



H-TMV-176 - Thermostatic Mixing Valves - 176 Max Temp

H-7x27W Series

Thermostatic Mixing Valve w/ Integral Check Valves

Forged Brass Valve

w/ DZR Brass G-Series Union Fittings

Temperature Locking Handle

For High Temperature Hydronic Applications

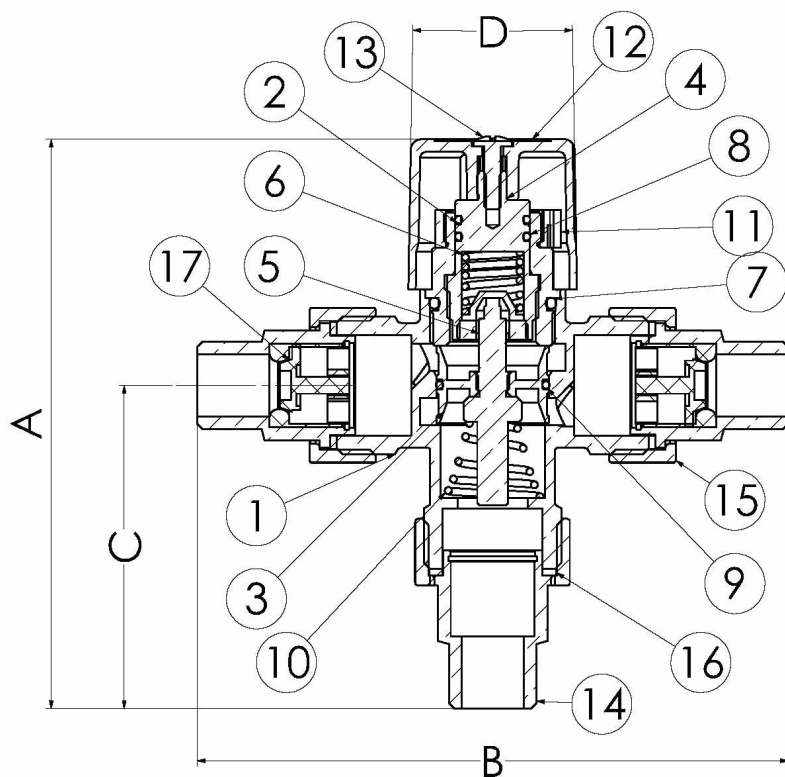
Outlet Temperature Range 104°- 176°F

Lead-Free



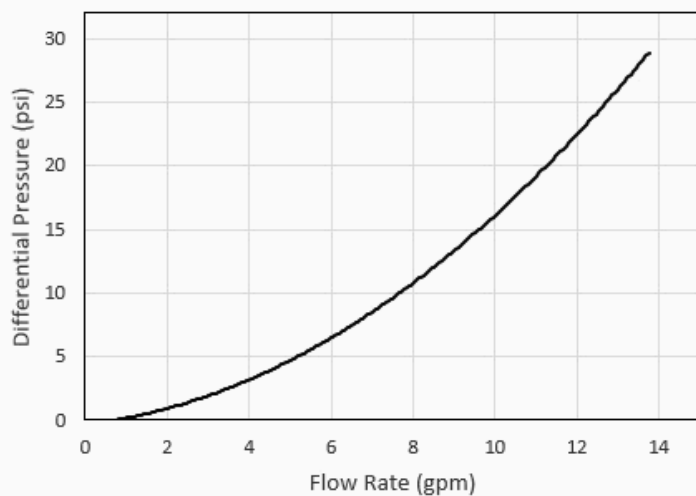
Size (in)	Item#	Weight (lbs)	CTN Qty	Case Qty	A	B	C	D	Cracking Pressure	
F1807 PEX									150 PSI CWP Max	203°F Max
1/2"	H-71272W	1.69	1	10	5.30	5.72	3.15	1.56	0.58 PSI	
3/4"	H-71273W	1.69	1	10	5.25	5.67	3.11	1.56	0.58 PSI	
F1960 PEX									150 PSI CWP Max	203°F Max
1/2"	H-73272W	1.69	1	10	5.50	6.50	3.50	1.56	0.58 PSI	
3/4"	H-73273W	1.69	1	10	5.75	7.00	3.75	1.56	0.58 PSI	
FIP									150 PSI CWP Max	203°F Max
1/2"	H-72272W	2.05	1	10	5.50	6.25	3.38	1.56	0.58 PSI	
3/4"	H-72273W	2.07	1	10	5.50	6.25	3.38	1.56	0.58 PSI	
1"	H-72274W	2.34	1	10	5.56	6.38	3.44	1.56	0.58 PSI	
MIP									150 PSI CWP Max	203°F Max
3/4"	H-74273W	1.76	1	10	5.26	5.66	3.12	1.56	0.58 PSI	
1/2"	H-74272W	1.78	1	10	5.22	5.60	3.06	1.56	0.58 PSI	
1"	H-74274W	2.16	1	10	5.69	6.50	3.52	1.56	0.58 PSI	
Press									150 PSI CWP Max	203°F Max
1/2"	H-78272W	1.85	1	10	5.75	6.56	3.56	1.56	0.58 PSI	
3/4"	H-78273W	2.02	1	10	6.00	7.06	3.75	1.56	0.58 PSI	
1"	H-78274W	2.07	1	10	6.00	7.06	3.75	1.56	0.58 PSI	
SWT									150 PSI CWP Max	203°F Max
1/2"	H-75272W	1.56	1	10	5.15	5.44	3.00	1.56	0.58 PSI	
3/4"	H-75273W	1.83	1	10	5.61	6.44	3.52	1.56	0.58 PSI	
1"	H-75274W	2.09	1	10	5.80	6.69	3.63	1.56	0.58 PSI	





NO.	DESCRIPTION	MATERIAL
1	Body	Brass
2	Cap	Brass
3	Piston	Brass HCP
4	Spindle	Brass
5	Element	Wax Filled Copper
6	Spindle Spring	Stainless Steel
