



## Braukmann

### DS06 DialSet®

#### LOW LEAD PRESSURE REGULATING VALVES

#### SUBMITTAL SHEET

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

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

### APPLICATION

The Resideo 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):**  
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 Listed  
CSA Certified  
IAPMO/UPC Listed  
NSF 61 Compliant
- Thermal Expansion:** Balanced cartridge design allows for thermal expansion properties. Use expansion tanks and safety valves where applicable.

### MATERIALS

- Body:** Brass
- 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)	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 Threaded</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 Tailpieces 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
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 Threaded</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



## 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.

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

## DS06 FIXTURE UNIT

Flow rates based on submittal sheet DS06, based on flush tank systems with a 15 psi fall-off defined by IAPMO/ANSI UPC 1-2009.

Size	l/s	GPM	Fixture Units
1/2"	0.99	15.72	21
3/4"	1.58	25.14	40
1"	1.77	28.14	48
1-1/4"	2.19	34.87	70
1-1/2"	4.93	78.42	270
2"	6.61	105.14	400

Capacities are based on a 100 psi supply pressure and a difference of 50 psi or more between the initial supply pressure and the reduced no-flow pressure. Check local water pressures before selection.

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