

# DS06 DialSet®

## LOW LEAD PRESSURE REGULATING VALVES

**SUBMITTAL SHEET**

### APPLICATION

The Honeywell DS06 DialSet Pressure Regulating Valve is a high quality pressure regulating valve that maintains a constant outlet pressure over a wide range of inlet supply pressures. It is suitable for potable water and irrigation applications. The downstream pressure adjustment dial eliminates the need for a pressure gauge when adjusting the pressure setting (static pressure only).

### Specifications

**Model:** DS06 DialSet Pressure Regulating Valves.  
**Regulator Mechanism:** Fabric-reinforced diaphragm.  
**Seat Design:** Balanced single seat construction.  
**Inlet Pressure (Maximum):** 250 psi maximum.  
**Reduced Pressure Range:** 25 to 90 psi (1/2 in. to 2 in.).  
**Outlet Pressure:** Factory set at 60 psi (414 kPa).  
**Dial Calibration:** ± 4 psi.  
**Differential:** 14.5 psi minimum (inlet to outlet).  
**Fluid Temperature (Maximum):**  
 Air: 140° F (60° C).  
 Water: 140° F (60° C).  
**Ambient Temperature Range:** 33° F to 140° F (1° C to 60° C).  
**Pipe Sizes Available:** 1/2 in., 3/4 in., 1 in., 1-1/4 in., 1-1/2 in. and 2 in. available.

**Connections:** Can be configured as female thread-by-thread, single- or double-union, NPT threaded or sweat.

**Low Lead Content:** < 0.25% Lead.

**Gauge Tap:** 1/4" NPT.

**Approvals:**  
 ASSE 1003-2009 Certified.  
 CSA: B356-10 and IAPMO Listed.

### Materials

**Body:** Bronze  
**Internal Parts:** Stainless steel and engineered plastics  
**Regulator Mechanism:** Fabric-reinforced diaphragm  
**\*Lead Free Plumbing Code Compliance:** The wettable surfaces of lead free models contain less than 0.25% of lead by weighted average.

### Dimensions

| Model Number                          | Pipe Size |                      | Dimensions, Approximate |            |
|---------------------------------------|-----------|----------------------|-------------------------|------------|
|                                       | Inch      | Inch (H x L)         | Inch (H x L)            | mm (H x L) |
| <b>Single-Union Sweat</b>             |           |                      |                         |            |
| DS06-100-SUS-LF                       | 1/2"      | 5-53/64" x 3-55/64"  | 148 x 98                |            |
| DS06-101-SUS-LF                       | 3/4"      | 5-53/64" x 4-3/8"    | 148 x 111               |            |
| DS06-102-SUS-LF                       | 1"        | 6-15/16" x 5-15/64"  | 176.5 x 133             |            |
| DS06-103-SUS-LF                       | 1-1/4"    | 6-15/16" x 5-5/8"    | 176.5 x 143             |            |
| DS06-104-SUS-LF                       | 1-1/2"    | 11-13/16" x 6-39/64" | 300 x 168               |            |
| DS06-105-SUS-LF                       | 2"        | 11-13/16" x 7-9/16"  | 300 x 192               |            |
| <b>Single-Union Treaded</b>           |           |                      |                         |            |
| DS06-100-SUT-LF                       | 1/2"      | 5-53/64" x 4-1/64"   | 148 x 102               |            |
| DS06-101-SUT-LF                       | 3/4"      | 5-53/64" x 4-3/8"    | 148 x 111               |            |
| DS06-102-SUT-LF                       | 1"        | 6-15/16" x 5"        | 176.5 x 127             |            |
| DS06-103-SUT-LF                       | 1-1/4"    | 6-15/16" x 5-7/16"   | 176.5 x 138             |            |
| DS06-104-SUT-LF                       | 1-1/2"    | 11-13/16" x 6-1/2"   | 300 x 165               |            |
| DS06-105-SUT-LF                       | 2"        | 11-13/16" x 7-1/8"   | 300 x 181               |            |
| <b>Union Body, No Tailpeices Only</b> |           |                      |                         |            |
| DS06-100-LF                           | 1/2"      | 5-53/64" x 3-5/32"   | 148 x 80                |            |
| DS06-101-LF                           | 3/4"      | 5-53/64" x 3-35/64"  | 148 x 90                |            |
| DS06-102-LF                           | 1"        | 6-15/16" x 3-15/16"  | 176.5 x 100             |            |

