



## Braukmann DS05 Lead Free

### 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 DS05 Pressure Regulating Valve is a high-quality balanced pressure reducing valve that maintains a constant outlet pressure over a wide range of inlet supply pressures. It is suitable for potable water and irrigation applications, both indoor and outdoor.

### SPECIFICATIONS

- Model:** DS05 Pressure Regulating Valves
- Seat Design:** Balanced single seat construction
- Inlet Pressure (Maximum):** 250 psi (1724 kPa)
- Reduced Pressure Range:** 15 to 80 psi (103.4 to 551.6 kPa)
- Outlet Pressure:** Factory set at 50 psi (344.7 kPa)
- Screw Adjustment (1 turn):** +/- 7 psi (48.3 kPa)
- Differential:** 14.5 psi (100 kPa) 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:** 3/4 in and 1 in
- Connections:** Female NPT threaded, PEX F1960, and Push-Fit
- Low Lead Content:** < 0.08% Lead
- Approvals:**
  - ASSE 1003 listed
  - ASSE 1061 (Push Connect only)
  - CSA B356 listed
  - IAPMO listed
  - NSF 61/372 compliant

### MATERIALS

- Body:** Lead-free ECO 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 0.08% of lead by weighted average.

### DIMENSIONS

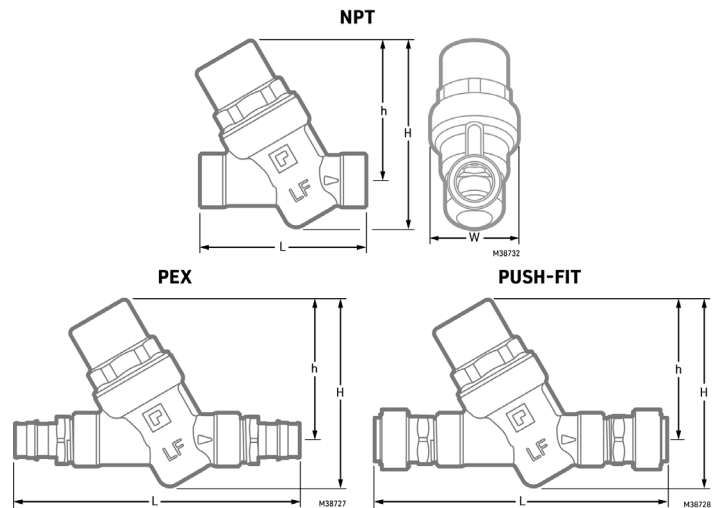


Fig. 1. Dimensional Diagrams.

Table 1. Dimensions.

Model Number	Pipe Size	Dimensions, Approximate					Weight	Connection
		Length (L)	Height (H)	Height (h)	Width (W)			
		Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	lbs (g)		
DS05-101-LF/U	3/4"	3.7 (95)	4.2 (107)	3.1 (80)	2.0 (50)	1.33 (607)	NPT	
DS05-101-SB-LF/U	3/4"	6.4 (162.8)	4.2 (107)	3.1 (80)	2.0 (50)	1.70 (775)	Push Connections	
DS05-101-PEX-LF/U	3/4"	6.2 (156.8)	4.2 (107)	3.1 (80)	2.0 (50)	1.60 (730)	PEX Connections	
DS05-102-LF/U	1"	3.8 (97)	4.2 (107)	3.1 (80)	2.0 (50)	1.48 (673)	NPT	
DS05-102-SB-LF/U	1"	6.8 (173.4)	4.2 (107)	3.1 (80)	2.0 (50)	2.0 (906)	Push Connections	
DS05-102-PEX-LF/U	1"	7.0 (177.4)	4.2 (107)	3.1 (80)	2.0 (50)	1.98 (898)	PEX Connections	



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## 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 (gpm),
3. Allowable reduced pressure falloff in psi. Given these variables, use Fig. 2 to determine the proper size pressure regulator valve for your application.

**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)
3/4"	6.0	7.5	8.8	9.7	10.1
	10	12.8	14.5	15.9	16.7
	15	18.5	22.0	23.3	24.7
	20	22.5	26.9	29.5	31.3
1"	6.0	7.0	7.9	5.3	5.3
	10	13.9	17.2	15.9	17.2
	15	22.5	28.6	32.1	36.5
	20	27.7	34.8	40.9	46.2

## DS05 FIXTURE UNIT

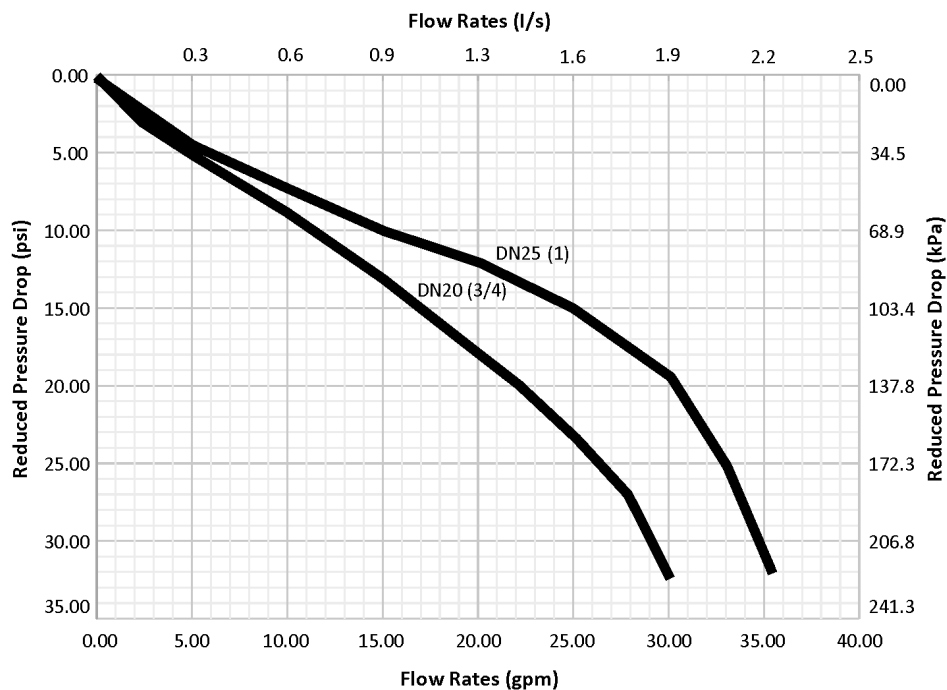
Flow rates based on submittal sheet DS05, based on flush tank systems with a 15 psi fall-off defined by IAPMO/ANSI Uniform Plumbing Code® and ICC International Plumbing Code®.

**Table 3.**

Size	l/s	GPM	Fixture Units
3/4"	1.39	22.0	34
1"	1.80	28.6	50

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.



**Fig. 2. Flow Capacities.**

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