474  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 51,000     | 1367  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                            | 300            | 20.7 | 250             | 17.2 | 4900                                                                                  | 131   | 9000       | 241   | 15,000    | 402   | 28,000    | 750   | 42,000   | 1126  |
|               |                                                                            | 400            | 27.6 |                 |      | 7000                                                                                  | 188   | 14,000     | 375   | 23,000    | 616   | 40,000    | 1072  | 56,000   | 1501  |
|               |                                                                            | 500            | 34.5 |                 |      | 8500                                                                                  | 228   | 18,000     | 482   | 29,000    | 777   | 51,000    | 1367  | 65,000   | 1742  |
|               |                                                                            | 600            | 41.4 |                 |      | 9500                                                                                  | 255   | 22,000     | 590   | 34,000    | 911   | 59,000    | 1581  | ----     | ----  |
|               |                                                                            | 1000           | 69.0 | 275             | 19.0 | 16,000                                                                                | 429   | 39,000     | 1045  | 58,000    | 1554  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 59,000     | 1581  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                            | 300            | 20.7 |                 |      | 4700                                                                                  | 126   | 9000       | 241   | 15,000    | 402   | 28,000    | 750   | 39,000   | 1045  |
|               |                                                                            | 400            | 27.6 |                 |      | 6900                                                                                  | 185   | 14,000     | 375   | 25,000    | 670   | 40,000    | 1072  | 54,000   | 1447  |
|               |                                                                            | 600            | 41.4 |                 |      | 9300                                                                                  | 249   | 21,000     | 563   | 39,800    | 1067  | 76,100    | 2039  | ----     | ----  |
|               |                                                                            | 1000           | 69.0 |                 |      | 16,000                                                                                | 429   | 39,000     | 1045  | 67,000    | 1796  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 60,000     | 1608  | ----      | ----  | ----      | ----  | ----     | ----  |
|               | 275 to 500 psig / 19.0 to 34.5 bar<br><br>1K370927082<br><br>Yellow Stripe | 300            | 20.7 | 275             | 19.0 | 4500                                                                                  | 121   | 7500       | 201   | 10,000    | 268   | 20,000    | 536   | 31,000   | 831   |
|               |                                                                            | 400            | 27.6 |                 |      | 6600                                                                                  | 177   | 12,000     | 322   | 16,000    | 429   | 31,000    | 831   | 43,000   | 1152  |
|               |                                                                            | 600            | 41.4 |                 |      | 9300                                                                                  | 249   | 18,400     | 493   | 24,300    | 651   | 43,800    | 1174  | ----     | ----  |
|               |                                                                            | 1000           | 69.0 |                 |      | 17,000                                                                                | 456   | 32,000     | 858   | 43,000    | 1152  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 46,000     | 1233  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                            | 400            | 27.6 | 300             | 20.7 | 6600                                                                                  | 177   | 11,000     | 295   | 16,000    | 429   | 31,000    | 831   | 42,000   | 1126  |
|               |                                                                            | 600            | 41.4 |                 |      | 9900                                                                                  | 265   | 19,000     | 509   | 26,000    | 697   | 48,000    | 1286  | ----     | ----  |
|               |                                                                            | 700            | 48.3 |                 |      | 11,000                                                                                | 295   | 23,000     | 616   | 30,000    | 804   | 54,000    | 1447  | ----     | ----  |
|               |                                                                            | 800            | 55.2 |                 |      | 13,000                                                                                | 348   | 26,000     | 697   | 35,000    | 938   | 61,000    | 1635  | ----     | ----  |
|               |                                                                            | 1000           | 69.0 |                 |      | 16,800                                                                                | 450   | 32,500     | 871   | 43,800    | 1174  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1300           | 89.6 |                 |      | 22,000                                                                                | 590   | 43,000     | 1152  | 58,000    | 1554  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 49,000     | 1313  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                            | 500            | 34.5 | 400             | 27.6 | 8300                                                                                  | 222   | 16,000     | 429   | 24,000    | 643   | 44,000    | 1179  | 62,000   | 1662  |
|               |                                                                            | 600            | 41.4 |                 |      | 9400                                                                                  | 252   | 21,300     | 571   | 30,000    | 804   | 55,300    | 1482  | ----     | ----  |
|               |                                                                            | 800            | 55.2 |                 |      | 13,000                                                                                | 348   | 30,000     | 804   | 41,000    | 1099  | 76,000    | 2037  | ----     | ----  |
|               |                                                                            | 900            | 62.1 |                 |      | 15,000                                                                                | 402   | 34,000     | 911   | 49,000    | 1313  | 85,000    | 2278  | ----     | ----  |
|               |                                                                            | 1000           | 69.0 |                 |      | 17,000                                                                                | 456   | 38,000     | 1018  | 54,000    | 1447  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1200           | 82.7 | 500             | 34.5 | 20,000                                                                                | 536   | 46,000     | 1233  | 63,000    | 1688  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1400           | 96.5 |                 |      | 24,000                                                                                | 643   | 55,000     | 1474  | 76,000    | 2037  | ----      | ----  | ----     | ----  |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 60,000     | 1608  | ----      | ----  | ----      | ----  | ----     | ----  |
|               |                                                                            | 550            | 37.9 |                 |      | 8700                                                                                  | 233   | 16,000     | 429   | 26,000    | 697   | 50,000    | 1340  | 77,000   | 2064  |
|               |                                                                            | 600            | 41.4 |                 |      | 9500                                                                                  | 255   | 19,000     | 509   | 36,800    | 986   | 57,000    | 1528  | ----     | ----  |
|               |                                                                            | 900            | 62.1 |                 |      | 15,000                                                                                | 402   | 34,000     | 911   | 52,000    | 1394  | 92,000    | 2466  | ----     | ----  |
|               |                                                                            | 1000           | 69.0 |                 |      | 17,000                                                                                | 456   | 39,000     | 1045  | 60,000    | 1608  | 100,000   | 2680  | ----     | ----  |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 59,000     | 1581  | 72,000    | 1930  | ----      | ----  | ----     | ----  |

