

# Masoneilan<sup>TM</sup> Models 525/526 Pressure Regulators

**Steam, Gas or Liquid Service**

Pressure Reducing, Back Pressure  
and Differential Pressure Control



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# Features

The **Masoneilan™ Models 525/526 double seated regulators** from Baker Hughes are designed to handle a wide variety of process pressure control applications. Construction features have been carefully selected to provide optimum performance. Those include:

## Top and Bottom Guiding

A well accepted industry standard particularly suited for double seated plugs provides adequate support against side loads.

## High Capacity with Low Recovery

Flow capacity is at top levels for contemporary double seated regulators and is attained with very little pressure recovery as indicated by a high critical flow factor.

## Reduced Capacity Trim

0.4 Factor Trim – the most practical double seated trim design provides for substantial reduction in capacity while maintaining desirable flow characteristics.

## High Performance Materials

Materials of construction have been selected for high performance and long life when subjected to the high pressure drop capabilities of the valve.

## High Temperature Applications

For temperatures over the rating of the diaphragm material, the regulator must be mounted with the actuator below the centerline of the regulator body. The diaphragm will be protected from the high temperature by a condensate barrier in the sensing line and actuator diaphragm case. If installed otherwise, an adequate condensate barrier must be incorporated. Consult factory for more information.

## Configurations

Models 525/526 Regulators are designed for use with the 10900 Series Actuators for reducing, back pressure and differential pressure applications. Refer to 10900 Actuators Technical Specifications for actuator selection. The following pages provide the necessary technical information required to specify the Models 525/526 regulators.

# General Data

## Function

|                                |        |
|--------------------------------|--------|
| Pressure Reducing              | 525    |
| Differential Pressure Reducing | 525-50 |
| Back Pressure                  | 526    |
| Differential Back Pressure     | 526-50 |

## Service

Steam, Gas, Liquids

## Body

Type: High Capacity Globe with Double Seated  
Top and Bottom Guided Plug

## Bonnet

Type: Bolted, Standard  
Bolted, Extension - optional

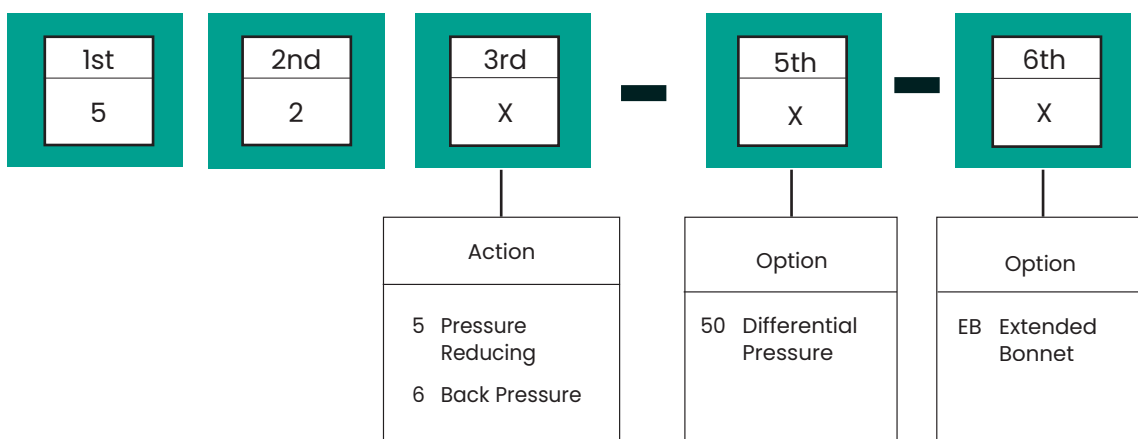
## Trim

Plug Type: Disc  
Seat Ring: Threaded  
Guide: Heavy Top and Bottom Guided  
Capacity: Full Area, Reduced Capacity in all sizes  
Characteristic: Quick Opening

## Actuator

Type: 10900 Spring Diaphragm

# Numbering System



# Body Ratings and End Connections

## 525/526 Double Seat Regulators

Flange Connections according to: ASME Class 150, 300 and 600  
ISO PN 20, 50 and 100  
EN PN 16, 25 and 40 (Face to Face according to ASME 300)

Socket Weld ends for sizes  $\leq 2$ "

NPT Threaded for sizes  $\leq 2$ "

□ RF Flanged    Δ RT Joint    ● Socket Weld    ○ Threaded

| Valve Size |     | ASME Class and Equivalent PN |         |         |
|------------|-----|------------------------------|---------|---------|
| inches     | mm  | 150                          | 300     | 600     |
| ¾          | 20  | □ ● ○                        | □ Δ ● ○ | □ Δ ● ○ |
| 1          | 25  | □ Δ ● ○                      | □ Δ ● ○ | □ Δ ● ○ |
| 1½         | 40  | □ Δ ● ○                      | □ Δ ● ○ | □ Δ ● ○ |
| 2          | 50  | □ Δ ● ○                      | □ Δ ● ○ | □ Δ ● ○ |
| 2½         | 65  | □ Δ                          | □ Δ     | □ Δ     |
| 3          | 80  | □ Δ                          | □ Δ     | □ Δ     |
| 4          | 100 | □ Δ                          | □ Δ     | □ Δ     |

# Standard Trim Materials

| Type     | Plug                                | Seat Ring                           |
|----------|-------------------------------------|-------------------------------------|
| Standard | 316 Stainless Steel                 | 316 Stainless Steel                 |
| Hard     | 316 Stainless Steel with hardfacing | 316 Stainless Steel with hardfacing |

Other options available on request. Please consult factory.

## Bonnet Packing

Packing Options 525/526 and 525/526 EB

Body Ratings: ASME Class 150 to 600

| Temperature Range |                  | -20°F                             | 450°F | 650°F |
|-------------------|------------------|-----------------------------------|-------|-------|
| Description       |                  | Materials                         |       |       |
| Packing           | Standard Bonnet  | Carbon Core/PTFE jacketed packing |       |       |
| Packing           | Extension Bonnet | Carbon Core/PTFE jacketed packing |       |       |
| Temperature Range |                  | -29°C                             | 232°C | 343°C |