7	O-Ring	EPDM
8	O-Ring	EPDM
9	O-Ring	EPDM
10	Spring	Stainless Steel
11	Locking Ring	Plastic
12	Adjustment Cap	Plastic
13	Locking Screw	Stainless Steel
14	Fitting	Brass
15	Union Nut	Brass
16	Gasket	EPDM
17	Check Valve	Plastic

Flow Rate by Pressure Differential



Hot Inlet Temperature Range	120 - 203°F (49 - 95°C)
Cold Inlet Temperature Range	39 - 80°F (4 - 27°C)
Working Pressure Range	30 - 150 psi (2 - 10 bar)
Minimum Temperature Differential Between Hot Supply and Mixed Outlet ¹	20°F (11°C)
Maximum Inlet Pressure Ratio ²	2:1
Minimum Flow Rate _{for optimal performance}	0.5 gpm (2 L/min)
C _v	2.5

1. Required minimum temperature difference between the mixed outlet and the hot supply to enable the valve to function correctly and ensure automatic reduction of outlet flow in the event of cold supply failure.

2. Maximum permitted variation in Hot/Cold or Cold/Hot supply pressure in order to control the outlet temperature to within $\pm 5^\circ\text{F}$. Excessive fluctuation in supply pressures may cause outlet temperature to be outside of specified tolerance.

Specifications: Designed for use with water, oil, glycol mix in residential or commercial plumbing and heating systems. Threaded (NPT) ends comply with ANSI B1.20.1. Solder joint temperature ratings are per ASME B16.18 Annex A for 95-5 solder. Do not silver braze or overheat valves when soldering. EPDM o-rings for press ends. PEX ends are in accordance with the referenced ASTM specification; refer to tubing manufacturer for installation instructions.

REV:9/27/2024

LEAD-FREE: Weighted average lead content $\leq 0.25\%$

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WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov