Paddle Flow Rate Pilot

Model PC-70-M

This flow rate pilor is a direct acting pilot valve, actuated by a paddle that is positioned within the flow stream.
Should demand rise above setting, the increasing flow dynamic force moves the paddle, which thereby pushes the pilot trim against the spring force. This increases control water flow into the control chamber, causing the main valve to throttle closed limiting system flow to pilot setting. The pilot's unique internal design dynamically increases and decreases the main valve response speed in direct proportion to the discrepancy between actual and setting flow rate.

Typical Applications

- Flow Control Valves
- Flow Control and Pressure Reducing Valves
- Level and Flow Control Valves
- Burst Control Valves

Technical Data

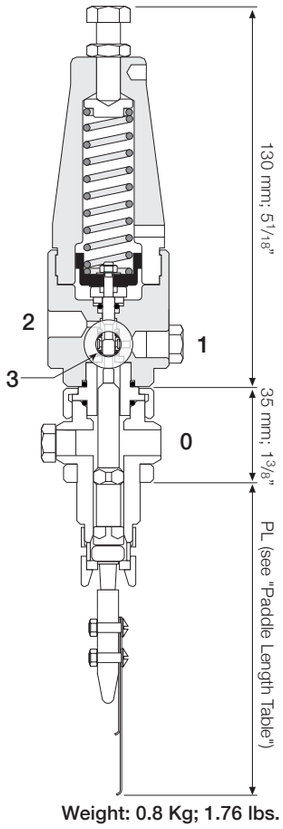
Pressure Rating: 16 bar; 232 psi
Working Temperature: Water up to 80˚C; 180˚F
Flow Factor: Kv 0.07 m3/h @ 1bar ΔP; Cv 0.08 GPM @ 1psi ΔP
Standard Materials:
Body & Cover: Brass
Elastomers: NBR
Internals: Stainless Steel & Brass
Spring: Stainless Steel
Ports: 1/8" NPT

Adjustment Range

Spring	Flow Velocity	
	m/sec.	f/sec.
E-Purple	1-5	3.3-16.4

Connections

0 - Upstream
1 - Plugged
2 - Downstream
3 - Valve control chamber



Weight: 0.8 Kg; 1.76 lbs.

Paddle Length Table

Valve size		Paddle Length (mm)	Paddle Length (inch)	Number Leaves
inch	DN			
1 1/2	40	74	2 15/16	1
2	50	74	2 15/16	1
2 1/2	65	84	3 5/16	2
3R	80R	74	2 15/16	1
3	80	89	3 1/2	2
4R	100	89	3 1/2	2
4	100	104	4 1/8	3
*5	125	111	4 11/16	4
6	150	119	5 1/4	4
8	200	134	5 7/8	5
10	250	149	4 5/16	6

* 5"; 125mm fourth Paddle leave is 3/8"; 8mm shorter than the standard fourth leave and is marked in Blue.

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