

## Mixing Valves

Certified for use in potable water applications.

**Powers**—Feature paraffin-based, advanced thermal actuation design to sense and adjust outlet temperature for precise temperature

control. Virtual shutoff if supply pressure fails. Vandal-resistant locking mechanism. Rotatable union triple-duty checkstops.

- Max. pressure: 125 psi
- Temp. range: 90° to 160°F

**Watts**—Uses a double throttling design to control both the cold and hot water supply to the mixed outlet. Includes an adjustment cap with locking feature.

- Max. pressure: 150 psi
- Temp. range: 80° to 120°F

Inlet Size	Outlet Size	Inlet/Outlet Type	Flow Rate	Body Material	Std.	Brand	Mr. Model	Item No.
¾ in	¾ in	FNPT	42 gpm	Brass	ASSE 1017, CSA B125	Powers	¾ LFMM431-1	15W074
	1 in	FNPT	64 gpm	Brass	ASSE 1017, CSA B125	Powers	¾ x 1 LFMM432-1	15W075
	1 in	NPT	57 gpm at 45 psi	Lead-Free Brass	ASSE 1017, CSA B125	Powers	LFSH1432 W/TP GAUGE	26X132
1 ¼ in	1 ¼ in	FNPT	110 gpm	Brass	ASSE 1017, CSA B125	Powers	1 ¼ x 1 ¼ LFMM433-1	15W076
	1 ½ in	FNPT	144 gpm	Brass	ASSE 1017, CSA B125	Powers	1 ¼ x 1 ½ LFMM434-1	15W077
	1 ½ in	NPT	127 gpm at 45 psi	Lead-Free Brass	ASSE 1017, CSA B125	Powers	LFSH1434 W/TP GAUGE	26X133
1 in	1 in	PEX	20 gpm at 125 psi	Brass	ASSE 1016-96, ASSE 1017/ASSE 1069 & ASSE 1070CSA B125 Certified	Watts	1 LF MMV-PEX	5DMF9
2 in	2 in	FNPT	208 gpm	Brass	ASSE 1017, CSA B125	Powers	2 LFMM435-1	15W078
	2 in	NPT	201 gpm at 45 psi	Lead-Free Brass	ASSE 1017, CSA B125	Powers	LFSH1435 W/TP GAUGE	26X134



## Steam and Water Mixing Valves

- Max. pressure: 80 psi
- Temp. range: 65° to 140°F

Lead free thermostatic mixing to maintain output water temperature for industrial steam mixing applications. FNPT connections.



Inlet Size	Outlet Size	Flow Rate	Mr. Model	Item No.
<b>Chrome-Plated Lead Free Bronze</b>				
¾ in	¾ in	27 gpm	TMS-25-CP	15Z016
¾ in	1 in	30 gpm	TMS-50-CP	15Z018
1 in	1 ¼ in	32 gpm	TMS-80-CP	15Z020
1 ¼ in	1 ½ in	60 gpm	TMS-150-CP	15Z022
<b>Rough-Finish Lead Free Bronze</b>				
¾ in	¾ in	27 gpm	TMS-25-RF	15Z017
¾ in	1 in	30 gpm	TMS-50-RF	15Z019
1 in	1 ¼ in	32 gpm	TMS-80-RF	15Z021
1 ¼ in	1 ½ in	60 gpm	TMS-150-RF	15Z023



## Lead Free Hot Water Distribution Systems

TM Series (29JA78): Single valve is highly responsive to temp. changes. Bi-metal thermostat.

XL Series: Single valve for high and low water flows. Wax thermostats with ball valve and dial thermometer.

LV Series: Single valve master mixing valve. Wax thermostat.

TM Hi-Lo System Series (29JA79 to 29JA84): 2 valve system for low and high water demands. Bi-metal thermostat.

All models are ideal for industrial and commercial applications. Certified for use in potable water applications and meet ASSE 1017.

