

- 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 $\pm 3^{\circ}\text{F}$
- 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

200° F (93° C)

Temperature Range

	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)

Set Point

Flow Capacities – GPM (L/Min)

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

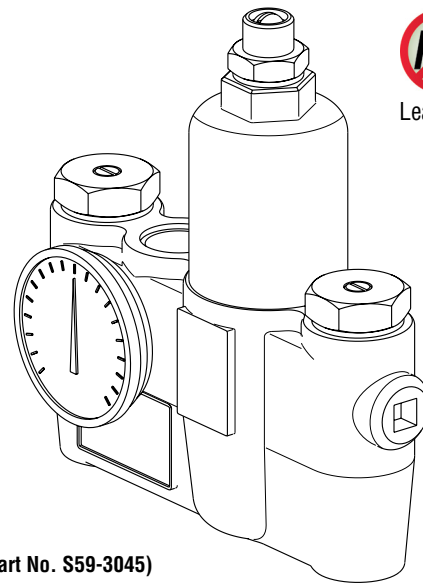
ASSE 1017 & cUPC certified. Complies with California Lead Plumbing Law.



Certified to
NSF/ANSI 372

† Wetted surface contains less than .25% lead

Engineer's Approval _____



HL45 (Part No. S59-3045)

Models (Must select one)

Model	Description
☐ S59-3045	HL45-Thermostatic Mixing Valve
☐ S59-3080	HL80-Thermostatic Mixing Valve

Optional Selections

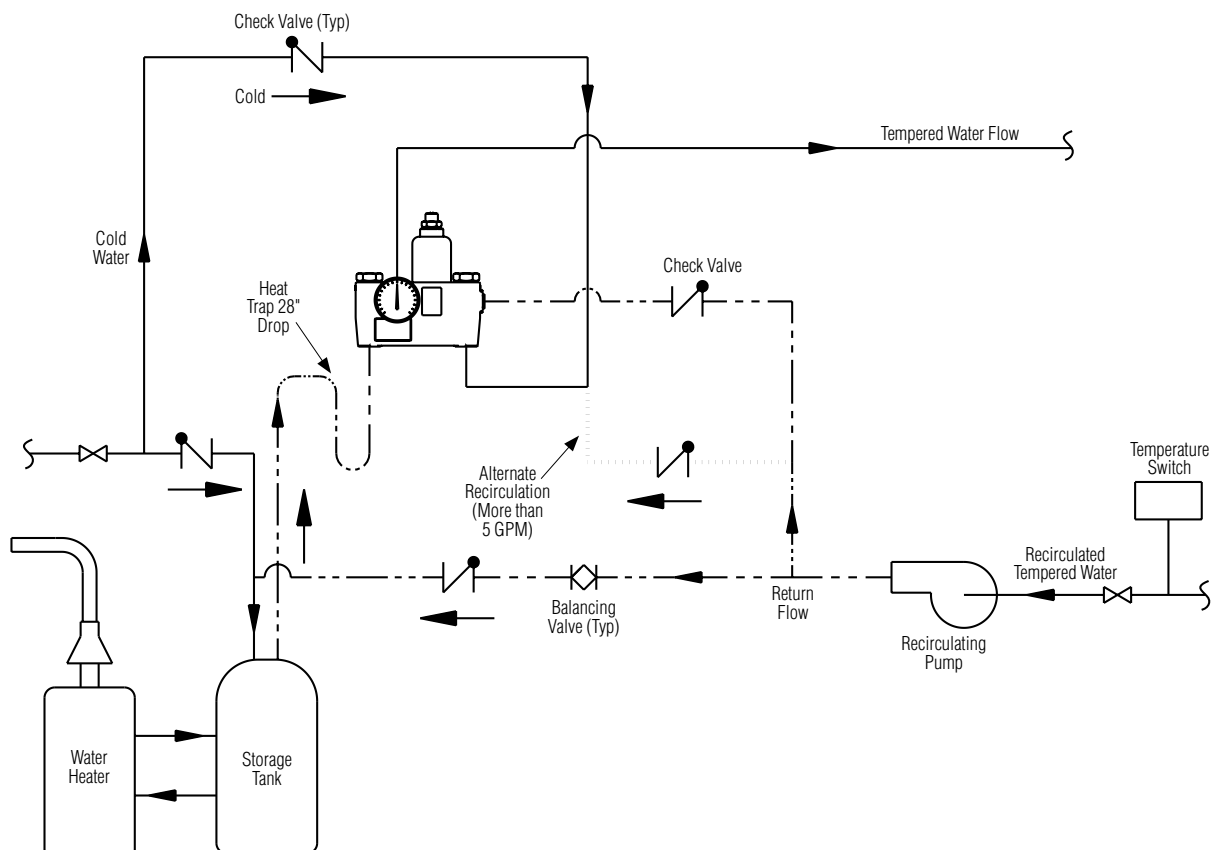
Finish	
☐ C	Chrome Plated
Thermostat	
☐ L	Low Range Thermostat
☐ H	High Range Thermostat
Bracket	
☐ B	Wall Mounting Bracket
Piped Assembly	
☐ P	Piped Assembly with Inlet and Outlet Shutoff
☐ N	Piped Assembly with Outlet Shutoff
Cabinets	
☐ SS	Surface Mount Stainless Steel
☐ RS	Recessed Stainless Steel
☐ 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.

