

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)
Single-Union Sweat				
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	
Single-Union Treaded				
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	
Union Body, No Tailpeices Only				
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	
Double-Union Sweat				
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	
Double-Union Treaded				
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 15 gpm capacity is required with only 10 psi falloff allowable, a 3/4 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