**Table 4. 2-Inch / DN 50 Body Capacities (Based on 20% Droop)**

|              | OUTLET PRESSURE RANGE, SPRING PART NUMBER, AND COLOR                    | INLET PRESSURE |      | OUTLET PRESSURE |      | 2-INCH / DN 50 BODY CAPACITIES IN SCFH / Nm <sup>3</sup> /h OF 0.6 SPECIFIC GRAVITY OF NATURAL GAS |                    |            |                    |           |                    |           |                    |          |                    |
|--------------|-------------------------------------------------------------------------|----------------|------|-----------------|------|----------------------------------------------------------------------------------------------------|--------------------|------------|--------------------|-----------|--------------------|-----------|--------------------|----------|--------------------|
|              |                                                                         |                |      |                 |      | Orifice Size, Inches / mm                                                                          |                    |            |                    |           |                    |           |                    |          |                    |
|              |                                                                         |                |      |                 |      | 1/8 / 3.2                                                                                          |                    | 3/16 / 4.8 |                    | 1/4 / 6.4 |                    | 3/8 / 9.5 |                    | 1/2 / 13 |                    |
|              |                                                                         | psig           | bar  | psig            | bar  | SCFH                                                                                               | Nm <sup>3</sup> /h | SCFH       | Nm <sup>3</sup> /h | SCFH      | Nm <sup>3</sup> /h | SCFH      | Nm <sup>3</sup> /h | SCFH     | Nm <sup>3</sup> /h |
| LOW PRESSURE | 3 to 10 psig /<br>0.21 to 0.69 bar<br><br>0W019227022<br><br>Red Stripe | 10             | 0.69 | 5               | 0.34 | 290                                                                                                | 8                  | 830        | 22                 | 1300      | 35                 | 3300      | 88                 | 5900     | 158                |
|              |                                                                         | 20             | 1.4  |                 |      | 500                                                                                                | 13                 | 1200       | 32                 | 2100      | 56                 | 4800      | 129                | 9100     | 244                |
|              |                                                                         | 30             | 2.1  |                 |      | 760                                                                                                | 20                 | 1600       | 43                 | 2700      | 72                 | 7000      | 188                | 11,000   | 295                |
|              |                                                                         | 50             | 3.4  |                 |      | 1100                                                                                               | 29                 | 2200       | 59                 | 3900      | 105                | 9800      | 263                | 17,000   | 456                |
|              |                                                                         | 60             | 4.1  |                 |      | 1250                                                                                               | 34                 | 2700       | 72                 | 4500      | 121                | 11,100    | 297                | 19,500   | 523                |
|              |                                                                         | 100            | 6.9  |                 |      | 1900                                                                                               | 51                 | 4300       | 115                | 7000      | 188                | 17,000    | 456                | 30,000   | 804                |
|              |                                                                         | 200            | 13.8 |                 |      | 3700                                                                                               | 99                 | 8200       | 220                | 13,000    | 348                | 32,000    | 858                | 57,000   | 1528               |
|              |                                                                         | 400            | 27.6 | 10              | 0.69 | 7200                                                                                               | 193                | 16,000     | 429                | 28,000    | 750                | 64,000    | 1715               | ----     | ----               |
|              |                                                                         | 500            | 34.5 |                 |      | 9100                                                                                               | 244                | 19,000     | 509                | 35,000    | 938                | 79,000    | 2117               | ----     | ----               |
|              |                                                                         | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 24,000     | 643                | 42,000    | 1126               | ----      | ----               | ----     | ----               |
|              |                                                                         | 1000           | 69.0 |                 |      | 18,000                                                                                             | 482                | 39,000     | 1045               | 69,000    | 1849               | ----      | ----               | ----     | ----               |
|              |                                                                         | 1500           | 103  |                 |      | 22,000                                                                                             | 590                | 60,000     | 1608               | ----      | ----               | ----      | ----               | ----     | ----               |
|              |                                                                         | 20             | 1.4  |                 |      | 560                                                                                                | 15                 | 1300       | 35                 | 2200      | 59                 | 5100      | 137                | 9000     | 241                |
|              |                                                                         | 30             | 2.1  |                 |      | 770                                                                                                | 21                 | 1500       | 40                 | 3000      | 80                 | 7000      | 188                | 11,000   | 295                |
|              |                                                                         | 50             | 3.4  |                 |      | 1100                                                                                               | 29                 | 2400       | 64                 | 4300      | 115                | 9800      | 263                | 17,000   | 456                |
|              |                                                                         | 60             | 4.1  |                 |      | 1250                                                                                               | 34                 | 2800       | 75                 | 5000      | 134                | 11,100    | 297                | 19,500   | 523                |
|              | 8 to 20 psig /<br>0.55 to 1.4 bar<br><br>0W019127022<br><br>Olive Drab  | 100            | 6.9  | 10              | 0.69 | 1900                                                                                               | 51                 | 4400       | 118                | 7600      | 204                | 17,000    | 456                | 30,000   | 804                |
|              |                                                                         | 200            | 13.8 |                 |      | 3700                                                                                               | 99                 | 8100       | 217                | 14,000    | 375                | 33,000    | 884                | 57,000   | 1528               |
|              |                                                                         | 400            | 27.6 |                 |      | 7200                                                                                               | 193                | 16,000     | 429                | 28,000    | 750                | 62,000    | 1662               | ----     | ----               |
|              |                                                                         | 500            | 34.5 |                 |      | 8900                                                                                               | 239                | 19,000     | 509                | 35,000    | 938                | 76,000    | 2037               | ----     | ----               |
|              |                                                                         | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 23,000     | 616                | 42,000    | 1126               | ----      | ----               | ----     | ----               |
|              |                                                                         | 1000           | 69.0 |                 |      | 18,000                                                                                             | 482                | 40,000     | 1072               | 72,000    | 1930               | ----      | ----               | ----     | ----               |
|              |                                                                         | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 60,000     | 1608               | ----      | ----               | ----      | ----               | ----     | ----               |
|              |                                                                         | 20             | 1.4  | 15              | 1.0  | 550                                                                                                | 15                 | 1200       | 32                 | 1700      | 46                 | 2500      | 67                 | 4900     | 131                |
|              |                                                                         | 30             | 2.1  |                 |      | 760                                                                                                | 20                 | 1500       | 40                 | 2500      | 67                 | 4600      | 123                | 8800     | 236                |
|              |                                                                         | 50             | 3.4  |                 |      | 1000                                                                                               | 27                 | 2300       | 62                 | 3800      | 102                | 7800      | 209                | 16,000   | 429                |
|              |                                                                         | 60             | 4.1  |                 |      | 1200                                                                                               | 32                 | 2700       | 72                 | 4500      | 121                | 9900      | 265                | 18,500   | 496                |
|              |                                                                         | 100            | 6.9  |                 |      | 1900                                                                                               | 51                 | 4300       | 115                | 7400      | 198                | 17,000    | 456                | 30,000   | 804                |
|              |                                                                         | 200            | 13.8 |                 |      | 3600                                                                                               | 96                 | 8000       | 214                | 14,000    | 375                | 32,000    | 858                | 57,000   | 1528               |
|              |                                                                         | 400            | 27.6 |                 |      | 7200                                                                                               | 193                | 15,000     | 402                | 28,000    | 750                | 60,000    | 1608               | ----     | ----               |
|              |                                                                         | 500            | 34.5 | 15              | 1.0  | 8800                                                                                               | 236                | 19,000     | 509                | 35,000    | 938                | 74,000    | 1983               | ----     | ----               |
|              |                                                                         | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 23,000     | 616                | 42,000    | 1126               | ----      | ----               | ----     | ----               |
|              |                                                                         | 1000           | 69.0 |                 |      | 18,000                                                                                             | 482                | 39,000     | 1045               | 72,000    | 1930               | ----      | ----               | ----     | ----               |
|              |                                                                         | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 60,000     | 1608               | ----      | ----               | ----      | ----               | ----     | ----               |
|              |                                                                         | 20             | 1.4  |                 |      | 520                                                                                                | 14                 | 1100       | 29                 | 1800      | 48                 | 3500      | 94                 | 5700     | 153                |
|              |                                                                         | 30             | 2.1  |                 |      | 740                                                                                                | 20                 | 1600       | 43                 | 2800      | 75                 | 5900      | 158                | 10,000   | 268                |
|              |                                                                         | 50             | 3.4  |                 |      | 1100                                                                                               | 29                 | 2400       | 64                 | 4300      | 115                | 9800      | 263                | 16,000   | 429                |
|              |                                                                         | 60             | 4.1  |                 |      | 1250                                                                                               | 34                 | 2800       | 75                 | 5000      | 134                | 11,100    | 297                | 18,500   | 496                |
|              |                                                                         | 100            | 6.9  | 15              | 1.0  | 1900                                                                                               | 51                 | 4400       | 118                | 7800      | 209                | 17,000    | 456                | 30,000   | 804                |
|              |                                                                         | 200            | 13.8 |                 |      | 3700                                                                                               | 99                 | 8300       | 222                | 14,000    | 375                | 31,000    | 831                | 57,000   | 1528               |
|              |                                                                         | 400            | 27.6 |                 |      | 7200                                                                                               | 193                | 16,000     | 429                | 29,000    | 777                | 64,000    | 1715               | ----     | ----               |
|              |                                                                         | 500            | 34.5 |                 |      | 9200                                                                                               | 247                | 20,000     | 536                | 37,000    | 992                | 82,000    | 2198               | ----     | ----               |
|              |                                                                         | 600            | 41.4 |                 |      | 11,000                                                                                             | 295                | 23,000     | 616                | 42,000    | 1126               | ----      | ----               | ----     | ----               |
|              |                                                                         | 1000           | 69.0 |                 |      | 18,000                                                                                             | 482                | 40,000     | 1072               | 71,000    | 1903               | ----      | ----               | ----     | ----               |
|              |                                                                         | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 60,000     | 1608               | ----      | ----               | ----      | ----               | ----     | ----               |