Recirculation Diagram

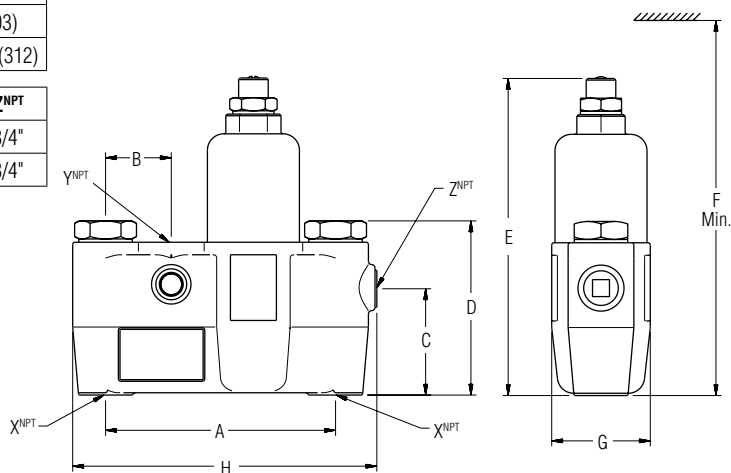
(mm)

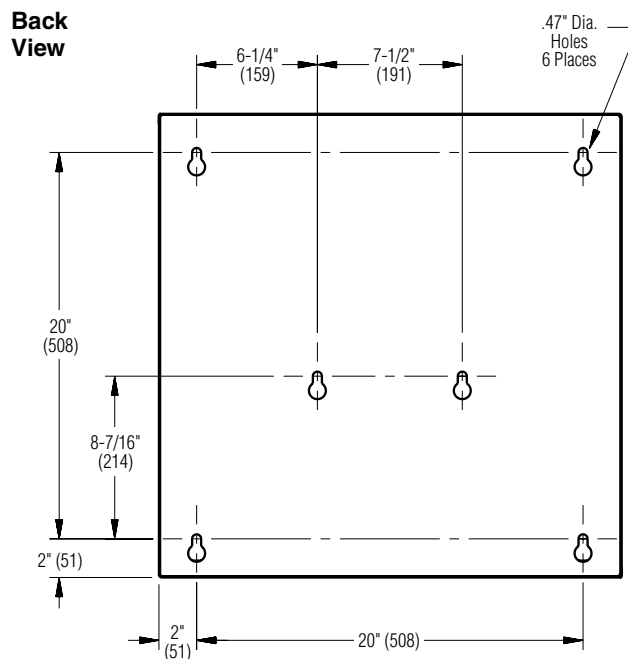
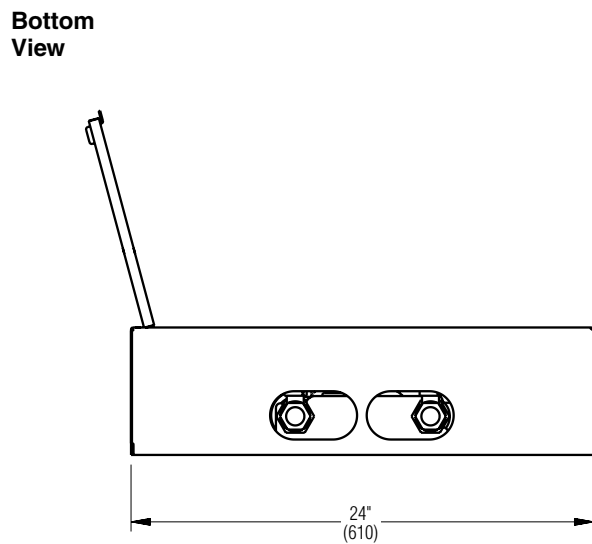
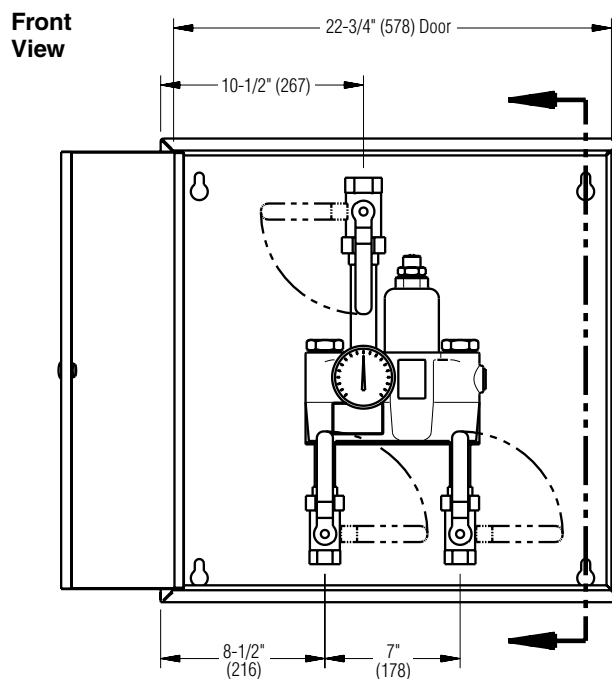
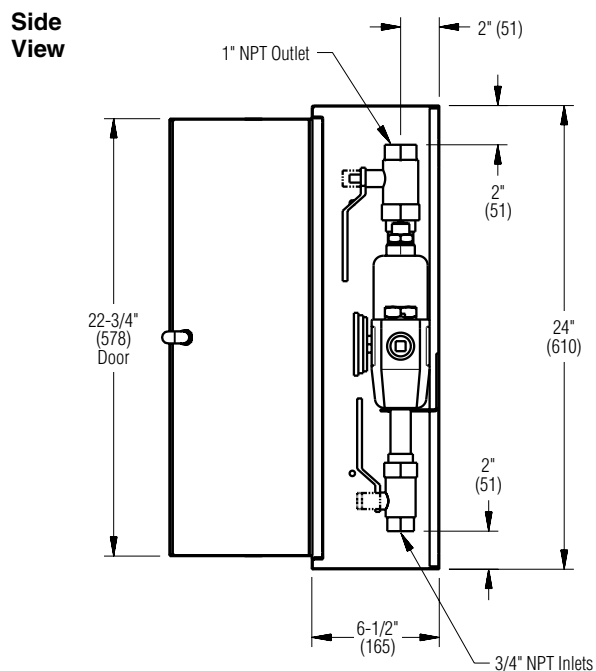


Dimensions

Model	A	B	C	D	E
S59-3045	7" (178)	2" (51)	3-1/4" (84)	4-3/4" (119)	8" (203)
S59-3080	8-3/4" (224)	2-1/2" (64)	3-1/2" (89)	5-1/4" (135)	12-1/4" (312)

