

## Pressure Regulators

TRUSTED  
**SINCE 1958**  
WORLDWIDE

Precise.

Quality.

Reliable.



## Mallard Control Model 5600 Pressure Regulator Valve

### Features

- > Easy maintenance
- > Variety of flow capacities
- > Rugged construction
- > Excellent control at low pressure settings
- > NACE compliance
- > Suitable for air and gas

### Specifications

Model 5600 pressure regulator  
End connections  
1" & 2" NPT female  
Operating temperature  
-20° to 150°F (-29° to 65°C)

The model 5600 pressure regulator pressure relief valve is spring-loaded, self-operated and available in 1" and 2" sizes. It provides economical control of air, natural gas and a variety of other gases and is built to withstand the most difficult processes and

environments. It is designed for inlet pressures up to 1500 psig and outlet pressures from 27 to 500 psig. Model 5600 is well suited for high pressure, high capacity applications.



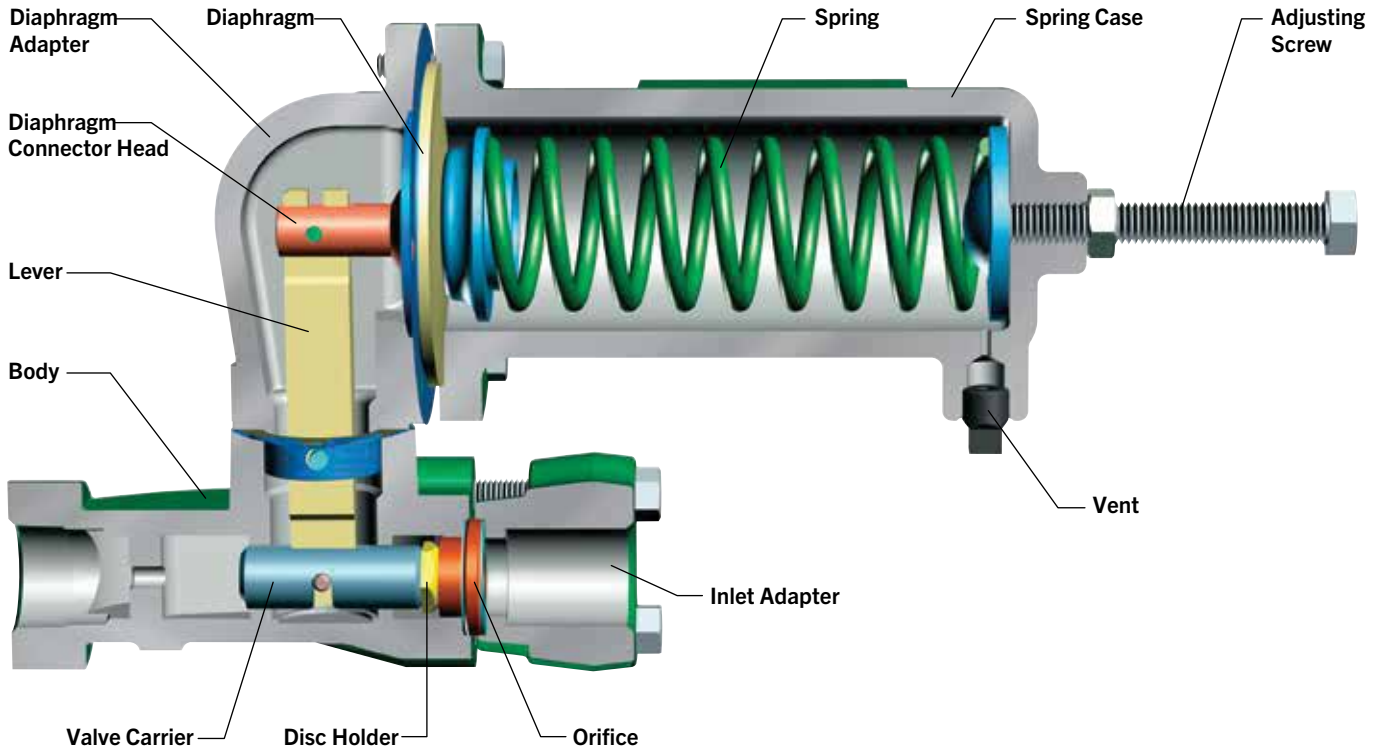
*Model 5600  
Pressure Regulator*

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## Mallard Control Model 5600 Pressure Regulator Valve

### Component Parts



### Materials of Construction

| Description       | Material                          |
|-------------------|-----------------------------------|
| Body              | Ductile Iron<br>Steel (Optional)  |
| Inlet Adapter     | Steel                             |
| Diaphragm Adapter | Ductile Iron<br>Steel (Optional)  |
| Spring Case       | Ductile Iron<br>Steel (Optional)  |
| Orifice           | Brass<br>Stainless Steel (Opt.)   |
| Valve Disc        | Nylon or TFE<br>Viton® (Optional) |

| Description              | Material                                               |
|--------------------------|--------------------------------------------------------|
| Disc Holder              | Brass<br>Stainless Steel (Opt.)                        |
| Valve Carrier            | Brass<br>Stainless Steel (Opt.)                        |
| Diaphragm                | Buna-N<br>(Embedded Nylon Fabric)<br>Viton® (Optional) |
| Lever                    | Steel                                                  |
| Diaphragm Connector Head | Brass<br>Stainless Steel (Opt.)                        |

### Flow Coefficients (C<sub>v</sub>)

| Port Diameter (in.) | Flow Coefficient (C <sub>v</sub> ) |
|---------------------|------------------------------------|
| 1/8                 | 0.49                               |
| 3/16                | 1.11                               |
| 1/4                 | 2.03                               |
| 3/8                 | 4.61                               |
| 1/2                 | 8.18                               |

