

## Piping Package Nomenclature

P 2	1 1 1	1 2 1 3	1 2 1 1	2
<b>Piping Package</b> P = Piping Package <b>Valve Type</b> 2 = 2-way CCV 3 = 3-way CCV E = ePIV / EV P = PIQCV Q = QCV Z = Zone <b>Options</b> S = Supply Side Package X = Extension Package	<b>Union</b> <b>Valve Size</b> 1 = ½" 2 = ¾" 3 = 1" 4 = 1...¾" 5 = ¾...½" A = 1½" B = 1¼" C = 2" D = 1¼...1" E = 1½...1¼" F = 2...1½" G = 1...½" H = 1¼...¾" J = 1½...1" K = 2...1¼" <b>Body End</b> 1 = Female NPT 2 = Copper Sweat <b>Configuration</b> 1 = Standard <b>Tailpiece End</b> Male NPT Only	<b>Isolation Valve / Manual Balance Valve</b> <b>Valve Size</b> 1 = ½" 2 = ¾" 3 = 1" 4 = 1...¾" 5 = ¾...½" A = 1½" B = 1¼" C = 2" D = 1¼...1" E = 1½...1¼" F = 2...1½" G = 1...½" H = 1¼...¾" J = 1½...1" K = 2...1¼" <b>Body End</b> 1 = Female NPT 2 = Copper Sweat <b>Configuration</b> 1 = Standard <b>Tailpiece End</b> Male NPT Only	<b>Strainer / Isolation Valve</b> <b>Valve Size</b> 1 = ½" 2 = ¾" 3 = 1" 4 = 1...¾" 5 = ¾...½" A = 1½" B = 1¼" C = 2" D = 1¼...1" E = 1½...1¼" F = 2...1½" G = 1...½" H = 1¼...¾" J = 1½...1" K = 2...1¼" <b>Body End</b> 1 = Female NPT 2 = Copper Sweat <b>Configuration</b> 1 = Standard <b>Tailpiece End (Strainer Option)</b> 1 = Female NPT 2 = Copper Sweat 3 = Male NPT <b>Tailpiece End (Isolation Valve Option)</b> 0 = Select "0" for Isolation Valve Option Male NPT Only	<b>Hose</b> <b>Diameter &amp; Length</b> 1 = ½" (12" length) 2 = ½" (24" length) 3 = ¾" (12" length) 4 = ¾" (24" length) 5 = 1" (12" length) 6 = 1" (24" length) 7 = ½" (18" length) 8 = ¾" (18" length) 9 = 1" (18" length) A = 1¼" (18" length) H = 1¼" (24" length) B = 1¼" (36" length) C = 1½" (18" length) D = 1½" (24" length) E = 1½" (36" length) F = 2" (24" length) G = 2" (36" length)

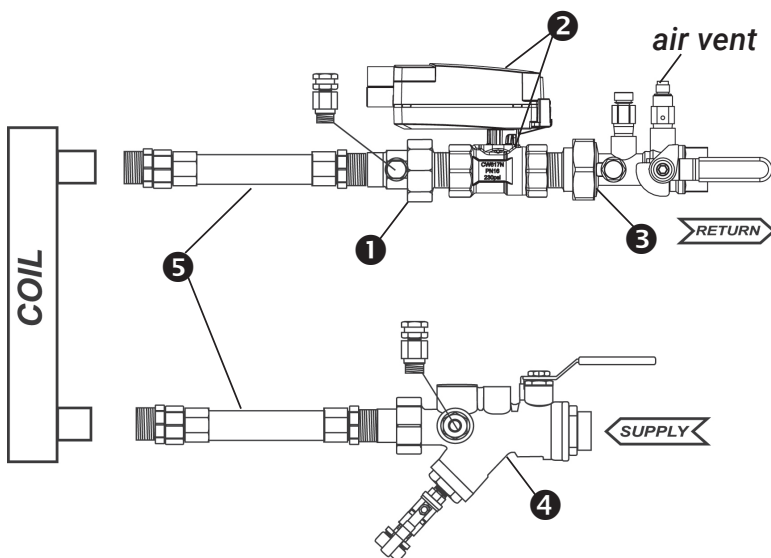
Please refer to typical Piping Package layouts on pages prior to ordering. Nomenclature chart does not include all configuration options or press connection types. Manual Balance Valves require flow consideration for proper sizing. Download Select-Pro software for complete options and available configurations. Consult factory for lead time. Non-standard items have increased lead time.

