

EB-45 Pressure Reducing and Regulating Valve

DESCRIPTION

The EB-45 Series is a half-cartridge based pressure reducing and regulating valve with a bronze body. The valve resembles the traditional regulators with a spring chamber and an adjusting screw, but offers the performance of a cartridge based valve. The EB-45 is assembled using modular construction methods and features end connections threaded for both FIP and union. A connection for pressure gauge is also available for 3/4" and 1" models. These valves are supplied by the factory with a standard delivery setting of 45 psi. The outlet pressure can be adjusted from 10-70 psi without changing the spring.

The EB-45 is intended for use where supply line pressure does not exceed 300 psi (400 psi 1/2", 3/4", and 1"). This regulator is suited for either cold or hot (to 180°F) water service. Lead Free* models are also available.



Compact pressure reducing and regulating valves: Designed for small and economic considerations.

Certified to ASSE Standard 1003 and listed by IAPMO and ASSE: Inspector Friendly, peace of mind.

By-pass mechanism integral with the cartridge:

No add-on or small parts, longer life and more reliable performance.

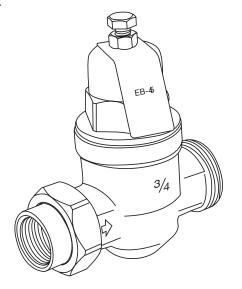
Quick and Easy service:

Back off pressure and remove spring chamber, pressure spring and button and replace cartridge and you have a new valve.

Every valve is tested for perfomance prior to shipping: Specify and install with confidence.

SPECIFICATION

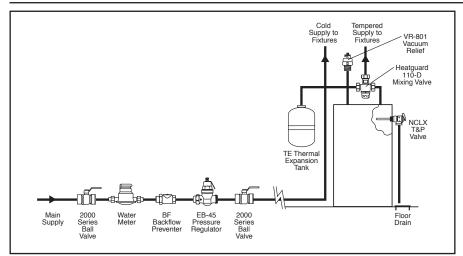
A pressure regulating valve shall be installed to reduce high supplies of incoming water pressure. The valve shall be approved in accordance with ASSE standard 1003 and IAPMO. The valve shall have a bronze body, brass and stainless steel internals, an EP diaphragm, stainless steel strainer screen and an inbuilt backpass check. The valve shall be a Cash Acme EB-45.





EB-45 Pressure Reducing and Regulating Valve

TYPICAL INSTALLATION



SPECIFICATION DATA

Performance:

Maximum temperature 180°F (water)

Maximum inlet pressure 400 psi for sizes 1/2", 3/4", and 1"

......300 psi for sizes 1-1/4", 1-1/2" and 2"

Materials:

Body.....Bronze Spring ChamberIron

Adjusting Spring Steel (zinc plated)
Pressure Plate Steel (zinc plated)

Diaphragm EPDM

Body Seat Engineered Polymer

Seat Disc EPDM Piston Brass

Strainer Screen Stainless steel

O-ring......EP

CONNECTIONS

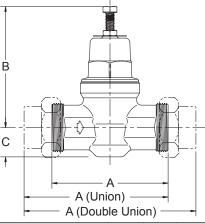
All EB45 models include both FIP and union connection threading on both ends.

3/4" and 1" models are also available with 1/4" NPT connection for pressure gauge.

CERTIFICATIONS

Cash Acme Type EB-45 Pressure Regulators are certified to ASSE 1003 and CSA B356 and are listed by ASSE and IAPMO (cUPC).

*For technical information on the EB-45 with SharkBite® Connection please see the EB-45DSB Spec Sheet (HC005).



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Valve Size	Α	В	С
1/2"	3.54		
3/4"	3.7	4.35	1.05
1"	4.17		
1-1/4"	4.80	7.58	1.35
1-1/2"			1.58
2"			1.84
1/2" Union	4.31	4.35	1.05
3/4" Union	4.47		
1" Union	5.17		
1-1/4" Union	5.68	7.58	1.35
1-1/2 Union	5.90		1.58
2" Union	5.99		1.84
1/2" Double Union	5.07		1.05
3/4" Double Union	5.23	4.35	
1" Double Union	6.17		
1-1/4" Double Union	6.55		1.35
1-1/2 Double Union	6.99	7.58	1.58
2" Double Union	7.18		1.84

WATER CAPACITY (GPM)

Pipe Size	P2 (psi)	Differential Pressure P1-P2 (psi)			
		10	25	50	100+
1/2"	5	1.6	3.3	4.4	5.7
	10	8.9	11.0	12.3	12.4
	15	11.7	16.8	18.8	18.5
	20	12.8	19.2	23.5	23.9
3/4"	5	1.3	1.8	2.5	3.0
	10	8.0	12.5	13.5	15.3
	15	13.9	19.2	22.9	23.9
	20	15.7	23.1	27.4	30.3
1"	5	1.5	2.0	2.7	6.9
	10	8.7	12.8	13.6	17.5
	15	14.2	20.9	27.3	28.0
	20	17.3	25.7	30.9	42.8
1-1/4" 1-1/2" 2"	5	18.5	20.0	25.4	25.7
	10	43.2	45.5	48.6	50.4
	15	64.8	67.4	69.5	70.5
	20	77.7	80.3	87.8	95.2

* For our Lead Free models, surfaces that are in contact with consumable water contain less than 0.25% lead by weight.