## Flow Coefficients – C<sub>v</sub>

Model: 525/526

Ratings: ASME Class 150, 300, 600

| Orifice Differential Area (mm <sup>2</sup> ) |      |           |     | 45.4                 | 66.4 | 80.9 | 95.7 | 115  | 186             | 210             | 246             | 329              |
|----------------------------------------------|------|-----------|-----|----------------------|------|------|------|------|-----------------|-----------------|-----------------|------------------|
| Orifice Differential Area (in <sup>2</sup> ) |      |           |     | 0.07                 | 0.1  | 0.13 | 0.15 | 0.18 | 0.29            | 0.33            | 0.38            | 0.51             |
| Nominal Size                                 |      | Stem Size |     | Rated C <sub>v</sub> |      |      |      |      |                 |                 |                 |                  |
| mm                                           | in   | mm        | in  |                      |      |      |      |      |                 |                 |                 |                  |
| 20                                           | 0.75 | 12.7      | 0.5 | 3.6                  | 6    | -    | -    | -    | -               | -               | -               | -                |
| 25                                           | 1    | 12.7      | 0.5 | 3.6                  | 6    | 9    | -    | -    | -               | -               | -               | -                |
| 40                                           | 1.5  | 12.7      | 0.5 | -                    | -    | 8.4  | 14   | 21   | -               | -               | -               | -                |
| 50                                           | 2    | 12.7      | 0.5 | -                    | -    | -    | 14.4 | 21   | 36 <sup>1</sup> | -               | -               | -                |
| 65                                           | 2.5  | 12.7      | 0.5 | -                    | -    | -    | -    | 21   | 36 <sup>1</sup> | 54 <sup>1</sup> | -               | -                |
| 80                                           | 3    | 12.7      | 0.5 | -                    | -    | -    | -    | -    | 30 <sup>1</sup> | 54 <sup>1</sup> | 75 <sup>1</sup> | -                |
| 100                                          | 4    | 12.7      | 0.5 | -                    | -    | -    | -    | -    | -               | 50 <sup>1</sup> | 75 <sup>1</sup> | 125 <sup>1</sup> |

1. For regulator with 3 ½ actuator range 150–450 psi, 150–300 psi or 400–750 psi, the Cv is limited to 60% of the nominal Cv.

- a. 36 Cv model would be limited to 21.6 Cv.
- b. 30 Cv model would be limited to 18 Cv.
- c. 54 Cv model would be limited to 32.4 Cv.
- d. 50 Cv model would be limited to 30 Cv.
- e. 75 Cv model would be limited to 45 Cv.
- f. 125 Cv model would be limited to 75 Cv.

# Available Spring Ranges

## Pressure Reducing or Back Pressure Actuator

| Actuator Size | Travel   |      | Spring Range                                    |                                                             | Maximum Static Allowable Pressure for Actuator |       |
|---------------|----------|------|-------------------------------------------------|-------------------------------------------------------------|------------------------------------------------|-------|
| (inches)      | (inches) | (mm) | (psi)                                           | (bar)                                                       | (psi)                                          | (bar) |
| 11            | 0.375    | 9.5  | 0.5 – 2                                         | 0.03 – 0.14                                                 | 60                                             | 4.1   |
| 9             | 0.375    | 9.5  | 1.5 – 3                                         | 0.10 – 0.20                                                 | 60                                             | 4.1   |
| 9             | 0.375    | 9.5  | 2 – 10                                          | 0.14 – 0.69                                                 | 60                                             | 4.1   |
| 9             | 0.375    | 9.5  | 6 – 20                                          | 0.41 – 1.38                                                 | 60                                             | 4.1   |
| 9             | 0.375    | 9.5  | 15 – 40                                         | 1.03 – 2.76                                                 | 60                                             | 4.1   |
| 5             | 0.375    | 9.5  | 30 – 75                                         | 2.07 – 5.17                                                 | 250                                            | 17.2  |
| 4             | 0.375    | 9.5  | 60 – 125                                        | 4.14 – 8.62                                                 | 250                                            | 17.2  |
| 3-1/2         | 0.375    | 9.5  | 80 – 250                                        | 5.51 – 17.24                                                | 250                                            | 17.2  |
| 3-1/2         | 0.375    | 9.5  | 150 – 450<br>or<br>400 – 750<br>or<br>150 – 300 | 10.34 – 31.02<br>or<br>27.58 – 51.71<br>or<br>10.34 – 20.68 | 761                                            | 52.5  |

## Differential Pressure Actuator (-50 option)

### Pressure Reducing or Back Pressure Actuator

| Actuator Size | Spring Range |             | Maximum Static Allowable Pressure for Actuator |       |
|---------------|--------------|-------------|------------------------------------------------|-------|
| (inches)      | (psi)        | (bar)       | (psi)                                          | (bar) |
| 5             | 3 – 12       | 0.20 – 0.83 | 250                                            | 17.2  |
| 5             | 10 – 35      | 0.67 – 2.41 | 250                                            | 17.2  |
| 5             | 30 – 75      | 2.07 – 5.17 | 250                                            | 17.2  |
| 4             | 60 – 125     | 4.14 – 8.62 | 250                                            | 17.2  |

## High Pressure Application

| Actuator Size | Spring Range |              | Maximum Static Allowable Pressure for Actuator |       |
|---------------|--------------|--------------|------------------------------------------------|-------|
| (inches)      | (psi)        | (bar)        | (psi)                                          | (bar) |
| 5             | 3 – 15       | 0.20 – 1.03  | 600                                            | 41.4  |
| 4             | 5 – 10       | 0.34 – 2.07  | 1000                                           | 69    |
| 4             | 10 – 60      | 0.67 – 4.14  | 1000                                           | 69    |
| 5             | 30 – 80      | 2.07 – 5.86  | 600                                            | 41.4  |
| 3-1/2         | 75 – 85      | 5.15 – 12.75 | 1500                                           | 103.4 |
| 3-1/2         | 100 – 330    | 6.89 – 22.75 | 1500                                           | 103.4 |

# Regulator Capacity

Model 525 Series Pressure Reducing Regulator Capacity<sup>(1)</sup>

Model 526 Series Back Pressure Regulator Capacity<sup>(1)</sup>

Saturated Steam (lb/hr)