## Mallard Control Model 5600 Pressure Regulator Flow Capacities

Pressure, scfh of 0.6 Specific Gravity Gas, Based on 20% Droop

| Inlet<br>Pressure<br>(psig) | Outlet<br>Pressure<br>(psig) | Port Diameter (in.) |        |        |        |        |        |        |        |        |        |
|-----------------------------|------------------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             |                              | 1" NPT              |        |        |        |        | 2" NPT |        |        |        |        |
|                             |                              | 1/8                 | 3/16   | 1/4    | 3/8    | 1/2    | 1/8    | 3/16   | 1/4    | 3/8    | 1/2    |
| 60                          | 50                           | 900                 | 2000   | 3100   | 5200   | 8100   | 1000   | 2100   | 3200   | 5300   | 12,000 |
| 75                          |                              | 1300                | 2800   | 3800   | 7200   | 10,000 | 1400   | 2900   | 3900   | 7300   | 16,000 |
| 100                         |                              | 1700                | 3500   | 5700   | 10,500 | 13,000 | 1800   | 3600   | 5800   | 10,000 | 21,000 |
| 150                         |                              | 2600                | 5700   | 8700   | 13,000 | 17,000 | 2700   | 5800   | 9000   | 15,000 | 36,000 |
| 200                         |                              | 3500                | 7800   | 11,000 | 16,000 | 19,000 | 3600   | 7900   | 12,000 | 21,000 | 55,000 |
| 300                         |                              | 5300                | 10,500 | 14,000 | 20,000 | 23,000 | 5500   | 11,000 | 19,000 | 48,000 | 83,000 |
| 400                         |                              | 6900                | 13,000 | 17,000 | 23,000 | —      | 7000   | 15,000 | 27,000 | 63,000 | —      |
| 550                         |                              | 9600                | 16,000 | 20,000 | 26,000 | —      | 9700   | 21,000 | 38,000 | 88,000 | —      |
| 600                         |                              | 9800                | 17,000 | 21,000 | —      | —      | 10,000 | 23,000 | 42,000 | —      | —      |
| 1050                        |                              | 17,000              | 23,000 | 27,000 | —      | —      | 19,000 | 42,000 | 74,000 | —      | —      |
| 1500                        |                              | 19,000              | 25,000 | —      | —      | —      | 27,000 | 60,000 | —      | —      | —      |
| 60                          | 50                           | 800                 | 1500   | 2400   | 4300   | 6400   | 900    | 1600   | 2500   | 4400   | 7300   |
| 75                          |                              | 1200                | 2100   | 3100   | 5500   | 8000   | 1300   | 2200   | 3200   | 6100   | 9300   |
| 100                         |                              | 1500                | 3100   | 4200   | 7500   | 10,000 | 1600   | 3400   | 4300   | 7600   | 12,000 |
| 150                         |                              | 2400                | 4500   | 6700   | 11,000 | 14,000 | 2500   | 4600   | 7100   | 12,000 | 19,000 |
| 200                         |                              | 3400                | 6600   | 9400   | 14,000 | 17,000 | 3500   | 6700   | 9600   | 16,000 | 27,000 |
| 300                         |                              | 5200                | 8900   | 11,000 | 16,000 | 20,000 | 5300   | 10,000 | 14,000 | 27,000 | 51,000 |
| 400                         |                              | 6800                | 11,000 | 15,000 | 20,000 | —      | 6900   | 13,000 | 21,000 | 46,000 | —      |
| 550                         |                              | 9500                | 13,000 | 17,000 | 23,000 | —      | 9600   | 18,000 | 29,000 | 87,000 | —      |
| 600                         |                              | 9800                | 14,000 | 19,000 | —      | —      | 10,000 | 20,000 | 35,000 | —      | —      |
| 1050                        |                              | 14,000              | 19,000 | 22,000 | —      | —      | 18,000 | 41,000 | 73,000 | —      | —      |
| 1500                        |                              | 18,000              | 24,000 | —      | —      | —      | 26,000 | 59,000 | —      | —      | —      |
| 100                         | 75                           | 1700                | 3200   | 5000   | 8000   | 13,000 | 1800   | 3300   | 5200   | 9000   | 14,000 |
| 125                         |                              | 2200                | 4300   | 6700   | 10,000 | 15,000 | 2300   | 4400   | 6900   | 11,000 | 18,000 |
| 200                         |                              | 3500                | 7300   | 10,000 | 16,000 | 22,000 | 3600   | 7400   | 11,000 | 19,000 | 30,000 |
| 250                         |                              | 4400                | 9400   | 13,000 | 19,000 | 24,000 | 4500   | 9500   | 14,000 | 26,000 | 44,000 |
| 325                         |                              | 5700                | 11,000 | 16,000 | 23,000 | 27,000 | 5800   | 12,000 | 18,000 | 36,000 | 67,000 |
| 400                         |                              | 7100                | 14,000 | 19,000 | 27,000 | —      | 7200   | 15,000 | 24,000 | 47,000 | —      |
| 575                         |                              | 9700                | 18,000 | 23,000 | 30,000 | —      | 9800   | 22,000 | 37,000 | 92,000 | —      |
| 600                         |                              | 9900                | 19,000 | 25,000 | —      | —      | 10,000 | 23,000 | 39,000 | —      | —      |
| 1075                        |                              | 18,000              | 27,000 | 32,000 | —      | —      | 19,000 | 42,000 | 75,000 | —      | —      |
| 1500                        |                              | 23,000              | 32,000 | —      | —      | —      | 24,000 | 60,000 | —      | —      | —      |
| 125                         | 100                          | 2000                | 3600   | 5500   | 9200   | 13,000 | 2100   | 3700   | 5600   | 9800   | 15,000 |
| 150                         |                              | 2500                | 4600   | 6800   | 11,000 | 16,000 | 2600   | 4900   | 7400   | 12,000 | 18,000 |
| 200                         |                              | 3600                | 6600   | 9400   | 13,000 | 22,000 | 3700   | 6900   | 10,000 | 17,000 | 27,000 |
| 250                         |                              | 4400                | 8500   | 11,000 | 18,000 | 26,000 | 4500   | 8700   | 13,000 | 22,000 | 34,000 |
| 300                         |                              | 5300                | 9800   | 14,000 | 21,000 | 30,000 | 5400   | 10,000 | 16,000 | 27,000 | 44,000 |
| 350                         |                              | 6100                | 10,000 | 16,000 | 25,000 | 32,000 | 6300   | 12,000 | 19,000 | 33,000 | 57,000 |
| 400                         |                              | 7000                | 13,000 | 18,000 | 27,000 | —      | 7200   | 14,000 | 21,000 | 39,000 | —      |
| 600                         |                              | 9500                | 18,000 | 23,000 | 35,000 | —      | 10,000 | 21,000 | 34,000 | 69,000 | —      |
| 1100                        |                              | 19,500              | 28,000 | 35,000 | —      | —      | 19,000 | 43,000 | 74,000 | —      | —      |
| 1500                        |                              | 25,000              | 35,000 | —      | —      | —      | 27,000 | 59,000 | —      | —      | —      |
| 150                         | 125                          | 2400                | 4600   | 6700   | 11,000 | 17,000 | 2500   | 5000   | 8100   | 12,000 | 20,000 |
| 200                         |                              | 3500                | 6800   | 10,000 | 15,000 | 23,000 | 3600   | 7400   | 11,000 | 19,000 | 30,000 |
| 250                         |                              | 4300                | 8900   | 12,000 | 19,000 | 29,000 | 4400   | 9400   | 14,000 | 24,000 | 39,000 |
| 300                         |                              | 5200                | 10,000 | 15,000 | 25,000 | 34,000 | 5300   | 11,000 | 17,000 | 31,000 | 48,000 |
| 375                         |                              | 6600                | 13,000 | 18,500 | 28,000 | 39,000 | 6600   | 13,600 | 21,400 | 38,300 | 59,400 |
| 400                         |                              | 7300                | 14,500 | 19,000 | 29,000 | —      | 7300   | 15,000 | 24,000 | 43,000 | 65,000 |
| 500                         |                              | 7900                | 15,000 | 25,000 | 36,000 | —      | 8800   | 19,000 | 30,000 | 59,000 | —      |
| 625                         |                              | 10,000              | 22,000 | 29,000 | 41,000 | —      | 11,000 | 24,000 | 40,000 | 79,000 | —      |
| 1125                        |                              | 18,000              | 33,000 | 42,000 | —      | —      | 19,000 | 44,000 | 79,000 | —      | —      |
| 1500                        |                              | 26,000              | 43,000 | —      | —      | —      | 27,000 | 60,000 | —      | —      | —      |

