Flow Control

Reliance Valves Pressure Independent Control Valves

Accurate and stable control of the flow rate of water determined by the operating spindle position, independent of circuit pressure changes

Overview

Reliance Valves Cast Iron Pressure Independent Control Valve with test points offers precise and accurate control of the flow rate of water determined by the operating spindle position, independent of the circuit pressure changes. By controlling the differential pressure across the internal control device, the flow rate is kept constant.

Utilising an internal flow setting device, the valve retains full stroke modulation and operating pressure can be verified through test points.

Features and benefits

- Accurate and stable control of the flow rate of water determined by the operating spindle position independent of the circuit pressure changes
- Flow accuracy +5% of max flow or +10% of set flow, whichever is greater
- Test points for verifying operating pressure
- Equal percentage characteristic curve
- Maximum operating differential pressure of 400kPa
- Full stroke modulation independent from the presetting
- Free of CE marking for DN≤300 (cat. according to Art. 4.3 Dir. 2014/68/EU)
- Robust cast iron body for trouble free service life
- Simple installation with PN16 Flanges

Product code	Description	Size
PICV402201	Pressure Independent Control Valve PN16 - DN65	DN65
PICV402202	Pressure Independent Control Valve PN16 - DN80	DN80
PICV402203	Pressure Independent Control Valve PN16 - DN100	DN100
PICV402204	Pressure Independent Control Valve PN16 - DN125	DN125
PICV402205	Pressure Independent Control Valve PN16 - DN150	DN150

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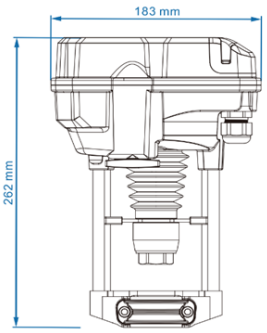
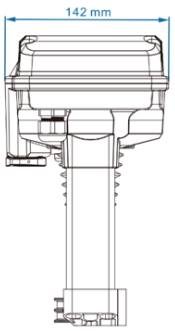
Working Parameters	
Maximum working pressure	16 bar
Operating temperature	0 to 100°C
Fluid	Water and mixtures of water / glycol up to 50% Not suitable for steam, oil or aggressive fluids

Materials	
Body	Ductile Iron
Disc	Stainless Steel
Seat	Stainless Steel
Stem	Stainless Steel
Stem Seals	EPDM

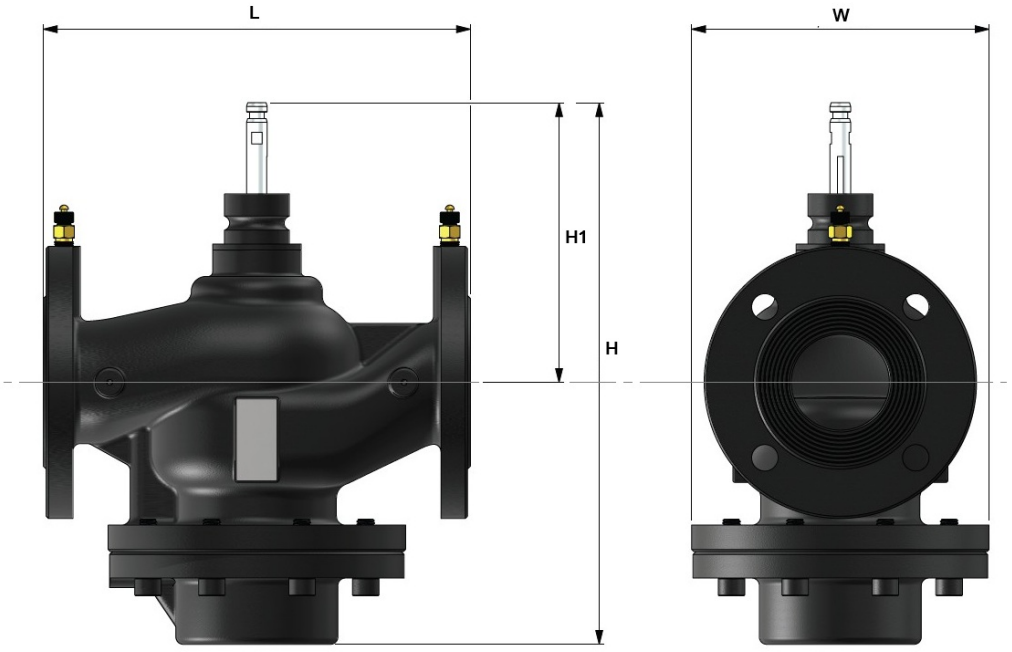




Applications
Heating
Chilled water
Not suitable for gas

Actuators		
PACT400001	S/S Actuator to suit PICV - DN65-DN80 1000N	Weight: 3kg
PACT400002	S/S Actuator to suit PICV - DN100-DN125 3000N	Weight: 3kg
PACT400003	S/S Actuator to suit PICV - DN150 5000N	Weight: 3kg

Approvals
Free of CE marking for DN≤300 (cat. according to Art. 4.3 Dir. 2014/68/EU)

Dimensions – All measurements in mm unless otherwise stated

Product Code	L	H	H1	H2	W	kv	Weight (kg)	No. of Bolt Holes	Hole Size
PICV402201	290	368	190	97	202	23.3	25	4	19
PICV402202	310	398	204	79	220	34.5	34	8	19
PICV402203	350	474	249	106	250	55.6	55	8	19
PICV402204	400	506	242	125	285	72.3	73	8	19
PICV402205	482	538	248	136	344	103.5	84	8	23