- continued -

# Bulletin 71.1:630

**Table 4. 2-Inch / DN 50 Body Capacities (Based on 20% Droop) (continued)**

|              | OUTLET PRESSURE RANGE, SPRING PART NUMBER, AND COLOR                  | INLET PRESSURE |      | OUTLET PRESSURE |     | 2-INCH / DN 50 BODY CAPACITIES IN SCFH / Nm³/h OF 0.6 SPECIFIC GRAVITY OF NATURAL GAS |       |            |       |           |       |           |       |          |       |
|--------------|-----------------------------------------------------------------------|----------------|------|-----------------|-----|---------------------------------------------------------------------------------------|-------|------------|-------|-----------|-------|-----------|-------|----------|-------|
|              |                                                                       |                |      |                 |     | Orifice Size, Inches / mm                                                             |       |            |       |           |       |           |       |          |       |
|              |                                                                       |                |      |                 |     | 1/8 / 3.2                                                                             |       | 3/16 / 4.8 |       | 1/4 / 6.4 |       | 3/8 / 9.5 |       | 1/2 / 13 |       |
|              |                                                                       | psig           | bar  | psig            | bar | SCFH                                                                                  | Nm³/h | SCFH       | Nm³/h | SCFH      | Nm³/h | SCFH      | Nm³/h | SCFH     | Nm³/h |
| LOW PRESSURE | 8 to 20 psig / 0.55 to 1.4 bar<br><br>0W019127022<br><br>Olive Drab   | 30             | 2.1  | 20              | 1.4 | 700                                                                                   | 19    | 1600       | 43    | 2600      | 70    | 5200      | 139   | 9200     | 247   |
|              |                                                                       | 40             | 2.8  |                 |     | 900                                                                                   | 24    | 2100       | 56    | 3500      | 94    | 7500      | 201   | 12,000   | 322   |
|              |                                                                       | 50             | 3.4  |                 |     | 1100                                                                                  | 29    | 2400       | 64    | 4300      | 115   | 9400      | 252   | 15,000   | 402   |
|              |                                                                       | 60             | 4.1  |                 |     | 1250                                                                                  | 34    | 2800       | 75    | 5100      | 137   | 11,000    | 295   | 18,000   | 482   |
|              |                                                                       | 100            | 6.9  |                 |     | 1900                                                                                  | 51    | 4300       | 115   | 7800      | 209   | 17,000    | 456   | 29,000   | 777   |
|              |                                                                       | 200            | 13.8 |                 |     | 3700                                                                                  | 99    | 8200       | 220   | 14,000    | 375   | 32,000    | 858   | 59,000   | 1581  |
|              |                                                                       | 400            | 27.6 |                 |     | 7300                                                                                  | 196   | 16,000     | 429   | 28,000    | 750   | 63,000    | 1688  | ----     | ----  |
|              |                                                                       | 500            | 34.5 |                 |     | 9100                                                                                  | 244   | 19,300     | 517   | 35,500    | 951   | 78,800    | 2112  | ----     | ----  |
|              |                                                                       | 600            | 41.4 |                 |     | 11,000                                                                                | 295   | 24,000     | 643   | 43,000    | 1152  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1000           | 69.0 |                 |     | 17,700                                                                                | 474   | 39,200     | 1051  | 71,600    | 1919  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1500           | 103  |                 |     | 27,000                                                                                | 724   | 60,000     | 1608  | ----      | ----  | ----      | ----  | ----     | ----  |
|              | 17 to 30 psig / 1.17 to 2.1 bar<br><br>0W019027022<br><br>Silver      | 30             | 2.1  | 20              | 1.4 | 680                                                                                   | 18    | 1300       | 35    | 2100      | 56    | 3500      | 94    | 6000     | 161   |
|              |                                                                       | 40             | 2.8  |                 |     | 890                                                                                   | 24    | 1800       | 48    | 2800      | 75    | 5100      | 137   | 8200     | 220   |
|              |                                                                       | 50             | 3.4  |                 |     | 1000                                                                                  | 27    | 2300       | 62    | 3700      | 99    | 6200      | 166   | 10,000   | 268   |
|              |                                                                       | 60             | 4.1  |                 |     | 1200                                                                                  | 32    | 2700       | 72    | 4300      | 115   | 7400      | 198   | 12,500   | 335   |
|              |                                                                       | 100            | 6.9  |                 |     | 1900                                                                                  | 51    | 4200       | 113   | 6900      | 185   | 12,000    | 322   | 24,000   | 643   |
|              |                                                                       | 200            | 13.8 |                 |     | 3500                                                                                  | 94    | 8000       | 214   | 13,000    | 348   | 32,000    | 858   | 56,000   | 1501  |
|              |                                                                       | 400            | 27.6 |                 |     | 7100                                                                                  | 190   | 15,000     | 402   | 28,000    | 750   | 63,000    | 1688  | ----     | ----  |
|              |                                                                       | 500            | 34.5 |                 |     | 8900                                                                                  | 239   | 19,200     | 515   | 35,500    | 951   | 78,800    | 2112  | ----     | ----  |
|              |                                                                       | 600            | 41.4 |                 |     | 10,000                                                                                | 268   | 24,000     | 643   | 42,000    | 1126  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1000           | 69.0 |                 |     | 17,700                                                                                | 474   | 39,200     | 1051  | 70,600    | 1892  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1500           | 103  |                 |     | 27,000                                                                                | 724   | 60,000     | 1608  | ----      | ----  | ----      | ----  | ----     | ----  |
|              |                                                                       | 40             | 2.8  | 30              | 2.1 | 860                                                                                   | 23    | 1800       | 48    | 2900      | 78    | 5300      | 142   | 8500     | 228   |
|              |                                                                       | 50             | 3.4  |                 |     | 1000                                                                                  | 27    | 2300       | 62    | 3800      | 102   | 7300      | 196   | 11,000   | 295   |
|              |                                                                       | 60             | 4.1  |                 |     | 1200                                                                                  | 32    | 2700       | 72    | 4700      | 126   | 8900      | 239   | 14,000   | 375   |
|              |                                                                       | 100            | 6.9  |                 |     | 1800                                                                                  | 48    | 4200       | 113   | 7800      | 209   | 16,000    | 429   | 28,000   | 750   |
|              |                                                                       | 200            | 13.8 |                 |     | 3600                                                                                  | 96    | 8100       | 217   | 14,000    | 375   | 24,000    | 643   | 58,000   | 1554  |
|              |                                                                       | 400            | 27.6 |                 |     | 7000                                                                                  | 188   | 16,000     | 429   | 28,000    | 750   | 64,000    | 1715  | ----     | ----  |
|              |                                                                       | 500            | 34.5 |                 |     | 8900                                                                                  | 239   | 19,100     | 512   | 34,900    | 935   | 80,900    | 2168  | ----     | ----  |
|              |                                                                       | 600            | 41.4 |                 |     | 10,000                                                                                | 268   | 23,000     | 616   | 42,000    | 1126  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1000           | 69.0 |                 |     | 18,400                                                                                | 493   | 39,800     | 1067  | 70,900    | 1900  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1500           | 103  |                 |     | 27,000                                                                                | 724   | 61,000     | 1635  | ----      | ----  | ----      | ----  | ----     | ----  |
|              | 27 to 40 psig / 1.9 to 2.8 bar<br><br>0Y066427022<br><br>Green Stripe | 40             | 2.8  | 30              | 2.1 | 850                                                                                   | 23    | 1600       | 43    | 2600      | 70    | 4500      | 121   | 7200     | 193   |
|              |                                                                       | 50             | 3.4  |                 |     | 1000                                                                                  | 27    | 2200       | 59    | 3500      | 94    | 5900      | 158   | 9700     | 260   |
|              |                                                                       | 60             | 4.1  |                 |     | 1200                                                                                  | 32    | 2600       | 70    | 4200      | 113   | 7300      | 196   | 12,000   | 322   |
|              |                                                                       | 100            | 6.9  |                 |     | 1800                                                                                  | 48    | 4200       | 113   | 6900      | 185   | 12,000    | 322   | 23,000   | 616   |
|              |                                                                       | 200            | 13.8 |                 |     | 3600                                                                                  | 96    | 8100       | 217   | 13,000    | 348   | 24,000    | 643   | 57,000   | 1528  |
|              |                                                                       | 400            | 27.6 |                 |     | 7000                                                                                  | 188   | 15,000     | 402   | 28,000    | 750   | 64,000    | 1715  | ----     | ----  |
|              |                                                                       | 500            | 34.5 |                 |     | 8900                                                                                  | 239   | 18,800     | 504   | 34,900    | 935   | 80,200    | 2149  | ----     | ----  |
|              |                                                                       | 600            | 41.4 |                 |     | 10,000                                                                                | 268   | 23,000     | 616   | 42,000    | 1126  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1000           | 69.0 |                 |     | 18,400                                                                                | 493   | 39,700     | 1064  | 70,800    | 1897  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1500           | 103  |                 |     | 27,000                                                                                | 724   | 61,000     | 1635  | ----      | ----  | ----      | ----  | ----     | ----  |
|              |                                                                       | 50             | 3.4  | 40              | 2.8 | 1000                                                                                  | 27    | 2100       | 56    | 3400      | 91    | 5900      | 158   | 9900     | 265   |
|              |                                                                       | 60             | 4.1  |                 |     | 1200                                                                                  | 32    | 2600       | 70    | 4300      | 115   | 7900      | 212   | 12,000   | 322   |
|              |                                                                       | 100            | 6.9  |                 |     | 1900                                                                                  | 51    | 4300       | 115   | 7200      | 193   | 13,000    | 348   | 24,000   | 643   |
|              |                                                                       | 200            | 13.8 |                 |     | 3600                                                                                  | 96    | 8200       | 220   | 14,000    | 375   | 30,000    | 804   | 56,000   | 1501  |
|              |                                                                       | 400            | 27.6 |                 |     | 7200                                                                                  | 193   | 16,000     | 429   | 28,000    | 750   | 63,000    | 1688  | ----     | ----  |
|              |                                                                       | 500            | 34.5 |                 |     | 8900                                                                                  | 239   | 19,600     | 525   | 35,100    | 941   | 79,400    | 2128  | ----     | ----  |
|              |                                                                       | 600            | 41.4 |                 |     | 10,000                                                                                | 268   | 23,000     | 616   | 42,000    | 1126  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1000           | 69.0 |                 |     | 17,300                                                                                | 464   | 39,400     | 1056  | 70,200    | 1881  | ----      | ----  | ----     | ----  |
|              |                                                                       | 1500           | 103  |                 |     | 27,000                                                                                | 724   | 61,000     | 1635  | ----      | ----  | ----      | ----  | ----     | ----  |