| Inlet Pressure<br>psig | Outlet Pressure<br>psig | Rated C <sub>v</sub> |      |      |       |       |       |
|------------------------|-------------------------|----------------------|------|------|-------|-------|-------|
|                        |                         | 6                    | 9    | 21   | 36    | 75    | 125   |
| 30                     | 0.5-10                  | 500                  | 780  | 1710 | 2930  | 6100  | 10100 |
|                        | 20                      | 360                  | 540  | 1250 | 2100  | 4450  | 7400  |
| 50                     | 0.5-20                  | 710                  | 1090 | 2500 | 4270  | 8900  | 14600 |
|                        | 30                      | 605                  | 890  | 2100 | 3550  | 7350  | 12500 |
|                        | 40                      | 440                  | 670  | 1550 | 2600  | 5500  | 9100  |
| 60                     | 0.5-25                  | 820                  | 1220 | 2930 | 4900  | 10100 | 17100 |
|                        | 40                      | 655                  | 980  | 2250 | 3900  | 8050  | 13500 |
|                        | 50                      | 470                  | 720  | 1550 | 2800  | 5850  | 97500 |
| 75                     | 0.5-30                  | 980                  | 1460 | 3420 | 5850  | 12200 | 20800 |
|                        | 50                      | 785                  | 1200 | 2700 | 4650  | 9700  | 16000 |
|                        | 60                      | 635                  | 945  | 2200 | 3750  | 7800  | 13000 |
| 100                    | 0.5-50                  | 1220                 | 1890 | 4450 | 7550  | 15800 | 26900 |
|                        | 60                      | 1100                 | 1650 | 3850 | 6550  | 14000 | 23000 |
|                        | 80                      | 810                  | 1200 | 2800 | 4800  | 10200 | 16500 |
| 125                    | 0.5-60                  | 1520                 | 2380 | 5500 | 9150  | 19500 | 31800 |
|                        | 80                      | 1300                 | 2000 | 4500 | 7700  | 16000 | 27000 |
|                        | 100                     | 1000                 | 1500 | 3550 | 6050  | 12500 | 21000 |
| 150                    | 0.5-70                  | 1830                 | 2750 | 6350 | 11000 | 23200 | 37800 |
|                        | 100                     | 1500                 | 2250 | 5150 | 8750  | 18500 | 30500 |
|                        | 125                     | 1150                 | 1600 | 3750 | 6400  | 13500 | 23000 |
| 160                    | 0.5-80                  | 1950                 | 2900 | 6800 | 11500 | 24500 | 40000 |
|                        | 100                     | 1650                 | 2500 | 5700 | 10000 | 20500 | 34500 |
|                        | 120                     | 1380                 | 2100 | 4800 | 8100  | 17200 | 28500 |
|                        | 140                     | 1070                 | 1650 | 3900 | 6550  | 14000 | 23000 |
| 175                    | 0.5-90                  | 2100                 | 3150 | 7300 | 12200 | 27000 | 44000 |
|                        | 100                     | 1900                 | 2850 | 6600 | 11000 | 24000 | 40000 |
|                        | 125                     | 1600                 | 2400 | 5600 | 9700  | 20000 | 33000 |
|                        | 160                     | 910                  | 1420 | 3240 | 5500  | 11600 | 19200 |
| 200                    | 0.5-100                 | 2450                 | 3650 | 8550 | 14500 | 30500 | 50000 |
|                        | 125                     | 2000                 | 3100 | 7250 | 12000 | 25500 | 42500 |
|                        | 160                     | 1550                 | 2350 | 5450 | 9400  | 18500 | 32500 |
| 225                    | 0.5-120                 | 2700                 | 4250 | 9400 | 16000 | 33500 | 56000 |
|                        | 160                     | 2050                 | 3100 | 7200 | 12500 | 26000 | 43000 |
| 250                    | 0.5-130                 | 2900                 | 4500 | 1000 | 17000 | 36500 | 61000 |
|                        | 160                     | 2450                 | 3750 | 8500 | 14400 | 30500 | 51000 |

1. Regulator Capacity Tables are included to provide convenience on common applications and are not intended to establish application limitations. If your particular service conditions are not listed in the Regulator Capacity Tables, calculate the required C<sub>v</sub> for selecting the optimum regulator size.

# Regulator Capacity

## Model 525 Series Pressure Reducing Regulator Capacity<sup>(1)</sup>

## Model 526 Series Back Pressure Regulator Capacity<sup>(1)</sup>

## Saturated Steam (kg/hr)

| Inlet Pressure barg | Outlet Pressure barg | Rated C <sub>v</sub> |      |      |      |       |       |
|---------------------|----------------------|----------------------|------|------|------|-------|-------|
|                     |                      | 6                    | 9    | 21   | 36   | 75    | 125   |
| 2.1                 | 0.03-0.7             | 227                  | 354  | 776  | 1329 | 2767  | 4581  |
|                     | 1.4                  | 163                  | 245  | 567  | 953  | 2018  | 3357  |
| 3.4                 | 0.03-1.4             | 322                  | 494  | 1134 | 1937 | 4037  | 6622  |
|                     | 2.1                  | 274                  | 404  | 953  | 1610 | 3334  | 5670  |
|                     | 2.8                  | 200                  | 304  | 703  | 1179 | 2495  | 4128  |
| 4.1                 | 0.03-1.7             | 372                  | 553  | 1329 | 2223 | 4581  | 7756  |
|                     | 2.8                  | 297                  | 445  | 1021 | 1769 | 3651  | 6123  |
|                     | 3.4                  | 213                  | 3237 | 703  | 1270 | 2654  | 4423  |
| 5.2                 | 0.03-2.1             | 445                  | 662  | 1551 | 2654 | 5534  | 9435  |
|                     | 3.4                  | 356                  | 544  | 1225 | 2109 | 4400  | 7257  |
|                     | 4.1                  | 288                  | 429  | 998  | 1701 | 3538  | 5897  |
| 6.9                 | 0.03-3.4             | 553                  | 857  | 2018 | 3425 | 7167  | 12202 |
|                     | 4.1                  | 499                  | 748  | 1746 | 2971 | 6350  | 10433 |
|                     | 5.5                  | 367                  | 544  | 1270 | 2177 | 4627  | 7484  |
| 8.6                 | 0.03-4.1             | 689                  | 1080 | 2495 | 4150 | 8845  | 14424 |
|                     | 5.5                  | 590                  | 907  | 2041 | 3493 | 7257  | 12247 |
|                     | 6.9                  | 454                  | 680  | 1610 | 2744 | 5670  | 9525  |
| 10.3                | 0.03-4.8             | 830                  | 1247 | 2880 | 4990 | 10523 | 17146 |
|                     | 6.9                  | 680                  | 1021 | 2336 | 3969 | 8391  | 13835 |
|                     | 8.6                  | 522                  | 726  | 1701 | 2903 | 6123  | 10433 |
| 11.0                | 0.03-5.5             | 885                  | 1315 | 3084 | 5216 | 11113 | 18144 |
|                     | 6.9                  | 748                  | 1134 | 2585 | 4536 | 9299  | 15649 |
|                     | 8.3                  | 626                  | 953  | 2177 | 3674 | 7802  | 12927 |
|                     | 9.7                  | 485                  | 748  | 1769 | 2971 | 6350  | 10433 |
| 12.1                | 0.03-6.2             | 953                  | 1429 | 3311 | 5534 | 12247 | 19958 |
|                     | 6.9                  | 862                  | 1293 | 2994 | 4990 | 10886 | 18144 |
|                     | 8.6                  | 726                  | 1089 | 2540 | 4400 | 9072  | 14969 |
|                     | 11                   | 413                  | 644  | 1470 | 2495 | 5262  | 8709  |
| 13.8                | 0.03-6.9             | 1111                 | 1656 | 3878 | 6577 | 13835 | 22680 |
|                     | 8.6                  | 907                  | 1406 | 3289 | 5443 | 11567 | 19278 |
|                     | 11                   | 703                  | 1066 | 2472 | 4264 | 8391  | 14742 |
| 15.5                | 0.03-8.3             | 1225                 | 1928 | 4264 | 7257 | 15195 | 25401 |
|                     | 11                   | 930                  | 1406 | 3266 | 5670 | 11793 | 19504 |
| 17.2                | 0.03-9.0             | 1315                 | 2041 | 4536 | 7711 | 16556 | 27669 |
|                     | 11                   | 1111                 | 1701 | 3856 | 6532 | 13835 | 23133 |

1. Regulator Capacity Tables are included to provide convenience on common applications and are not intended to establish application limitations. If your particular service conditions are not listed in the Regulator Capacity Tables, calculate the required C<sub>v</sub> for selecting the optimum regulator size.