Non-Standard items include:

- 1¼...2" packages of all types
- All sizes of Unions, Manual Balance Valves, Strainers and Isolation Valves without P/T ports
- All sizes of Unions, Manual Balance Valves, Strainers and Isolation Valves with extensions
- All sizes of components with press fit connections

**Note: Piping Package smart code does not include the Belimo control valve in the price.**

# Piping Packages for 2-way ZoneTight Zone Valves (QCV)



## 2-way QCV (½...1" NPT) Return Side Package (Standard)

- ❶ Union
- ❷ Belimo Valve and Actuator (Not included in Smart Code or List Price)
- ❸ Manual Balance Valve
- ❹ Strainer
- ❺ Optional hoses are available

Supply side packages feature the Belimo control valve on the supply side of the coil and the above components arranged in a supply configuration. Refer to the SelectPro software for supply side configurations.



5-year warranty

### Union Technical Specifications

Fluid	chilled or hot water, 60% glycol
Sizes	½", ¾", 1"
Materials:	
Body	forged brass
Union nut	forged brass
Tailpiece	forged brass
O-ring	EPDM
Readout port body & cap	extruded brass
Readout port seal	Nordel
Pressure/temperature ratings:	
½...1"	600 psi
Component temperature	250°F maximum
Fluid temperature range	36...212°F [2...100°C]

### Strainer Technical Specifications

Fluid	chilled or hot water, 60% glycol
Sizes	½", ¾", 1"
Materials:	
Body	forged brass
Union nut	forged brass
Ball	chrome plated/forged brass
Stem & gland nut	forged brass
Tailpiece	forged brass
Seals & packing	PTFE
Stem o-rings	Viton
Strainer screen	304 stainless steel /20 mesh standard
Readout port body & cap	extruded brass
Readout port seal	Nordel
Pressure/temperature ratings:	
½...1"	600 psi
Component temperature	325°F maximum
Fluid temperature range	36...212°F [2...100°C]
Leakage	0%

### Manual Balance Valve Technical Specifications

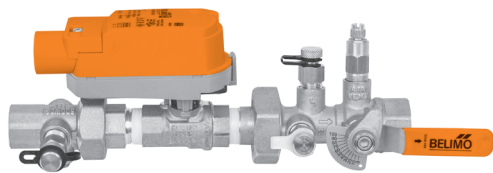
Fluid	chilled or hot water, 60% glycol
Sizes	½", ¾", 1"
Materials:	
Body	forged brass
Ball	chrome plated/forged brass
Stem	extruded brass
Union	forged brass
Tailpiece	forged brass
Gland nut	extruded brass
Seats & packing	virgin PTFE
O-rings	Viton
Venturi	extruded brass
Readout port body & cap	extruded brass
Readout port seal	Nordel
Memory stop	forged brass
Pressure/temperature ratings:	
½...1"	400 psi
Component temperature	300°F maximum
Fluid temperature range	36...212°F [2...100°C]
Leakage	0%

### Hose Technical Specifications

External braiding	stainless steel AISI 304
Crimping ferrules	stainless steel AISI 304
Connectors	machined brass
Fiber gasket	BA-U fiber washer
Core	formulated EPDM
Operating & burst pressure rating:	
½"	375 psi operating *400 psi <195°F [90°C] 1500 psi burst pressure
¾"	300 psi operating *400 psi <195°F [90°C] 1200 psi burst pressure
1"	225 psi operating 900 psi burst pressure
Component temperature	-5...+230°F [-20...+110°C] less than 41°F with use of glycol additive

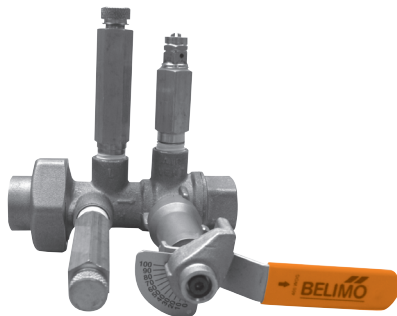
Note: Fluid temperature may be limited by the hose rating

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**COMPONENT ORDER NOMENCLATURE**

EXAMPLE: PQ	111	1111	1111	0
	Union PPU111	MBV PPL1111	Strainer PPS1111	No Hose



**Extension Packages Include:**

- Extended handle for Manual Balance Valve, Isolation Valve and Strainer
- Extended P/T ports for Union, Manual Balance Valve, Strainer or Isolation Valve
- Extended air vent for Manual Balance Valve and Isolation Valve