| Model Number                | Pipe Size |                      | Dimensions, Approximate |            |
|-----------------------------|-----------|----------------------|-------------------------|------------|
|                             | Inch      | Inch (H x L)         | Inch (H x L)            | mm (H x L) |
| DS06-103-LF                 | 1-1/4"    | 6-15/16" x 4-9/64"   | 176.5 x 105             |            |
| DS06-104-LF                 | 1-1/2"    | 11-13/16" x 5-1/8"   | 300 x 130               |            |
| DS06-105-LF                 | 2"        | 11-13/16" x 5-43/64" | 300 x 144               |            |
| <b>Double-Union Sweat</b>   |           |                      |                         |            |
| DS06-100-DUS-LF             | 1/2"      | 5-53/64" x 4-9/16"   | 148 x 116               |            |
| DS06-101-DUS-LF             | 3/4"      | 5-53/64" x 5-13/64"  | 148 x 132               |            |
| DS06-102-DUS-LF             | 1"        | 6-15/16" x 6-17/32"  | 176.5 x 166             |            |
| DS06-103-DUS-LF             | 1-1/4"    | 6-15/16" x 7-1/8"    | 176.5 x 181             |            |
| DS06-104-DUS-LF             | 1-1/2"    | 11-13/16" x 8-7/64"  | 300 x 206               |            |
| DS06-105-DUS-LF             | 2"        | 11-13/16" x 9-29/64" | 300 x 240               |            |
| <b>Double-Union Treaded</b> |           |                      |                         |            |
| DS06-100-DUT-LF             | 1/2"      | 5-53/64" x 4-7/8"    | 148 x 124               |            |
| DS06-101-DUT-LF             | 3/4"      | 5-53/64" x 5-13/64"  | 148 x 132               |            |
| DS06-102-DUT-LF             | 1"        | 6-15/16" x 6-1/16"   | 176.5 x 154             |            |
| DS06-103-DUT-LF             | 1-1/4"    | 6-15/16" x 6-47/64"  | 176.5 x 171             |            |
| DS06-104-DUT-LF             | 1-1/2"    | 11-13/16" x 7-7/8"   | 300 x 200               |            |
| DS06-105-DUT-LF             | 2"        | 11-13/16" x 8-37/64" | 300 x 218               |            |



Job Name \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Mechanical Contractor \_\_\_\_\_  
 Contractor's P.O. No. \_\_\_\_\_  
 Representative \_\_\_\_\_  
 Notes \_\_\_\_\_

Model(s) \_\_\_\_\_  
 Qty. \_\_\_\_\_ Notes \_\_\_\_\_  
 Qty. \_\_\_\_\_ Notes \_\_\_\_\_  
 Qty. \_\_\_\_\_ Notes \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Service \_\_\_\_\_  
 Tag No. \_\_\_\_\_



## WATER CAPACITIES

The suitability of a given regulator size is dependent on the pressure requirements where it will operate. For the pressure regulator valve size required for a specific installation, determine the following:

1. Pressure differential between inlet and outlet pressure in pounds per square inch (psi),
2. Capacity in gallons per minute, and
3. Allowable reduced pressure falloff in psi. Given these variables, use Table 2 to determine the proper size pressure regulator valve for your application.

Example: An installation has 135 psi inlet pressure, 60 psi outlet pressure (75 psi pressure differential). If a 12 gpm capacity is required with only 10 psi falloff allowable, a 1/2 in. DS06 is required.

**Table 2. Water Capacities.**

| Pressure Regulator Valve Size | Reduced Pressure Falloff (PSI) | Pressure Differential Between Inlet and Outlet. |                        |                        |                        |
|-------------------------------|--------------------------------|---|------------------------|------------------------|------------------------|
|                               |                                | 25 psi  | 50 psi                 | 75 psi                 | 100 psi or more        |
|                               |                                | Flow Capacity (US gpm)                          | Flow Capacity (US gpm) | Flow Capacity (US gpm) | Flow Capacity (US gpm) |
| 1/2"                          | 6                              | 7.26  | 8.15                   | 7.44                   | 6.47                   |
|                               | 10                             | 10.7  | 10.66                  | 9.69                   | 8.85                   |
|                               | 15                             | 14.27   | 15.72                  | 14.49                  | 13.96                  |
|                               | 20                             | 17.74   | 19.59                  | 18.98                  | 18.1                   |
| 3/4"                          | 6                              | 11.98   | 14.44                  | 14.53                  | 14.97                  |
|                               | 10                             | 17.17   | 21.05                  | 25.23                  | 26.33                  |
|                               | 15                             | 19.86   | 25.14                  | 29.32                  | 32.85                  |
|                               | 20                             | 21.27   | 26.42                  | 30.42                  | 33.82                  |
| 1"                            | 6                              | 11.18   | 11.23                  | 9.51                   | 9.11                   |
|                               | 10                             | 18.01   | 18.98                  | 17.39                  | 16.78                  |
|                               | 15                             | 25.67   | 28.14                  | 28.71                  | 26.9                   |
|                               | 20                             | 30.69   | 34.7                   | 36.19                  | 35.05                  |
| 1-1/4"                        | 6                              | 7.53  | 6.34                   | 7.26                   | 7.13                   |
|                               | 10                             | 20.25   | 17.88                  | 15.15                  | 14                     |
|                               | 15                             | 33.02   | 34.87                  | 32.63                  | 29.68                  |
|                               | 20                             | 40.07   | 44.29                  | 46.01                  | 34.61                  |
| 1-1/2"                        | 6                              | 29.81   | 32.27                  | 30.87                  | 26.81                  |
|                               | 10                             | 46.14   | 50.02                  | 49.89                  | 47.82                  |
|                               | 15                             | 66.22   | 78.42                  | 86.74                  | 84.14                  |
|                               | 20                             | 77.14   | 92.29                  | 103.82                 | 109.68                 |
| 2"                            | 6                              | 27.34   | 25.8                   | 24.48                  | 18.01                  |
|                               | 10                             | 64.81   | 97.61                  | 78.15                  | 90.09                  |
|                               | 15                             | 82.82   | 105.14                 | 119.94                 | 129.62                 |
|                               | 20                             | 87.66   | 107.83                 | 120.95                 | 132.09                 |

# Honeywell