- continued -

**Table 4. 2-Inch / DN 50 Body Capacities (Based on 20% Droop) (continued)**

| HIGH PRESSURE | OUTLET PRESSURE RANGE, SPRING PART NUMBER, AND COLOR                | INLET PRESSURE |      | OUTLET PRESSURE |      | 2-INCH / DN 50 BODY CAPACITIES IN SCFH / Nm³/h OF 0.6 SPECIFIC GRAVITY OF NATURAL GAS |       |            |       |           |       |           |       |          |       |
|---------------|---------------------------------------------------------------------|----------------|------|-----------------|------|---------------------------------------------------------------------------------------|-------|------------|-------|-----------|-------|-----------|-------|----------|-------|
|               |                                                                     |                |      |                 |      | Orifice Size, Inches / mm                                                             |       |            |       |           |       |           |       |          |       |
|               |                                                                     |                |      |                 |      | 1/8 / 3.2                                                                             |       | 3/16 / 4.8 |       | 1/4 / 6.4 |       | 3/8 / 9.5 |       | 1/2 / 13 |       |
|               |                                                                     | psig           | bar  | psig            | bar  | SCFH                                                                                  | Nm³/h | SCFH       | Nm³/h | SCFH      | Nm³/h | SCFH      | Nm³/h | SCFH     | Nm³/h |
|               |                                                                     |                |      |                 |      |                                                                                       |       |            |       |           |       |           |       |          |       |
|               | 27 to 50 psig / 1.9 to 3.4 bar<br><br>0W019227022<br><br>Red Stripe | 60             | 4.1  | 50              | 3.4  | 1000                                                                                  | 27    | 2100       | 56    | 3200      | 86    | 5300      | 142   | 12,000   | 322   |
|               |                                                                     | 100            | 6.9  |                 |      | 1800                                                                                  | 48    | 3600       | 96    | 5800      | 155   | 10,000    | 268   | 21,000   | 563   |
|               |                                                                     | 200            | 13.8 |                 |      | 3600                                                                                  | 96    | 7900       | 212   | 12,000    | 322   | 21,000    | 563   | 55,000   | 1474  |
|               |                                                                     | 300            | 20.7 |                 |      | 5500                                                                                  | 147   | 11,000     | 295   | 19,000    | 509   | 48,000    | 1286  | 83,000   | 2224  |
|               |                                                                     | 400            | 27.6 |                 |      | 7000                                                                                  | 188   | 15,000     | 402   | 27,000    | 724   | 63,000    | 1688  | -----    | ----- |
|               |                                                                     | 500            | 34.5 |                 |      | 8800                                                                                  | 236   | 19,000     | 509   | 34,300    | 919   | 79,700    | 2136  | -----    | ----- |
|               |                                                                     | 600            | 41.4 |                 |      | 10,000                                                                                | 268   | 23,000     | 616   | 42,000    | 1126  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 18,000                                                                                | 482   | 39,900     | 1069  | 70,400    | 1887  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 27,000                                                                                | 724   | 60,000     | 1608  | -----     | ----- | -----     | ----- | -----    | ----- |
|               | 46 to 95 psig / 3.2 to 6.6 bar<br><br>0W019127022<br><br>Olive Drab | 60             | 4.1  | 50              | 3.4  | 900                                                                                   | 24    | 1600       | 43    | 2500      | 67    | 4400      | 118   | 7300     | 196   |
|               |                                                                     | 100            | 6.9  |                 |      | 1600                                                                                  | 43    | 3400       | 91    | 4300      | 115   | 7600      | 204   | 12,000   | 322   |
|               |                                                                     | 200            | 13.8 |                 |      | 3500                                                                                  | 94    | 6700       | 180   | 9600      | 257   | 16,000    | 429   | 27,000   | 724   |
|               |                                                                     | 300            | 20.7 |                 |      | 5300                                                                                  | 142   | 10,000     | 268   | 14,000    | 375   | 27,000    | 724   | 51,000   | 1367  |
|               |                                                                     | 400            | 27.6 |                 |      | 6900                                                                                  | 185   | 13,000     | 348   | 21,000    | 563   | 46,000    | 1233  | -----    | ----- |
|               |                                                                     | 500            | 34.5 |                 |      | 8700                                                                                  | 233   | 16,300     | 437   | 26,300    | 705   | 73,300    | 1964  | -----    | ----- |
|               |                                                                     | 600            | 41.4 |                 |      | 10,000                                                                                | 268   | 20,000     | 536   | 35,000    | 938   | -----     | ----- | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 17,100                                                                                | 458   | 38,700     | 1037  | 68,800    | 1844  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 26,000                                                                                | 697   | 59,000     | 1581  | -----     | ----- | -----     | ----- | -----    | ----- |
|               |                                                                     | 100            | 6.9  | 75              | 5.17 | 1800                                                                                  | 48    | 3300       | 88    | 5200      | 139   | 9000      | 241   | 14,000   | 375   |
|               |                                                                     | 200            | 13.8 |                 |      | 3600                                                                                  | 96    | 7400       | 198   | 11,000    | 295   | 19,000    | 509   | 30,000   | 804   |
|               |                                                                     | 300            | 20.7 |                 |      | 5400                                                                                  | 145   | 10,000     | 268   | 16,000    | 429   | 27,000    | 724   | 44,000   | 1179  |
|               |                                                                     | 400            | 27.6 |                 |      | 7200                                                                                  | 193   | 15,000     | 402   | 24,000    | 643   | -----     | ----- | -----    | ----- |
|               |                                                                     | 500            | 34.5 |                 |      | 8700                                                                                  | 233   | 19,000     | 509   | 31,400    | 842   | -----     | ----- | -----    | ----- |
|               |                                                                     | 600            | 41.4 |                 |      | 10,000                                                                                | 268   | 23,000     | 616   | 39,000    | 1045  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 17,600                                                                                | 472   | 39,000     | 1045  | 69,300    | 1857  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 24,000                                                                                | 643   | 60,000     | 1608  | -----     | ----- | -----     | ----- | -----    | ----- |
|               | 90 to 150 psig / 6.2 to 10.3 bar<br><br>0W019027022<br><br>Silver   | 150            | 10.3 | 100             | 6.9  | 2600                                                                                  | 70    | 4900       | 131   | 7400      | 198   | 12,000    | 322   | 18,000   | 482   |
|               |                                                                     | 200            | 13.8 |                 |      | 3700                                                                                  | 99    | 6900       | 185   | 10,000    | 268   | 17,000    | 456   | 27,000   | 724   |
|               |                                                                     | 300            | 20.7 |                 |      | 5400                                                                                  | 145   | 10,000     | 268   | 16,000    | 429   | 27,000    | 724   | 44,000   | 1179  |
|               |                                                                     | 400            | 27.6 |                 |      | 7200                                                                                  | 193   | 14,000     | 375   | 21,000    | 563   | 39,000    | 1045  | -----    | ----- |
|               |                                                                     | 500            | 34.5 | 125             | 8.62 | 8600                                                                                  | 230   | 17,500     | 469   | 27,500    | 737   | 54,000    | 1447  | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 17,200                                                                                | 461   | 38,600     | 1034  | 66,000    | 1769  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 27,000                                                                                | 724   | 59,000     | 1581  | -----     | ----- | -----     | ----- | -----    | ----- |
|               |                                                                     | 150            | 10.3 |                 |      | 2500                                                                                  | 67    | 5000       | 134   | 8100      | 217   | 12,000    | 322   | 20,000   | 536   |
|               |                                                                     | 200            | 13.8 |                 |      | 3600                                                                                  | 96    | 7400       | 198   | 11,000    | 295   | 19,000    | 509   | 30,000   | 804   |
