



WATER FLOW REGULATOR

RWFR 160



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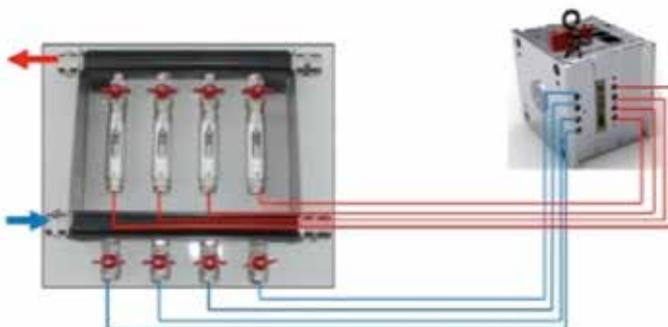


Functional mediums distribution device for flow and temperature monitoring and control

Our mediums distribution device RWFR is used to measure and monitor volume flows of liquid mediums and is characterised by its variability and its compact and robust design. The measurement and monitoring function of the mediums distribution device can be customised to client-specific applications. It ensures exact regulation by means of controlled and continuous water flow in all ranges of application and temperature. The optimum mediums distribution device for plastics-processing machines for open and closed circuits up to 160°C.

ECONOMIC ADVANTAGES:

- Improves heat transmission at the tool
- Reduces loss of pressure and increases flow
- Reduces total installation costs
- Reduces start-up time
- Reduces cycle time
- Increases process stability
- Makes contaminations in the cooling circuit/ temperature control circuit transparent and alerts before waste is produced
- Monitors flow and temperature
- Ease of operation



Our mediums distribution device provides exact temperature and flow monitoring to actively influence mould temperature control and the production process.

ADVANTAGE OF MEDIUMS DISTRIBUTION DEVIDE:

- Large volume flow
- Cut-off ball regulating valves in flow and return line
- Fault prevention: Exact identification of the source of the problem by division of the circuits
- High measurement precision, high switching accuracy, low hysteresis, high functional reliability
- Any installation position, easy operation and maintenance
- Shock pressure-resistant, thus can also be used in difficult circumstances
- The system can be integrated in production machines and installations without any problems thanks to the compact and robust design .
- Measurement ranges can be adapted to the respective requirements with low effort by changing the inspection glass and lifting element
- Suitable for open and closed circuits



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PROPERTIES:

- Any installation position
- Float measurement principle
- High switching accuracy
- High measurement precision
- High functional reliability
- Very low switching hysteresis

VERSIONS:

- With inspection glass, scale burned-in in the glass
- Bimetallic display thermometer
- Thermocouples, pressure switch
- Various measurement ranges
- Subsequent individual adaptation of measurement ranges possible

OPERATING DATA:

- Operating pressure 15 bar max.
- Loss of pressure 0.02 – 0.3 bar
- Measurement precision $\pm 10\%$ of the final value
- Temperature 160°C max.
- Collector flow line / collector return line IT 1"
- Tool flow line / tool return line IT 3/8"



FLOW INDICATION:

- Parts in contact with mediums: stainless steel/ brass nickel-pl.
- Inspection glass: Duran 50 (in contact with mediums)
- Springs: 1.4571 (in contact with mediums)
- Gaskets: EPDM/FKM (in contact with mediums)
- Magnets: hard ferrite (in contact with mediums)
- Casing: anodised aluminium (not in cont. w. mediums)
- Flow monitoring, switching contact:
- Type "closing contact" 230V – 3A – 60VA max. (potential-free reed contact – "binary")
- For liquid mediums

MONITORING SWITCHING CONTACT:

- Type "closing contact" – 180° or 60° optionally, mounted from inspection glass. (inspect. glass version)
- If the preset minimum flow rate is not reached in one of the circuits, there will be an immediate alarm and an exact identification of the source of the fault

EXAMPLE SWITCHING CONTACT:

- Desired minimum flow rate: 10 l/min. 10 l/min. (cut-off point), measurement range: 6-15 l/min.
- Flow rate above 10 l/min. ok
- Flow rate below 10 l/min. n.ok



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