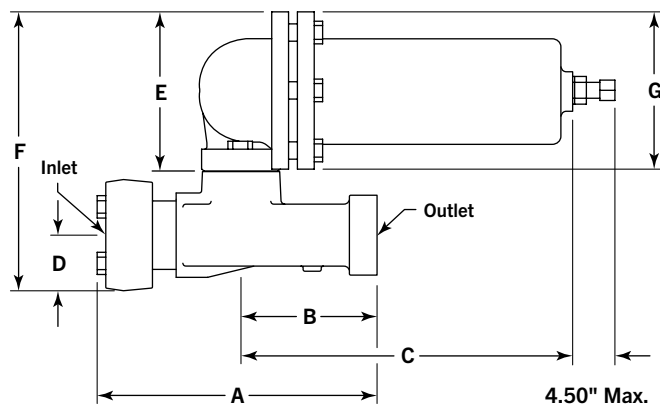
## Mallard Control Model 5600 Pressure Regulator Flow Capacities

Pressure, scfh of 0.6 Specific Gravity Gas, Based on 20% Droop (Continued)

| Inlet Pressure (psig) | Outlet Pressure (psig) | Port Diameter (in.) |        |        |         |         |        |        |        |         |         |
|-----------------------|------------------------|---------------------|--------|--------|---------|---------|--------|--------|--------|---------|---------|
|                       |                        | 1" NPT              |        |        |         |         | 2" NPT |        |        |         |         |
|                       |                        | 1/8                 | 3/16   | 1/4    | 3/8     | 1/2     | 1/8    | 3/16   | 1/4    | 3/8     | 1/2     |
| 200                   |                        | 3400                | 6800   | 10,000 | 16,000  | 26,000  | 3500   | 7300   | 11,000 | 18,000  | 30,000  |
| 250                   | 150                    | 4400                | 8800   | 13,000 | 20,000  | 32,000  | 4500   | 9500   | 15,000 | 26,000  | 38,000  |
| 300                   |                        | 5300                | 10,000 | 15,000 | 24,000  | 35,000  | 5400   | 11,000 | 19,000 | 32,000  | 52,000  |
| 400                   | 90 to 150              | 7100                | 14,000 | 22,000 | 34,000  | 42,000  | 7200   | 15,000 | 26,000 | 46,000  | 77,000  |
| 450                   | or                     | 7700                | 17,000 | 24,000 | 36,000  | —       | 8100   | 18,000 | 29,000 | 54,000  | —       |
| 650                   | 150 to 200             | 9000                | 24,000 | 33,000 | 49,000  | —       | 10,000 | 25,000 | 44,000 | 88,000  | —       |
| 800                   | psig                   | 13,000              | 29,000 | 38,000 | —       | —       | 14,000 | 30,000 | 54,000 | —       | —       |
| 1150                  | Spring                 | 20,000              | 38,000 | 49,000 | —       | —       | 21,000 | 46,000 | 78,000 | —       | —       |
| 1500                  |                        | 26,000              | 47,000 | —      | —       | —       | 27,000 | 60,000 | —      | —       | —       |
| 250                   |                        | 4200                | 8300   | 12,000 | 20,000  | 30,000  | 4300   | 9100   | 13,000 | 23,000  | 42,000  |
| 300                   | 200                    | 5200                | 10,000 | 16,000 | 25,000  | 35,000  | 5300   | 11,000 | 18,000 | 33,000  | 52,000  |
| 450                   |                        | 7800                | 16,000 | 26,000 | 43,000  | 50,000  | 7900   | 17,000 | 29,000 | 52,000  | 84,000  |
| 600                   | 150 to 200             | 9500                | 22,000 | 34,000 | 55,000  | —       | 10,000 | 23,000 | 40,000 | 75,000  | —       |
| 700                   | or                     | 11,000              | 25,000 | 40,000 | 61,000  | —       | 12,000 | 27,000 | 47,000 | 90,000  | —       |
| 800                   | 200 to 275             | 13,000              | 30,000 | 43,000 | —       | —       | 14,000 | 31,000 | 54,000 | —       | —       |
| 1000                  | psig                   | 16,000              | 37,000 | 50,000 | —       | —       | 17,000 | 39,000 | 69,000 | —       | —       |
| 1200                  | Spring                 | 20,000              | 41,000 | 59,000 | —       | —       | 21,000 | 48,000 | 83,000 | —       | —       |
| 1500                  |                        | 26,000              | 53,000 | —      | —       | —       | 27,000 | 60,000 | —      | —       | —       |
| 300                   |                        | 4900                | 9000   | 15,000 | 28,000  | 42,000  | 5000   | 10,000 | 17,000 | 30,000  | 52,000  |
| 400                   | 250                    | 7000                | 14,000 | 23,000 | 40,000  | 56,000  | 7100   | 15,000 | 25,000 | 47,000  | 76,000  |
| 500                   |                        | 8500                | 18,000 | 29,000 | 51,000  | 65,000  | 8600   | 19,000 | 34,000 | 62,000  | 103,000 |
| 600                   | 200 to 275             | 9500                | 22,000 | 34,000 | 59,000  | —       | 10,000 | 23,000 | 41,000 | 78,000  | —       |
| 750                   | psig                   | 12,500              | 28,000 | 44,000 | 69,000  | —       | 13,000 | 29,000 | 51,000 | 106,000 | —       |
| 1000                  | Spring                 | 16,000              | 39,000 | 58,000 | —       | —       | 17,000 | 40,000 | 68,000 | —       | —       |
| 1250                  |                        | 21,000              | 49,000 | 69,000 | —       | —       | 22,000 | 50,000 | 87,000 | —       | —       |
| 1500                  |                        | 26,000              | 59,000 | —      | —       | —       | 27,000 | 60,000 | —      | —       | —       |
| 300                   | 275                    | 4700                | 9000   | 15,000 | 28,000  | 39,000  | 4800   | 10,000 | 17,000 | 29,000  | 43,000  |
| 400                   |                        | 6900                | 14,000 | 25,000 | 40,000  | 54,000  | 7000   | 15,000 | 26,000 | 47,000  | 73,000  |
| 525                   | 200 to 275             | 8600                | 18,000 | 35,000 | 68,000  | 94,000  | 9200   | 20,000 | 36,000 | 69,000  | 112,000 |
| 775                   | or                     | 11,000              | 28,000 | 51,000 | 95,000  | —       | 12,000 | 30,000 | 52,000 | 112,000 | —       |
| 1000                  | 275 to 500             | 16,000              | 39,000 | 67,000 | —       | —       | 17,000 | 40,000 | 68,000 | —       | —       |
| 1275                  | psig                   | 21,000              | 50,000 | 87,000 | —       | —       | 22,000 | 51,000 | 89,000 | —       | —       |
| 1500                  | Spring                 | 26,000              | 60,000 | —      | —       | —       | 26,000 | 61,000 | —      | —       | —       |
| 400                   |                        | 6600                | 11,000 | 16,000 | 31,000  | 42,000  | 7000   | 13,000 | 21,000 | 35,000  | 54,000  |
| 550                   | 300                    | 9700                | 18,000 | 23,000 | 44,000  | 63,000  | 9800   | 20,000 | 30,000 | 52,000  | 78,000  |
| 600                   |                        | 9900                | 19,000 | 26,000 | 48,000  | —       | 10,000 | 21,000 | 34,000 | 59,000  | —       |
| 700                   | 275 to 500             | 11,000              | 23,000 | 30,000 | 54,000  | —       | 12,000 | 26,000 | 40,000 | 72,000  | —       |
| 800                   | psig                   | 13,000              | 26,000 | 35,000 | 61,000  | —       | 14,000 | 29,000 | 47,000 | 81,000  | —       |
| 900                   | Spring                 | 15,000              | 29,000 | 39,000 | —       | —       | 16,000 | 34,000 | 53,000 | —       | —       |
| 1300                  |                        | 22,000              | 43,000 | 58,000 | —       | —       | 23,000 | 50,000 | 80,000 | —       | —       |
| 1500                  |                        | 26,000              | 49,000 | —      | —       | —       | 27,000 | 58,000 | —      | —       | —       |
| 500                   |                        | 8300                | 16,000 | 24,000 | 44,000  | 62,000  | 8800   | 17,000 | 28,000 | 49,000  | 77,000  |
| 650                   | 400                    | 10,000              | 24,000 | 33,000 | 61,000  | 86,000  | 11,000 | 25,000 | 40,000 | 75,000  | 112,000 |
| 800                   |                        | 13,000              | 30,000 | 41,000 | 76,000  | —       | 14,000 | 31,000 | 51,000 | 95,000  | —       |
| 900                   | 275 to 500             | 15,000              | 34,000 | 49,000 | 85,000  | —       | 16,000 | 36,000 | 58,000 | 110,000 | —       |
| 1000                  | psig                   | 17,000              | 38,000 | 54,000 | —       | —       | 18,000 | 40,000 | 66,000 | —       | —       |
| 1200                  | Spring                 | 20,000              | 46,000 | 63,000 | —       | —       | 21,000 | 48,000 | 80,000 | —       | —       |
| 1400                  |                        | 24,000              | 55,000 | 76,000 | —       | —       | 25,000 | 57,000 | 96,000 | —       | —       |
| 1500                  |                        | 26,000              | 60,000 | —      | —       | —       | 27,000 | 61,000 | —      | —       | —       |
| 550                   | 500                    | 8700                | 16,000 | 26,000 | 50,000  | 77,000  | 9000   | 18,000 | 30,000 | 53,000  | 89,000  |
| 750                   |                        | 12,000              | 28,000 | 40,000 | 78,000  | 100,000 | 13,000 | 29,000 | 48,000 | 90,000  | 141,000 |
| 900                   | 275 to 500             | 15,000              | 34,000 | 52,000 | 92,000  | —       | 16,000 | 35,000 | 60,000 | 113,000 | —       |
| 1000                  | psig                   | 17,000              | 39,000 | 60,000 | 100,000 | —       | 18,000 | 40,000 | 67,000 | 130,000 | —       |
| 1500                  | Spring                 | 26,000              | 59,000 | 72,000 | —       | —       | 27,000 | 60,000 | 82,000 | —       | —       |