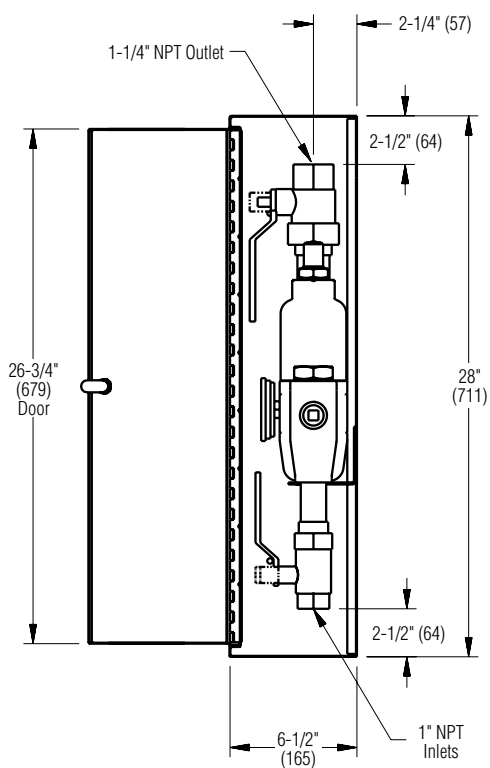
Model	F	G	H	X ^{NPT}	Y ^{NPT}	Z ^{NPT}
S59-3045	14" (356)	3-1/8" (79)	9-1/4" (234)	3/4"	1"	3/4"
S59-3080	19" (483)	3-5/8" (91)	11-3/8" (290)	1"	1-1/4"	3/4"