# Regulator Capacity

Model 525 Series Pressure Reducing Regulator Capacity<sup>(1)</sup>

Model 526 Series Back Pressure Regulator Capacity<sup>(1)</sup>

Saturated Steam (scfm)

| Inlet Pressure psig | Outlet Pressure psig | Rated C <sub>v</sub> |      |      |      |       |       |
|---------------------|----------------------|----------------------|------|------|------|-------|-------|
|                     |                      | 6                    | 9    | 21   | 36   | 75    | 125   |
| 30                  | 0.5-10               | 165                  | 255  | 570  | 980  | 2020  | 3450  |
|                     | 20                   | 120                  | 175  | 425  | 705  | 1500  | 2950  |
| 50                  | 0.5-20               | 245                  | 365  | 810  | 1410 | 2940  | 5000  |
|                     | 30                   | 200                  | 295  | 695  | 1180 | 2480  | 4200  |
|                     | 40                   | 150                  | 225  | 510  | 880  | 1800  | 3100  |
| 60                  | 0.5-25               | 275                  | 405  | 950  | 1620 | 3350  | 5700  |
|                     | 40                   | 215                  | 320  | 715  | 1250 | 2600  | 4400  |
|                     | 50                   | 155                  | 240  | 545  | 940  | 2000  | 3250  |
| 75                  | 0.5-30               | 325                  | 500  | 1160 | 2000 | 4150  | 6800  |
|                     | 50                   | 2260                 | 385  | 935  | 1580 | 3300  | 5400  |
|                     | 60                   | 210                  | 315  | 725  | 1300 | 2650  | 4300  |
| 100                 | 0.5-50               | 425                  | 650  | 1490 | 2490 | 5250  | 8450  |
|                     | 60                   | 370                  | 560  | 1350 | 2250 | 4650  | 7800  |
|                     | 80                   | 270                  | 415  | 950  | 1600 | 3450  | 5700  |
| 125                 | 0.5-60               | 520                  | 770  | 1810 | 3050 | 6500  | 10800 |
|                     | 80                   | 440                  | 660  | 1500 | 2550 | 5500  | 9150  |
|                     | 100                  | 350                  | 520  | 1250 | 2100 | 4350  | 7300  |
| 150                 | 0.5-70               | 610                  | 935  | 2140 | 3680 | 7750  | 12800 |
|                     | 100                  | 500                  | 765  | 1750 | 2850 | 6050  | 10500 |
|                     | 125                  | 370                  | 540  | 1250 | 2150 | 4550  | 7550  |
| 160                 | 0.5-80               | 650                  | 975  | 2350 | 3850 | 8150  | 13400 |
|                     | 100                  | 555                  | 850  | 1950 | 3350 | 7050  | 11500 |
|                     | 120                  | 460                  | 705  | 1600 | 2750 | 5850  | 9450  |
|                     | 140                  | 340                  | 510  | 1250 | 2050 | 4250  | 7200  |
| 175                 | 0.5-90               | 710                  | 1080 | 2450 | 4250 | 8950  | 14600 |
|                     | 100                  | 645                  | 970  | 2250 | 3750 | 8000  | 13000 |
|                     | 125                  | 540                  | 825  | 1900 | 3200 | 6800  | 11500 |
|                     | 160                  | 310                  | 470  | 1100 | 1850 | 4000  | 6600  |
| 200                 | 0.5-100              | 825                  | 1220 | 2850 | 4900 | 10200 | 16600 |
|                     | 125                  | 705                  | 1050 | 2400 | 4050 | 8550  | 14500 |
|                     | 160                  | 525                  | 800  | 1850 | 3150 | 6650  | 11000 |
| 225                 | 0.5-120              | 895                  | 1340 | 3050 | 5300 | 11000 | 18600 |
|                     | 160                  | 715                  | 1100 | 2500 | 4300 | 9000  | 14500 |
| 250                 | 0.5-130              | 975                  | 1460 | 3350 | 5700 | 1200  | 19900 |
|                     | 160                  | 830                  | 1300 | 2950 | 5000 | 10500 | 17000 |

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# Regulator Capacity

## Model 525 Series Pressure Reducing Regulator Capacity<sup>(1)</sup>

## Model 526 Series Back Pressure Regulator Capacity<sup>(1)</sup>

Air (m<sup>3</sup>/hr)

| Inlet Pressure barg | Outlet Pressure barg | Rated C <sub>v</sub> |      |      |      |       |       |
|---------------------|----------------------|----------------------|------|------|------|-------|-------|
|                     |                      | 6                    | 9    | 21   | 36   | 75    | 125   |
| 2.1                 | 0.03-0.7             | 280                  | 433  | 968  | 1665 | 3432  | 5862  |
|                     | 1.4                  | 204                  | 297  | 722  | 1198 | 2549  | 5012  |
| 3.4                 | 0.03-1.4             | 416                  | 620  | 1376 | 2396 | 4995  | 8495  |
|                     | 2.1                  | 340                  | 501  | 1181 | 2005 | 4214  | 7136  |
|                     | 2.8                  | 255                  | 382  | 866  | 1495 | 3058  | 5267  |
| 4.1                 | 0.03-1.7             | 467                  | 688  | 164  | 2752 | 5692  | 9684  |
|                     | 2.8                  | 365                  | 544  | 1215 | 2124 | 4417  | 7476  |
|                     | 3.4                  | 263                  | 408  | 926  | 1597 | 33998 | 5522  |
| 5.2                 | 0.03-2.1             | 552                  | 850  | 1971 | 3398 | 7051  | 11553 |
|                     | 3.4                  | 442                  | 671  | 1589 | 2684 | 5607  | 9175  |
|                     | 4.1                  | 357                  | 535  | 1232 | 2209 | 4502  | 7306  |
| 6.9                 | 0.03-3.4             | 722                  | 1104 | 2532 | 4231 | 8920  | 14866 |
|                     | 4.1                  | 629                  | 951  | 2294 | 3823 | 7900  | 13252 |
|                     | 5.5                  | 459                  | 705  | 1614 | 2718 | 5862  | 9684  |
| 8.6                 | 0.03-4.1             | 883                  | 1308 | 3075 | 5182 | 11044 | 18349 |
|                     | 5.5                  | 748                  | 1121 | 2549 | 4332 | 9345  | 15546 |
|                     | 6.9                  | 595                  | 883  | 2124 | 3568 | 7391  | 12403 |
| 10.3                | 0.03-4.8             | 1036                 | 1589 | 3636 | 6252 | 13167 | 21747 |
|                     | 6.9                  | 850                  | 1300 | 2973 | 4842 | 10789 | 17840 |
|                     | 8.6                  | 629                  | 917  | 2124 | 3653 | 7731  | 12828 |
| 11.0                | 0.03-5.5             | 1104                 | 1657 | 3993 | 6541 | 13847 | 22767 |
|                     | 6.9                  | 943                  | 1444 | 3313 | 5692 | 11978 | 19539 |
|                     | 8.3                  | 782                  | 1198 | 2718 | 4672 | 9939  | 16565 |
|                     | 9.7                  | 578                  | 866  | 2124 | 3483 | 7221  | 12233 |
| 12.1                | 0.03-6.2             | 1206                 | 1835 | 4163 | 7221 | 15206 | 24806 |
|                     | 6.9                  | 1096                 | 1648 | 3823 | 6371 | 13592 | 22087 |
|                     | 8.6                  | 917                  | 1402 | 3228 | 5437 | 11553 | 19539 |
|                     | 11                   | 527                  | 799  | 1869 | 3143 | 6796  | 11213 |
| 13.8                | 0.03-6.9             | 1385                 | 2073 | 4842 | 8325 | 17330 | 28204 |
|                     | 8.6                  | 1198                 | 1784 | 4079 | 8661 | 14527 | 24636 |
|                     | 11                   | 892                  | 1359 | 3143 | 5352 | 11298 | 18689 |
| 15.5                | 0.03-8.3             | 1521                 | 2277 | 5182 | 9005 | 18689 | 32602 |
|                     | 11                   | 1215                 | 1869 | 4248 | 7306 | 15291 | 24636 |
| 17.2                | 0.03-9.0             | 1657                 | 2481 | 5692 | 9684 | 20728 | 33810 |
|                     | 11                   | 1410                 | 2209 | 5012 | 8495 | 17840 | 28883 |