For Use With	Includes	Mr. Model	Item No.
<b>Rebuild Kits</b>			
29JA68	Element Holder, O-Rings, Retaining Ring, Return, Shuttle, Spacer, Spring, Thermostatic Elements	KIT R/XL32	20RH45
29JA69		KIT R/XL82	20RH46
29JA70		KIT R/XL150	20RH47
29JA71		KIT R/XL200	20RH48
40PR85		KIT R/LV981	20RH49
29JA73	Cover Gasket, Thermostatic Control Assembly	KIT R/LV982	20RH50
29JA74, 29JA75		KIT R/LV984	20RH51
29JA76		KIT R/LV985	20RH52
29JA77		KIT R/M20	20RH53
29JA78		KIT R/28	20RH54
TM-50-AT-LF	Coil Sleeve, Flange, Nut, O-Ring, Pointer Rod, Port Sleeve	KIT R/50	20RH55
TM-80-AT-LF		KIT R/125	20RH56
TM-125-AT-LF		KIT R/200/N	20RH57
TM-150-AT-LF		R/TA/M	34CU42
29JA84			
TA-300	Base Stud, Cover Gasket, Port Sleeve Assembly and O-Rings, Port Sleeve Nut, Stem O-ring, Thermostatic Group	R/50M	34CU43
TM-800	Coil Sleeve Stud, Flange Packing, Pointer Rod With Gear, Port Sleeve Assembly and Thermostatic Group, Port Sleeve Nut Assembly, Rod O-Rings		



Inlet Size	Outlet Size	Inlet/Outlet Type	Temp. Range	Mr. Model	Item No.
¾ in	¾ in	Sweat	90° to 140°F	XL-32A-LF-BDT	29JA68
	¾ in	Sweat	90° to 135°F	TM-26-LF-RF	29JA78
	¾ in	Sweat	95° to 140°F	LV-981A-LF-RF	40PR85
1 in	1 in	NPT	60° to 200°F	TM-420B-LF-DT-RF	29JA79
	1 in	NPT	60° to 200°F	TM-520B-LF-DT-RF	29JA80
	1 ½ in	NPT	95° to 135°F	XL-150-LF-BDT	29JA70
1 ¼ in	1 ½ in	NPT	95° to 135°F	LV-984-LF-RF	29JA75
	1 ½ in	NPT	60° to 200°F	TM-1520B-LF-DT-RF	29JA83
	1 ¼ in	NPT	95° to 135°F	LV-983-LF-RF	29JA69
1 in	1 ¼ in	NPT	90° to 140°F	LV-982-LF-RF	29JA73
	1 ¼ in	NPT	95° to 135°F	LV-983-LF-RF	29JA74
1 ¼ in	1 ½ in	NPT	60° to 200°F	TM-820B-LF-DT-RF	29JA81
	1 ¼ in	NPT	60° to 200°F	TM-920B-LF-DT-RF	29JA82
	2 in	NPT	60° to 200°F	TM-2020B-LF-DT-RF	29JA84
2 in	2 in	Sweat	90° to 135°F	XL-200-SW-LF-BDT	29JA71
	2 in	Sweat	95° to 135°F	LV-985-SW-LF-RF	29JA76

## Hose Stations and Accessories

45K810 and 45K811 are specially designed for use with live steam and water, and have an automatic shutdown feature if cold water supply is interrupted. 45K812 and 45K813 feature a thermostatically controlled valve that helps to maintain a constant temperature. 45K816 and 45K823 are manually blended models that can handle both hot water or steam for blending. Hose stations are for use in dairy, food processing, manufacturing, and pharmaceutical plants and in other industrial washdown applications.

Pipe Connec. Size	Type	Max. Flow Rate	L	H	Temp. Range	Material	Finish	Mfr. Model	Item No.		
Hose Stations											
3/4"	FNPT x MGHT	6 gpm	10 in	24 1/2 in	60° to 200°F	Bronze	Chrome	3800-VBD-CP	45K810		
			10 in	24 1/2 in		Bronze	Rough Bronze	3800-VBD-RF	45K811		
			10 in	25 in		Lead Free Bronze	Chrome	SW-75-EVBD-CP	45K814		
			10 in	25 in		Lead Free Bronze	Rough Bronze	SW-75-EVBD-RF	45K815		
			14 in	36 in		Lead Free Bronze	Chrome	CW-75-VBD	45K816		
			10 in	25 in		Stainless Steel	Stainless Steel	ST-75-LF-ED	45K823		
	9 gpm	10 in	28 in	Bronze	Chrome	THS-25-VBD-CP	45K812				
		10 in	28 in	Bronze	Rough Bronze	THS-25-VBD-RF	45K813				
		Adjustable Spray Hose Nozzles									
		1/2"	FNPT	6 in	—	60° to 180°F	Rubber Cover, Stainless Steel Body	—	N-2-SS	45K818	
6 in	—			180°F	Bronze Body/Rubber Cover	—	N-2	45K817			
Hoses											
3/4"	MNPT x	25 ft	—	60° to 180°F	EPDM and Steel Body/Brass Couplings	—	25 HDH	45K820			
1/2"	Swivel	50 ft	—	180°F	EPDM and Steel Body/Brass Couplings	—	50 HDH	45K821			
	FGHT	75 ft	—		EPDM and Steel Body/Brass Couplings	—	75 HDH	45K822			



