

Safety Anti-Scald Valve ASV

INSTALLATION

 The valve is easily installed in line between the shower outlet and showerhead or hose (standard I/2"connections).

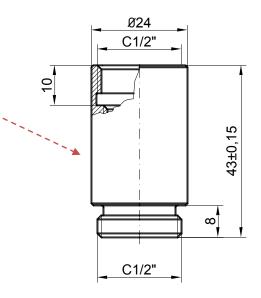


FEATURES

- This safety valve eliminates the danger of scalding by means of an automatic shut-down when through-put temperatures exceed 48° C±2°C (118°F±4°F).
- The heart of the device is a thermostatic wax element that expands and contracts in relation to the water temperature.
- The valve causes no flow restriction.

OPERATION

- Turn on cold water first, then add hot until the desired temperature is met (do not turn on hot by itself).
- Should there be a reduction in the cold water supply temperature causing a rise in output exceeding 48°C±2°C (118°F±4°F), the valve will automatically close, shutting water delivery down to a trickle.
- Once the supply temperatures are normalized (usually a few seconds), the valve will open, permitting showering to continue.
- Should the faucet or shower valve be turned off while the automatic valve is still closed, water will continue to drip until valve is clear of the remaining hot water.



ATTENTION

 Since this automatic shut-off valve is linked directly to a shower device, it leaves the function of the tub filling mode uneffected (no limit on hot temperature through that channel)



Two Handle Plastic Cartridges 1/4 Turn • ½" Sizes Model HV-½"

TECHNICAL CHARACTERISTICS OF THE CERAMIC DISCS:

Material: Al₂O₃
Surface roughness Ra: < 0.2 μm
Contact surface area: 50-80%

TECHNICAL CHARACTERISTICS OF THE CARTRIDGE:

Movement range: 90°

Max. temperature: 90°C/194°F

Max. tightening torque:

8-9 Nm / 70-80 lbf•in

Pressure test: pneumatic 6 bar / 87 psi

hydraulic 35 bar / 500 psi

Flow rate:

(3 bar / 45 psi, test faucet, EN 817)

35 I/min / 9.3 gpm without resistance

Endurance test:

EN 200 200 000 cycles

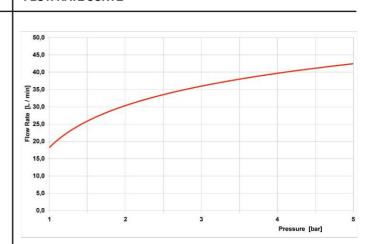
ASME A112.18.1 500 000 cycles

- Finest engineering polymers assure high strength, dimensional precision and resistance to liming.
- Ideal for stainless steel faucet.

Open-Anti-Clockwise blue gasket

Open-Clockwise red gasket

FLOW RATE CURVE



HV - 1/2"

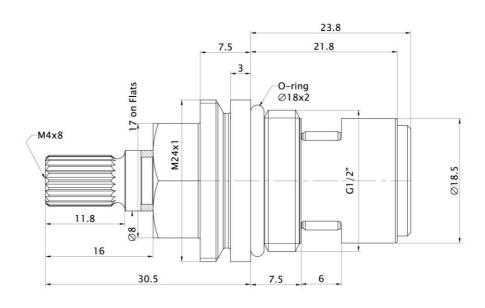
CARTRIDGES

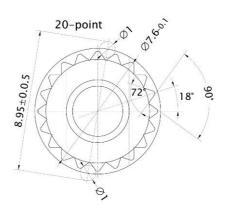
I/4 Turn • ½" Sizes

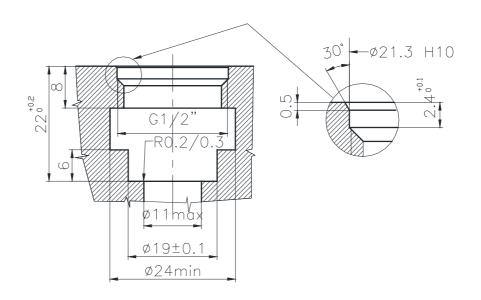
Cartridge

Stem of the cartridge

Bodies









Ceramic Mixing Cartridges With Integral Pressure Balancing Single-Lever & Rotary (Cycling) Type • 40 mm Sizes Models PBS-40 • PBR-40

TECHNICAL CHARACTERISTICS OF THE CERAMIC DISCS:

Material:	AL_2O_3
Surface roughness Ra:	0.2 μm
Contact surface area:	50-80%

TECHNICAL CHARACTERISTICS OF THE CARTRIDGE:

Max. temperature:	90°C / 194°F	
Mixing angle:	110°	150°
Opening angle:	25°	0°
	PBS-40	PBR-40

Recommended tightening torque:

12-13 Nm / 106-115 lbf•in

Pressure test:

Pneumatic: 6 bar / 87 psi
Hydraulic: 35 bar / 500 psi

Flow rate:

(3 bar / 45 psi, test faucet, EN 817)

PBS-40	PBR-40			
13.0	16.0	l/min	with resistance "C"	
3.4	4.2	gpm	with resistance "C	
13.8	21.5	l/min	without resistance	
3.6	5.6	gpm	without resistance	

Outlet water temperature variation:

±1.78°C / ±3°F

Cold water supply failure test:

max. 1.9 I/min / 0.5 gpm within 5s

Endurance test:

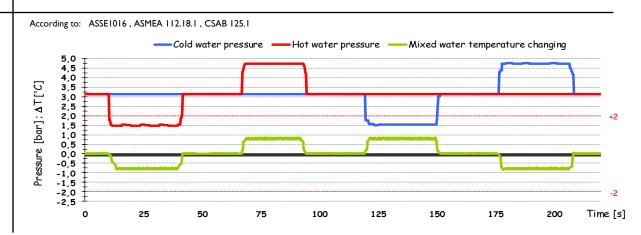
EN 817 70 000 cycles

ASME A 112.18.1M 500 000 cycles

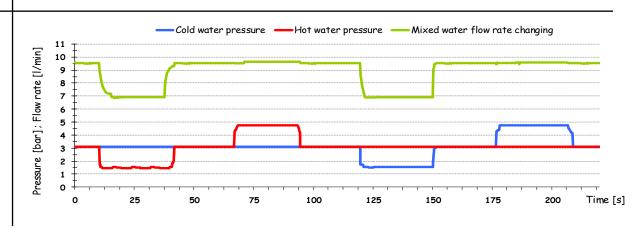
- All-in-one cartridge provides manual selection of volume (PBS-40 only) and temperature, automatic compensation for differential pressure variations, assuring unchanged temperature output.
- Two models are interchangeable.
- Model PBR-40 is reversible for back-toback installations.
- Complies with ASSE 1016 standard.



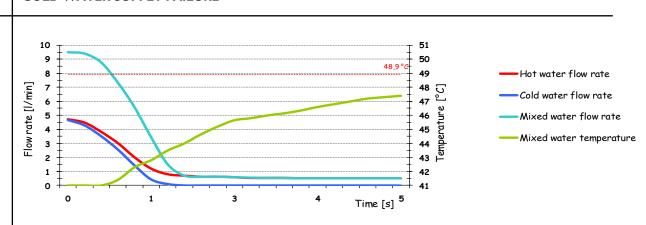
STABILITY OF MIXED WATER TEMPERATURE WITH +/-50% CHANGING PRESSURE SUPPLY



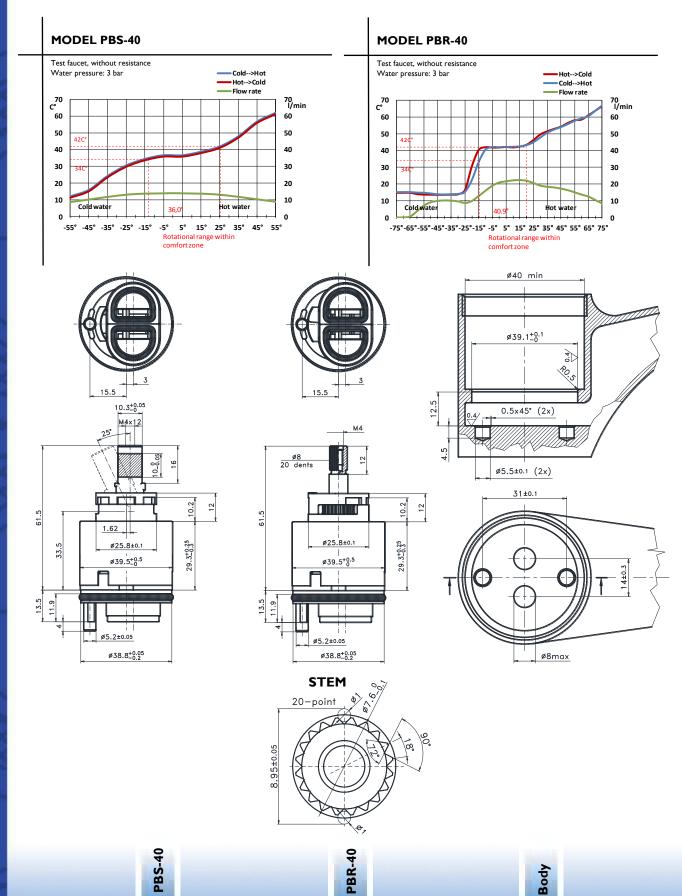
MIXED WATER FLOW RATE WITH +/-50% CHANGING PRESSURE SUPPLY



COLD WATER SUPPLY FAILURE



FLOW RATE & HYSTERESIS CURVES





Ceramic Single-Fluid Cartridge

28 mm Size

Model SF-28

TECHNICAL CHARACTERISTICS OF THE CERAMIC DISCS:

Material:	AL_2O_3
Surface roughness Ra:	0,2 μm
Contact surface area:	50-80 %

TECHNICAL CHARACTERISTICS OF THE CARTRIDGE:

Opening angle:	25°
Max. water pressure:	35 bar / 500 psi
Max. temperature:	90°C / 194°F
Max. tightening torque:	12 Nm / 106 lbf•in
Pressure test: air	6 bar / 87 psi
water	35 bar / 500 psi

Flow rate:

(3 bar / 45 psi, test faucet, EN 817)

24,6 l/min / 6,5 gpm without resistance

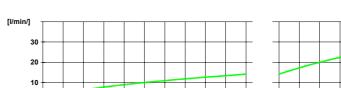
Endurance test:

EN 817 70 000 cycles

ASME A112.18.1 500 000 cycles

FLOW RATE

Test faucet, without resistance: Water pressure: 3 bar



- Single fluid on/off cartridge
- In pairs provide individual lever controls for hot and cold.