1. Regulator Capacity Tables are included to provide convenience on common applications and are not intended to establish limitations. If your particular service conditions are not listed in the Regulator Capacity Tables, calculate the required C<sub>v</sub> for selecting the optimum regulator size.

# Regulator Capacity

Model 525 Series Pressure Reducing Regulator Capacity<sup>(1)</sup>

Model 526 Series Back Pressure Regulator Capacity<sup>(1)</sup>

Water (gpm)

| Inlet Pressure<br>Minus Outlet<br>Pressure psig | Rated C <sub>v</sub> |     |     |     |      |      |
|-------------------------------------------------|----------------------|-----|-----|-----|------|------|
|                                                 | 6                    | 9   | 21  | 36  | 75   | 125  |
| 10                                              | 18                   | 28  | 65  | 110 | 230  | 380  |
| 15                                              | 23                   | 35  | 78  | 140 | 280  | 460  |
| 20                                              | 26                   | 40  | 90  | 160 | 330  | 550  |
| 25                                              | 30                   | 45  | 100 | 180 | 370  | 600  |
| 30                                              | 33                   | 50  | 115 | 200 | 400  | 660  |
| 35                                              | 35                   | 53  | 120 | 210 | 440  | 720  |
| 40                                              | 38                   | 56  | 130 | 230 | 470  | 760  |
| 45                                              | 40                   | 60  | 140 | 240 | 500  | 800  |
| 50                                              | 42                   | 54  | 145 | 250 | 510  | 830  |
| 60                                              | 46                   | 70  | 160 | 280 | 560  | 920  |
| 70                                              | 50                   | 75  | 170 | 300 | 610  | 1000 |
| 80                                              | 54                   | 80  | 185 | 320 | 650  | 1100 |
| 90                                              | 56                   | 85  | 200 | 340 | 700  | 1160 |
| 100                                             | 60                   | 90  | 210 | 360 | 750  | 1250 |
| 120                                             | 65                   | 98  | 225 | 390 | 800  | 1300 |
| 140                                             | 70                   | 105 | 240 | 420 | 880  | 1400 |
| 160                                             | 75                   | 115 | 260 | 460 | 920  | 1500 |
| 180                                             | 80                   | 120 | 270 | 490 | 980  | 1600 |
| 210                                             | 85                   | 130 | 290 | 520 | 1050 | 1750 |
| 230                                             | 90                   | 135 | 300 | 540 | 1100 | 1800 |

1. Regulator Capacity Tables are included to provide convenience on common applications and are not intended to establish application limitations. If your particular service conditions are not listed in the Regulator Capacity Tables, calculate the required C<sub>v</sub> for selecting the optimum regulator size.

# Regulator Capacity

Model 525 Series Pressure Reducing Regulator Capacity<sup>(1)</sup>

Model 526 Series Back Pressure Regulator Capacity<sup>(1)</sup>

Water (lpm)

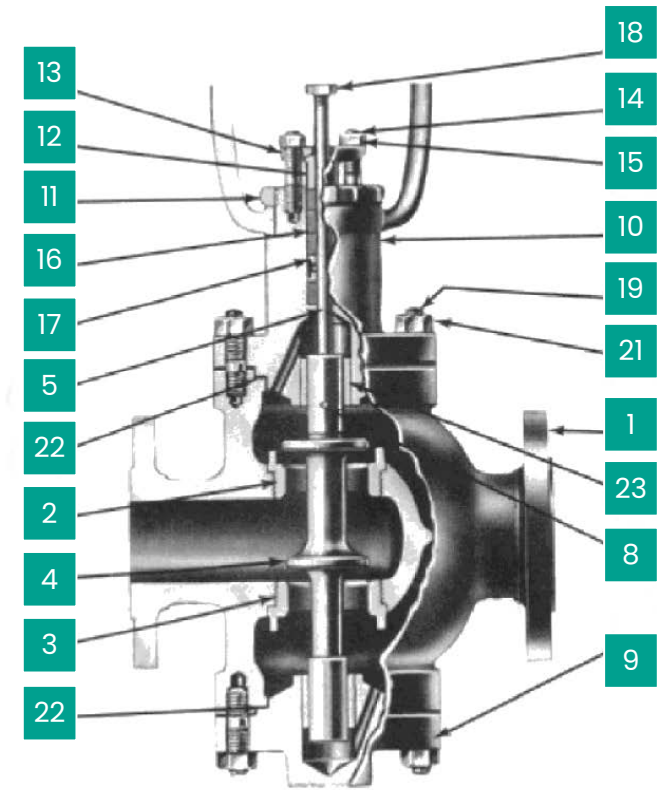
| Inlet Pressure<br>Minus Outlet<br>Pressure barg | Rated C <sub>v</sub> |     |      |      |      |      |
|-------------------------------------------------|----------------------|-----|------|------|------|------|
|                                                 | 6                    | 9   | 21   | 36   | 75   | 125  |
| 0.7                                             | 68                   | 106 | 246  | 416  | 871  | 1438 |
| 1.0                                             | 87                   | 132 | 295  | 530  | 1060 | 1741 |
| 1.4                                             | 98                   | 151 | 341  | 606  | 1249 | 2082 |
| 1.7                                             | 114                  | 170 | 379  | 681  | 1401 | 2271 |
| 2.1                                             | 125                  | 189 | 435  | 757  | 1514 | 2498 |
| 2.4                                             | 132                  | 201 | 454  | 7995 | 1666 | 2725 |
| 2.8                                             | 144                  | 212 | 492  | 871  | 1779 | 2877 |
| 3.1                                             | 151                  | 227 | 530  | 908  | 1893 | 3028 |
| 3.4                                             | 159                  | 204 | 549  | 946  | 1931 | 3142 |
| 4.1                                             | 174                  | 265 | 606  | 1060 | 2120 | 3483 |
| 4.8                                             | 189                  | 284 | 644  | 1136 | 2309 | 3785 |
| 5.5                                             | 204                  | 303 | 700  | 1211 | 2461 | 4164 |
| 6.2                                             | 212                  | 322 | 757  | 1287 | 2650 | 4391 |
| 6.9                                             | 227                  | 341 | 795  | 1363 | 2839 | 4732 |
| 8.3                                             | 246                  | 371 | 852  | 1476 | 3028 | 4921 |
| 9.7                                             | 265                  | 397 | 908  | 1590 | 3331 | 5300 |
| 11.0                                            | 284                  | 435 | 984  | 1741 | 3483 | 5678 |
| 12.4                                            | 303                  | 454 | 1022 | 1855 | 3710 | 6057 |
| 14.5                                            | 322                  | 492 | 1098 | 1968 | 3975 | 6624 |
| 15.9                                            | 341                  | 511 | 1136 | 2044 | 4164 | 6814 |

1. Regulator Capacity Tables are included to provide convenience on common applications and are not intended to establish application limitations. If your particular service conditions are not listed in the Regulator Capacity Tables, calculate the required C<sub>v</sub> for selecting the optimum regulator size.

