



DYNASTY

92 Series

PRESSURE INDEPENDENT CONTROL VALVE



Compact **design**
Dirt Free cartridge

92 DYNASTY

The new Dynasty range of PICV has been designed to give all the advantages of the existing PICV valve range with the added benefit of **operating in heavily contaminated water**. The valve has a **Linear characteristic** and it has also been designed to allow the **internals to be removed, clean and replaced** without effecting the performance of the valve.

Patented
 PATENT
 IT1428884
 US9910447 B2
 EP3067772 B1



92VL-92L 1/2"

92H 1/2"

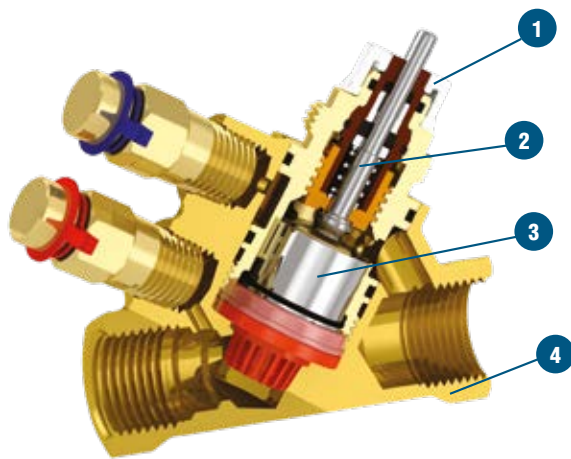
92L-92H 3/4"

92L-92H 1" - 92H 1 1/4"

92H 1 1/2"

92X/2

TECHNICAL INFORMATION



	Material list
Regulating valve (2)	High performance polymer, stainless steel
Pre-setting knob (1)	ABS + PC
Cartridge with diaphragm (3)	High performance polymer, WMQ silicon, stainless steel, HNBR
Body (4)	Corrosion resistant brass CW602N
O-rings	EPDM-x

ΔP max.	Close off pressure	Temperature	Working pressure max.	Stroke	Leakage
600 kPa / 6 bar	600 kPa / 6 bar	-10 ÷ 120 °C	2500 kPa / 25 bar	3 mm (1/2" - 3/4") 6 mm (1" - 1 1/4") 7,5 mm (1 1/2")	Classe IV IEC 60534-4

	92VL 1/2"	92L 1/2"	92H 1/2"	92L 3/4"	92H 3/4"	92L 1"	92H 1"	92H 1 1/4"	92H 1 1/2"
	92VL1 1/2"	92L1 1/2"	92H1 1/2"	92L1 3/4"	92H1 3/4"	92L1 1"	92H1 1"	92H1 1 1/4"	92H1 1 1/2"
Flow rate max	150 l/h 0,66 GPM	450 l/h 1,98 GPM	850 l/h 3,74 GPM	1000 l/h 4,40 GPM	1850 l/h 8,15 GPM	2500 l/h 11,01 GPM	3300 l/h 14,53 GPM	5200 l/h 22,89 GPM	9000 l/h 39,63 GPM
Start-up max	3,63 psi 0,25 bar	5,08 psi 0,35 bar	3,63 psi 0,25 bar	4,35 psi 0,30 bar	5,08 psi 0,35 bar	4,35 psi 0,30 bar	4,35 psi 0,30 bar	5,08 psi 0,35 bar	5,80 psi 0,40 bar
Connections	Rp 1/2" F EN 10226-1	Rp 1/2" F EN 10226-1	Rp 1/2" F EN 10226-1	Rp 3/4" F EN 10226-1	Rp 3/4" F EN 10226-1	Rp 1" union F EN 10226-1	Rp 1" union F EN 10226-1	Rc 1 1/4" union F EN 10226-1	Rp 1 1/2" F EN 10226-1

VL1 - L1 - H1 , versions with predisposition of pressure ports

	92XL/2 1/2"	92XL/2 1/2"	92XL/2 3/4"	92XL/2 3/4"	92XL/2 1"	92XH/2 1"
Flow rate max	150 l/h 0,66 GPM	450 l/h 1,98 GPM	150 l/h 0,66 GPM	450 l/h 1,98 GPM	1000 l/h 4,40 GPM	1850 l/h 8,15 GPM
Start-up max	3,63 psi 0,25 bar	5,08 psi 0,35 bar	3,63 psi 0,25 bar	5,08 psi 0,35 bar	4,35 psi 0,30 bar	5,08 psi 0,35 bar
Connections	G 1/2" M ISO 228-1	G 1/2" M ISO 228-1	G 3/4" M ISO 228-1	G 3/4" M ISO 228-1	G 1" M ISO 228-1	G 1" M ISO 228-1

