

# DS06D,G Dial Set Pressure Regulating Valve

## SPECIFICATION DATA



## FEATURES

- Built-in, factory-calibrated outlet pressure adjustment dial.
- Noncorroding unitized cartridge contains all working parts and is easily replaceable.
- Outlet pressure range from 15 to 130 psi in all models, inlet rating 400 psi.
- Includes built-in strainer and thermal bypass.
- Narrow design to accommodate restricted installation requirements.
- Balanced seat construction provides superior pressure regulation.
- Inlet and outlet are internally threaded NPT, and externally threaded for use with union assemblies.
- Gauge taps provided on all models.

## APPLICATION

The Honeywell DS06D,G Dial Set is a high quality pressure regulating valve that maintains a constant outlet pressure over a wide range of inlet supply pressures. It is ideally suited for potable water and irrigation applications requiring accurate regulation.

The wide outlet pressure range, high inlet pressure, and compact design allow flexibility in installation and application.

To facilitate setup and checkout, the DS06D,G features a calibrated outlet pressure set dial that allows outlet pressure adjustments without the use of a gauge in most applications.



# SPECIFICATIONS

**Model:** DS06D,G Dial Set Pressure Regulating Valve.

**Construction Materials:**

Body: Bronze.  
 Internal Parts: Stainless steel, NBR, and engineered plastics.  
 Regulator Mechanism: Fabric reinforced diaphragm.

**Thermal Bypass Relief:** Integral thermal bypass relief mechanism on all models.

**Seat Design:** Balanced single seat.

**Inlet Pressure (Maximum):** 400 psi.

**Reduced Pressure Range:** 15 to 130 psi (all models).

**Outlet Pressure:** Factory set at 60 psi.

**Dial Calibration:** +/- 4 psi.

**Differential:** 14 psi minimum (for optimum regulation).

**Reduced Ratio:** 10:1 maximum.

**Temperature (Maximum):** 180° F (82° C).

**Ambient Temperature Range:** 33° F to 140° F (1° C to 60° C).

**Pipe Sizes Available:** 1-1/2 and 2 in.

**Connections:**

All models have internal NPT on inlet and outlet and external union connection on inlet and outlet.  
 Single and Double Union Sweat and Thread models.

**Strainer Screen Size:** 0.040 in. (1.0 mm), equivalent to 18 mesh.

**Gauge Taps:** 1/4 in. NPT (two, one on each side of body).

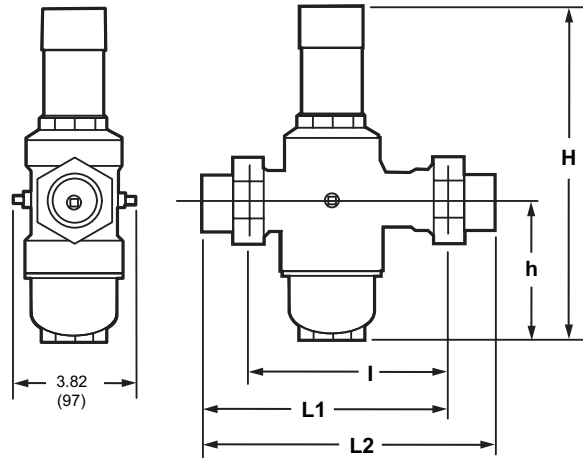
**Weight (With One Union):**

1-1/2 in. is 7.7 lb (3.5 kg).  
 2 in. is 8.5 lb (3.9 kg).

**Approvals:**

ASSE 1003, City of LA, CSA, IAPMO.

**Dimensions:** See Fig. 1.



SIZE	DIMENSIONS IN IN. (MM)			THREADED		SWEAT	
	H	h	I	L1	L2	L1	L2
1-1/2	11-13/16 (299)	5 (126)	6-3/8 (163)	7-13/16 (198)	9-3/16 (234)	7-7/8 (201)	9-3/8 (239)
2	11-13/16 (299)	5 (126)	6-3/8 (163)	7-7/8 (200)	9-5/16 (237)	8-5/16 (211)	10-3/16 (259)

M11203

**Fig. 1. DS06D,G installation dimensions in inches (mm).**

## Water Capacities (See Table 1)

The suitability of a given regulator size is dependent on the pressure requirements of each installation. To determine the pressure regulator valve size required for a specific installation, calculate the following:

1. Pressure differential between inlet and outlet pressure in pounds per square inch (psi).
2. Capacity in gallons per minute (gpm), and
3. Allowable reduced pressure falloff in psi.

Given these variables, use Table 1 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 30 gpm capacity is required with only 10 psi falloff allowable, a 1-1/2 in. DS06D,G is required. This pressure regulator valve allows a flow capacity up to 46 gpm with a 10 psi falloff at a no flow pressure differential of 75 psi.

Table 1. Water Capacities.

Size (in.)	Reduced Pressure Fall off (psi)	Pressure Differential Between Inlet and Outlet (psi)—No Flow							
		25		50		75		100	
		Flow Capacity (US gpm)	Velocity	Flow Capacity (US gpm)	Velocity	Flow Capacity (US gpm)	Velocity	Flow Capacity (US gpm)	Velocity
1-1/2	6	13	2.0	15	2.4	17	2.7	21	3.3
	10	36	5.7	43	6.8	46	7.2	54	8.5
	15	65	10.2	76	12.0	84	13.2	96	15.1
	20	88	13.9	102	16.1	114	18.0	132	20.8
2	6	15	1.4	18	1.7	22	2.1	27	2.6
	10	41	3.9	49	4.7	57	5.4	66	6.3
	15	75	7.2	88	8.4	101	9.7	114	10.9
	20	104	9.9	124	11.9	141	13.5	163	15.6

## DS06D,G PARTS AND ACCESSORIES

Product Number Description

### Replacement Parts

K06B1030	Strainer Kit for D06G and DS06G, 1-1/2 in. and 2 in., includes strainer, strainer support, and strainer cup O-ring.
K06D1044	Cartridge Kit for all D06 and DS06, 1-1/2 in. and 2 in., includes cartridge, cartridge O-ring, strainer cup O-ring, U-seal, and protection washer.
272852	Strainer Cup for D06G and DS06G, 1-1/2 in. and 2 in., includes plastic strainer cup and strainer cup O-ring.
272867	Bonnet kit for D06G and DS06G, 1-1/2 in. and 2 in., includes preassembled bonnet, protection washer, and spring.

### Union Kits

K06U5034	Union Kit Sweat, 1-1/2 in., includes sweat tailpiece, union nut, and gasket, and fits all 1-1/2 in. D06 and DS06 Valves.
K06U1042	Union Kit Sweat, 2 in., includes Sweat threaded tailpiece, union nut, gasket, and fits all 2 in. D06 and DS06 Valves.

**Automation and Control Solutions**

Honeywell International Inc.  
1985 Douglas Drive North  
Golden Valley, MN 55422  
customer.honeywell.com

Honeywell Limited-Honeywell Limitée  
35 Dynamic Drive  
Toronto, Ontario M1V 4Z9

