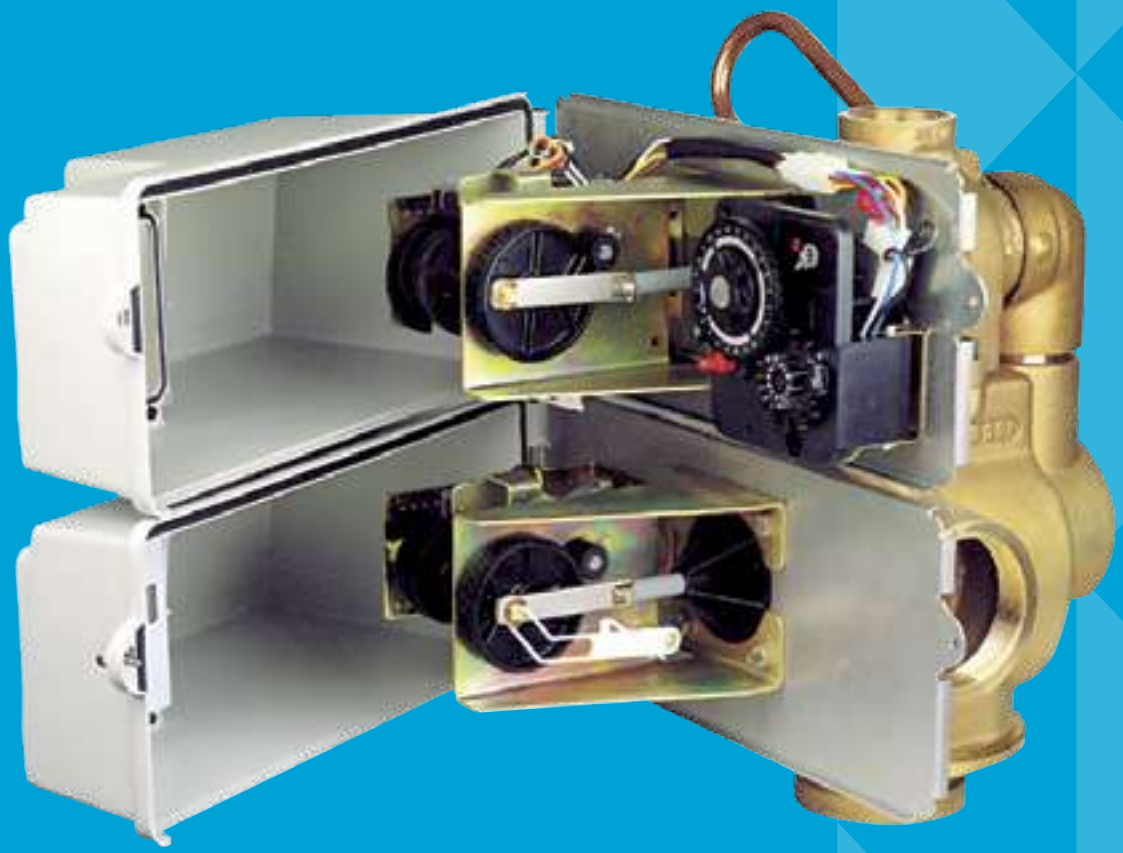
PENTAIR

pHorko
industrial water purification systems

TECHNICAL SHEET

FLECK
INDUSTRIAL VALVE 3900



PENTAIR pHorko industrial water purification systems

TECHNICAL SHEET



FLECK INDUSTRIAL VALVE - 3900



TECHNICAL CHARACTERISTICS

- Ideal for industrial application and multivalve systems
- Improved 2 pistons-system technology to drive independant flows of service and regeneration
- Power head: corrosion resistant and UV stable
- Optional upflow brining
- Valve body in brass
- Regeneration:
  - Timeclock: 7 or 12 days
  - Meter: delayed or immediate
  - Electronic timer

OPERATING SPECIFICATIONS

VALVE SPECIFICATION

Material	Brass
Hydrostatic pressure	20 bar
Working pressure	1.8 - 8.5 bar
Working temperature	1 - 43 °C
Electrical rating	24 V - 50Hz, other upon request
Protection index	IP 22

FLOW RATE (3.5 BAR INLET - VALVE ALONE)

Continuous (Δp = 1 bar)	57 m^3/h
Peak (Δp = 1.8 bar)	74 m^3/h
Cv*	65 gpm
Maximum backwash (Δp = 1.8 bar)	24 m^3/h

* Cv: Flow rate of valve alone in gpm at 0.07 bar pressure drop.

DOWN FLOW REGENERATION

	Mechanical	Electronic
Cycles	Adjustable	Adjustable
Time available	164 min	Up to 99 min each cycle

CONNECTIONS - DIMENSION

Inlet / outlet	3 inches BSP
Distributor tube	90 mm (DN 40)
Riser tube cut: Target / Max / Min	Flush with top tank / 0.5 inch above tank / 0.75 inch below tank
Drain line	2 inch BPS
Brine line (1800)	1 inch NPT
Mounting base	6 inches - 8 thread UN
Height (from the top of tank)	381 mm
Tank size application (recommended)	
Water softener	30 -6 0 inches (760 - 1520 mm)
Filters	24 - 42 inches (610 - 1070 mm)

METER

	Mechanical	**Electronic**
Accuracy range (± 5%)	26.67 - 1133 Lpm	N/A
Standard capacity range	14 - 240 m^3	????
Extended capacity range	70 - 1200 m^3	N/A

REGENERATION CYCLES

Down flow	**Upflow**
1) Backwash (Upflow)	1) Brine and slow rinse (Upflow)
2) Brine & slow rinse (Down flow)	2) Back wash (Upflow)
3) Rapid rinse (Down flow)	3) Rapid rinse (Down flow)
4) Brine tank refill	4) Brine tank refill
5) Service	5) Service

OPTIONS

No water during regeneration	NBP
Regeneration	Upflow
Mounting	Side mount
Electronic	

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