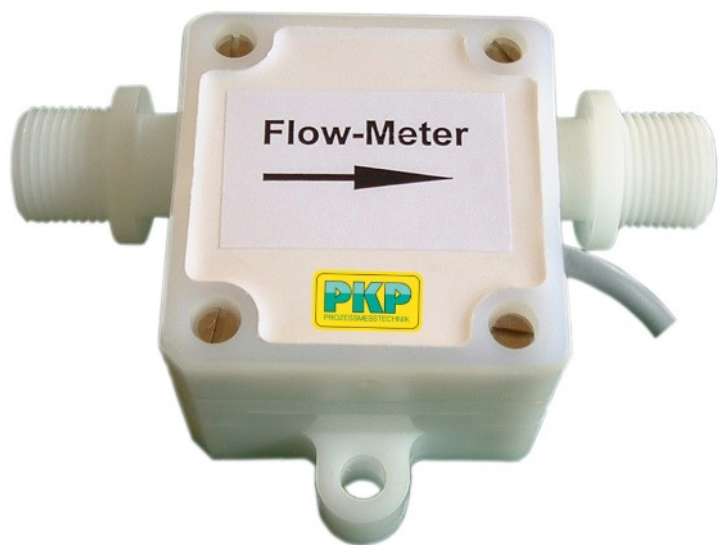


DR56

Plastic Paddle Wheel Flowmeter

- for liquids
- measuring range 20...1000 l/h
- process connection G 3/8 male
- housing made of POM or ECTFE
- independent of position
- no inlet and outlet pipe runs needed
- max. pressure: 10 bar
- max. temperature: 80 °C



Description:

The plastic paddle wheel flow meter of the DR56 series measure the flow of water and water-like (low viscous) media. They consist of a sensor and an optional transmitter. The sensor has a paddle wheel which is mounted in a housing made of POM or ECTFE and is rotated by the flowing medium. This rotary motion is picked up by a Hall sensor system and emitted as a flow-proportional frequency signal. A convenient control unit with display is available as an option, which can also be mounted on the flow meter.

Typical applications:

The DR54 impeller flow meters are very resistant to many process media due to their design made of insensitive plastics. Almost all low-viscosity liquids can be measured reliably and cost-effectively with this device.

- cooling circuits
- osmosis plants
- electroplating / photo industry
- agriculture / gardening
- filling plants / washing plants

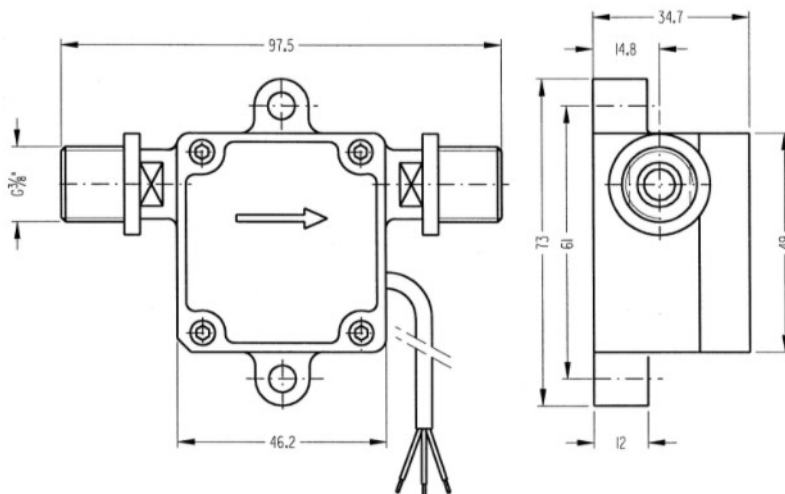
Models:

- plastic housing POM
- plastic housing ECTFE

Technical Data:

Measuring range:	20...1000 l/h
Accuracy:	+/- 2,5 % of average value
Repeatability:	+/- 1 %
Serial dispersion:	Max. +/- 2 %
Max. process pressure:	10 bar
Max. process temp.:	-10...60 °C (output 4...20 mA or control unit) -10...80 °C (output Push-Pull) (higher on request)
Bearing:	pivot bearing
Power supply:	4,5...24 VDC (Push-Pull) 8...24 VDC (4...20 mA output)
Process connection:	G 3/8 male thread
Paddle wheel:	6 paddles (1 or 3 pulses/turn)
Materials:	
housing:	POM or ECTFE
bearing:	POM, ECTFE, ruby or Al ₂ O ₃
pivot:	stainless steel, sapphire or Al ₂ O ₃
gaskets:	FKM, EPDM, FFKM (Kalrez)
Output signal:	
Push-Pull pulse output:	146 pulses/l at 1 pulses/turn or 438 pulses/l at 3 pulses/turn
analogue output:	4...20 mA (2-wire)
Electrical connection:	PVC cable, free cable ends M12 plug an PVC cable cubic plug acc. to EN 175301-803A
Mounting position:	any, horizontal in direction of arrow, best ventilation
Protection class:	IP65

Dimensions:



Order Code:

Order number: DR56. P. 1. A. 1. A. F. P. 1. 0

Plastic turbine flowmeter

Housing material:

P = plastic POM
E = plastic ECTFE

Measuring ranges:

1: 20...1000 l/h

Process connection:

A = G 3/8 male thread

Pulses / number of magnets:

1 = 1 pulses/turn, 146 pulses/l (1 magnet)
3 = 3 pulses/turn, 438 pulses/l (3 magnets)
(increase of pulse frequency on request)

Material bearing / pivot*:

A = housing material (POM or EPDM) / stainless steel
B = ruby / stainless steel
C = ruby / sapphire (can be used only up to 500 l/h)
D = Al₂O₃ / Al₂O₃ (can only be used from 80 l/h)

Gaskets:

F = FKM
E = EPDM
K = FFKM (Kalrez)

Output signal:

P = Push-Pull pulse output
A = 4...20 mA (2-wire)
9 = without (only in combination with control unit AZ50)

Electrical connection:

1 = 1 m PVC cable (3-wire)
2 = 1,9 m PVC cable (3-wire)
3 = 3 m PVC cable (3-wire)
4 = M12 plug an PVC cable 1,9 m
5 = cubic plug acc. to EN 175301-803A
6 = prepared for control unit AZ50

Options:

0 = without
9 = please specify in plain text

***For optimum selection of materials, please specify medium, measuring range, operating pressure and temperature.**

Accessory:

AZ50 control unit with comfortable display, analogue output switching points, etc.

