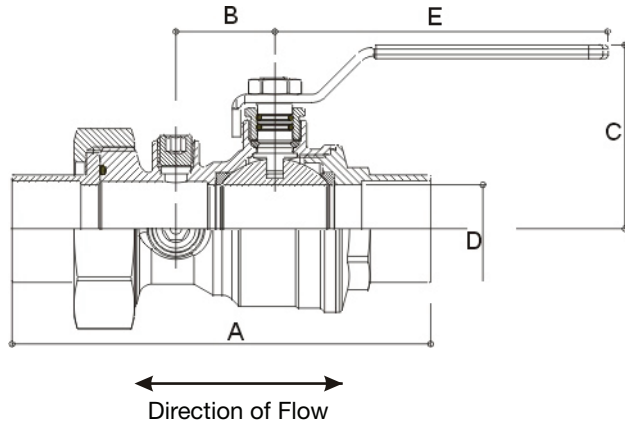


Technical Data	
Service	chilled or hot water, 60% glycol
Sizes	½", ¾", 1, 1¼", 1½", 2"
Materials:	
Body	forged brass
Ball	chrome plated/hot forged brass
Stem	extruded brass
Union	forged brass
Tailpiece	forged brass
Readout port body & cap	extruded brass
Seats	Virgin PTFE
Packing	Virgin PTFE
O-rings	Viton
Readout port	Nordel
Media temp. range	0°F to 212°F [-18°C to 100°C]
Leakage	0%



Application

This Isolation Valve combines the features of an isolation valve, union, and pressure/temperature readout ports into a single unit. The full port design is favored by Engineers because it minimizes terminal unit piping pressure drop and the forged brass body ensures reliable leak-free performance.

This Isolation Valve greatly simplifies the contractor's job by eliminating up to nine piping connections, thus saving time, money, and potential leak points. The Isolation Valve requires only one third the space of the components it replaces, making tough piping jobs a snap.

- All Isolation Valves are equipped with a manual air vent.

Connection Availability

Body end	female NPT ½" thru 2" copper SWT ½" thru 2"
Tailpiece end	male NPT ½" thru 2"
Body end with one size reduction	female NPT ¾" thru 2" copper SWT ¾" thru 2"
Body end with two size reduction	female NPT 1" thru 2" copper SWT 1" thru 2"

Part Number

PPV1110	½" female w/manual air vent and P/T port
PPV1210	½" sweat w/manual air vent and P/T port
PPV2110	¾" female w/manual air vent and P/T port
PPV2210	¾" sweat w/manual air vent and P/T port
PPV3110	1" female w/manual air vent and P/T port
PPV3210	1" sweat w/manual air vent and P/T port
PPV4110	1" to ¾" female w/manual air vent and P/T port
PPV4210	1" to ¾" sweat w/manual air vent and P/T port
PPV5110	¾" to ½" female w/manual air vent and P/T port
PPV5210	¾" to ½" sweat w/manual air vent and P/T port

Note: All reductions are on the tail piece side.
Only standard sizes are shown, consult factory for sizes 1¼" to 2" inch sizes.

Valve Nominal Size		Cv Rating	Dimensions Inches [mm]				
Inches	DN [mm]		A	B	C	D	E
½"	[12.70]	20.25	4.07 [103.4]	1.26" [32.00]	1.53" [38.86]	0.59" [14.99]	2.95" [74.93]
¾"	[19.05]	41.83	4.35 [110.5]	1.26" [32.00]	1.93" [49.02]	0.79" [20.07]	3.74" [95.00]
¾"	[19.05]	41.83	4.80 [121.9]	1.26" [32.00]	1.93" [49.02]	0.79" [20.07]	3.74" [95.00]
1"	[25.40]	78.38	5.00 [127]	1.42" [37.08]	2.40" [60.96]	1.00" [25.40]	4.73" [120.10]
1"	[25.40]	78.38	5.45 [138.4]	1.42" [37.08]	2.40" [60.96]	1.00" [25.40]	4.73" [120.10]
1¼"	[31.75]	132.10	5.43 [137.9]	1.42" [37.08]	2.59" [65.79]	1.25" [31.75]	4.72" [119.90]
1¼"	[31.75]	132.10	5.98 [151.9]	1.42" [37.08]	2.59" [65.79]	1.25" [31.75]	4.72" [119.90]
1½"	[38.10]	206.96	6.16 [156.5]	1.73" [43.94]	3.22" [81.79]	1.57" [39.88]	4.72" [119.90]
1½"	[38.10]	206.96	7.03 [178.6]	1.73" [43.94]	3.22" [81.79]	1.57" [39.88]	4.72" [119.90]
2"	[50.80]	346.00	6.79 [172.5]	1.73" [43.94]	3.50" [88.90]	2.00" [50.80]	5.90" [149.90]
2"	[50.80]	346.00	7.93 [201.4]	1.73" [43.94]	3.50" [88.90]	2.00" [50.80]	5.90" [149.90]

Note: the Cv factor is the flow rate in GPM through the valve at a 1 PSID. For calculated pressure drop across the Isolation valve, calculate $P = \left(\frac{GPM}{Cv}\right)^2$. Cv rating supplied in the chart.

Custom Option: The Isolation Valve is available in a body side press option for sizes ½" through 2". The Isolation Press greatly simplifies the Contractor's job by eliminating up to nine piping connections, thus saving time, money and potential leak points. The Isolation Press requires only one third the space of the components it replaces, making tough piping jobs a snap. The Isolation Press is designed for direct mechanical connection to ASTM B88-Type K, L and M copper tubing in the hard drawn condition.