NOTE: Taylor Valve reserves the right to change product designs and specifications without notice.

## Mallard Control Model 5600 Pressure Regulator Valve



**Model 5600**

### Dimensional Data (in., mm), Model 5600

| Model     | Dimension (in., mm) |        |      |        |      |        |      |       |      |        |      |        |      |        |
|-----------|---------------------|--------|------|--------|------|--------|------|-------|------|--------|------|--------|------|--------|
|           | A                   |        | B    |        | C    |        | D    |       | E    |        | F    |        | G    |        |
|           | in.                 | mm     | in.  | mm     | in.  | mm     | in.  | mm    | in.  | mm     | in.  | mm     | in.  | mm     |
| 5600 - 1" | 7.38                | 187.45 | 3.69 | 93.73  | 9.12 | 231.65 | 1.19 | 30.23 | 4.82 | 122.43 | 7.94 | 201.68 | 4.75 | 120.65 |
| 5600 - 2" | 7.88                | 200.15 | 3.94 | 100.08 | 9.12 | 231.65 | 2.00 | 50.80 | 4.82 | 122.43 | 8.63 | 219.20 | 4.75 | 120.65 |

CAUTION: Model 5600 regulators have an outlet pressure rating that is lower than the inlet pressure rating. Consequently, overpressure protection is required if the actual inlet pressure can exceed the regulator's outlet pressure rating. To avoid overpressure, provide an appropriate overpressure protection device to ensure that none of the limits listed will be exceeded. Internal parts of the regulator may be damaged if the outlet pressure exceeds the pressure setting beyond the amounts shown.

1. This applies to outlet pressure settings below 350 psig only. For pressure setting above 350 psig, outlet pressure is limited to 550 psig, the maximum emergency outlet pressure.

| Outlet Pressure Range (psig) | High Pressure (psig)                       |                                |
|------------------------------|--------------------------------------------|--------------------------------|
|                              | Max. Outlet Pressure Over Pressure Setting | Max. Emergency Outlet Pressure |
| 27 to 50                     | 200                                        | 550                            |
| 46 to 95                     |                                            |                                |
| 90 to 150                    |                                            |                                |
| 150 to 200                   |                                            |                                |
| 200 to 275                   | 200 <sup>1</sup>                           |                                |
| 275 to 500                   |                                            |                                |

### Maximum Inlet & Differential Pressures

| Port Diameter (in.) | Max. Allowable Inlet Pressure (psig) | Max. Allowable Pressure Drop (psid) |             |
|---------------------|--------------------------------------|-------------------------------------|-------------|
|                     |                                      | TFE/Nylon Disc                      | Viton® Disc |
| 3/16, 1/8           | 1500                                 | 1500                                | 200         |
| 1/4                 | 1500                                 | 1000                                |             |
| 3/8                 | 1000                                 | 500                                 |             |
| 1/2                 | 750                                  | 250                                 |             |

The sum of the outlet pressure setting and the maximum allowable pressure drop determines the maximum allowable inlet pressure for a given installation. For example, with a 1/2" port diameter (maximum pressure drop of 250 psi) and a 400 psig outlet pressure setting, the maximum inlet pressure is 650 psig (250 psi plus 400 psig).

## Mallard Control Model 5600 Pressure Regulator Valve

### Part Number Codes

#### Model

**None** • Regulator

#### Body Size & End Connection

**1** • 1" FNPT  
**2** • 2" FNPT

#### Style

**H** • Standard Pressure (Spring Code E-K)

#### Body Material

**W** • Carbon Steel

#### Outlet Pressure Range

##### Outlet Pressure Range

**E** • 27 to 50 psig  
**F** • 46 to 95 psig  
**G** • 90 to 150 psig  
**H** • 150 to 200 psig  
**J** • 200 to 275 psig  
**K** • 275 to 500 psig

#### Trim Material

##### Model 5600 Only

**W** • Stainless Steel / TFE (For Pressure Drops up to 1500 psi)  
**X** • Stainless Steel / Nylon (For Pressure Drops 200 to 1500 psi)  
**Y** • Stainless Steel / Viton® (For Pressure Drops Below 200 psi)

Note: Reference "Maximum Inlet & Differential Pressures" chart on page 6.

#### Port Diameter

**1** • 1/8"      **4** • 1/2"  
**2** • 1/4"      **5** • 3/16" (Model 5600 Only)  
**3** • 3/8"

#### Options

**S** • None

**5600 - 1 HWG-W4 S**  
Example

## Mallard Control Model 5602 Air Set Regulator

### Features

- > Inlet Relief
- > Dual Outlet
- > Built-in 40 micron filter & dripwell (5602 only)
- > Self-relieving
- > Low droop at high flow
- > Variety of mounting options
- > Low cost
- > (Optional) Gauges Available

### Specifications

Connection: 1/4"NPT

Temperature Range:  
-20°F to 180°F (-29°C to 82°C)

Inlet Pressure Rating: 250psi

Outlet Pressure Range:

5602-1 (0-30psi)

5602-2 (0-60psi)

5602-3 (0-120psi)

The Model 5602 is a spring-operated regulator used to supply air or gas to pilots, positioners or to pneumatic controls.

