

**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

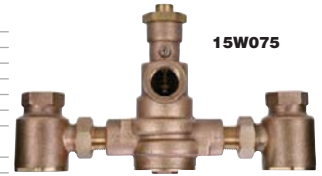
control. Virtual shutoff if supply pressure fails. Vandal-resistant locking mechanism. Rotatable union triple-duty checkstops.

- 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	Mfr. 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	LF5H1432 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	LF5H1434 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	LF5H1435 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	Mfr. 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>Lead Free Rough 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	Mfr. Model	Item No.
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		KIT R/LV982	20RH50
29JA74, 29JA75		KIT R/LV984	20RH51
29JA76	Cover Gasket, Thermostatic Control Assembly	KIT R/LV985	20RH52
29JA77		KIT R/M20	20RH53
29JA78	Coil Sleeve, Flange, Nut, O-Ring, Pointer Rod, Port Sleeve	KIT R/28	20RH54
TM-50-AT-LF		KIT R/50	20RH55
TM-80-AT-LF		KIT R/125	20RH56
TM-125-AT-LF	Coil Sleeve Stud, Flange Packing, Pointer Rod With Gear, Port Sleeve Assembly and Thermostatic Group, Port Sleeve Nut Assembly, Rod O-Rings	KIT R/200/N	20RH57
29JA84			
TA-300	Base Stud, Cover Gasket, Port Sleeve Assembly and O-Rings, Port Sleeve Nut, Stem O-ring, Thermostatic Group	R/TA/M	34CU42
TM-800	Coil Sleeve Stud, Flange Packing, Pointer Rod With Gear, Port Sleeve Assembly and Thermostatic Group, Port Sleeve Nut Assembly, Rod O-Rings	R/50M	34CU43



Inlet Size	Outlet Size	Inlet/Outlet Type	Temp. Range	Mfr. 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	LV-984-LF-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 in	1 ¼ in	NPT	95° to 135°F	LV-983-LF-RF
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 in	1 ¼ in	NPT	60° to 200°F	TM-820B-LF-DT-RF
1 ¼ in	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	Sweat	90° to 135°F	XL-200-SW-LF-BDT	29JA71
2 in	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 Size	Connc. Type	Max. Flow Rate	L	H	Temp. Range	Material	Finish	Mfr. Model	Item No.
<b>Hose Stations</b>									
¾ in	FNPT x MGHST	6 gpm	10 in	24 ½ in	60° to 200°F	Brass	Chrome	3800-VBD-CP	45K810
			10 in	24 ½ in		Brass	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-BD	45K816
			10 in	25 in		Stainless Steel	Stainless Steel	ST-75-LF-ED	45K823
9 gpm	10 in	28 in	10 in	28 in	Brass	Chrome	THS-25-VBD-CP	45K812	
			10 in	28 in	Brass	Rough Bronze	THS-25-VBD-RF	45K813	
<b>Adjustable Spray Hose Nozzles</b>									
½ in	FNPT	6 in	6 in	60° to 180°F	Rubber Cover, Stainless Steel Body	—	N-2-SS	45K818	
					Bronze Body/Rubber Cover	—	N-2	45K817	
<b>Hoses</b>									
¾ in	MNPT x FGHT	25 ft	—	60° to 180°F	EPDM and Steel Body/Brass Couplings	—	25 HDH	45K820	
½ in	Swivel FGHT	50 ft	—	180°F	EPDM and Steel Body/Brass Couplings	—	50 HDH	45K821	
					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 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.

**Type 7**—Suitable where tight-closing valves are required. Not for use with chemicals harmful to brass, iron, or neoprene. Max. temp.: 125°F.

Valve Size	Flow - Max. Flow (1)	Pressure	Rod Length	Float Size	Body Material	Angle Item No.	Globe Item No.
<b>Type 7, Single Seat, Dead End Service</b>							
½ in	6.5 gpm	130 psi	16 in	7 in	Bronze	4PTV7	4PTV1
¾ in	6.5 gpm	130 psi	16 in	7 in	Bronze	4PTV8	4PTV2
1 in	13 gpm	100 psi	16 in	7 in	Bronze	4PTV9	4PTV3
1 ¼ in	19 gpm	80 psi	16 in	7 in	Bronze	4PTV1	4PTV4
1 ½ in	30 gpm	65 psi	16 in	7 in	Bronze	4PTW2	4PTV5
2 in	61 gpm	50 psi	16 in	7 in	Iron	4PTW3	4PTV6
<b>Valve Type 27, Double Seat</b>							
½ in	1.5 gpm	150 psi	16 in	7 in	Bronze	4PTX3	4PTW4
¾ in	9.1 gpm	150 psi	16 in	7 in	Bronze	—	4PTW6
1 in	9.1 gpm	150 psi	16 in	7 in	Bronze	4PTX4	4PTW5
1 ¼ in	9.1 gpm	150 psi	16 in	7 in	Bronze	4PTX5	—
1 ½ in	15 gpm	120 psi	16 in	7 in	Bronze	4PTX6	4PTW7
2 in	22 gpm	100 psi	16 in	7 in	Bronze	4PTX7	4PTW8
2 ½ in	53 gpm	75 psi	16 in	7 in	Iron	4PTX8	4PTW9
2 ½ in	64 gpm	60 psi	18 in	8 in	Iron	4PTX9	4PTX1
3 in	87 gpm	50 psi	18 in	8 in	Iron	4PTX1	4PTX2
<b>Valve Type 77, Single Seat, Dead End Service</b>							
2 in	61 gpm	250 psi	16 in	7 in	Iron	4PTY5	4PTY2
2 ½ in	95 gpm	250 psi	18 in	8 in	Iron	4PTV6	4PTY3
3 in	95 gpm	250 psi	18 in	8 in	Iron	4PTX1	—
3 in	133 gpm	250 psi	18 in	8 in	Iron	—	4PTY4

