

- 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

Valve Specifications

Maximum Operating Pressure

125 PSI (860 kPA)

Maximum Inlet Temperature

200° F (93° C)

Temperati	ıre Range	Set Point
Std.	90° F (32° C) to 120° F (49° C)	110° F (43° C)
Low	70° F (21° C) to 100° F (38° C)	80° F (27° C)
High	110° F (43° C) to 140° F (60° C)	130° F (54° C)

Flow Capacities - GPM (L/Min)

Model	Min*	Pressure Drop – PSI (Bar)								
	Flow	5 (.5)	10 (1.0)	15 (1.5)	20 (2.0)	30 (2.5)	45 (3.0)	60 (4.0)		
S59-3045	1.5	12.5	19.0	24.0	28.5	37.0	47.0	56.5		
	(5.5)	(58.0)	(89.0)	(115.0)	(137.0)	(157.0)	(175.0)	(209.0)		
\$59-3080	2.0	26.0	36.0	44.0	51.0	63.0	77.0	88.0		
	(7.5)	(110.0)	(157.0)	(193.0)	(223.5)	(250.5)	(275.0)	(318.0)		

*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.

Code Compliance and Certifications

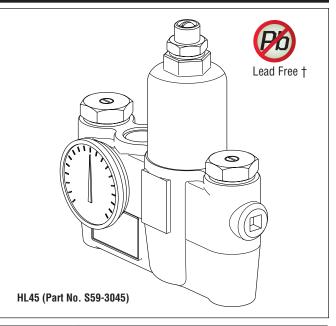
ASSE 1017 & cUPC certified. Complies with California Lead Plumbing Law.



† Wetted surface contains less then .25% lead

Engineer's Approval

Page 1 of 6 8/19/2014 This information is subject to change without notice. Bradley_TMV_HighLow_HL45_80 HL45, HL80 Thermostatic High-Low Valves



Models (Mu Model	st select one) Description					
□ S59-3045	HL45-Thermostatic Mixing Valve					
□ S59-3080	HL80-Thermostatic Mixing Valve					
Optional Selections						
Finish						
🗆 C	Chrome Plated					
Thermostat						
	Low Range Thermostat					
	High Range Thermostat					
Bracket						
	Wall Mounting Bracket					
Piped Assemb	ly					
□ P	Piped Assembly with Inlet and Outlet Shutoff					
	Piped Assembly with Outlet Shutoff					
Cabinets						
	Surface Mount Stainless Steel					
🗆 RS	Recessed Stainless Steel					
🗆 SE	Surface Mount White Enamel					
🗆 RE	Recessed White Enamel					
□ W	Plexi-glass Window in Door					



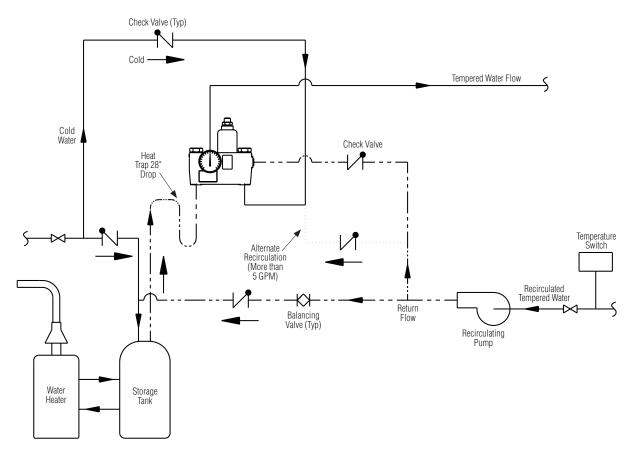
Standard product selections contained within this document are third party CERTIFIED to NSF/ANSI 372 meeting the Lead-Free content requirement. Any product configured with custom options will be COMPLIANT with NSF/ ANSI 372 meeting the Lead-Free content requirement.

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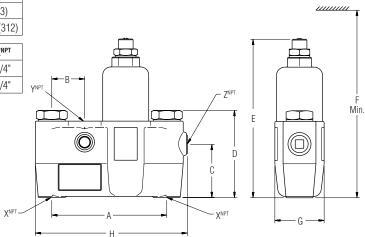
Recirculation Diagram





Dimensions

Model	A B			C	D		E	
S59-3045	7" (178)	7" (178) 2" (51)		3-1/4" (84) 4-3/4"		(119) 8		" (203)
S59-3080	8-3/4" (224) 2-1/2" (64	2-1/2" (64)		5-1/4" (135)		12-1/4" (312)	
Model	F	G		Н	XNPT	۲	IPT	ZNPT
\$59-3045	14" (356)	3-1/8" (79)	3-1/8" (79) 9		3/4"	1"		3/4"
\$59-3080	19" (483)	3-5/8" (91)	1	1-3/8" (290)	1"	1-1	/4"	3/4"

