

Cash Acme® EB45 Pressure Regulating Valve

The Cash Acme® EB45 Pressure Regulating Valve features the simplicity and performance of a cartridge-based design with the added benefit of direct access to the pressure adjusting screw. The EB45 comes factory set at 60 psi and may be adjusted between 10-70 psi.

Approved Applications

Commercial and domestic water applications.

Specification Data

Performance

Maximum Inlet Pressure**	400 psi (1/2", 3/4" and 1") 300 psi (1-1/4", 1-1/2" and 2")
Inlet Pressure Exceeding 150 psi**	Two-step PRV system required
Temperature Range	33°F - 180°F (0.6°C - 82.2°C)
Service	Water
Outlet pressure range	10-70 psi

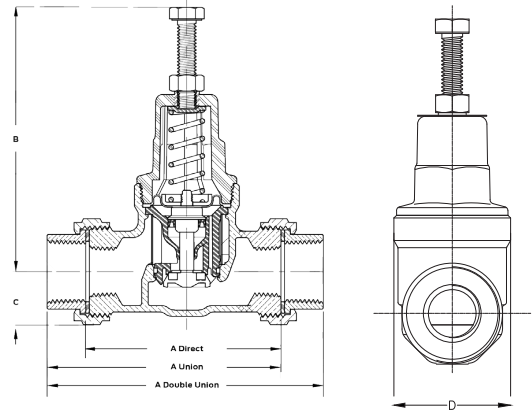
Materials

1	Body	Lead-Free ¹ Brass
2	Spring Chamber	1/2" and 3/4" Models Reinforced Engineered Polymer or Iron
		1" through 2" Models Iron
3	Adjusting Spring	Steel (Zinc Plated)
4	Diaphragm	Reinforced EPDM
5	Body Seat	1/2" and 3/4" Models Polyphenylene Ether
		1" through 2" Models Polysulfone
6	Seat Disc	EPDM
7	Piston	Stainless Steel/Brass
8	Strainer Screen	Stainless Steel
9	O-ring	EPDM

SharkBite Union Materials

Body	Lead-Free ¹ DZR Brass
O-ring	EPDM
Grab Ring	Stainless-Steel Tube Support
Liner	Polysulfone

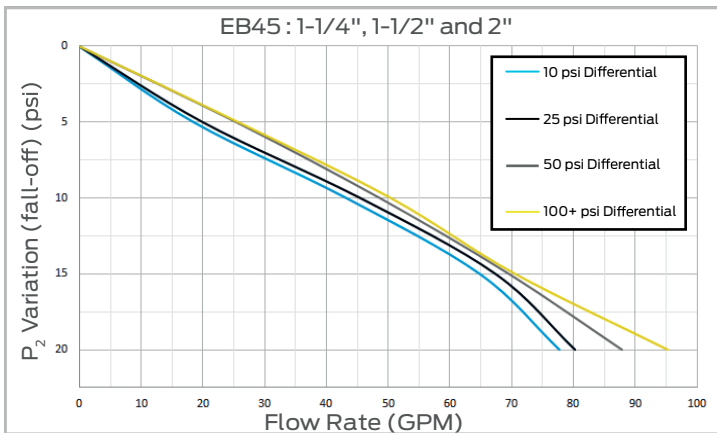
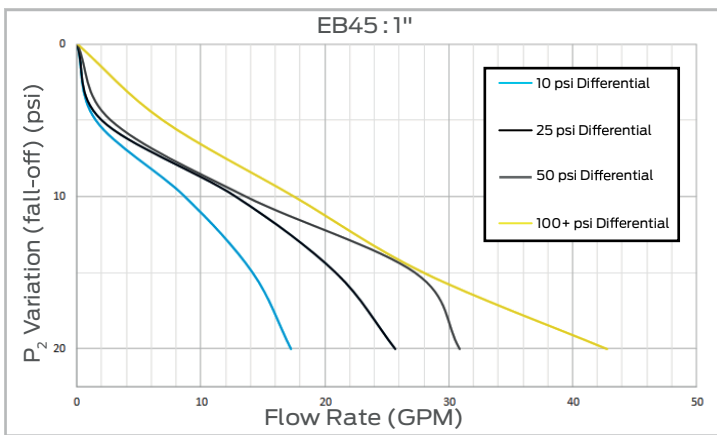
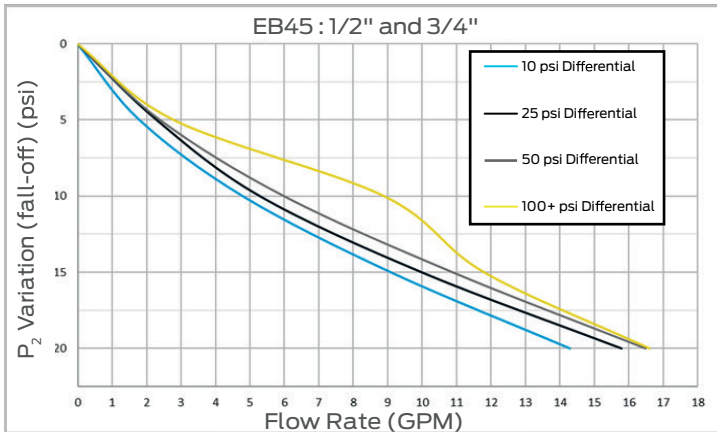
¹ Lead free for all models. Surfaces that are in contact with consumable water contain less than 0.25% lead by weight.