## Float Valves



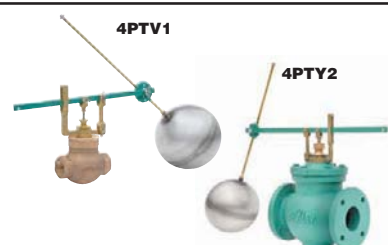
Automatically open or close when liquid reaches a predetermined level. Can be used for filling control (close on level rise) or drainage control (open on level rise), in an open or closed tank, storage tanks, cooling towers, and reservoirs. NPT connection. Float is 304 stainless steel construction.

**Type 7**—Suitable where tight-closing valves are required. Not for use with chemicals harmful to brass, iron, neoprene, or leather. Angle pattern will have a bottom inlet/side outlet. Max. temp.: 125°F.

**Type 27**—Use for automatic control of liquid supply to an open tank, where dead-end closing is not essential and where valve pressures are normal. Max. temp.: 406°F.

**Type 77**—Suitable where tight-closing valves are required. Not for use with chemicals harmful to brass, iron, neoprene, or leather. Angle pattern will have a bottom inlet/side outlet. Max. temp.: 125°F.

Valve Size	Flow (1) Pressure	Max. Length	Rod Size	Float Body Material	Angle Item No.	Globe Item No.
<b>Type 7, Single Seat, Dead End Service</b>						
½"	6.5 gpm	130 psi	16"	7" Bronze	4PTV7	4PTV1
¾"	6.5 gpm	130 psi	16"	7" Bronze	4PTV8	4PTV2
1"	13 gpm	100 psi	16"	7" Bronze	4PTV9	4PTV3
1 ¼"	19 gpm	80 psi	16"	7" Bronze	4PTW1	4PTV4
1 ½"	30 gpm	65 psi	16"	7" Bronze	4PTW2	4PTV5
2"	61 gpm	50 psi	16"	7" Iron	4PTW3	4PTV6
<b>Type 27, Double Seat</b>						
½"	1.5 gpm	150 psi	16"	7" Bronze	4PTX3	4PTW4
¾"	9.1 gpm	150 psi	16"	7" Bronze	4PTX4	4PTW5
1"	5.7 gpm	150 psi	16"	7" Bronze	4PTX5	—
1 ¼"	9.1 gpm	150 psi	16"	7" Bronze	4PTX6	4PTW7
1 ½"	15 gpm	120 psi	16"	7" Bronze	4PTX7	4PTW8
2"	22 gpm	100 psi	16"	7" Bronze	4PTX8	4PTW9
2 ½"	53 gpm	75 psi	16"	7" Iron	4PTX9	4PTX1
3"	64 gpm	60 psi	18"	8" Iron	4PTX10	—
3 ½"	87 gpm	50 psi	18"	8" Iron	4PTX11	4PTX2



Valve Size	Flow (1) Pressure	Max. Length	Rod Size	Float Body Material	Angle Item No.	Globe Item No.
<b>Type 77, Single Seat, Dead End Service</b>						
2"	61 gpm	250 psi	16"	7" Iron	4PTY5	4PTY2
2 ½"	95 gpm	250 psi	18"	8" Iron	4PTY6	4PTY3
3"	95 gpm	250 psi	18"	8" Iron	4PTY7	—
3 ½"	133 gpm	250 psi	18"	8" Iron	—	4PTY4