|               |                                                                     | 300            | 20.7 |                 |      | 5300                                                                                  | 142   | 11,000     | 295   | 17,000    | 456   | 31,000    | 831   | 48,000   | 1286  |
|               |                                                                     | 400            | 27.6 |                 |      | 7000                                                                                  | 188   | 15,000     | 402   | 24,000    | 643   | 43,000    | 1152  | 65,000   | 1742  |
|               |                                                                     | 500            | 34.5 |                 |      | 8800                                                                                  | 236   | 19,000     | 509   | 30,000    | 804   | 59,000    | 1581  | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 17,000                                                                                | 456   | 39,000     | 1045  | 69,300    | 1857  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 27,000                                                                                | 724   | 60,000     | 1608  | -----     | ----- | -----     | ----- | -----    | ----- |
|               |                                                                     | 200            | 13.8 | 150             | 10.3 | 3500                                                                                  | 94    | 7300       | 196   | 11,000    | 295   | 18,000    | 482   | 30,000   | 804   |
|               |                                                                     | 300            | 20.7 |                 |      | 5400                                                                                  | 145   | 11,000     | 295   | 19,000    | 509   | 32,000    | 858   | 52,000   | 1394  |
|               |                                                                     | 400            | 27.6 |                 |      | 7200                                                                                  | 193   | 15,000     | 402   | 26,000    | 697   | 46,000    | 1233  | 77,000   | 2064  |
|               |                                                                     | 500            | 34.5 |                 |      | 8600                                                                                  | 230   | 19,800     | 531   | 32,800    | 879   | 62,500    | 1675  | -----    | ----- |
|               |                                                                     | 800            | 55.2 |                 |      | 14,000                                                                                | 375   | 30,000     | 804   | 54,000    | 1447  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 18,000                                                                                | 482   | 39,100     | 1048  | 67,700    | 1814  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 27,000                                                                                | 724   | 60,000     | 1608  | -----     | ----- | -----     | ----- | -----    | ----- |
|               |                                                                     | 200            | 13.8 | 150             | 10.3 | 3500                                                                                  | 94    | 6900       | 185   | 10,000    | 268   | 17,000    | 456   | 28,000   | 750   |
|               |                                                                     | 300            | 20.7 |                 |      | 5400                                                                                  | 145   | 11,000     | 295   | 17,000    | 456   | 28,000    | 750   | 47,000   | 1260  |
|               |                                                                     | 400            | 27.6 |                 |      | 7200                                                                                  | 193   | 15,000     | 402   | 24,000    | 643   | 40,000    | 1072  | 66,000   | 1769  |
|               |                                                                     | 500            | 34.5 |                 |      | 8500                                                                                  | 228   | 18,300     | 490   | 30,250    | 811   | 53,000    | 1420  | -----    | ----- |
|               |                                                                     | 800            | 55.2 |                 |      | 14,000                                                                                | 375   | 30,000     | 804   | 51,000    | 1367  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 17,400                                                                                | 466   | 38,600     | 1034  | 66,400    | 1780  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 27,000                                                                                | 724   | 60,000     | 1608  | -----     | ----- | -----     | ----- | -----    | ----- |
|               |                                                                     | 200            | 13.8 | 150             | 10.3 | 3500                                                                                  | 94    | 6900       | 185   | 10,000    | 268   | 17,000    | 456   | 28,000   | 750   |
|               |                                                                     | 300            | 20.7 |                 |      | 5400                                                                                  | 145   | 11,000     | 295   | 17,000    | 456   | 28,000    | 750   | 47,000   | 1260  |
|               |                                                                     | 400            | 27.6 |                 |      | 7200                                                                                  | 193   | 15,000     | 402   | 24,000    | 643   | 40,000    | 1072  | 66,000   | 1769  |
|               |                                                                     | 500            | 34.5 |                 |      | 8500                                                                                  | 228   | 18,300     | 490   | 30,250    | 811   | 53,000    | 1420  | -----    | ----- |
|               |                                                                     | 800            | 55.2 |                 |      | 14,000                                                                                | 375   | 30,000     | 804   | 51,000    | 1367  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 17,400                                                                                | 466   | 38,600     | 1034  | 66,400    | 1780  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 27,000                                                                                | 724   | 60,000     | 1608  | -----     | ----- | -----     | ----- | -----    | ----- |
|               |                                                                     | 200            | 13.8 | 150             | 10.3 | 3500                                                                                  | 94    | 6900       | 185   | 10,000    | 268   | 17,000    | 456   | 28,000   | 750   |
|               |                                                                     | 300            | 20.7 |                 |      | 5400                                                                                  | 145   | 11,000     | 295   | 17,000    | 456   | 28,000    | 750   | 47,000   | 1260  |
|               |                                                                     | 400            | 27.6 |                 |      | 7200                                                                                  | 193   | 15,000     | 402   | 24,000    | 643   | 40,000    | 1072  | 66,000   | 1769  |
|               |                                                                     | 500            | 34.5 |                 |      | 8500                                                                                  | 228   | 18,300     | 490   | 30,250    | 811   | 53,000    | 1420  | -----    | ----- |
|               |                                                                     | 800            | 55.2 |                 |      | 14,000                                                                                | 375   | 30,000     | 804   | 51,000    | 1367  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 17,400                                                                                | 466   | 38,600     | 1034  | 66,400    | 1780  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 27,000                                                                                | 724   | 60,000     | 1608  | -----     | ----- | -----     | ----- | -----    | ----- |
|               |                                                                     | 200            | 13.8 | 150             | 10.3 | 3500                                                                                  | 94    | 6900       | 185   | 10,000    | 268   | 17,000    | 456   | 28,000   | 750   |
|               |                                                                     | 300            | 20.7 |                 |      | 5400                                                                                  | 145   | 11,000     | 295   | 17,000    | 456   | 28,000    | 750   | 47,000   | 1260  |
|               |                                                                     | 400            | 27.6 |                 |      | 7200                                                                                  | 193   | 15,000     | 402   | 24,000    | 643   | 40,000    | 1072  | 66,000   | 1769  |
|               |                                                                     | 500            | 34.5 |                 |      | 8500                                                                                  | 228   | 18,300     | 490   | 30,250    | 811   | 53,000    | 1420  | -----    | ----- |
|               |                                                                     | 800            | 55.2 |                 |      | 14,000                                                                                | 375   | 30,000     | 804   | 51,000    | 1367  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1000           | 69.0 |                 |      | 17,400                                                                                | 466   | 38,600     | 1034  | 66,400    | 1780  | -----     | ----- | -----    | ----- |
|               |                                                                     | 1500           | 103  |                 |      | 27,000                                                                                | 724   | 60,000     | 1608  | -----     | ----- | -----     | ----- | -----    | ----- |
|               |                                                                     | 200            | 13.8 | 150             | 10.3 | 3500                                                                                  | 94    | 6900       | 185   | 10,000    | 268   | 17,000    | 456   | 28,000   | 750   |
|               |                                                                     | 300            | 20.7 |                 |      | 5400                                                                                  | 145   | 11,000     | 295   | 17,000    | 456   | 28,000    | 750   | 47,000   | 1260  |

