



Polysulfone Paddle Monitor



measuring
•
monitoring
•
analysing

PPS



- Switching range:
18-36 ... 72-108 l/min
- Accuracy: $\pm 20\%$ of reading
- Reproducibility:
 $\pm 3\%$ of reading
- p_{\max} : 10 bar; t_{\max} : 105 °C
- Connection:
G 1, 1" NPT male for
nominal pipe sizes > NW 32
- Material:
Polysulfone, transparent
- Small pressure loss



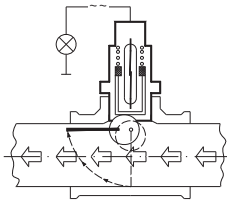
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Description

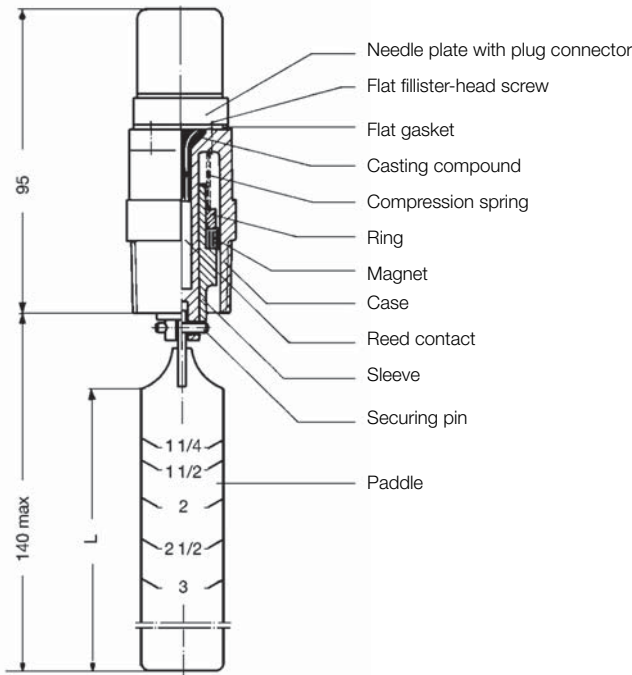
The flow monitor PPS is a flow monitor for nominal pipe sizes greater than NW 32.



Fluid flow (regardless of direction) deflects the paddle and over an eccentric moves a magnet holder fitted to a permanent magnet.

The magnet actuates non-contacting a dry-reed switch embedded in the switching tube. The paddle switch is available with N/O contact or N/C contact. The inlet and outlet pipe section should be approximately three times the nominal size of the piping. The flow monitor can be fitted in a standard T piece or reducing pipe. Ideally the flow monitor should be fitted in horizontal piping.

Dimensions



Technical Details

- Material: Polysulfone, transparent
- Connection: G 1 or 1" NPT
- Medium temperature: max. +105 °C
- Operating pressure: max. 10 bar
- Maximum pressure drop: 0.1 bar
- Setting tolerance: ±20% of reading
- Repeatability: ±3% of reading
- Other materials exposed to the medium: stainless steel, ceramic magnet
- Electrical connection: connector socket according to DIN 43 650
- Protection type: IP 65
- Mounting position: Paddle vertical/ pipe horizontal
- Switch: N/C, N/O or SPDT contact, hermetically sealed dry-reed switch
- Max. Switching capacity: 230 V_{AC/DC}; 2 A; 40 W/VA (N/C, N/O)
100 V_{DC}; 0.5 A; 5 W (changeover contact)

Applications

- Monitoring cooling circuits
- Dry running protection for pumps
- Prevention of low water levels
- Monitoring pipe fractures
- Monitoring lubricant circuits

Order Details (Example: PPS-1201)

Contact operation (with rising flow rate)	Order number G 1 male	Order number 1" NPT male
N/C contact	PPS-1201	PPS-3205
N/O contact	PPS-1202	PPS-3206
Changeover contact	PPS-1203	PPS-3203

Switching points

Nominal pipe size (customer side)	Cutting mark (L) [mm]	Switching point	
		H ₂ O falling [l/min]	H ₂ O rising [l/min]
32	28	18	36
40	35	36	54
50	47	36	72
65	60	54	90
80	73	72	108

The flow throughput switching point is determined by the length of the paddle. During fitting the paddles are adapted to the nominal pipe size by cutting at the paddle marking (see table).