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EB-45 Pressure Regulating Valve

DESCRIPTION

The EB-45 Series is a lead-free¹ half-cartridge based pressure reducing and regulating valve with a bronze body. The valve construction is similar to a traditional regulator in that it retains a separate spring chamber and adjusting screw, but offers the simplicity and maintenance benefits of a cartridge based valve. The EB-45 is assembled using modular construction methods and features end connections threaded for both FIP and union in ½" through 2" sizes. A connection for a pressure gauge is also available for ¾" and 1" models.

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

FEATURES AND BENEFITS

Modular Cartridge Design reduces the number of parts requiring service: Quick and Easy Service/Repair.

Rugged bronze body: Superior reliability, improved user safety.

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

Certified to ASSE Standard 1003 and CSA Standard B356. Listed by IAPMO and ASSE and certified lead free complying with NSF 372: Inspector friendly for peace of mind.

By-pass mechanism integral with the cartridge: No add-on or small parts, longer life and more reliable performance.

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

Assembled and tested in the USA: Prepared in our manufacturing plant in Cullman, Alabama.

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, CSA standard B356 and IAPMO UPC. The valve shall have a bronze body, brass and stainless steel internals, an EP diaphragm, stainless steel strainer screen and an inbuilt back-pass check. The valve shall be a **Cash Acme EB-45**.

1-1/4", 1-1/2", 2"

1/2" and 3/4"

1"

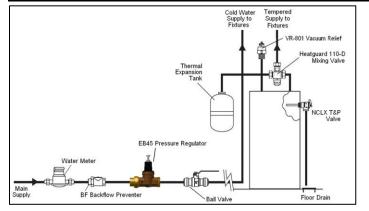
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EB-45 Pressure Regulating Valve

TYPICAL INSTALLATION



SPECIFICATION DATA

Performance: Maximum temperature Maximum inlet pressure	. 400 psi (½", ¾" & 1") 300 psi (1 ¼", 1 ½", & 2") Water
Outlet pressure range	10-70 psi
Materials:	
Body	Lead Free ¹ Bronze
Spring Chamber:	
1⁄2" and 3/4" Models	
1" through 2" Models	
Adjusting Spring	Steel (zinc plated)
Diaphragm	Reinforced EPDM
Body Seat:	
1/2" and 3/4" Models	Polyphenylene Ether +PS
1" through 2" Models	Polysulfone
Seat Disc.	EPDM
Piston	. Stainless Steel/Brass
Strainer Screen	Stainless steel
O-ring	EP

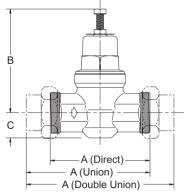
AVAILABLE CONNECTIONS

All EB45 models ² include both FIP and union connection threading or	n both ends.
Threaded (NPT) Inlet & Outlet	1", 1 ¼", 1 ½" & 2"
Threaded (NPT) Union, Threaded (NPT) ¹ / ₂ ", ³ / ₄ ",	1", 1 ¼", 1 ½" & 2"
Sweat Copper Union, Threaded (NPT) 1/2", 3/4",	1", 1 ¼", 1 ½" & 2"
Threaded (NPT) Union Inlet & Outlet	1", 1 ¼", 1 ½" & 2"
Sweat Copper Union Inlet & Outlet	1", 1 ¼", 1 ½" & 2"
CPVC Union Inlet & Outlet	
PEX Barb Union Inlet & Outlet	
Union SharkBite [®] Inlet & Outlet ³ ¹ / ₂ ", ³ / ₄ " &	<u>k</u> 1"
Direct SharkBite [®] Inlet & Outlet ³ ¹ / ₂ ", ³ / ₄ ",	1" & 1 ¼"
Direct SharkBite® Inlet & Outlet with Slip Feature ³ ¹ / ₂ " & ³ / ₄ "	1
270 1.40 1.1 1 1.1 1.1	

3/4" and 1" models are also available with a 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). **The EB-45 Pressure Regulator** is compliant with NSF/ANSI 61 and NSF/ANSI 372.



DIMENSIONS (Inches)

	Connection	Α				
Size	Style	Direct	Single Union	Double Union	В	с
1/2"	NPT	3.23"	3.99"	4.76"	4.37"	0.75"
	Sweat	-	3.98"	4.73"		
	SharkBite	4.24"	-	5.88"		
	NPT	3.39"	4.15"	4.92"		
	Sweat	-	4.32"	5.26"		
3/4"	CPVC	-	-	5.32"		
	Barb	-	-	5.68"		
	Sharkbite	4.48"	-	7.05"		
	NPT	4.17"	5.17"	6.17"	4.35"	1.05"
	Sweat	-	5.30"	6.42"		
1"	CPVC	-	-	6.48"		
	Barb	-	-	6.97"		
	Sharkbite	6.00"	-	8.71"		
	NPT	4.80"	5.68"	6.55"	7.58"	1.35"
1 1/4"	Sweat	-	5.87"	6.93"		
	SharkBite	9.42"	-	-		0.98"
1 1/2"	NPT	4.80"	5.90"	6.99"		1.58"
1/2	Sweat	-	5.99"	7.17"		
2"	NPT	4.80"	5.99"	7.18"		1.0.4"
	Sweat	-	6.24"	7.68"		1.84"

WATER CAPACITY (gpm)

Pipe	P ₂	Differential Pressure (P1-P2) PSI					
Size	Variation (PSI)	10	25	50	100+		
4.01	5	1.8	2.3	2.4	2.8		
1/2" &	10	4.8	5.3	6.0	8.9		
∝ 3/4"	15	9.1	10.0	10.9	11.8		
5/4	20	14.3	15.8	16.5	16.6		
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"	5	18.5	20.0	25.4	25.7		
1 1/2"	10	43.2	45.5	48.6	50.4		
&	15	64.8	67.4	69.5	70.5		
2"	20	77.7	80.3	87.8	95.2		

¹For all models, surfaces that are in contact with consumable water contain less than 0.25% lead by weight.

²Except for Direct SharkBite models.

³For technical information on the EB-45 models with SharkBite connections, please see the EB45-DUSB, EB45-DSB or EB45-SDSB Spec Sheets.

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