# Bulletin 71.1:630

**Table 4. 2-Inch / DN 50 Body Capacities (Based on 20% Droop) (continued)**

|               | OUTLET PRESSURE RANGE, SPRING PART NUMBER, AND COLOR                       | INLET PRESSURE |      | OUTLET PRESSURE |      | 2-INCH / DN 50 BODY CAPACITIES IN SCFH / Nm <sup>3</sup> /h OF 0.6 SPECIFIC GRAVITY OF NATURAL GAS |                    |            |                    |           |                    |           |                    |          |                    |
|---------------|----------------------------------------------------------------------------|----------------|------|-----------------|------|----------------------------------------------------------------------------------------------------|--------------------|------------|--------------------|-----------|--------------------|-----------|--------------------|----------|--------------------|
|               |                                                                            |                |      |                 |      | Orifice Size, Inches / mm                                                                          |                    |            |                    |           |                    |           |                    |          |                    |
|               |                                                                            |                |      |                 |      | 1/8 / 3.2                                                                                          |                    | 3/16 / 4.8 |                    | 1/4 / 6.4 |                    | 3/8 / 9.5 |                    | 1/2 / 13 |                    |
|               |                                                                            | psig           | bar  | psig            | bar  | SCFH                                                                                               | Nm <sup>3</sup> /h | SCFH       | Nm <sup>3</sup> /h | SCFH      | Nm <sup>3</sup> /h | SCFH      | Nm <sup>3</sup> /h | SCFH     | Nm <sup>3</sup> /h |
| HIGH PRESSURE | 150 to 200 psig / 10.3 to 13.8 bar<br><br>0Y066427022<br><br>Green Stripe  | 250            | 17.2 | 200             | 13.8 | 4300                                                                                               | 115                | 9100       | 244                | 13,000    | 348                | 23,000    | 616                | 42,000   | 1126               |
|               |                                                                            | 300            | 20.7 |                 |      | 5300                                                                                               | 142                | 11,000     | 295                | 18,000    | 482                | 33,000    | 884                | 52,000   | 1394               |
|               |                                                                            | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 23,000     | 616                | 40,000    | 1072               | 75,000    | 2010               | ----     | ----               |
|               |                                                                            | 700            | 48.3 |                 |      | 12,000                                                                                             | 322                | 27,000     | 724                | 47,000    | 1260               | 90,000    | 2412               | ----     | ----               |
|               |                                                                            | 800            | 55.2 |                 |      | 14,000                                                                                             | 375                | 31,000     | 831                | 54,000    | 1447               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1000           | 69.0 |                 |      | 17,000                                                                                             | 456                | 39,000     | 1045               | 69,000    | 1849               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1200           | 82.7 |                 |      | 21,000                                                                                             | 563                | 48,000     | 1286               | 83,000    | 2224               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 60,000     | 1608               | ----      | ----               | ----      | ----               | ----     | ----               |
|               | 150 to 275 psig / 10.3 to 19.0 bar<br><br>1J146927142<br><br>Blue Stripe   | 250            | 17.2 | 200             | 13.8 | 4300                                                                                               | 115                | 8900       | 239                | 12,000    | 322                | 23,000    | 616                | 35,000   | 938                |
|               |                                                                            | 300            | 20.7 |                 |      | 5300                                                                                               | 142                | 11,000     | 295                | 18,000    | 482                | 33,000    | 831                | 46,000   | 1233               |
|               |                                                                            | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 23,000     | 616                | 38,000    | 1018               | 70,000    | 1876               | ----     | ----               |
|               |                                                                            | 700            | 48.3 |                 |      | 12,000                                                                                             | 322                | 27,000     | 724                | 45,000    | 1206               | 83,000    | 2224               | ----     | ----               |
|               |                                                                            | 800            | 55.2 | 250             | 17.2 | 14,000                                                                                             | 375                | 31,000     | 831                | 52,000    | 1394               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1000           | 69.0 |                 |      | 17,000                                                                                             | 456                | 39,000     | 1045               | 68,000    | 1822               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1200           | 82.7 |                 |      | 20,000                                                                                             | 536                | 46,000     | 1233               | 83,000    | 2224               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 60,000     | 1608               | ----      | ----               | ----      | ----               | ----     | ----               |
|               |                                                                            | 300            | 20.7 | 275             | 19.0 | 5000                                                                                               | 134                | 10,000     | 268                | 17,000    | 456                | 30,000    | 804                | 52,000   | 1394               |
|               |                                                                            | 400            | 27.6 |                 |      | 7100                                                                                               | 190                | 15,000     | 402                | 25,000    | 670                | 47,000    | 1260               | 76,000   | 2037               |
|               |                                                                            | 500            | 34.5 |                 |      | 8600                                                                                               | 230                | 19,000     | 509                | 34,000    | 911                | 62,000    | 1662               | 103,000  | 2760               |
|               |                                                                            | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 23,000     | 616                | 41,000    | 1099               | 78,000    | 2090               | ----     | ----               |
|               |                                                                            | 1000           | 69.0 | 300             | 20.7 | 17,000                                                                                             | 456                | 40,000     | 1072               | 68,000    | 1822               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 60,000     | 1608               | ----      | ----               | ----      | ----               | ----     | ----               |
|               |                                                                            | 300            | 20.7 |                 |      | 4800                                                                                               | 129                | 10,000     | 268                | 17,000    | 456                | 29,000    | 777                | 43,000   | 1152               |
|               |                                                                            | 400            | 27.6 |                 |      | 7000                                                                                               | 188                | 15,000     | 402                | 26,000    | 697                | 47,000    | 1260               | 73,000   | 1956               |
|               |                                                                            | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 23,000     | 616                | 40,800    | 1093               | 81,900    | 2195               | ----     | ----               |
|               |                                                                            | 1000           | 69.0 |                 |      | 17,000                                                                                             | 456                | 40,000     | 1072               | 68,000    | 1822               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1500           | 103  |                 |      | 26,000                                                                                             | 697                | 61,000     | 1635               | ----      | ----               | ----      | ----               | ----     | ----               |
|               | 275 to 500 psig / 19.0 to 34.5 bar<br><br>1K370927082<br><br>Yellow Stripe | 300            | 20.7 | 275             | 19.0 | 4600                                                                                               | 123                | 8400       | 225                | 13,000    | 348                | 23,000    | 616                | 37,000   | 992                |
|               |                                                                            | 400            | 27.6 |                 |      | 7000                                                                                               | 188                | 13,000     | 348                | 20,000    | 536                | 32,000    | 858                | 53,000   | 1420               |
|               |                                                                            | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 23,000     | 616                | 40,800    | 1093               | 81,900    | 2195               | ----     | ----               |
|               |                                                                            | 1000           | 69.0 |                 |      | 18,000                                                                                             | 482                | 37,000     | 992                | 57,000    | 1528               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1500           | 103  | 300             | 20.7 | 27,000                                                                                             | 724                | 57,000     | 1528               | ----      | ----               | ----      | ----               | ----     | ----               |
|               |                                                                            | 400            | 27.6 |                 |      | 7000                                                                                               | 188                | 13,000     | 348                | 21,000    | 563                | 35,000    | 938                | 54,000   | 1447               |
|               |                                                                            | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 21,000     | 563                | 34,000    | 911                | 59,000    | 1581               | ----     | ----               |
|               |                                                                            | 700            | 48.3 |                 |      | 12,000                                                                                             | 322                | 26,000     | 697                | 40,000    | 1072               | 72,000    | 1930               | ----     | ----               |
|               |                                                                            | 800            | 55.2 |                 |      | 14,000                                                                                             | 375                | 29,000     | 777                | 47,000    | 1260               | 81,000    | 2171               | ----     | ----               |
|               |                                                                            | 1000           | 69.0 | 400             | 27.6 | 15,800                                                                                             | 423                | 33,200     | 890                | 53,600    | 1436               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1300           | 89.6 |                 |      | 23,000                                                                                             | 616                | 50,000     | 1340               | 80,000    | 2144               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 58,000     | 1554               | ----      | ----               | ----      | ----               | ----     | ----               |
|               |                                                                            | 500            | 34.5 |                 |      | 8800                                                                                               | 236                | 17,000     | 456                | 28,000    | 750                | 49,000    | 1313               | 77,000   | 2064               |
|               |                                                                            | 600            | 41.4 |                 |      | 10,300                                                                                             | 276                | 22,300     | 598                | 36,000    | 965                | 66,300    | 1777               | 100,300  | 2688               |
|               |                                                                            | 800            | 55.2 |                 |      | 14,000                                                                                             | 375                | 31,000     | 831                | 51,000    | 1367               | 95,000    | 2546               | ----     | ----               |
|               |                                                                            | 900            | 62.1 |                 |      | 16,000                                                                                             | 429                | 36,000     | 965                | 58,000    | 1554               | 110,000   | 2948               | ----     | ----               |
|               |                                                                            | 1000           | 69.0 | 500             | 34.5 | 18,000                                                                                             | 482                | 40,000     | 1072               | 66,000    | 1769               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1200           | 82.7 |                 |      | 21,000                                                                                             | 563                | 48,000     | 1286               | 80,000    | 2144               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1400           | 96.5 |                 |      | 25,000                                                                                             | 670                | 57,000     | 1528               | 96,000    | 2573               | ----      | ----               | ----     | ----               |
|               |                                                                            | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 61,000     | 1635               | ----      | ----               | ----      | ----               | ----     | ----               |
|               |                                                                            | 550            | 37.9 | 500             | 34.5 | 9000                                                                                               | 241                | 18,000     | 482                | 30,000    | 804                | 53,000    | 1420               | 89,000   | 2385               |
|               |                                                                            | 600            | 41.4 |                 |      | 10,000                                                                                             | 268                | 20,800     | 557                | 34,500    | 925                | 62,300    | 1670               | 102,000  | 2734               |
|               |                                                                            | 900            | 62.1 |                 |      | 16,000                                                                                             | 429                | 35,000     | 938                | 60,000    | 1608               | 113,000   | 3028               | ----     | ----               |
|               |                                                                            | 1000           | 69.0 |                 |      | 18,000                                                                                             | 482                | 40,000     | 1072               | 67,000    | 1796               | 130,000   | 3484               | ----     | ----               |
|               |                                                                            | 1500           | 103  |                 |      | 27,000                                                                                             | 724                | 60,000     | 1608               | 82,000    | 2198               | ----      | ----               | ----     | ----               |

