

S59-3045 (HL45) Thermostatic High-Low Valves

- Lead-Free Brass Design †
- Reliable Liquid-Filled Thermostat with 10 year warranty
- Integral Strainer Checkstops on Inlets
- Adjustable Set Point within Temperature Range
- Accurate Temperature Control to within ±3° F
- Positive Shutoff of Flow in the Event of Cold Supply Line Failure or Thermostat Failure
- · Easy Installation and Serviceability
- · Dirt and Lime Resistant
- · Factory Assembled and Tested
- Universal Mounting Capability
- · Dial Thermometer
- Cabinet Features:
 - 18 Gauge Body & Door
 - Left-Hand Hinge
 - Cylinder Lock
 - Inlet/Outlet Knock-Out Holes for Mounting Flexibility
 - Stainless Steel or Baked White Enamel Finishes
 - Surface-Mounted or Recessed Style with Flange

Valve Specifications Maximum Operating Pressure

125 PSI (860 kPA)

Maximum Inlet Temperature

180° F (82° C)

 Std.
 90° F (32° C) to 120° F (49° C)
 110° F (43° C)

 High
 110° F (43° C) to 140° F (60° C)
 130° F (54° C)

Flow Capacities - GPM

Model	Min. Flow*	Pressure Drop – PSI							
Monei		5	10	15	20	30	45	60	
\$59-3045	1.5	12.5	19.0	24.0	28.5	37.0	47.0	56.5	

Flow Capacities - L/Min

Model	Min. Flow*	Pressure Drop – Bar							
Monei		.5	1.0	1.5	2.0	2.5	3.0	4.0	
\$59-3045	5.5	58.0	89.0	115.0	137.0	157.0	175.0	209.0	

^{*}Recirculation system only (See diagram on Page 2). When properly installed near the hot water source with a continuously operating recirculation pump, the valve will maintain set temperature with a .5 GPM (2.0 L/Min) draw from the plumbing system.

Product Compliance



Listed by IAPMO R&T to

- ASSE 1017, CSA B125.3
- Uniform Plumbing Code (UPC),
- National Plumbing Code of Canada and
- International Plumbing Code (IPC)



Listed by ASSE International to

• ASSE 1017



Listed by NSF International to

• NSF/ANSI 372

Standard product selections contained within this document are third party CERTIFIED to NSF/ANSI 372 meeting the Lead-Free content requirement. Any product configured with custom options will be COMPLIANT with NSF/ANSI 372 meeting the Lead-Free content requirement.

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Valve Model	
Model	Description
□ S59-3045	High-Low Thermostatic Mixing Valve

Configurable Valve	Model (select one)				
Model	Description				
□ HL45	HL45 Thermostatic Mixing Valve with Options				
□ CAB-HL45	HL45 Thermostatic Mixing Valve Cabinet Only				
Optional Valve Sel	ections				
Finish					
□ R	Rough Brass (standard)				
□ C	Chrome Plated				
Thermostat					
□ \$	Standard Range Thermostat				
□Н	High Range Thermostat				
Bracket					
□ B	Wall Mounting Bracket				
□ 0	None				
Piped Assembly					
□ P	Piped Assembly with Inlet and Outlet Shutoff				
	Piped Assembly with Outlet Shutoff				
□ 0	None				
Optional Cabinet S	elections				
Cabinets (includes bracke	t)				
□ SS	Surface Mount Stainless Steel				
□ RS	Recessed Stainless Steel				
□ SE	Surface Mount White Enamel				
□ RE	Recessed White Enamel				
□ 0	None				
Window					
□ W	Plexi-Glass Window in Door				
□ 0	None				

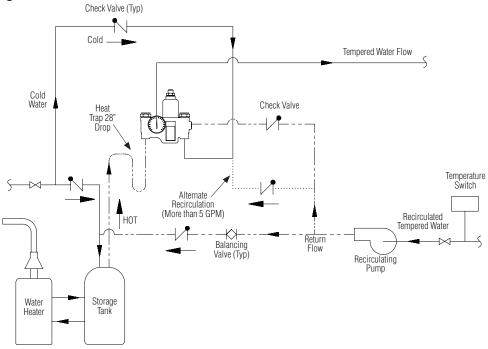
† Wetted surface contains less then .25% lead

Engineer's Approval

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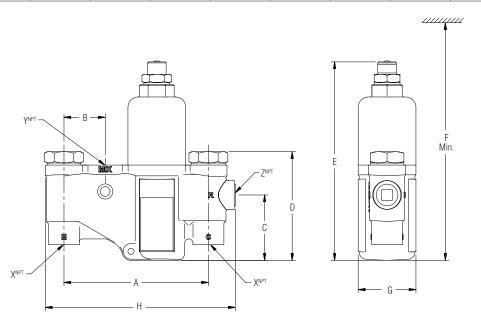


Recirculation Diagram (mm)



Dimensions

Model	Α	В	C	D	E	F	G	Н	X ^{NPT}	YNPT	Z ^{NPT}
S59-3045	7" (178)	2" (51)	3-1/8" (79)	5-1/4" (133)	9-5/8" (244)	14" (356)	2-3/4" (70)	9-3/16" (230)	3/4"	1"	3/4"



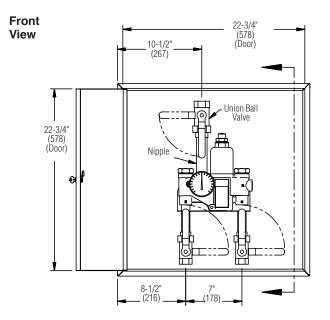
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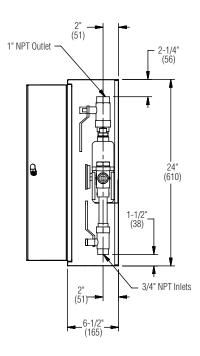


Dimensions — HL45 Surface-Mounted Cabinet

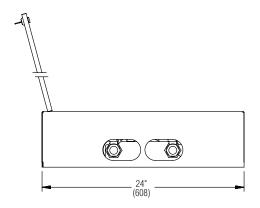
(mm)



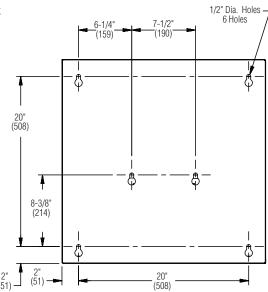




Bottom View





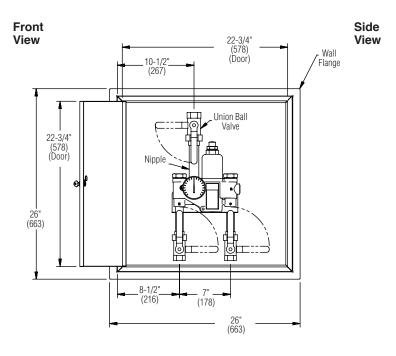


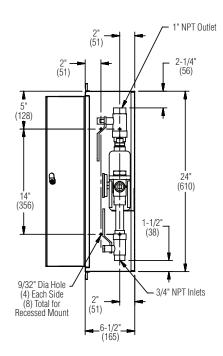
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Dimensions — HL45 Recessed Cabinet

(mm)





Bottom View