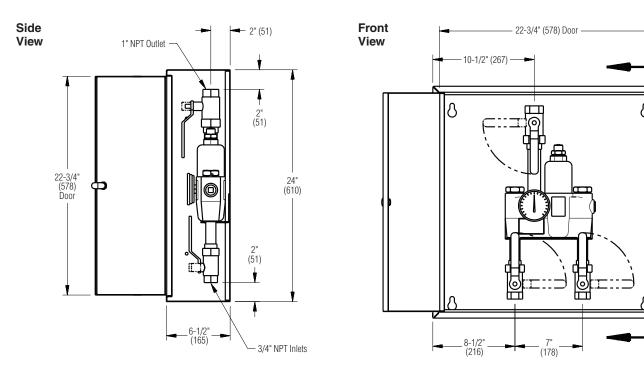


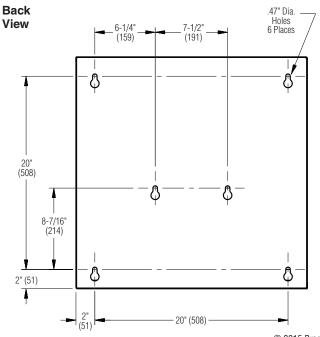
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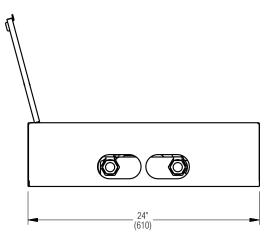
Dimensions — HL45 Surface-Mounted Cabinet





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Bottom View

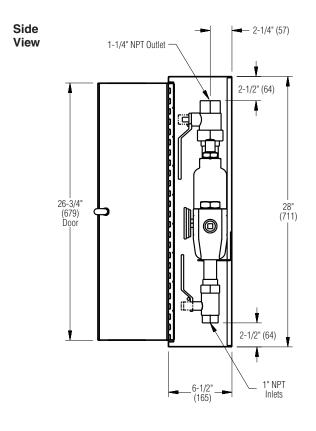


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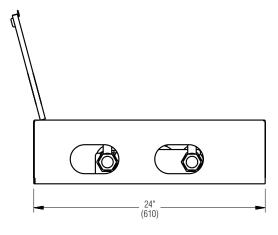


HL45, HL80 Thermostatic High-Low Valves

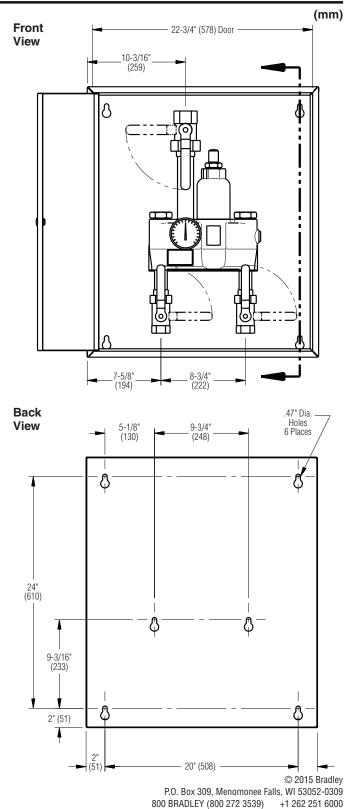
Dimensions — HL80 Surface-Mounted Cabinet







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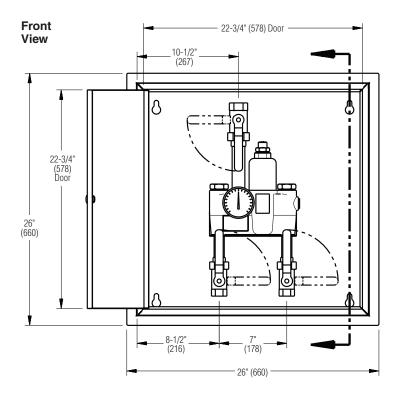


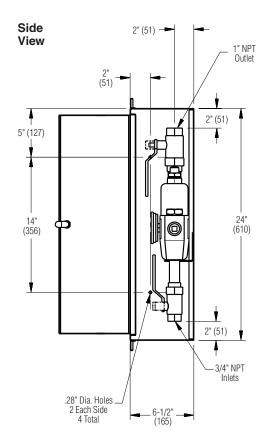
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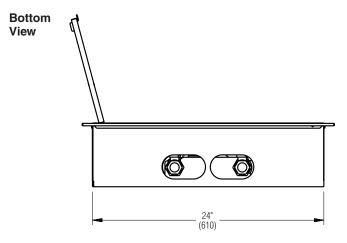


Dimensions — HL45 Recessed Cabinet

(mm)





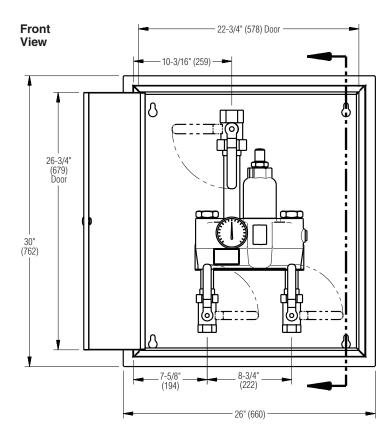


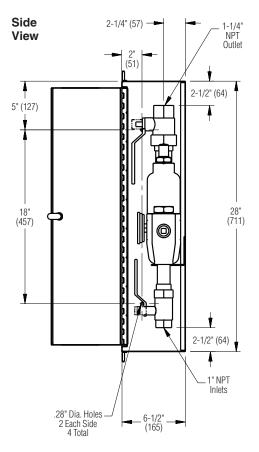
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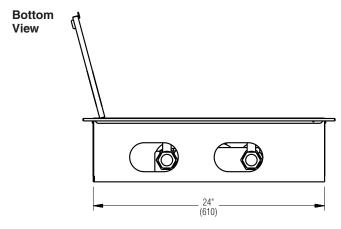


Dimensions — HL80 Recessed Cabinet

(mm)







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