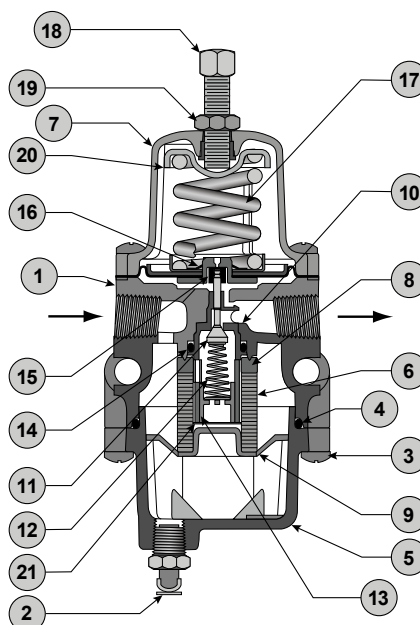
### Materials of Construction

| Description | Material                |
|-------------|-------------------------|
| Body        | Die-Cast Aluminum Alloy |
| Diaphragm   | Buna-N                  |



### Capacities in SCFH OF 0.6 SG Natural Gas

| Inlet Pressure (psi) | Outlet Pressure Setting (Spring Range) |              |               |
|----------------------|----------------------------------------|--------------|---------------|
|                      | 25psi (0-30)                           | 40psi (0-60) | 80psi (0-120) |
| 50                   | 510                                    | 190          | ---           |
| 75                   | 710                                    | 640          | ---           |
| 100                  | 960                                    | 640          | 510           |
| 150                  | 1290                                   | 900          | 840           |
| 250                  | 1800                                   | 1900         | 1300          |



### Parts List, Filtered Unit

| Item | Description       | Qty. |
|------|-------------------|------|
| 1    | BODY              | 1    |
| 2    | DRAIN VALVE       | 1    |
| 3    | SCREW             | 10   |
| 4    | O-RING            | 1    |
| 5    | DRIPWELL          | 1    |
| 6    | FILTER ELEMENT    | 1    |
| 7    | SPRING CASE       | 1    |
| 8    | FILTER GASKET     | 1    |
| 9    | FILTER RETAINER   | 1    |
| 10   | VALVE CARTRIDGE   | 1    |
| 11   | VALVE PLUG        | 1    |
| 12   | VALVE SPRING      | 1    |
| 13   | VALVE RETAINER    | 1    |
| 14   | O-RING            | 1    |
| 15   | SOFT SEAT         | 1    |
| 16   | DIAPHRAGM ASSY.   | 1    |
|      | SPRING, 0-30#     | 1    |
| 17   | SPRING, 0-60#     | 1    |
|      | SPRING, 0-120#    | 1    |
| 18   | ADJUSTING SCREW   | 1    |
| 19   | LOCK NUT          | 1    |
| 20   | UPPER SPRING SEAT | 1    |
| 21   | WASHER            | 1    |
| 22*  | WASHER            | 2    |
| 23*  | PIPE PLUG         | 1    |

\* Not Shown

## Mallard Control Model 5646C Pressure Regulator

### Features

- > Rugged construction: Available in carbon steel and aluminum diaphragm case.
- > Easy maintenance: Union connection between the diaphragm case and body allows easy access to trim parts without removing the regulator from the line.
- > Installation flexibility: The diaphragm case can be rotated in relation to the regulator body to allow installation in locations with limited space. The regulator may be installed in any position without affecting performance, provided the spring case vent is protected from the elements.
- > Wide range of flow capacities: A variety of orifice sizes are available to satisfy a wide range of flow requirements.
- > Tight shutoff: A soft seat disc, available in nitrile (Buna), or nylon, provides excellent shutoff performance.

The model 5646C pressure regulator provides economic control of natural gas, air, or a variety of other gases in commercial and industrial applications. This self-operated pressure reducing regulator is equipped with an integral pitot (boost) tube for increased flow capacities and stability. It is designed for inlet pressures up to 1000 psig and outlet pressures from 5 to 150 psig.



### Flow Capacities, scfh of 0.6 Specific Gravity Gas, Based on 20% Droop

| Inlet Pressure (psig) | Outlet Pressure (psig)                | Port Diameter (in.) |         |        |        |        |
|-----------------------|---------------------------------------|---------------------|---------|--------|--------|--------|
|                       |                                       | All Body Sizes 1/8  | 1" Body |        |        |        |
|                       |                                       |                     | 3/16    | 1/4    | 3/8    | 1/2    |
| 10                    | 5                                     | 325                 | 730     | 1160   | 1980   | 2520   |
| 15                    |                                       | 450                 | 910     | 1540   | 2560   | 5000   |
| 20                    |                                       | 540                 | 1230    | 2100   | 3450   | 6900   |
| 30                    |                                       | 690                 | 1610    | 2900   | 4850   | 11,250 |
| 50                    |                                       | 1000                | 2550    | 4500   | 8000   | 13,500 |
| 75                    | 10 to 95<br>psig<br>Dark Green Spring | 1400                | 3130    | 5750   | 9770   | 14,600 |
| 100                   |                                       | 1800                | 4270    | 7300   | 12,750 | 16,200 |
| 125                   |                                       | 2150                | 4550    | 8100   | 15,150 | —      |
| 15                    |                                       | 180                 | 270     | 360    | 520    | 700    |
| 20                    |                                       | 240                 | 350     | 460    | 690    | 920    |
| 25                    | 15                                    | 280                 | 410     | 550    | 820    | 1090   |
| 50                    |                                       | 460                 | 680     | 910    | 1350   | 1800   |
| 75                    |                                       | 630                 | 950     | 1270   | 1870   | 2500   |
| 100                   |                                       | 810                 | 1210    | 1620   | 2390   | 3200   |
| 150                   |                                       | 1160                | 1740    | 2330   | 3430   | —      |
| 200                   | 5 to 20<br>psig<br>Yellow Spring      | 1520                | 2270    | 3040   | 4480   | —      |
| 300                   |                                       | 2230                | 3330    | 4450   | 6570   | —      |
| 500                   |                                       | 3640                | 5450    | 7290   | —      | —      |
| 20                    |                                       | 450                 | 950     | 1480   | 2950   | 5100   |
| 30                    |                                       | 660                 | 1440    | 2530   | 4800   | 7480   |
| 50                    | 15                                    | 1000                | 2480    | 4200   | 7700   | 11,500 |
| 75                    |                                       | 1400                | 3000    | 5400   | 10,700 | 16,300 |
| 100                   |                                       | 1800                | 3800    | 7850   | 14,200 | 18,500 |
| 150                   |                                       | 2600                | 5800    | 11,500 | 18,000 | —      |
| 200                   |                                       | 3300                | 7350    | 14,300 | 22,200 | —      |
| 400                   | 5 to 20<br>psig<br>Yellow Spring      | 6100                | 14,800  | 24,500 | —      | —      |
| 600                   |                                       | 9070                | 21,000  | —      | —      | —      |
| 750                   |                                       | 11,500              | —       | —      | —      | —      |
| 1000                  |                                       | 15,550              | —       | —      | —      | —      |