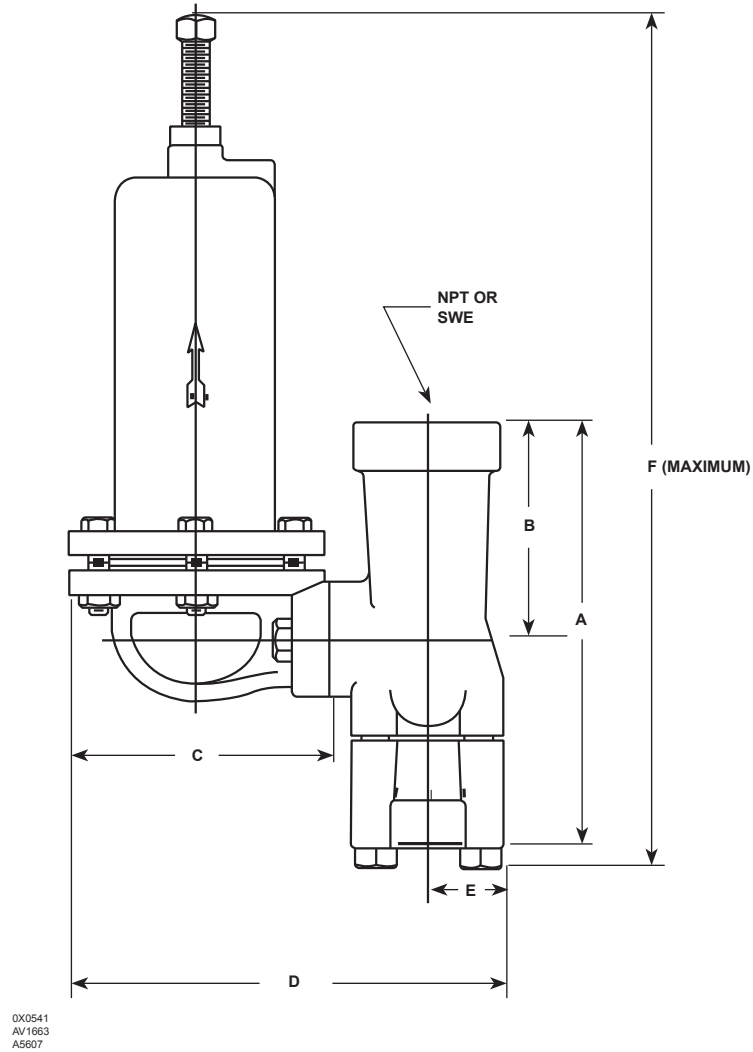


Figure 4. NPT Dimensions

Table 5. NPT Dimensions

| BODY SIZE               |    | NPT DIMENSIONS |     |        |     |        |     |        |     |        |    |        |     |
|-------------------------|----|----------------|-----|--------|-----|--------|-----|--------|-----|--------|----|--------|-----|
|                         |    | A              |     | B      |     | C      |     | D      |     | E      |    | F      |     |
| Low-Pressure Regulator  |    |                |     |        |     |        |     |        |     |        |    |        |     |
| INCH                    | DN | Inches         | mm  | Inches | mm  | Inches | mm  | Inches | mm  | Inches | mm | Inches | mm  |
| 1                       | 25 | 7.38           | 187 | 3.69   | 94  | 7.19   | 183 | 10.31  | 262 | 1.38   | 35 | 15.88  | 403 |
| 2                       | 50 | 7.88           | 200 | 3.94   | 100 | 7.19   | 183 | 10.94  | 278 | 2.00   | 51 | 16.38  | 416 |
| High-Pressure Regulator |    |                |     |        |     |        |     |        |     |        |    |        |     |
| 1                       | 25 | 7.38           | 187 | 3.69   | 94  | 4.69   | 119 | 7.81   | 198 | 1.38   | 35 | 15.88  | 403 |
| 2                       | 50 | 7.88           | 200 | 3.94   | 100 | 4.69   | 119 | 8.44   | 214 | 2.00   | 51 | 16.38  | 416 |