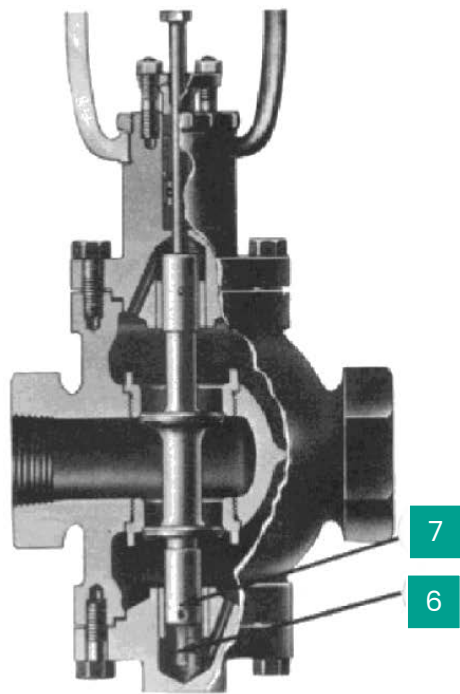
# Materials of Construction

## Body Sub-Assembly Standard Construction Materials

### 525/526 Series Standard Construction



525  
Reducing Service



526  
Back Pressure

# Materials of Construction

Carbon Steel Construction 525/526 and 525/526 EB

Valve Sizes: 0.75" to 4"  
Body Ratings: ASME Class 150 to 600

| Ref. No. | Temperature Range          | -20°F450°F650°F                                                |  |
|----------|----------------------------|----------------------------------------------------------------|--|
|          | Description                | Materials                                                      |  |
| 1        | Vavle Body                 | Carbon Steel ASTM A216 Grade WCC                               |  |
| 2        | Upper Seat Ring            | 316 Stainless Steel ASTM 479 TY 316 [163H]                     |  |
|          |                            | 316 Stainless Steel with Hardface Seat [596-]                  |  |
| 3        | Lower Seat Ring            | 316 Stainless Steel ASTM 479 TY 316 [163H]                     |  |
|          |                            | 316 Stainless Steel with Hardface Seat [596-]                  |  |
| 4        | Plug                       | 316 Stainless Steel ASTM 479 TY 316 [163H]                     |  |
|          |                            | 316 Stainless Steel with Hardface Seat [596-]                  |  |
|          |                            | 316 Stainless Steel with Hardface Seat & Guide [596-]          |  |
| 5        | Plug Stem                  | 316 Stainless Steel ASTM 479 TY 316                            |  |
| 6        | Plug Stop <sup>1</sup>     | 316 Stainless Steel ASTM 479 TY 316                            |  |
| 7        | Plug Stop Pin <sup>1</sup> | 316 Stainless Steel ASTM 479 TY 316                            |  |
| 8        | Plug Pin                   | 316 Stainless Steel ASTM 479 TY 316                            |  |
| 9        | Blind Head                 | Carbon Steel ASTM A216 Grade WCC or ASTM A105                  |  |
| 10       | Valve Bonnet <sup>2</sup>  | Carbon Steel ASTM A216 Grade WCC or ASTM A105                  |  |
| 11       | Drive Nut                  | Carbon Steel SAE 1117 or ASTM A216 GR WCC                      |  |
| 12       | Packing Follower           | Austenitic 300 Series Stainless Steel                          |  |
| 13       | Packing Flange             | Carbon Steel ASTM A105 Zinc Dichromate Plated                  |  |
| 14       | Packing Flange Stud        | 304 Stainless Steel ASTM A193 GR B8                            |  |
| 15       | Packing Flange Nut         | Stainless Steel ASTM A194 GR 8                                 |  |
| 17       | Lantern Ring (Optional)    | Austenitic 300 Series Stainless Steel                          |  |
| 18       | Stem Locknuts              | Alloy Steel ASTM A194 GR 2H Zinc dichromate plated             |  |
| 19       | Body Stud                  | Alloy Steel ASTM A193 GR B7                                    |  |
| 21       | Body Stud Nut              | Carbon Steel ASTM A194 GR 2H                                   |  |
| 22       | Body Gasket                | 316L Stainless Steel w/Flexible Graphite Filler (Spiral Wound) |  |
| 23       | Guide Bushing              | 440C Stainless Steel ASTM A276 TY 440C                         |  |
| Ref. No. | Temperature Range          | -29°C232°C343°C                                                |  |

1. The Plug stop (Ref. 6) and the Plug Stop Pin (Ref. 7) are installed in the bottom of the plug on model 526 back pressure valves with the 10900 series Actuator No. 3½ case (80–250 psi range) and No. 4 case (60–125 psi range) to prevent over-travel.

