



# Lead-Free Point of Use Mixing Valves

Hot water temperature control valves are specifically designed for mixing cold and hot water on hot water supply systems. Can be used to reduce the temperature of hot water from the system, and are ideal for radiant heat and under-the-sink applications. All models are certified for use in potable water applications. Inlet/

Inlet/							
	Inlet/Outlet	Body	Flow		Max.		Item
Size		Material*	Rate	Temp. Range	Pressure	Brand	No.
	Hot Water Shi						
1/2 in	NPT	BR	_	117° to 185°F	145 psi	Cash Acme	20RH7
	hermostatic N		lve				
⅔ in	Comp.	BZ	—	95° to 118°F	230 psi	Cash Acme	20RH7
	Valve						
3⁄8 in	Comp.	BR	0.5 to 2.5 gpm	80° to 120°F	150 psi	Watts	20G11
⅔ in	Comp.	BZ	0.25 to 5 gpm	90° to 140°F		Leonard Valve	15Z01
¾ in	Comp.	BZ	0.5 to 10 gpm	95° to 115°F		Zurn Wilkins	45K86
⅔ in	Comp.	GFP	0.35 to 5.5 gpm	95° to 125°F		Bradley	40D64
⅔ in	Comp.	GFP	0.35 to 5.5 gpm	95° to 125°F		Bradley	40D64
3∕8 in	FNPT	BZ	0.5 to 3.10 gpm	95° to 115°F		Zurn Wilkins	45K86
½ in	FNPT	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	5DMF
1⁄2 in	FNPT	BZ	0.5 to 10 gpm	95° to 115°F		Zurn Wilkins	45K86
1⁄2 in	FNPT	BZ	0.5 to 10 gpm	95° to 115°F		Zurn Wilkins	45K86
1⁄2 in	MNPT	BZ	0.25 to 12 gpm	90° to 140°F		Leonard Valve	15Z01
1⁄2 in	MNPT	GFP	0.35 to 5.5 gpm	95° to 125°F		Bradley	40D64
1⁄2 in	MNPT/Sweat		0.5 to 15 gpm	59° to 140°F		Bradley	40D64
1⁄2 in	PEX	BR	20 gpm at 125 psi		150 psi	Watts	5DMF
1⁄2 in	PEX	GFP	0.5 to 11 gpm	59° to 140°F	125 psi	Bradley	40D64
1⁄2 in	Press	CSA	0.5 to 12 gpm	80° to 120°F		Watts Regulator	
1⁄2 in	Press	CSA	0.5 to 23 gpm	90° to 160°F	150 psi	Watts Regulator	429J19
1⁄2 in	Solder	BR	0.5 to 23 gpm	80° to 120°F	150 psi	Watts	5DMF
1⁄2 in	Solder	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	5DMF4
3⁄4 in	FNPT	BR	0.5 to 23 gpm	90° to 160°F		Watts	5DMF
3⁄4 in	MNPT	BZ	0.5 to 13 gpm	90° to 140°F	125 psi	Leonard Valve	15Z01
3⁄4 in	MNPT	GFP	0.5 to 15 gpm	59° to 140°F	125 psi	Bradley	40D64
3⁄4 in	PEX	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	5DMF
3⁄4 in	PEX	BR	20 gpm at 125 psi	80° to 120°F		Watts	5DMF
3∕4 in	PEX	GFP	0.5 to 11 gpm	59° to 140°F		Bradley	40D64
3⁄4 in	Press	CSA	0.5 to 12 gpm	80° to 120°F		Watts Regulator	429J2
3⁄4 in	Press	CSA	0.5 to 23 gpm	90° to 160°F	150 psi	Watts Regulator	429J2
3⁄4 in	Solder	BR	0.5 to 20 gpm	80° to 120°F	150 psi	Watts	5DMF
3⁄4 in	Solder	BR	0.5 to 23 gpm	90° to 160°F	150 psi	Watts	5DMF
3⁄4 in	Sweat	GFP	0.5 to 15 gpm	59° to 140°F	125 psi	Bradley	40D64
Therm	ostatic Mixing	g Valves v	v/Locking Mechan	ism			
⅔ in	Comp.	BZ	0.5 to 3.10 gpm	95° to 115°F	145 psi	Zurn Wilkins	45K86
1/2 in	NPT	BZ	_ 31	85° to 130°F		Cash Acme	20RH6
1/2 in	Push Fit	BZ	_	85° to 130°F	200 psi	Cash Acme	20RH6
3⁄4 in	NPT	BZ	_	85° to 130°F	230 psi	Cash Acme	20RH6
3⁄4 in	NPT	DZRBR	_	90° to 130°F	150 psi	Cash Acme	20RH6
3⁄4 in	Push Fit	BZ	_	85° to 130°F		Cash Acme	20RH6
BR -	hrass B7 - hi	ronze CS	A = conner silicon				