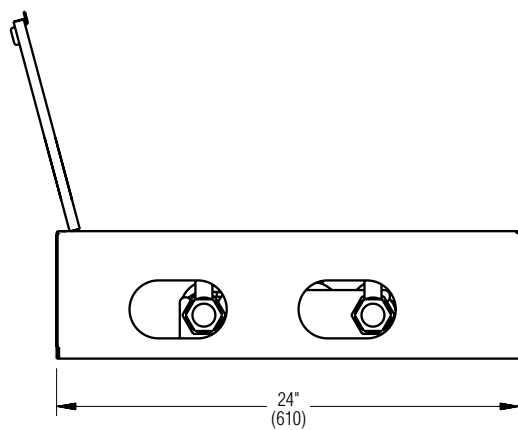


Dimensions — HL80 Surface-Mounted Cabinet

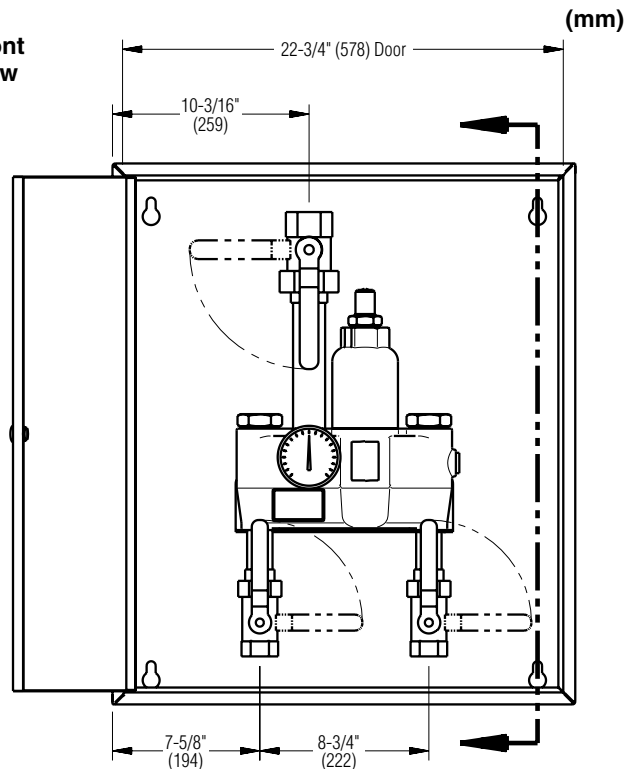
Side View



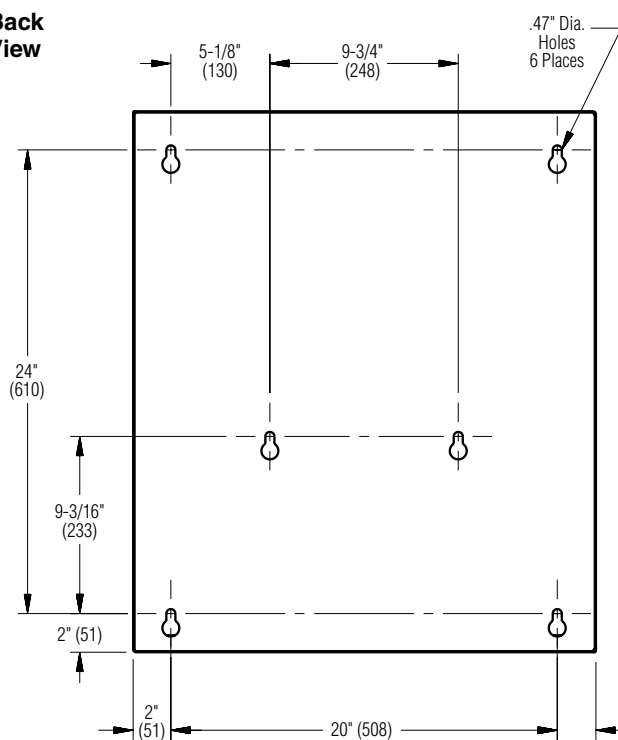