2. EB applies for temperature > of 450°F (232°C).

# Materials of Construction

Stainless Construction 525/526 and 525/526 EB

Valve Sizes: 0.75" to 4"  
Body Ratings: ASME Class 150 to 600

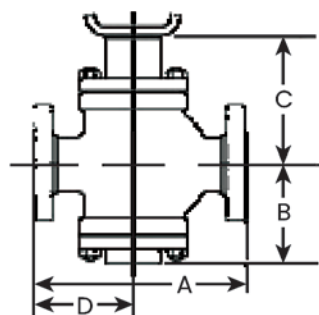
| Ref. No. | Temperature Range       | -20°F                                                            |       | 450°F | 650°F |
|----------|-------------------------|------------------------------------------------------------------|-------|-------|-------|
|          | Description             | Materials                                                        |       |       |       |
| 1        | Vavle Body              | 316 Stainless Steel ASTM A351 Grade CF8M                         |       |       |       |
| 2        | Upper Seat Ring         | 316 Stainless Steel ASTM 479 TY 316 [163H]                       |       |       |       |
|          |                         | 316 Stainless Steel with Hardface Seat [596-]                    |       |       |       |
| 3        | Lower Seat Ring         | 316 Stainless Steel ASTM 479 TY 316 [163H]                       |       |       |       |
|          |                         | 316 Stainless Steel with Hardface Seat [596-]                    |       |       |       |
| 4        | Plug                    | 316 Stainless Steel ASTM 479 TY 316 [163H]                       |       |       |       |
|          |                         | 316 Stainless Steel with Hardface Seat [596-]                    |       |       |       |
|          |                         | 316 Stainless Steel with Hardface Seat & Guide [596-]            |       |       |       |
| 5        | Plug Stem               | 316 Stainless Steel ASTM 479 TY 316                              |       |       |       |
| 6        | Plug Stop¹              | 316 Stainless Steel ASTM 479 TY 316                              |       |       |       |
| 7        | Plug Stop Pin¹          | 316 Stainless Steel ASTM 479 TY 316                              |       |       |       |
| 8        | Plug Pin                | 316 Stainless Steel ASTM 479 TY 316                              |       |       |       |
| 9        | Blind Head              | 316 Stainless Steel ASTM A351 Grade CF8M or ASTM A182 Grade F316 |       |       |       |
| 10       | Valve Bonnet²           | 316 Stainless Steel ASTM A351 Grade CF8M or ASTM A182 Grade F316 |       |       |       |
| 11       | Drive Nut               | Carbon Steel SAE 1117 or ASTM A216 GR WCC                        |       |       |       |
| 12       | Packing Follower        | Austenitic 300 Series Stainless Steel                            |       |       |       |
| 13       | Packing Flange          | Carbon Steel ASTM A105 Zinc Dichromate Plated                    |       |       |       |
| 14       | Packing Flange Stud     | 304 Stainless Steel ASTM A193 GR B8                              |       |       |       |
| 15       | Packing Flange Nut      | Stainless Steel ASTM A194 GR 8                                   |       |       |       |
| 17       | Lantern Ring (Optional) | Austenitic 300 Series Stainless Steel                            |       |       |       |
| 18       | Stem Locknuts           | Alloy Steel ASTM A194 GR 2H Zinc dichromate plated               |       |       |       |
| 19       | Body Stud               | Alloy Steel ASTM A193 GR B7 Zinc dichromate plated               |       |       |       |
|          |                         | ASTM A 193 GR B8³                                                |       |       |       |
| 21       | Body Stud Nut           | Carbon Steel ASTM A194 GR 2H Zinc dichromate plated              |       |       |       |
|          |                         | ASTM A 194 GR 8³                                                 |       |       |       |
| 22       | Body Gasket             | 316L Stainless Steel w/Flexible Graphite Filler (Spiral Wound)   |       |       |       |
| 23       | Guide Bushing           | Stellite 6 UNS 30006                                             |       |       |       |
| Ref. No. | Temperature Range       | -29°C                                                            | 232°C | 427°C | 4     |

1. The Plug stop (Ref.6) and the Plug Stop Pin (Ref.7) are installed in the bottom of the plug on model 526 back pressure valves with the 10900 series Actuator No. 3½ case (80-250 psi range) and No.4 case (60-125 psi range) to prevent over-travel.

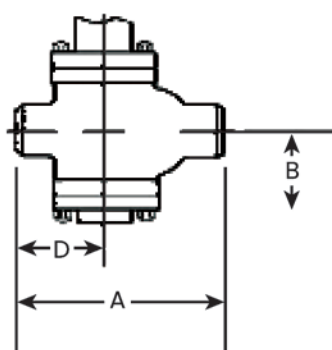
2. EB applies for temperature > of 450°F (232°C).

3. Bolting must be checked by Engineering Department.

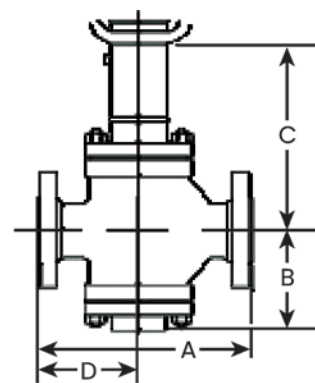
# Dimensions



Flanged Ends



Socket Weld or Threaded Ends



Extension Bonnet

## English Units (inches)

| Valve Size |     | ASME Class 150 & equivalent PN |      |       |      | ASME Class 300 & equivalent PN |      |       |      | ASME Class 600 & equivalent PN |      |       |      | ASME Class 150-600 & equivalent PN |      |
|------------|-----|--------------------------------|------|-------|------|--------------------------------|------|-------|------|--------------------------------|------|-------|------|------------------------------------|------|
| inches     | mm  | RF                             |      | RTJ   |      | RF                             |      | RTJ   |      | RF                             |      | RTJ   |      | Threaded & Socket Weld             |      |
|            |     | A                              | D    | A     | D    | A                              | D    | A     | D    | A                              | D    | A     | D    | A                                  | D    |
| ¾          | 20  | 7.25                           | 3.66 | -     | -    | 7.62                           | 3.86 | 8.11  | 4.09 | 8.12                           | 4.09 | 8.12  | 4.09 | 6.00                               | 2.88 |
| 1          | 25  | 7.25                           | 3.66 | 7.76  | 3.90 | 7.75                           | 3.90 | 8.25  | 4.13 | 8.25                           | 4.13 | 8.25  | 4.13 | 6.00                               | 2.88 |
| 1½         | 40  | 8.75                           | 4.09 | 9.26  | 4.33 | 9.25                           | 4.33 | 9.76  | 4.57 | 9.88                           | 4.65 | 9.88  | 4.65 | 8.00                               | 3.70 |
| 2          | 50  | 10.00                          | 4.61 | 10.52 | 4.88 | 10.50                          | 4.88 | 11.10 | 5.20 | 11.25                          | 5.25 | 11.38 | 5.31 | 9.25                               | 4.13 |
| 2½         | 65  | 10.87                          | 5.08 | 11.38 | 5.32 | 11.5                           | 5.39 | 12.13 | 5.71 | 12.24                          | 5.75 | 12.36 | 5.83 | -                                  | -    |
| 3          | 80  | 11.75                          | 5.50 | 12.25 | 5.75 | 12.50                          | 5.88 | 13.11 | 6.18 | 13.25                          | 6.25 | 13.38 | 6.30 | -                                  | -    |
| 4          | 100 | 13.88                          | 6.57 | 14.38 | 6.82 | 14.50                          | 6.88 | 15.12 | 7.20 | 15.50                          | 7.36 | 15.63 | 7.44 | -                                  | -    |

## Metric Units (mm)

| Valve Size |     | ASME Class 150 & equivalent PN |     |     |     | ASME Class 300 & equivalent PN |     |     |     | ASME Class 600 & equivalent PN |     |     |     | ASME Class 150-600 & equivalent PN |     |
|------------|-----|--------------------------------|-----|-----|-----|--------------------------------|-----|-----|-----|--------------------------------|-----|-----|-----|------------------------------------|-----|
| inches     | mm  | RF                             |     | RTJ |     | RF                             |     | RTJ |     | RF                             |     | RTJ |     | Threaded & Socket Weld             |     |
|            |     | A                              | D   | A   | D   | A                              | D   | A   | D   | A                              | D   | A   | D   | A                                  | D   |
| ¾          | 20  | 184                            | 93  | -   | -   | 194                            | 98  | 206 | 104 | 206                            | 104 | 206 | 104 | 153                                | 73  |
| 1          | 25  | 184                            | 93  | 197 | 99  | 197                            | 99  | 210 | 105 | 210                            | 105 | 210 | 105 | 153                                | 73  |
| 1½         | 40  | 222                            | 104 | 235 | 110 | 235                            | 110 | 248 | 116 | 251                            | 118 | 251 | 118 | 203                                | 94  |
| 2          | 50  | 254                            | 117 | 267 | 124 | 267                            | 124 | 282 | 132 | 286                            | 133 | 289 | 135 | 235                                | 105 |
| 2½         | 65  | 276                            | 129 | 289 | 135 | 292                            | 137 | 308 | 145 | 311                            | 146 | 314 | 148 | -                                  | -   |
| 3          | 80  | 298                            | 140 | 311 | 146 | 318                            | 149 | 333 | 157 | 337                            | 159 | 340 | 160 | -                                  | -   |
| 4          | 100 | 353                            | 167 | 365 | 173 | 368                            | 175 | 384 | 183 | 394                            | 187 | 397 | 189 | -                                  | -   |