### Specifications

Body size: 1"

Orifice sizes: 1/4", 3/8" & 1/2" (Standard) 1/8", 3/16" (Consult Factory)

Maximum body inlet pressure: 1000 psig at 100 °F

Maximum soft seat disc inlet / differential pressure

Nylon: 1000 psig / 1000 psid

Buna: 600 psig / 400 psid

Operating temperature range: -20 to 250°F (-29° to 65°C)

Approximate Weight: 6 lb., 8 oz. (3 kg)

### Materials of Construction

| Description                  | Material                                                    |
|------------------------------|-------------------------------------------------------------|
| Body                         | Carbon Steel                                                |
| Spring & Diaphragm Casings   | Die-Cast Aluminum                                           |
| Diaphragm                    | Nylon-Reinforced Buna                                       |
| O-Rings                      | Buna                                                        |
| Orifice                      | Stainless Steel                                             |
| Disc Holder w/Soft Seat Disc | Stainless Steel w/Buna Disc<br>Stainless Steel w/Nylon Disc |

Capacity Information: Natural gas regulating capacities are given for selected inlet/outlet pressures. Flows are in scfh (60°F/14.7 psia) of 0.6 SG natural gas. To determine the equivalent regulating capacities of other gases, multiply the capacity given by 0.775, and divide by the square root of the appropriate specific gravity. If capacity is desired in normal cubic meters per hour, multiply the scfh capacity given by 0.0268.

## Mallard Control Model 5646C Pressure Regulator

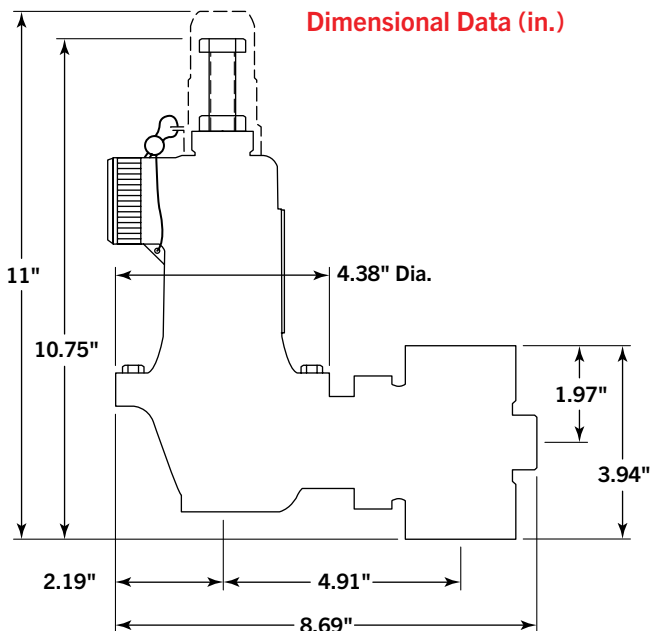
### Flow Coefficients ( $C_v$ )

| Port Diameter (in.) / Flow Co. ( $C_v$ ) |      |      |      |      |
|------------------------------------------|------|------|------|------|
| 1/8                                      | 3/16 | 1/4  | 3/8  | 1/2  |
| 0.43                                     | 1.00 | 1.70 | 3.40 | 5.30 |

### Max. Outlet Pressure

| Criteria                                                                                                               | Max. Pressure (psig) |
|------------------------------------------------------------------------------------------------------------------------|----------------------|
| Max. outlet pressure over pressure setting to prevent damage to internal parts.                                        | 100                  |
| Max. outlet pressure to prevent leak to atmosphere. Damage to internal parts may occur.                                | 250                  |
| Max. outlet pressure to prevent burst of diaphragm housing. Leak to atmosphere and damage to internal parts may occur. | 400                  |

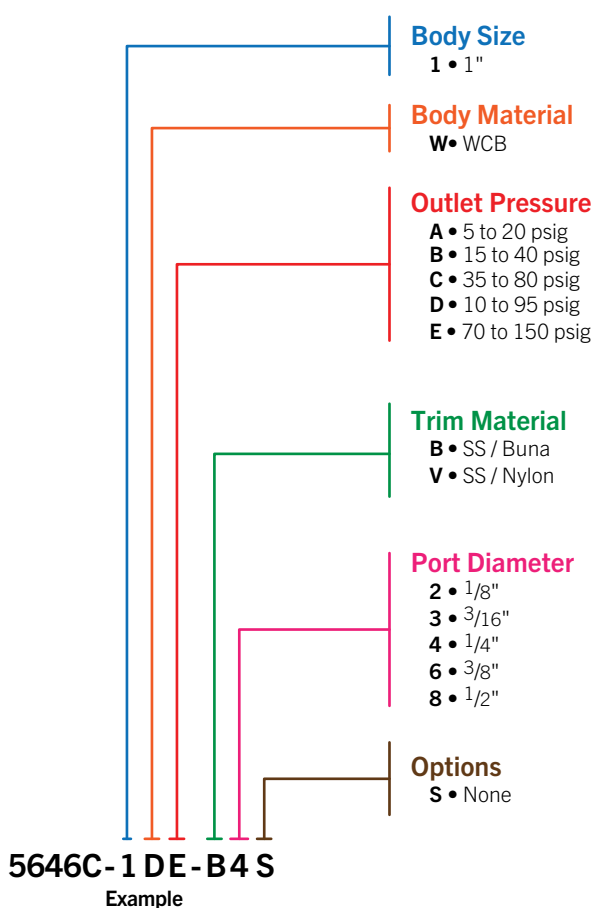
Overpressure Protection: The model 5646C regulator's outlet pressure rating is lower than its inlet pressure rating. Consequently, overpressure protection is required if the actual inlet pressure of a given application can exceed the regulator's outlet pressure rating. To avoid overpressure, the user must provide an appropriate pressure relieving or pressure limiting device to ensure that none of the limits shown are exceeded.



### Maximm Inlet / Differential Pressures

| Spring Range   | Orifice (in.) | Max. Inlet Pressure (psig) | Max. Differential Pressure (psig) |
|----------------|---------------|----------------------------|-----------------------------------|
| 5 to 20 psig   | 1/8           | 125                        | 125                               |
|                | 3/16          | 125                        | 125                               |
|                | 1/4           | 125                        | 125                               |
|                | 3/8           | 125                        | 125                               |
| 15 to 40 psig  | 1/2           | 100                        | 100                               |
|                | 1/8           | 1000                       | 1000                              |
|                | 3/16          | 600                        | 600                               |
|                | 1/4           | 400                        | 400                               |
| 35 to 80 psig  | 3/8           | 200                        | 200                               |
|                | 1/2           | 100                        | 100                               |
|                | 1/8           | 1000                       | 1000                              |
|                | 3/16          | 1000                       | 1000                              |
| 10 to 95 psig  | 1/4           | 800                        | 800                               |
|                | 3/8           | 500                        | 500                               |
|                | 1/2           | 250                        | 250                               |
|                | 1/8           | 1000                       | 1000                              |
| 70 to 150 psig | 3/16          | 1000                       | 1000                              |
|                | 1/4           | 1000                       | 1000                              |
|                | 3/8           | 800                        | 800                               |
|                | 1/2           | 500                        | 500                               |