BR = brass, BZ = bronze, CSA = copper silicone alloy, DZRBR = DZR brass. GFP = glass-filled polysulfon

baseboards, convectors, radiators, and high

Air Separators, Iron-Designed to sepa-

rate air from water in hydronic heating

systems. Separators have tappings that

**Boiler Feed Valves with Backflow** 

Preventer, Cast-Iron—Combination backflow preventer and feed water pres-

sure regulator in 1 pre-assembled unit.

240

240 °F

275 °F

Pipe Max. Max. Fluid L H Size Pressure Temp. (in) (in) Boiler Feed Valve w/Backflow Preventer, B

212 °F

Hot Water, Brass

(in.)

5 1/16

46A962 46A963

46A964

46A965

46A966

46A969

46A970 46A971

Item

No

ronze 46A967

46A968

5LYLO

**5WI Y6** 

Max. Working Max. W Inlet Pressure (psi) Temp. (°F) (in.) Automatic Air Vent Valves, Brass

150 psi

125 psi

80 psi

– 100 psi

**Automatic Vent For** 

Air Separator, Iron

allow installation of an air vent and expan-

points in piping systems.

sion tank.

1/2 in 3/4 in

1½ in

1/2 in

46A96



#### Automatic Air Vent Valves, Air Separators, and Boiler Feed Valves

**Automatic Air Vent Valves,** Brass—Provide automatic air venting for cold or hot water distribution systems. Valve can be disassembled for maintenance.

Automatic Vents for Hot Water, Brass-Allows easy replacement cartridge installation without system shut down. Suitable for automatic or manual air release on



# WATTS Pressure-Reducing

# **Control Valves**

Operating temp.: 180°F Adjustment range: 30 to 300 psi Ductile iron body and cover. Stem, spring, and nut are stainless steel; trim is 316 stainless steel. Buna N elastomer. Meet ASTM A536. NSF Listed.

Full Port—Throttles to reduce higher upstream pressure to constant lower stream pressure. Adjustable closing speed and reducing setpoint.

Single Chamber—Fixed orifice with nonadjustable closing speed and set point.

AKW2	C	T
	6	CJP5
Description	For Use With	ltem No.
Rebuild Kits		
	Mfr. 263AP	
Pilot Rebuild Kit	6AKW9	
	6AKX0	With No.   BAP 6AKW1   '9 6AKX1   0 6AKX2   2-8 6AKW9   Model 6AXX0
Pressure	6AKW2-8	6AKW9
Reducing Pilot	All M116 Model Numbers	6AKX0
Pressure		405005

Regulator, Lead-Free Brass	_	40F295
	6CJP1	6CJP8
	6CJP2-4	6CJP9
	Mfr. 115-4 FL	6CJR0
	6CJP6	6AKV9
	6AKW2, 6AKW3	6AKX3
Valve nebuliu Kit-	6AKW4	6AKX4
	6AKW5	6AKX5
	6AKW6	6AKX6
	6AKW7	6AKX7
	6AKW8	6AKX8