APPLICATIONS

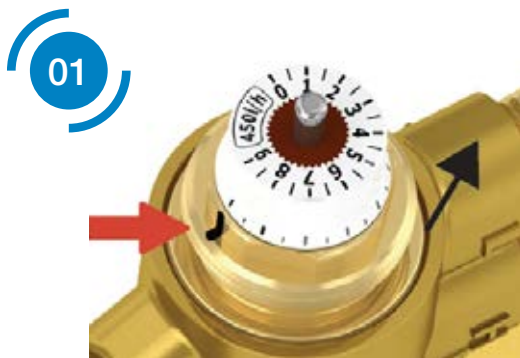
The new Dynasty range of PICV has been designed to **provide flow limitation and temperature control** of heating and chilled water systems to terminal units. The Dynasty valve provides good control of water to water heat exchangers and is **ideal for use in Heat Interface Units** where water quality is difficult to maintain, due to the difficulty in accessing every unit. The Dynasty valve can also be **fitted in valve assemblies** to be connected to Fan Coil Units

FEATURES & BENEFITS

- ✓ **COMPACT** size
- ✓ **THERMAL ACTUATORS** and **ELECTRO MECHANICAL ACTUATORS** available
- ✓ **LINEAR** characteristic
- ✓ **EASY** maintenance
- ✓ **DIRT FREE** cartridge
- ✓ Minimum pressure required for start-up **EXTREMELY LOW**

✓ **INTERNAL PRESETTING** with strike reduction of the control valve

- It is possible to set the selected flow by following some simple steps:



✓ **ACCESSIBLE** cartridge for easy maintenance

- Headwork and its diaphragm can be **easily accessed** to perform maintenance, **cleaning or replacement** procedure

A key feature of the Dynasty valve is the **ability to work in heavily dirty water**. Pettinaroli recommend that all water distribution systems are properly flushed. For those systems where the water quality is poor the Dynasty has been **designed to operate longer** than any other PICV on the market and has the **added feature** that the valve can easily be disassembled, cleaned and the cartridge replaced



THERMO ELECTRIC ACTUATOR



Code	Volt	Stroke	for PICV series	Notes
A54202	230V	4 mm	92 (1/2"-3/4") - 92X/2	with adapter and 1 meter cable included
A54204	230V	4 mm	92 (1/2"-3/4") - 92X/2	with adapter and 1 meter cable included Micro auxiliary 4 cables.
A54402	24V	4 mm	92 (1/2"-3/4") - 92X/2	with adapter and 1 meter cable included
A54404	24V	4 mm	92 (1/2"-3/4") - 92X/2	with adapter and 1 meter cable included Micro auxiliary 4 cables.
A55102	120V	5 mm	92 (1/2"-3/4") - 92X/2	with adapter and 1 meter cable included
A56102	120V	6,5 mm	92 (1" - 1 1/4")	with adapter and 1 meter cable included
A56202	230V	6,5 mm	92 (1" - 1 1/4")	with adapter and 1 meter cable included
A56402	24V	6,5 mm	92 (1" - 1 1/4")	with adapter and 1 meter cable included



Code	Volt	Stroke	for PICV series	Notes
A544P3	0-10V	4 mm	92 (1/2" - 3/4") - 92X/2	Proportional actuator 24V (0-10V) with adapter and 1 meter cable included
A564P3	0-10V	6,5 mm	92 (1" - 1 1/4")	Proportional actuator 24V (0-10V) with adapter and 1 meter cable included

ELECTROMOTIVE ACTUATOR



Code	Volt	Stroke	for PICV series	Notes
VA7481	24V	6,3 mm	92 (1/2" to 1 1/4") 92X/2	Electric 3-point actuator. Adapter not included. Art. 0A7010 for 92 (1/2" - 3/4") - 92X/2 series. Art. 0A748X for 92 (1" - 1 1/4") series.
VA7481	230V	6,3 mm	92 (1/2" to 1 1/4") 92X/2	Electric 3-point actuator. Adapter not included. Art. 0A7010 for 92 (1/2" - 3/4") - 92X/2 series. Art. 0A748X for 92 (1" - 1 1/4") series.
VA7483	0-10V	6,3 mm	92 (1/2" to 1 1/4") 92X/2	Electric proportional actuator. Adapter not included. Art. 0A7010 for 92 (1/2" - 3/4") - 92X/2 series. Art. 0A748X for 92 (1" - 1 1/4") series.
VA7484	0-10V	6,3 mm	92 (1/2" to 1 1/4") 92X/2	Electric proportional actuator. Adapter not included. Art. 0A7010 for 92 (1/2" - 3/4") - 92X/2 series. Art. 0A748X for 92 (1" - 1 1/4") series.



Code	Volt	Stroke	for PICV series	Notes
VM060	0-10V	6,5 mm	92 (1/2" to 1 1/4") 92X/2	Control valve stroke recognition system. Proportional actuator 0-10V, fail safe and feedback signal with adapter included.
VM000	0-10V	6,5 mm	92 (1/2" to 1 1/4") 92X/2	Control valve stroke recognition system. Proportional actuator 0-10V, feedback signal with adapter included.