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PIPING PACKAGE SMARTCODE (ZONETIGHT)			UNION	MANUAL BALANCE VALVE**	STRAINER	LIST PRICE
Piping Package Model # (2-way QCV) without hose	Valve Nominal Size		Body End/ Tailpiece End	Body End/ Tailpiece End	Body End/ Tailpiece End	
	Inches	DN [mm]				
PQ 111 1111 1111 0	½	15	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$536
PQ 121 1211 1212 0	½	15	Sweat/M-NPT	Sweat/M-NPT	Sweat/Sweat	\$544
PQ 131 1111 1113 0	½	15	M-NPT/M-NPT	F-NPT/M-NPT	F-NPT/M-NPT	\$536
PQ 11B 11B1 11B3 0*	½	15	Press/M-NPT	Press/M-NPT	Press/F-NPT	\$695
PQ 211 2111 2111 0	¾	20	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$600
PQ 221 2211 2212 0	¾	20	Sweat/M-NPT	Sweat/M-NPT	Sweat/Sweat	\$600
PQ 231 2111 2113 0	¾	20	M-NPT/M-NPT	F-NPT/M-NPT	F-NPT/M-NPT	\$600
PQ 21B 21B1 21B3 0*	¾	20	Press/M-NPT	Press/M-NPT	Press/F-NPT	\$877
PQ 311 3114 3111 0	1	25	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$789
PQ 321 3214 3212 0	1	25	Sweat/M-NPT	Sweat/M-NPT	Sweat/Sweat	\$789
PQ 331 3114 3113 0	1	25	M-NPT/M-NPT	F-NPT/M-NPT	F-NPT/M-NPT	\$789
PQ 31B 31B4 31B3 0*	1	25	F-NPT/M-NPT	Press/M-NPT	Press/F-NPT	\$1,174

PIPING PACKAGE SMARTCODE (ZONETIGHT)			UNION	MANUAL BALANCE VALVE**	STRAINER	LIST PRICE
Piping Package Model # (2-way QCV) with short hose	Valve Nominal Size		Body End/ Tailpiece End	Body End/ Tailpiece End	Body End/ Tailpiece End	
	Inches	DN [mm]				
PQ 111 1111 1111 1	½	15	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$662
PQ 111 1211 1211 1	½	15	F-NPT/M-NPT	Sweat/M-NPT	Sweat/F-NPT	\$670
PQ 111 11B1 11B3 1*	½	15	F-NPT/M-NPT	Press/M-NPT	Press/F-NPT	\$758
PQ 211 2111 2111 3	¾	20	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$804
PQ 211 2211 2111 3	¾	20	F-NPT/M-NPT	Sweat/M-NPT	F-NPT/F-NPT	\$804
PQ 211 21B0 21B3 3*	¾	20	F-NPT/M-NPT	Press/M-NPT	Press/F-NPT	\$982
PQ 311 3114 3111 5	1	25	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$1,177
PQ 321 3214 3212 5	1	25	F-NPT/M-NPT	Sweat/M-NPT	Sweat/F-NPT	\$1,177
PQ 331 3114 3113 5*	1	25	F-NPT/M-NPT	Press/M-NPT	Press/F-NPT	\$1,418

PIPING PACKAGE SMARTCODE (ZONETIGHT)			UNION	MANUAL BALANCE VALVE**	STRAINER	LIST PRICE
Piping Package Model # (2-way QCV) with long hose	Valve Nominal Size		Body End/ Tailpiece End	Body End/ Tailpiece End	Body End/ Tailpiece End	
	Inches	DN [mm]				
PQ 111 1111 1111 2	½	15	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$700
PQ 111 1211 1211 2	½	15	F-NPT/M-NPT	Sweat/M-NPT	Sweat/F-NPT	\$708
PQ 111 11B1 11B3 2*	½	15	F-NPT/M-NPT	Press/M-NPT	Press/F-NPT	\$796
PQ 211 2111 2111 4	¾	20	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$864
PQ 211 2211 2111 4	¾	20	F-NPT/M-NPT	Sweat/M-NPT	F-NPT/F-NPT	\$864
PQ 211 21B0 21B3 4*	¾	20	F-NPT/M-NPT	Press/M-NPT	Press/F-NPT	\$1,042
PQ 311 3114 3111 6	1	25	F-NPT/M-NPT	F-NPT/M-NPT	F-NPT/F-NPT	\$1,241
PQ 321 3214 3212 6	1	25	F-NPT/M-NPT	Sweat/M-NPT	Sweat/F-NPT	\$1,241
PQ 331 3114 3113 6*	1	25	F-NPT/M-NPT	Press/M-NPT	Press/F-NPT	\$1,482

All combinations of reorder numbers are not reflected above. Please use the nomenclature or download the SelectPro software at [www.belimo.ca](http://www.belimo.ca) to configure other possible combinations.

\*\*Manual Balance Valve require flow consideration for proper selection. Reference 17-1 or Select-Pro for flow ranges.

**Please Note:** For return policy, refer to Piping Package section in Terms and Conditions.

\* Contains Non-Standard Items