Bottom View



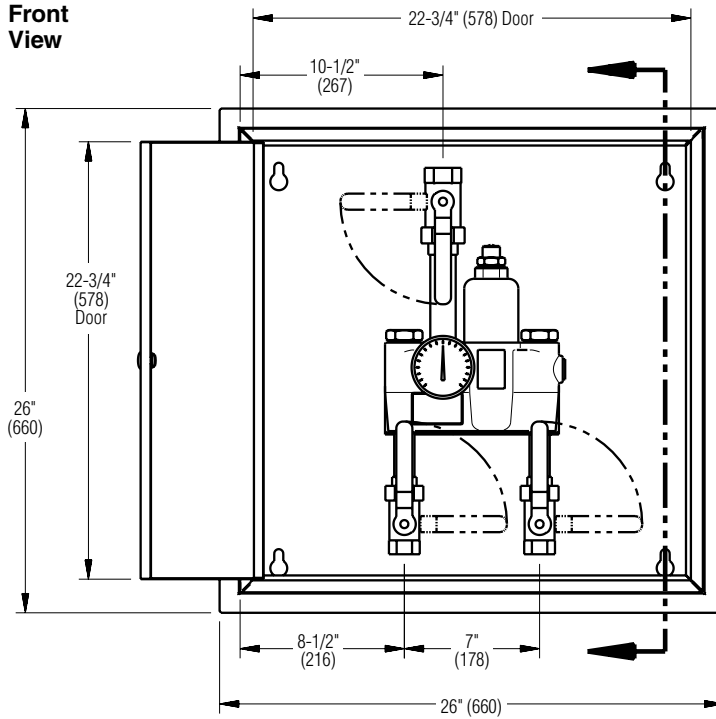
Front View



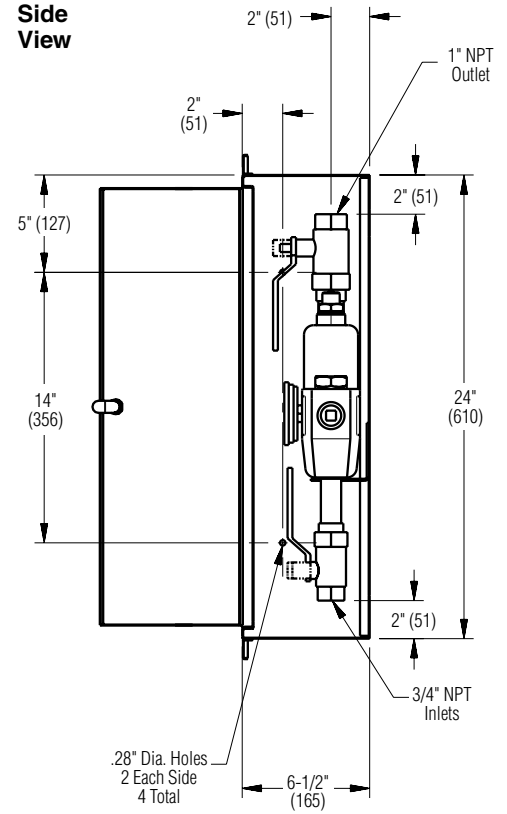
Back View