### Part Number Codes



## Mallard Control Model 5646C Pressure Regulator

Flow Capacities, scfh of 0.6 Specific Gravity Gas, Based on 20% Drop

| Inlet Pressure (psig) | Outlet Pressure (psig) | Port Diameter (in.) |         |        |        |        |
|-----------------------|------------------------|---------------------|---------|--------|--------|--------|
|                       |                        | All Body Sizes 1/8  | 1" Body |        |        |        |
|                       |                        |                     | 3/16    | 1/4    | 3/8    | 1/2    |
| 30                    | 20                     | 640                 | 1430    | 2500   | 4600   | 7280   |
| 50                    |                        | 1000                | 2320    | 4000   | 7800   | 11,300 |
| 75                    |                        | 1400                | 3000    | 5400   | 10,700 | 16,300 |
| 100                   |                        | 1800                | 3800    | 7850   | 14,800 | 18,500 |
| 150                   |                        | 2600                | 5800    | 11,500 | 20,500 | —      |
| 200                   | 15 to 40 psig          | 3300                | 7350    | 14,300 | 25,200 | —      |
| 400                   |                        | 6100                | 14,800  | 24,500 | —      | —      |
| 600                   |                        | 9070                | 21,000  | —      | —      | —      |
| 750                   |                        | 11,500              | —       | —      | —      | —      |
| 1000                  |                        | 15,500              | —       | —      | —      | —      |
| 30                    | 25                     | 580                 | 1000    | 1300   | 1950   | 2600   |
| 50                    |                        | 1000                | 1700    | 2300   | 3350   | 4500   |
| 75                    |                        | 1400                | 2350    | 3150   | 4650   | 6250   |
| 100                   |                        | 1000                | 3050    | 4050   | 5950   | 8000   |
| 150                   |                        | 2600                | 4350    | 5800   | 8600   | —      |
| 200                   | 15 to 40 psig          | 3300                | 5700    | 7600   | 11,200 | —      |
| 300                   |                        | 4800                | 8300    | 11,150 | 16,400 | —      |
| 400                   |                        | 6400                | 10,900  | 14,700 | —      | —      |
| 500                   |                        | 8000                | 13,600  | 18,200 | —      | —      |
| 750                   |                        | 11,500              | 20,250  | —      | —      | —      |
| 1000                  | Dark Green Spring      | 15,500              | 26,850  | —      | —      | —      |
| 40                    |                        | 780                 | 1620    | 2800   | 4400   | 5800   |
| 50                    |                        | 950                 | 2100    | 3700   | 5600   | 7700   |
| 75                    |                        | 1400                | 3000    | 5000   | 8600   | 11,400 |
| 100                   |                        | 1800                | 3800    | 7250   | 10,700 | 16,000 |
| 150                   | 15 to 40 psig          | 2600                | 5800    | 10,500 | 16,500 | 23,000 |
| 200                   |                        | 3300                | 7350    | 12,800 | 21,000 | 29,000 |
| 300                   |                        | 4800                | 10,800  | 17,800 | 26,000 | —      |
| 400                   |                        | 6500                | 13,700  | 23,000 | 28,000 | —      |
| 750                   |                        | 11,500              | 23,400  | 30,300 | —      | —      |
| 1000                  | Dark Green Spring      | 15,500              | 31,000  | —      | —      | —      |
| 50                    |                        | 900                 | 2000    | 3400   | 5500   | 7100   |
| 75                    |                        | 1400                | 3000    | 5000   | 8200   | 10,300 |
| 100                   |                        | 1800                | 3800    | 7250   | 10,700 | 16,000 |
| 150                   |                        | 2600                | 5800    | 10,500 | 16,500 | 25,000 |
| 200                   | 10 to 95 psig          | 3300                | 7350    | 12,800 | 22,000 | 33,000 |
| 300                   |                        | 4800                | 10,800  | 17,800 | 28,000 | —      |
| 400                   |                        | 6500                | 13,700  | 23,000 | 32,000 | —      |
| 750                   |                        | 11,500              | 25,400  | 34,300 | —      | —      |
| 1000                  |                        | 15,500              | 34,400  | —      | —      | —      |
| 60                    | 50                     | 1020                | 2100    | 3900   | 6300   | 9000   |
| 75                    |                        | 1350                | 2900    | 5200   | 8900   | 13,500 |
| 100                   |                        | 1760                | 3750    | 6900   | 12,500 | 16,800 |
| 150                   |                        | 2600                | 5800    | 10,500 | 19,000 | 33,400 |
| 200                   |                        | 3300                | 7350    | 12,300 | 24,000 | 42,500 |
| 300                   | 10 to 95 psig          | 4800                | 10,800  | 19,000 | 33,000 | —      |
| 400                   |                        | 6500                | 13,700  | 25,000 | 46,000 | —      |
| 750                   |                        | 11,500              | 25,400  | 43,400 | —      | —      |
| 1000                  |                        | 15,500              | 34,000  | —      | —      | —      |