Pipe		Operating	Max. Continuous	Max. Intermittent	Port	ltem	
Size	Connec. Type	Pressure	Flow Rate	Flow Rate	Size	No.	
Full Port							
2 in	Threaded	400 psi	210 gpm	265 gpm	1⁄2 in x 1⁄2 in x 1⁄4 in	6AKW2	
2 in	Flanged	250 psi	210 gpm	265 gpm	1⁄2 in x 1⁄2 in x 1⁄4 in	6AKW3	
2 ½ in	Threaded	400 psi	300 gpm	390 gpm	1⁄2 in x 1⁄2 in x 1⁄8 in	6AKW4	
3 in	Flanged	250 psi	485 gpm	590 gpm	1⁄2 in x 1⁄2 in x ¾ in	6AKW5	
4 in	Flanged	250 psi	800 gpm	1,000 gpm	½ in x ½ in x ¾ in	6AKW6	
6 in	Flanged	250 psi	1,850 gpm	2,300 gpm	1⁄2 in x 1⁄2 in x 1⁄2 in	6AKW7	
8 in	Flanged	250 psi	3,100 gpm	4,000 gpm	½ in x 1 in x ½ in	6AKW8	
Single (	Chamber						
1 1⁄4 in	Threaded	400 psi	93 gpm	115 gpm	1⁄4 in x 1⁄2 in x 1⁄8 in	6CJN9	
1 ½ in	Threaded	400 psi	125 gpm	158 gpm	1⁄4 in x 1⁄2 in x 1⁄8 in	6CJP0	
2 in	Threaded	400 psi	208 gpm	250 gpm	1⁄2 in x 1⁄2 in x 1⁄4 in	6CJP1	
2 ½ in	Threaded	400 psi	300 gpm	370 gpm	1⁄2 in x 1⁄2 in x ¾ in	6CJP2	
3 in	Threaded	400 psi	460 gpm	570 gpm	1⁄2 in x 1⁄2 in x ¾ in	6CJP3	
3 in	Flanged	250 psi	460 gpm	570 gpm	1⁄2 in x 1⁄2 in x ¾ in	6CJP4	
4 in	Flanged	250 psi	800 gpm	1,000 gpm	1⁄2 in x 1⁄2 in x ¾ in	6CJP5	
6 in	Flanged	250 psi	1,800 gpm	2,300 gpm	1⁄2 in x 1⁄2 in x 1⁄2 in	6CJP6	

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#### **Air Release and Air Vacuum Valves**

Max. temp.: 250°F

Vacuum pressure: 29" Hg

FNPT connection Cast-iron construction. Float and internal components are 316 stainless steel.

Air Release Valves—Resilient seal for positive shutoff. Nonclogging design helps eliminate backwash. Releases pockets of accumulated air in a pressurized water system.



Air Vacuum Valves-Have high/low pressure resilient seating. Full pipe size inlets and outlets help prevent clogging. For use in water distribution and transmission and vacuum protection.

#### Air Release/Air Vacuum Valves-

Incorporate both an air release valve and an air vacuum valve into 1 compact unit. Suitable for all high points in a water distribution transmission system.

	Application		Size	Min. Pressure	Max. Pressure	Max. Vent Capacity	ltem No.	
TON	Air Release Valves							
and the second second		$\frac{1}{2}$ in	1/2 in	5 psi	175 psi	6 scfm at 150 psi	5LYL0	
- 1	Clean Water	3⁄4 in	1/2 in	5 psi	175 psi	6 scfm at 150 psi	5LYL1	
		1 in	1/2 in	5 psi	150 psi	55 scfm at 150 psi	5LYL3	
		1 in	1/2 in	5 psi	175 psi	6 scfm at 150 psi	5LYL2	
		2 in	1⁄2 in	5 psi	150 psi	55 scfm at 150 psi		
-		2 in	1/2 in	5 psi	150 psi	55 scfm at 150 psi	5WLY3	
	Waste Water	3 in	1/2 in	5 psi	150 psi	55 scfm at 150 psi		
		4 in	1⁄2 in	5 psi	150 psi	55 scfm at 150 psi	5WLY5	
-	Air Vacuum	Valve	s					
Strength AC.	Clean Water	1/2 in	1/2 in	5 psi	300 psi	-	5WLX9	
and a second		1 in	1 in	5 psi	300 psi	—	5WLY0	
		2 in	2 in	5 psi	300 psi	—	5WLY1	
		3 in	3 in	5 psi	300 psi	—	5WLY2	
	Air Release	/Air Va	acuum	Valves				
	Clean Water	1 in	1 in	5 psi	300 psi	18 scfm at 300 psi	5LYL5	
		2 in	2 in	5 psi	300 psi	25 scfm at 300 psi		
		3 in	3 in	5 psi	300 psi	25 scfm at 300 psi		
15		4 in	4 in	5 psi	300 psi	25 scfm at 300 psi		
12		2 in	1 in	5 psi	150 psi	25 scfm at 150 psi		
and a	Waste Water	2 in	2 in	5 psi	150 psi	29 scfm at 150 psi		
-		3 in	3 in	5 psi	150 psi	45 scfm at 150 psi	5WLY8	

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