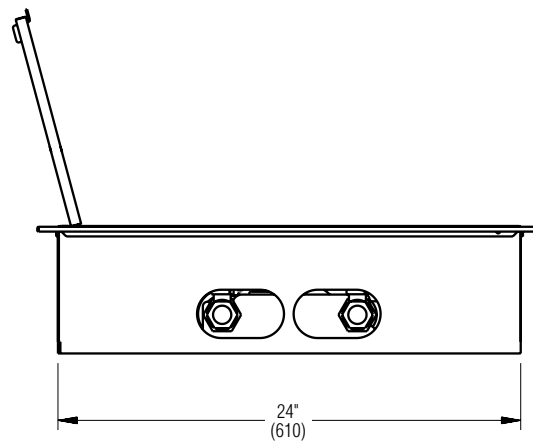
Front View

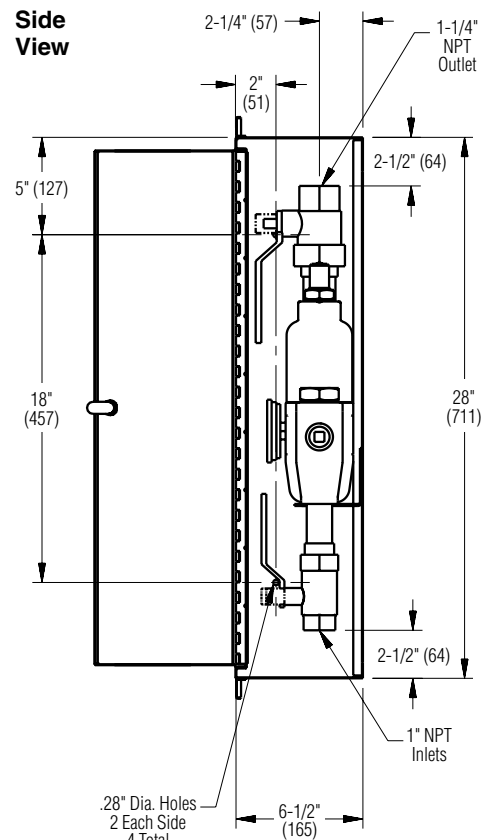
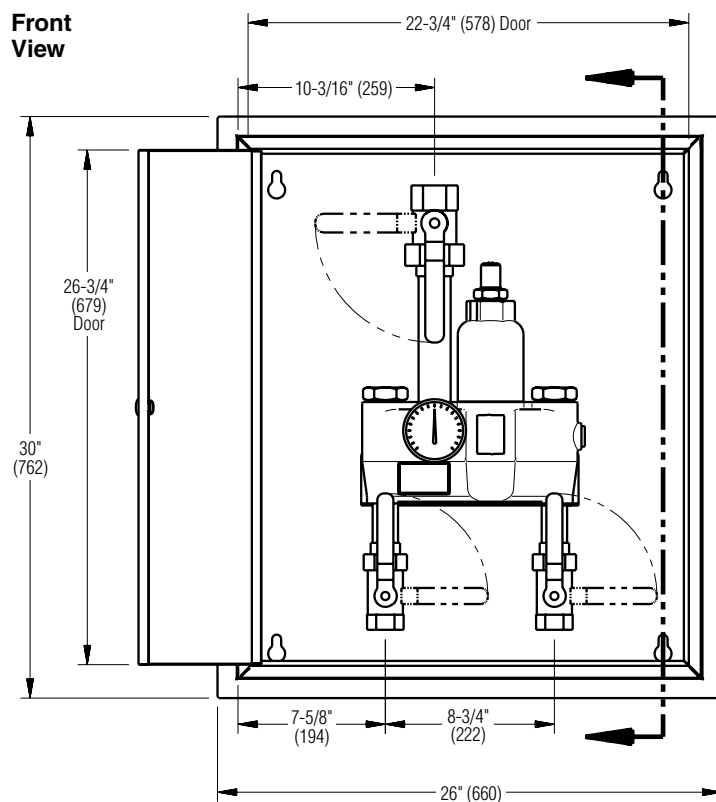


Side View



Bottom View





Bottom View

