

SharkBite® EB-45DSB Pressure Reducing and Regulating Valve

DESCRIPTION

The Cash Acme SharkBite® EB-45DSB 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 SharkBite® EB-45DSB is assembled using modular construction methods and features SharkBite connections in 1/2" through 1" sizes. Connect the SharkBite® pressure reducing and regulating valve to copper tubing, and CTS CPVC and PEX in seconds with ease. 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 200 psi. This regulator is suited for either cold or hot (to 180°F) water service.

FEATURES AND BENEFITS

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

Certified by ASSE Standard 1003, 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.

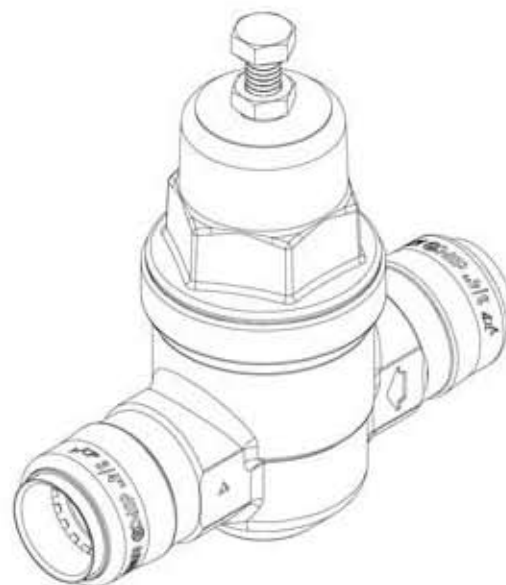
Every valve is tested for performance prior to shipping:
Specify and install with confidence.

Instant push-fit connections for increase ease of use:
No soldering, glue or tools required to make connection.

Rugged bronze body:
Superior reliability, improved user safety.

SPECIFICATION

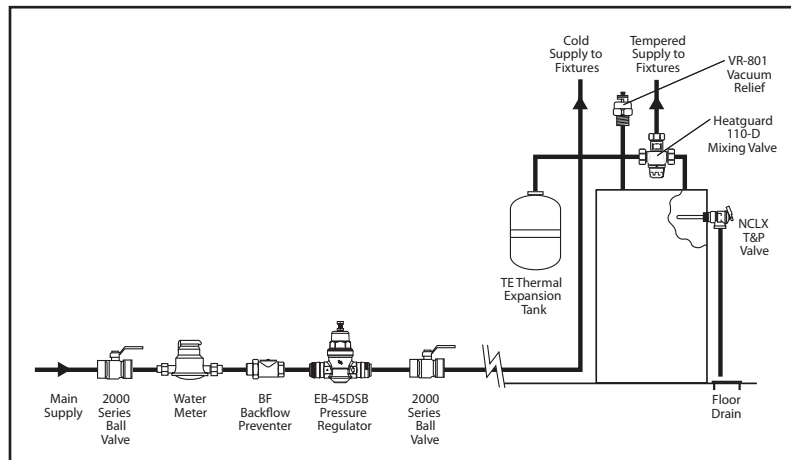
A pressure regulating valve shall be installed to reduce high supplies of incoming water pressure. The valve shall be approved in accordance with ASSE standard 1003 and IAPMO. The valve shall have a bronze body, brass and stainless steel internals, an EP diaphragm, stainless steel strainer screen, an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



**Now
available
in 1/2"
and 1"**

SharkBite® EB-45DSB Pressure Reducing and Regulating Valve

TYPICAL INSTALLATION



SPECIFICATION DATA

Performance:

Maximum pressure.....200 psi
 Maximum temperature 180°F (93°C) (water)
 Service Potable Water
 Outlet pressure range..... 10-70 psi

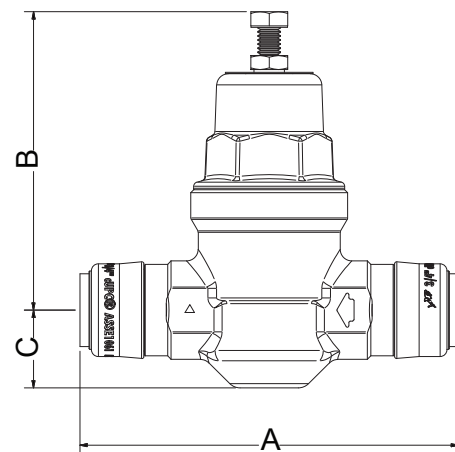
EB-45SB Valve Materials:

Body Bronze
 Spring chamber Iron
 Adjustable Spring Steel (Zinc plated)
 Pressure Plate Steel (Zinc plated)
 Diaphragm EPDM
 Body Seat Polysulphone
 Seat disc EPDM
 Piston Stainless/Brass
 Strainer Screen Stainless Steel
 SharkBite® Materials:

Body DZR brass
 O-ring EPDM
 Grab ring Stainless steel
 Nose Cone Stainless Steel
 Tube support liner Polysulfone

CERTIFICATIONS

The EB-45 Pressure Reducing Valve is certified to ASSE 1003 and is listed ASSE and IAMPO (UPC). Certified to CSA B356 pending. The SharkBite® push-fit fittings have been design certified and listed to ASSE 1061/NSF 61. The SharkBite® push-fit fittings are listed by IAPMO and are certified for potable and hydronic heating water distribution (note: Glycol mixture for hydronics is not to exceed 50% concentration). The SharkBite® Push-fit fittings have been certified for underground applications and as a manufactured joint without access panels and they meet UPC, IPC and cUPC requirements.



Valve Size	A	B	C
1/2"	4.54	4.35	1.05
3/4"	5.10		
1"	6.00		

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