| Inlet Pressure (psig) | Outlet Pressure (psig) | Port Diameter (in.) |         |        |         |         |
|-----------------------|------------------------|---------------------|---------|--------|---------|---------|
|                       |                        | All Body Sizes 1/8  | 1" Body |        |         |         |
|                       |                        |                     | 3/16    | 1/4    | 3/8     | 1/2     |
| 75                    | 60                     | 1230                | 2760    | 4880   | 8630    | 16,100  |
| 100                   |                        | 1740                | 4010    | 7000   | 13,000  | 19,300  |
| 150                   |                        | 2580                | 5850    | 10,500 | 18,900  | 32,800  |
| 200                   |                        | 3370                | 7630    | 13,700 | 24,000  | 42,200  |
| 300                   |                        | 4910                | 7350    | 20,100 | 32,500  | 69,100  |
| 500                   | 35 to 80 psig          | 8090                | 11,200  | 32,900 | 64,000  | 94,300  |
| 750                   |                        | 12,000              | 18,300  | 43,800 | 66,900  | 130,000 |
| 1000                  |                        | 16,000              | 36,100  | 50,300 | 67,700  | —       |
| 1250                  |                        | 19,000              | 45,000  | 57,000 | —       | —       |
| 1500                  |                        | 22,000              | 54,000  | 63,000 | —       | —       |
| 1750                  | Blue Spring            | 25,000              | 63,000  | —      | —       | —       |
| 2000                  |                        | 28,000              | —       | —      | —       | —       |
| 80                    |                        | 1190                | 2300    | 3450   | 5000    | 6250    |
| 90                    |                        | 1450                | 2900    | 4250   | 6300    | 7100    |
| 100                   |                        | 1680                | 3450    | 4900   | 7600    | 8050    |
| 150                   | 75                     | 2500                | 5400    | 7300   | 12,000  | —       |
| 200                   |                        | 3300                | 7100    | 9700   | 15,700  | —       |
| 300                   |                        | 4800                | 10,400  | 14,200 | 20,450  | —       |
| 400                   |                        | 6400                | 13,700  | 18,700 | —       | —       |
| 500                   |                        | 8000                | 17,000  | 23,000 | —       | —       |
| 750                   | 10 to 95 psig          | 11,500              | 25,000  | —      | —       | —       |
| 1000                  |                        | 15,500              | 34,000  | —      | —       | —       |
| 100                   |                        | 1600                | 3750    | 6650   | 12,200  | 18,600  |
| 150                   |                        | 2580                | 5850    | 10,500 | 21,100  | 33,600  |
| 200                   |                        | 3370                | 7630    | 13,700 | 28,400  | 44,100  |
| 300                   | 35 to 80 psig          | 4910                | 11,200  | 20,100 | 43,300  | 75,400  |
| 500                   |                        | 8090                | 18,300  | 32,900 | 71,600  | 110,000 |
| 750                   |                        | 12,000              | 27,200  | 48,900 | 105,500 | 135,000 |
| 1000                  |                        | 16,040              | 36,100  | 64,900 | 118,000 | —       |
| 1250                  |                        | 19,000              | 45,000  | 80,000 | —       | —       |
| 1500                  | Blue Spring            | 22,000              | 54,000  | 96,000 | —       | —       |
| 1750                  |                        | 25,000              | 63,000  | —      | —       | —       |
| 2000                  |                        | 28,000              | —       | —      | —       | —       |
| 110                   |                        | 1640                | 3500    | 5900   | 7900    | 9300    |
| 125                   |                        | 2000                | 4400    | 7300   | 12,000  | 14,500  |
| 150                   | 100                    | 2500                | 5500    | 9000   | 16,000  | 23,500  |
| 200                   |                        | 3300                | 7000    | 12,000 | 21,000  | 34,600  |
| 300                   |                        | 4800                | 10,500  | 18,000 | 30,100  | 51,000  |
| 400                   |                        | 6400                | 13,700  | 25,000 | 44,500  | 70,000  |
| 500                   |                        | 8040                | 17,200  | 32,000 | 66,000  | 84,000  |
| 800                   | 70 to 150 psig         | 12,100              | 30,000  | 44,000 | 89,000  | —       |
| 1000                  |                        | 15,500              | 36,000  | 57,000 | —       | —       |
| 135                   |                        | 1960                | 4200    | 7600   | 11,500  | 13,900  |
| 150                   |                        | 2340                | 5000    | 8900   | 15,700  | 20,000  |
| 200                   |                        | 3300                | 7000    | 13,100 | 26,000  | 32,500  |
| 300                   | 125                    | 4800                | 10,500  | 19,400 | 38,000  | 52,000  |
| 400                   |                        | 6400                | 13,700  | 26,400 | 51,000  | 90,000  |
| 500                   |                        | 8040                | 17,200  | 33,400 | 68,000  | 105,000 |
| 800                   |                        | 12,100              | 30,000  | 46,500 | 99,000  | —       |
| 1000                  |                        | 15,500              | 36,000  | 63,000 | —       | —       |
| 200                   | 70 to 150 psig         | 2900                | 7150    | 11,000 | 21,200  | 30,500  |
| 300                   |                        | 4600                | 11,100  | 19,000 | 31,200  | 45,000  |
| 400                   |                        | 6400                | 14,800  | 24,800 | 39,500  | 50,000  |
| 500                   |                        | 8150                | 18,000  | 32,000 | 50,500  | 52,000  |
| 750                   |                        | 12,000              | 27,000  | 45,000 | 52,500  | —       |
| 1000                  | Red Spring             | 15,200              | 35,500  | 58,000 | —       | —       |

Capacity Information: Natural gas regulating capacities are given for selected inlet/outlet pressures. Flows are in scfh (60°F/14.7 psia) of 0.6 SG natural gas. To determine the equivalent regulating capacities of other gases, multiply the capacity given by 0.775, and divide by the square root of the appropriate specific gravity. If capacity is desired in normal cubic meters per hour, multiply the scfh capacity given by 0.0268.

## Mallard Model 5660 High Pressure Regulators

The model 5660 is designed to reduce high inlet pressures to working pressures. Careful design and quality materials throughout assure long, trouble-free operation in the most difficult industrial environments.



Model 5660  
High Pressure  
Regulator



### Features

- Non-venting
- Seating surface is field repairable by simply rotating the seat block 90 degrees to a new seating surface

### Specifications

Connections: 1/4" FNPT

Operating temperature range  
-70 to 225 °F (-57 to 107 °C)

Maximum inlet pressure  
6000 psig at 100 °F (38 °C)  
(model 5660)  
5500 psig at 100 °F (38 °C)  
(model 5670)

Outlet ranges  
0 to 125 psi, 0 to 150 psi  
& 0 to 225 psi

### Materials of Construction

| Description   | Material                                          |
|---------------|---------------------------------------------------|
| Body & Bonnet | Forged Brass (5660)<br>316 Stainless Steel (5670) |
| Seat          | Nylon                                             |

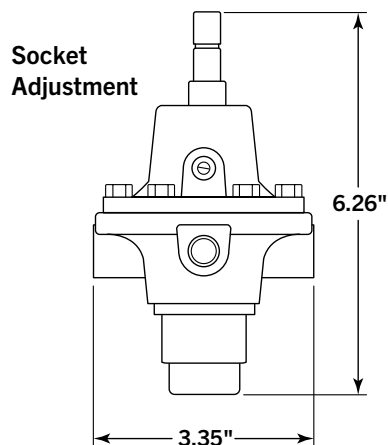
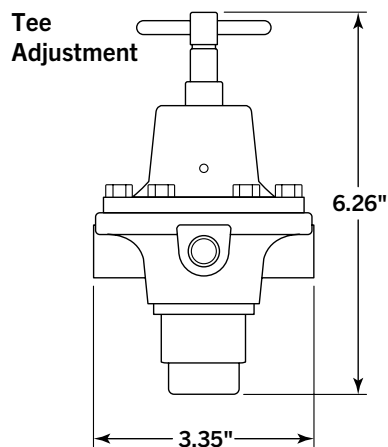
| Description | Material            |
|-------------|---------------------|
| Seals       | TFE & Buna-N        |
| Nozzle      | 316 Stainless Steel |
| Filter      | 40 Micron Screen    |

### Ordering Information

| Model 5660           |                 |              |
|----------------------|-----------------|--------------|
| Max. Outlet Pressure | Adjusting Screw | Model Number |
| 125 psi              | Socket Tee      | 5660-1-2     |
| 150 psi              | Socket Tee      | 5660-3-4     |
| 225 psi              | Socket Tee      | 5660-5-6     |

### Flow Capacities, scfh of 0.6 Specific Gravity Gas

| Spring Range (psig) | Outlet Press. Setting (psig) | Inlet Pressure (psig) |      |      |      |      |      |      |
|---------------------|------------------------------|-----------------------|------|------|------|------|------|------|
|                     |                              | 100                   | 250  | 500  | 750  | 1000 | 1500 | 2000 |
| 0 to 125            | 25                           | 290                   | 480  | 650  | 750  | 770  | 800  | 820  |
|                     | 50                           | 400                   | 800  | 1000 | 1200 | 1300 | 1400 | 1500 |
|                     | 75                           | 400                   | 900  | 1400 | 1600 | 1700 | 1800 | 1900 |
| 0 to 150            | 75                           | 350                   | 800  | 1300 | 1500 | 1600 | 1700 | 1800 |
|                     | 150                          | —                     | 1000 | 1800 | 2300 | 2600 | 2800 | 3000 |
| 0 to 225            | 150                          | —                     | 900  | 1700 | 2200 | 2250 | 2750 | 3000 |
|                     | 225                          | —                     | 800  | 2100 | 2900 | 3500 | 4000 | 4500 |







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