# B and C Dimensions

## English Units (inches)

| Valve Size |     | ASME Class 150 – 600 & equivalent PN |                 |               |
|------------|-----|--------------------------------------|-----------------|---------------|
| inches     | mm  | B                                    | C (Std. Bonnet) | C (EB Bonnet) |
| ¾          | 20  | 4.49                                 | 5.67            | 9.72          |
| 1          | 25  | 4.49                                 | 5.67            | 9.72          |
| 1½         | 40  | 5.39                                 | 6.02            | 10.67         |
| 2          | 50  | 5.98                                 | 7.20            | 11.42         |
| 2½         | 65  | 6.89                                 | 8.58            | 13.07         |
| 3          | 80  | 7.80                                 | 9.29            | 13.11         |
| 4          | 100 | 8.11                                 | 9.49            | 13.74         |

## Metric Units (mm)

| Valve Size |     | ASME Class 150 – 600 & equivalent PN |                 |               |
|------------|-----|--------------------------------------|-----------------|---------------|
| inches     | mm  | B                                    | C (Std. Bonnet) | C (EB Bonnet) |
| ¾          | 20  | 114                                  | 144             | 247           |
| 1          | 25  | 114                                  | 144             | 247           |
| 1½         | 40  | 137                                  | 153             | 271           |
| 2          | 50  | 152                                  | 183             | 290           |
| 2½         | 65  | 175                                  | 218             | 332           |
| 3          | 80  | 198                                  | 236             | 333           |
| 4          | 100 | 206                                  | 241             | 349           |

# Weights

## Body Sub-assemblies (lbs)

| Valve Size |     | ASME Class 150-600 & equivalent PN | ASME Class 150 & equivalent PN | ASME Class 300 & equivalent PN | ASME Class 600 & equivalent PN |
|------------|-----|------------------------------------|--------------------------------|--------------------------------|--------------------------------|
| inches     | mm  | Threaded & Socket Weld             | Flanged                        |                                |                                |
| ¾          | 20  | 40                                 | 79                             | 79                             | 90                             |
| 1          | 25  | 44                                 | 86                             | 86                             | 99                             |
| 1½         | 40  | 44                                 | 106                            | 110                            | 119                            |
| 2          | 50  | 51                                 | 150                            | 159                            | 174                            |
| 2½         | 65  | -                                  | 174                            | 185                            | 196                            |
| 3          | 80  | 110                                | 245                            | 256                            | 269                            |
| 4          | 100 | 192                                | 304                            | 309                            | 335                            |

## Body Sub-assemblies (kg)

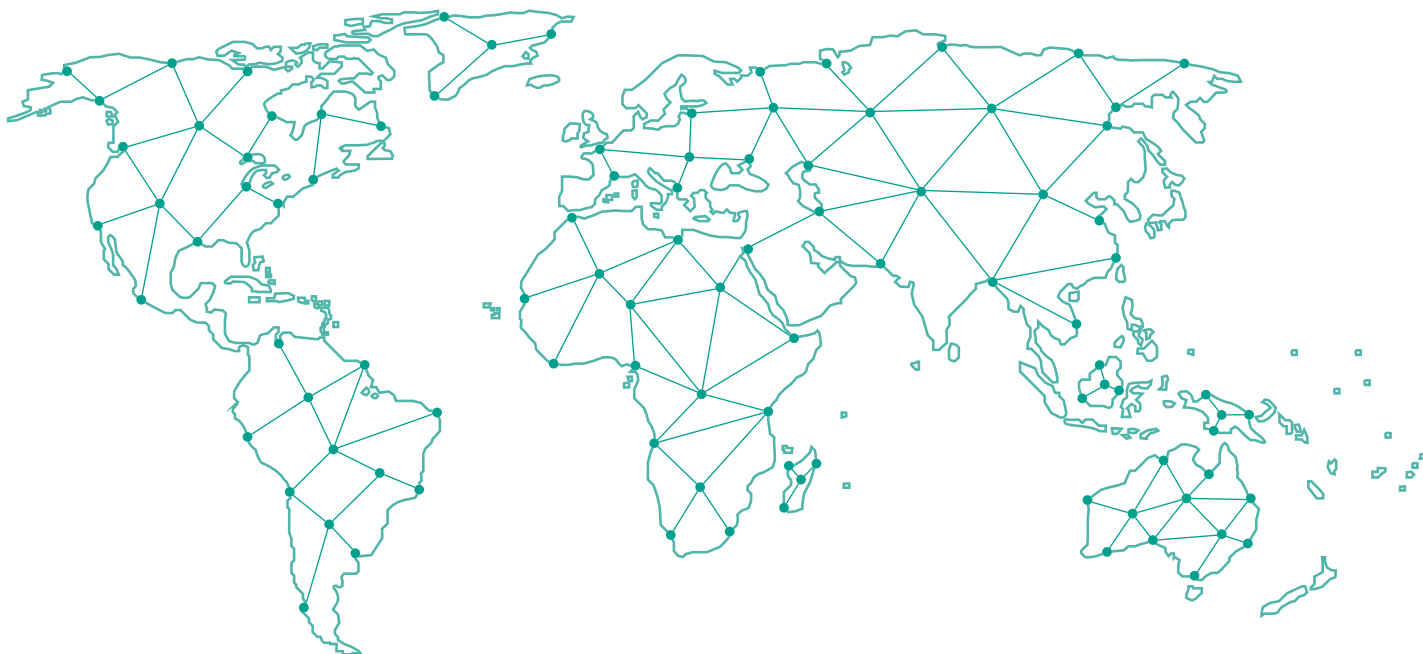
| Valve Size |     | ASME Class 150-600 & equivalent PN | ASME Class 150 & equivalent PN | ASME Class 300 & equivalent PN | ASME Class 600 & equivalent PN |
|------------|-----|------------------------------------|--------------------------------|--------------------------------|--------------------------------|
| inches     | mm  | Threaded & Socket Weld             | Flanged                        |                                |                                |
| ¾          | 20  | 18                                 | 36                             | 35                             | 41                             |
| 1          | 25  | 20                                 | 39                             | 39                             | 45                             |
| 1½         | 40  | 20                                 | 48                             | 50                             | 54                             |
| 2          | 50  | 23                                 | 68                             | 72                             | 79                             |
| 2½         | 65  | -                                  | 79                             | 84                             | 89                             |
| 3          | 80  | 50                                 | 111                            | 116                            | 122                            |
| 4          | 100 | 87                                 | 138                            | 140                            | 152                            |

## Notes

[illegible]

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