Dimensions (Inches)

Size	Connection Style	A			B	C	D
		Direct	Single Union	Double Union			
1/2"	NPT	3-1/4	4	4-3/4	4-3/8	3/4	1-47/64
	Sweat	-	4	4-3/4	4-3/8	3/4	1-47/64
	Cold Expansion	-	-	5-7/16	4-3/8	3/4	1-47/64
	SharkBite	4-1/4	-	5-15/16	4-3/8	3/4	1-47/64
	Copper Press	-	-	5-13/16	4-3/8	3/4	1-47/64
3/4"	NPT	3-7/16	4-3/16	4-15/16	4-3/8	3/4	1-47/64
	Sweat	-	4-5/16	5-1/4	4-3/8	3/4	1-47/64
	CPVC	-	-	5-3/8	4-3/8	3/4	1-47/64
	Barb	-	-	5-11/16	4-3/8	3/4	1-47/64
	Cold Expansion	-	-	6-3/32	4-3/8	3/4	1-47/64
1"	SharkBite Slip	7-5/8	-	7-3/64	4-3/8	3/4	1-47/64
	SharkBite	4-1/2	-	7	4-3/8	3/4	1-47/64
	Copper Press	-	-	6-27/64	4-3/8	3/4	1-47/64
	NPT	4-3/16	5-3/16	6-3/16	4-3/8	3/4	2-1/8
	Sweat	-	5-5/16	6-1/2	4-3/8	1	2-1/8
1-1/4"	CPVC	-	-	6-1/2	4-3/8	1	2-1/8
	Barb	-	-	7	4-3/8	1	2-1/8
	Cold Expansion	-	-	7-7/16	4-11/32	1-3/64	2-1/8
	SharkBite	4-1/2	-	8-45/64	4-11/32	1-3/64	2-1/8
	Copper Press	-	-	7-15/64	4-3/8	3/4	2-1/8
1-1/2"	NPT	4-3/16	5-11/16	5-11/16	7-11/16	1-3/8	3-7/64
	Sweat	-	5-7/8	5-11/16	7-11/16	1-3/8	3-7/64
	Cold Expansion	-	-	8-19/32	7-49/64	1-11/32	3-7/64
2"	SharkBite	7-49/64	-	8-3/4	7-49/64	63/64	3-7/64
	Copper Press	-	-	7-9/16	7-11/16	1-3/8	3-7/64
	NPT	4-3/16	5-15/16	7	7-11/16	1-5/8	3-5/32
2"	Sweat	-	6	7-3/16	7-11/16	1-5/8	3-5/32
	Cold Expansion	-	-	8-61/64	7-49/64	1-37/64	3-5/32
	SharkBite	-	-	9-1/16	7-49/64	63/64	3-7/64
	Copper Press	-	-	8-13/64	7-11/16	1-5/8	3-5/32
	NPT	4-3/16	6	7-3/16	7-11/16	1-7/8	3-11/16
2"	Sweat	-	6-1/4	7-11/16	7-11/16	1-7/8	3-11/16
	Cold Expansion	-	-	10	7-49/64	1-7/8	3-11/16
	SharkBite	-	9-5/16	-	7-11/16	1-7/8	3-11/16
	Copper Press	-	-	8-31/64	7-11/16	1-7/8	3-11/16

Cash Acme EB45 Flow Capacity

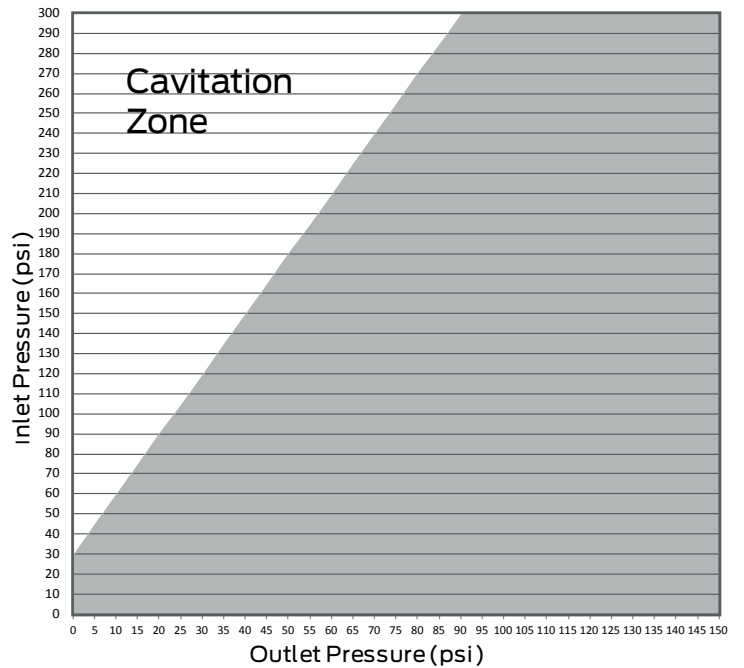


Pressure Differential: Difference between the inlet pressure and the PRV set pressure.

P₂ Variation: Pressure reduction of the outlet due to the demand created downstream when a fixture is opened and water is allowed to flow through the PRV.

**If inlet pressure is higher than 150 psi, it's recommended to install a two-step PRV system.

Cash Acme PRV Cavitation Chart



Certifications & Listings

ASSE 1003, CSA B356, NSF/ANSI/CAN 372, NSF/ANSI/CAN 61



Refer to local plumbing code

Product Submittal

Name	
Date	
Architect/Owner	
Contractor	
Tag	
Notes	