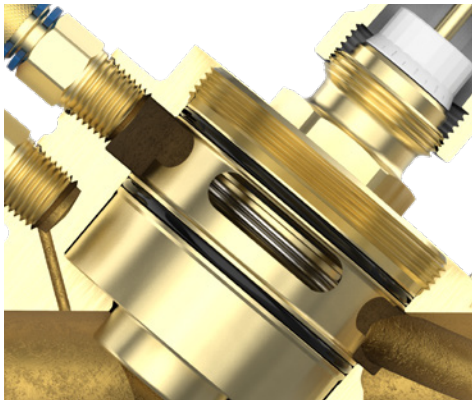
English

PETTINAROLI

DYNASTY

PICV 92 Series



92 DYNASTY

The **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″

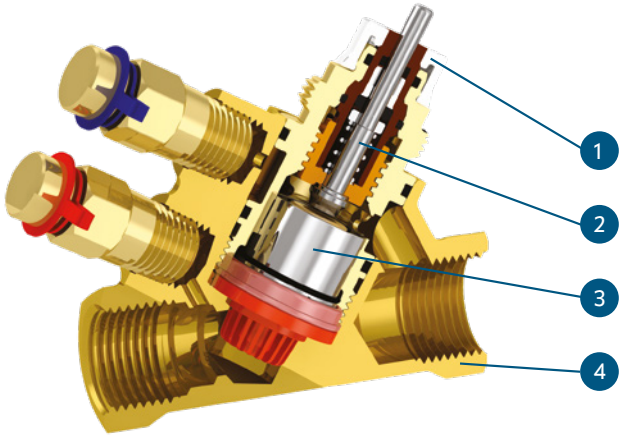
92L-92H 3/4″

92L-92H 1″ - 92H 1 1/4″

92H 1 1/2″ - 92H 2″

92X/2

TECHNICAL INFORMATION



	Material list
Regulating valve (2)	Hight performance polymer, stainless steel
Pre-setting knob (1)	ABS + Polycarbonate
Membrane based diaphgram (3)	Hight performance polymer, WMQ silicon, stainless steel, HNBR,EPDM
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″ - 2″)	Classe IV IEC 60534-4

	92VL ½″ 92VL1 ½″	92L ½″ 92L1 ½″	92H ½″ 92H1 ½″	92L ¾″ 92L1 ¾″	92H ¾″ 92H1 ¾″	92L 1″ 92L1 1″	92H 1″ 92H1 1″	92H 1 1/4″ 92H1 1 1/4″	92H 1 1/2″ 92H1 1 1/2″	92H 2″ 92H1 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	14000 l/h 61,70 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	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	Rp 2″ F EN 10226-1

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

	92XVL/2 1/2″	92XL/2 1/2″	92XVL/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 **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** were 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.

5 YEARS WARRANTY
ON PRODUCTION DEFECTS

FEATURES & BENEFITS

√ **LOW MINIMUM PRESSURE** required for start-up

√ **THERMOELECTRIC** and **ELECTRO MECHANICAL ACTUATORS** available

√ **DIRT RESISTANT DIAPHRAGM**
Life-tested according to proprietayy **test with dirty water**, constantly contaminated by **900 PPM of Iron Oxide Fe2O3 (5 microns)**

√ **COMPACT** size

√ **LINEAR** characteristic

√ **EASY** manteinance

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

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

√ **ACCESSIBLE** diaphragm for easy manteinance

- Headwork and its diaphragm can be **easily accessed** to perform **manteinance, 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 headwork replaced**.

THERMOELECTRIC ACTUATOR

A5 Series

Thermo-electric actuator ON-OFF-PWM N.C. (normally closed) 24V, 120V, 230V, with adapter VA64. For 92 (1/2" - 3/4") series. Stroke 4 to 6,5mm. Cable 1 m.

A5 Proportional Series

Thermo-electric actuator 24V with (0-10V) VA64 adapter. Proportional 0-10V (normally closed). For 92 (1/2" - 3/4") series. Stroke 4 to 6,5mm. Cable 1 m.

ELECTROMOTIVE ACTUATOR

BluDRIVE

VT Series

Electromotive actuator, floating (3 points) or ON/OFF (2 points) , proportional 0-10V, 24V, 230V, with electric fail safe, feedback, valve selection + flow rate setting, Delta T Control with two digital temperature sensor.

VA Series

Electric actuator for balancing valve 92 Series. Floating or proportional version. 0-10V, 24V, 230V. Stroke 3,2 to 8,5mm. Adaptor not included.

RVA Series

Electromotive 24V, 120V, 230V floating (3 points) actuator or ON/OFF or proportional 0-10V actuator to drive Pettinaroli PICV 92 series. Equipped with stroke detection system. Stroke 8,7mm.

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