



# DYNASTY

## PEB92 Series

PRESSURE INDEPENDENT CONTROL VALVE



Compact Design  
Tolerates Heavily Contaminated Water  
Removable Cartridge

## PEB92 DYNASTY TECHNICAL SPECIFICATIONS

The new Dynasty range of PICV has been developed to give all the advantages of the existing PICCV range with the added benefit of being designed and tested to **operate in heavily contaminated water**. The valve has a **Linear characteristic** and has been designed to allow the internals to be removed, clean and replaced without affecting the performance of the valve. The Dynasty valve is designed and manufactured in Italy to the highest standard and can be incorporated into one of Pettinaroli UK's off the shelf or bespoke designed pre assembled kits.

Patented

PATENT  
IT1428884  
US9910447 B2  
EP3067772 B1

### FEATURES & BENEFITS

- ✓ Designed for use in **HEAVILY CONTAMINATED** water  
Life-tested according to proprietary **test with dirty water**, constantly contaminated by **900 PPM of Iron Oxide Fe<sub>2</sub>O<sub>3</sub> (5 microns)**
  - ✓ **COMPACT** Size
  - ✓ **EASILY ACCESSIBLE & MAINTAINABLE** Cartridge
  - ✓ Designed and Fully **MANUFACTURED IN ITALY**
  - ✓ **SIMPLE** Pre-setting of valve
  - ✓ Designed for **FAN COIL UNITS, CHILLED BEAMS** and **HEAT INTERFACE UNITS.**
- ✓ **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



### INTERNAL PRESETTING with stroke reduction of the control valve

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



## PEB92 DYNASTY COMPLETE RANGE

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.

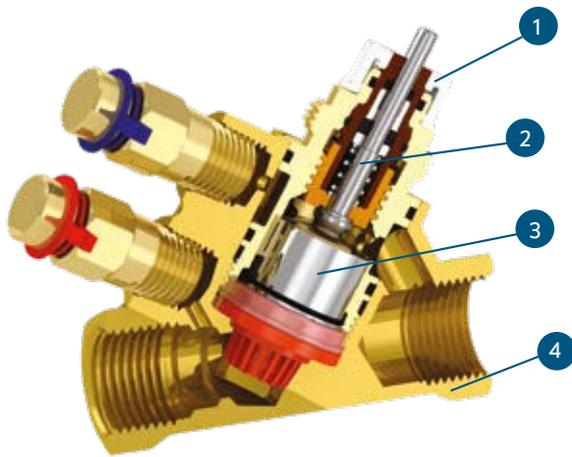
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**5 YEARS  
WARRANTY**

ON PRODUCTION  
DEFECTS



## 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" - 2")	Classe IV IEC 60534-4

	PEB92VL.04	PEB92L.04	PEB92H.04	PEB92L.06	PEB92H.06	PEB92L.08	PEB92H.08	PEB92H.10	PEB92H.12	PEB92H.16
	PEB92VL.04.X	PEB92L.04.X	PEB92H.04.X	PEB92L.06.X	PEB92H.06.X	PEB92L.08.X	PEB92H.08.X	PEB92H.10.X	PEB92H.12.X	PEB92H.16.X
Flow rate max.	150 l/h 0,042 l/s	450 l/h 0,125 l/s	850 l/h 0,236 l/s	1000 l/h 0,278 l/s	1850 l/h 0,514 l/s	2500 l/h 0,694 l/s	3300 l/h 0,917 l/s	5200 l/h 1,44 l/s	9000 l/h 2,5 l/s	14000 l/h 3,89 l/s
Start-up max.	25 kPa 0,25 bar	35 kPa 0,35 bar	30 kPa 0,30 bar	30 kPa 0,30 bar	35 kPa 0,35 bar	30 kPa 0,30 bar	30 kPa 0,30 bar	35 kPa 0,35 bar	40 kPa 0,40 bar	40 kPa 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

	PEB92XVL/2.04	PEB92XL/2.04	PEB92XVL/2.06	PEB92XL/2.06	PEB92XL/2.08	PEB92XH/2.08
Flow rate max.	150 l/h 0,042 l/s	450 l/h 0,125 l/s	150 l/h 0,042 l/s	450 l/h 0,125 l/s	1000 l/h 0,278 l/s	1850 l/h 0,514 l/s
Start-up max.	25 kPa 0,25 bar	35 kPa 0,35 bar	25 kPa 0,25 bar	35 kPa 0,35 bar	25 kPa 0,25 bar	30 kPa 0,30 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

### PEB92 DYNASTY



Dynasty PICV - Externally Adjustable 1/2" - 2" PICV with Linear Characteristic with removable cartridge and test points. DZR Body with Female BSP Connections. Maximum Flow rate of 14000 l/h.  
PATENT IT1428884 - US9910447 B2 - EP3067772 B1

Ø"		Code
1/2" - 150 l/h	1	PEB92VL.04
1/2" - 450 l/h	1	PEB92L.04
1/2" - 850 l/h	1	PEB92H.04
3/4" - 1000 l/h	1	PEB92L.06
3/4" - 1850 l/h	1	PEB92H.06
1" - 2500 l/h	1	PEB92L.08
1" - 3300 l/h	1	PEB92H.08
1 1/4" - 5200 l/h	1	PEB92H.10
1 1/2" - 9000 l/h	1	PEB92H.12
2" - 14000 l/h	1	PEB92H.16

### PEB92\_X DYNASTY



Dynasty PICV - Externally Adjustable 1/2" - 2" PICV with Linear Characteristic with removable cartridge. DZR Body with Female BSP Connections. Maximum Flow rate of 14000 l/h.  
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Ø"		Code
1/2" - 150 l/h	1	PEB92VL.04.X
1/2" - 450 l/h	1	PEB92L.04.X
1/2" - 850 l/h	1	PEB92H.04.X
3/4" - 1000 l/h	1	PEB92L.06.X
3/4" - 1850 l/h	1	PEB92H.06.X
1" - 2500 l/h	1	PEB92L.08.X
1" - 3300 l/h	1	PEB92H.08.X
1 1/4" - 5200 l/h	1	PEB92H.10.X
1 1/2" - 9000 l/h	1	PEB92H.12.X
2" - 14000 l/h	1	PEB92H.16.X

### PEB92X/2 DYNASTY



Dynasty PICV - Externally Adjustable 1/2" - 1" PICV with Linear Characteristic with removable cartridge and test points. DZR Body with MXM Connections. Maximum Flow rate of 1850 l/h.

Ø"		Code
1/2" - 150 l/h	1	PEB92XVL/2.04
1/2" - 450 l/h	1	PEB92XL/2.04
3/4" - 150 l/h	1	PEB92XVL/2.06
3/4" - 450 l/h	1	PEB92XL/2.06
1" - 1000 l/h	1	PEB92XL/2.08
1" - 1850 l/h	1	PEB92XH/2.08



Pettinaroli UK

Riverside, Unit K - Austin Way - Hamstead Industrial Estate Birmingham B42 1DU  
Telephone: +44 (0)121 358 2012 - Email: solutions@pettinaroliuk.com  
web: <http://www.pettinaroliuk.com>



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