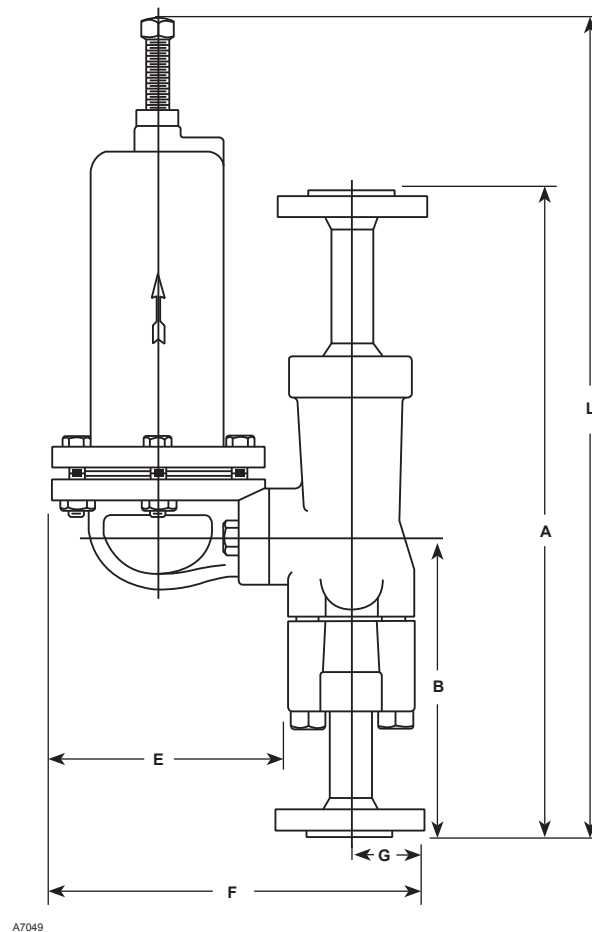


Figure 5. Flanged Dimensions

Table 6. Flanged Dimensions

| BODY SIZE               |    | FLANGED DIMENSIONS |     |        |     |        |     |        |     |                    |     |        |      |                    |      |        |     |
|-------------------------|----|--------------------|-----|--------|-----|--------|-----|--------|-----|--------------------|-----|--------|------|--------------------|------|--------|-----|
|                         |    | A                  |     | B      |     | E      |     | F      |     |                    |     | G      |      |                    |      | L      |     |
|                         |    |                    |     |        |     |        |     | CL150  |     | CL300<br>and CL600 |     | CL150  |      | CL300<br>and CL600 |      |        |     |
| Low-Pressure Regulator  |    |                    |     |        |     |        |     |        |     |                    |     |        |      |                    |      |        |     |
| INCH                    | DN | Inches             | mm  | Inches | mm  | Inches | mm  | Inches | mm  | Inches             | mm  | Inches | mm   | Inches             | mm   | Inches | mm  |
| 1                       | 25 | 17.9               | 455 | 8      | 203 | 7.2    | 183 | 11.1   | 282 | 11.4               | 290 | 2.1    | 53.3 | 2.4                | 61.0 | 20.7   | 526 |
| 2                       | 50 | 19.9               | 505 | 9      | 229 | 7.2    | 183 | 11.9   | 302 | 12.2               | 310 | 3.0    | 76.2 | 3.3                | 83.8 | 21.9   | 556 |
| High-Pressure Regulator |    |                    |     |        |     |        |     |        |     |                    |     |        |      |                    |      |        |     |
| 1                       | 25 | 17.9               | 455 | 8      | 203 | 4.7    | 119 | 8.6    | 218 | 8.9                | 226 | 2.1    | 53.3 | 2.4                | 61.0 | 21.2   | 538 |
| 2                       | 50 | 19.9               | 505 | 11.2   | 284 | 4.7    | 119 | 9.4    | 239 | 9.7                | 246 | 3.0    | 76.2 | 3.3                | 83.8 | 21.4   | 544 |

## Ordering Information

Then, carefully review each specification and complete the Ordering Guide below. To ensure ordering accuracy, please complete the Specifications Worksheet at the bottom of this page.

## Ordering Guide

### Body Size (Select One)

- ☐ 1-Inch / DN 25\*\*  
☐ 2-Inch / DN 50\*\*

### Body Material and End Connection Style (Select One)

#### Steel

- ☐ CL150 RF\*\*  
☐ CL150 RF\*\*  
☐ CL300 RF\*\*  
☐ CL600 RF\*\*

#### Cast Iron

- ☐ NPT\*\*\*

### Trim Material (Select One)

- ☐ Brass\*\*\*  
☐ Stainless steel\*\*

### Disk and Holder Material (Select One)

- ☐ Nitrile (NBR) and brass\*\*\*  
☐ Nitrile (NBR) and stainless steel\*  
☐ Nylon (PA) and brass\*\*  
☐ Nylon (PA) and stainless steel\*

### Orifice Material (Select One)

- ☐ Brass\*\*\*  
☐ Stainless steel\*

### Orifice Size (Select One)

- ☐ 1/8-inch / 3.2 mm\*\*  
☐ 3/16-inch / 4.8 mm\*\*  
☐ 1/4-inch / 6.4 mm\*\*  
☐ 3/8-inch / 9.5 mm\*\*  
☐ 1/2-inch / 13 mm\*\*

### Outlet Pressure Range (Select One)

- ☐ 3 to 10 psig / 0.21 to 0.69 bar, Red stripe\*\*  
☐ 8 to 20 psig / 0.55 to 1.4 bar, Olive green\*\*  
☐ 17 to 30 psig / 1.17 to 2.1 bar, Unpainted\*\*  
☐ 27 to 40 psig / 1.9 to 2.8 bar, Green stripe\*\*  
☐ 27 to 50 psig / 1.9 to 3.4 bar, Red stripe\*\*  
☐ 46 to 95 psig / 3.2 to 6.6 bar, Olive green\*\*  
☐ 90 to 150 psig / 6.2 to 10.3 bar, Unpainted\*\*  
☐ 150 to 200 psig / 10.3 to 13.8 bar, Green stripe\*\*  
☐ 200 to 275 psig / 13.8 to 19.0 bar, Blue stripe\*\*  
☐ 275 to 500 psig / 19.0 to 34.5 bar, Yellow stripe\*\*

### Replacement Parts Kit (Optional)

- ☐ Yes, send one replacement parts kit to match this order.

| Regulators Quick Order Guide                                                                                                            |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| ***                                                                                                                                     | Readily Available for Shipment                                                                       |
| **                                                                                                                                      | Allow Additional Time for Shipment                                                                   |
| *                                                                                                                                       | Special Order, Constructed from Non-Stocked Parts. Consult your local Sales Office for Availability. |
| Availability of the product being ordered is determined by the component with the longest shipping time for the requested construction. |                                                                                                      |

### Specification Worksheet

#### Application (Please designate units):

Specific Use \_\_\_\_\_

Line Size \_\_\_\_\_

Gas Type and Specific Gravity \_\_\_\_\_

Gas Temperature \_\_\_\_\_

Does the Application Require Overpressure Protection?

- ☐ Yes ☐ No If yes, which is preferred:  
☐ Relief Valve ☐ Monitor Regulator ☐ Shutoff Device

Is overpressure protection equipment selection assistance desired? \_\_\_\_\_

#### Pressure:

Maximum Inlet Pressure ( $P_{1max}$ ) \_\_\_\_\_

Minimum Inlet Pressure ( $P_{1min}$ ) \_\_\_\_\_

Downstream Pressure Setting(s) ( $P_2$ ) \_\_\_\_\_

Maximum Flow ( $Q_{max}$ ) \_\_\_\_\_

#### Performance Required:

Accuracy Requirements? \_\_\_\_\_

Need for Extremely Fast Response? \_\_\_\_\_

Other Requirements: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Industrial Regulators

### Emerson Process Management Regulator Technologies, Inc.

USA - Headquarters  
McKinney, Texas 75069-1872, USA  
Tel: +1 800 558 5853  
Outside U.S. +1 972 548 3574

Asia-Pacific  
Shanghai 201206, China  
Tel: +86 21 2892 9000

Europe  
Bologna 40013, Italy  
Tel: +39 051 419 0611

Middle East and Africa  
Dubai, United Arab Emirates  
Tel: +971 4811 8100

## Natural Gas Technologies

### Emerson Process Management Regulator Technologies, Inc.

USA - Headquarters  
McKinney, Texas 75069-1872, USA  
Tel: +1 800 558 5853  
Outside U.S. +1 972 548 3574

Asia-Pacific  
Singapore 128461, Singapore  
Tel: +65 6770 8337

Europe  
Bologna 40013, Italy  
Tel: +39 051 419 0611  
Chartres 28008, France  
Tel: +33 2 37 33 47 00

## TESCOM

### Emerson Process Management Tescom Corporation

USA - Headquarters  
Elk River, Minnesota 55330-2445, USA  
Tels: +1 763 241 3238  
+1 800 447 1250

Europe  
Selmsdorf 23923, Germany  
Tel: +49 38823 31 287

Asia-Pacific  
Shanghai 201206, China  
Tel: +86 21 2892 9499

For further information visit [www.fisherregulators.com](http://www.fisherregulators.com)

The Emerson logo is a trademark and service mark of Emerson Electric Co. All other marks are the property of their prospective owners. Fisher is a mark owned by Fisher Controls International LLC, a business of Emerson Process Management.

*The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.*

Emerson Process Management Regulator Technologies, Inc. does not assume responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use and maintenance of any Emerson Process Management Regulator Technologies, Inc. product remains solely with the purchaser.