



Features

/ Easy to assemble

/ Cost-effective

/ Reliable

/ Excellent strength

/ For fluids and air

DP-20/30

Vane operated Flowswitch

Description:

The DP-20 model is unique due to its simple but reliable design. An external magnet actuates a switch that is fully protected within a leak-proof housing. The body and the vane are manufactured of chemically resistant polyphenylene sulphide. The vane which can be shortened has well-sculpted divisions for pipes of DN 25 to DN 150.

The DP-30 model is smaller and more compact than the DP-20 and it is available in brass or stainless steel versions on account of which the switch can be deployed for pressure levels up to 138 bar. A unique switch setting enables a quick change-over of the contact function. By releasing two screws and subsequently shifting the shedded reed contact either of the NC-contact or the NO-contact functions can be selected. The vane has a shortening pattern that indicates at which point it must be separated for the 6 pipe nominal diameters of 1/2" to 2".

The DP-20 as well as the DP-30 indicate the correct flow direction of the medium over an indexing arrow on the body side.

Application:

Vane switches offer a simple and cost-effective method of monitoring the flow of a medium. The vane moved by dynamic pressure switches an electrical contact magnetically when the flow exceeds or falls a certain value. This type of monitoring flow is successfully used in the entire industry wherever the media being monitored do not indicate any significant levels of pollution or too high speeds of flow.



DP-20 Vane Operated Flowswitch made from Plastic

Technical Specifications:

Contact /

Standard max. 5 A at 250 VAC resistive

Electrical Specifications:

max. 3 A at 30 VDC inductive

Gold: max. 1 A at 125 VAC resistive

max. 0.5 A at 30 VDC conductive

Function / single-pole change-over contact,

optionally gold-plated

Connection / three 18-AWG wires, 460 mm long

Wetted materials /

Vane and body: PPS

Pin and spring: 316 SS or Inconel®

Magnet: Ceramic 8

max. Pressure / 10 bar +100°C max. Media-temp. /

Process connection / 1" NPT-male

130 g Installation / with arrow in direction of flow

Mounting position / Actuation/deactuation flow rates are

> based on horizontal pipe position and are nominal values. The device can not be used vertically.

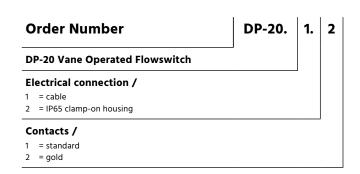
Flow range:

Weight /

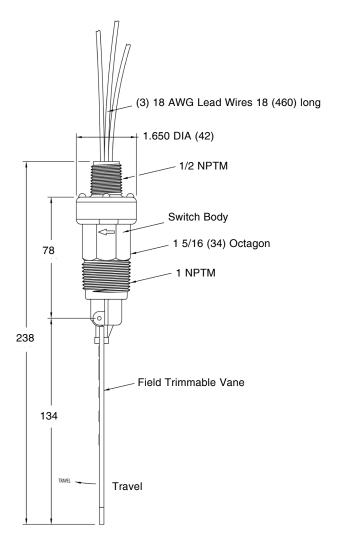
Pipe size	Flow range for cold water in I/min on-off	Flow range for air in I/min on-off
1"	40.9-34.6	1105-923
1 1⁄4"	37.2-31.4	1062-912
1 1/2"	32.4-25.7	945-757
2"	41.2-33.4	1218-1042
3"	48.8-33.5	1493-1100
4"	79.7-52.2	2482-1802
6"	170.2-124.7	4775-3890

values measured on horizontal pipe

Ordering Codes:



Dimensions in mm:







DP-30 Vane Operated Flowswitch made from Metal

Technical Specifications:

Wetted materials /

Vane: 301 SS

Body: Brass or 303 SS
Pin and magnet: Keramik 8

max. Pressure / Brass: 69 bar,

Stainless steel: 138 bar

max. Media-temp. / +93°C
Weight / 160 g

Process connection / ½" male NPT or ½" male BSPT

Installation / with arrow in direction of flow

Mounting position / any, values values based on horizontal

pipe position, in the same way as for

the DP-20

Electrical Specifications:

Contact / max. 0.5 A/ 120 VAC

or 1.5A/ 24VDC

Function / NC-contact or NO-contact,

hermetically sealed in PP

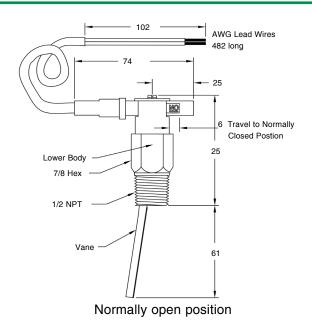
Electrical connection / Two 18-AWG wires, 483 mm long

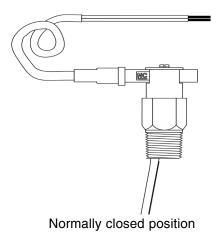
Protection class / IP66

Flow range:

Pipe size	Flow range for cold water in I/min on-off, nor- mally open	Flow range for cold water in I/ min on-off, normally closed	Flow range for air in I/min on-off, normally open	Flow range for air in I/min on-off, normally closed
1/2"	9.8 - 8.7	9.8 - 9.5	291.7-250	288-260
3/4"	11.7 - 10.2	11.7 - 10.6	368.3-328	365-328
1"	18.2 - 17	18.2 - 16.7	543.3-498	535-498
1 1⁄4"	23.5 - 21.2	23.1 - 21.2	701.7-628	693-637
1 1/2"	31 - 29.1	31 - 29.1	946.7-883	935-867
2"	36 - 34.4	36 - 34.1	1422-1370	1422-1352

Dimensions in mm:





Ordering Codes:

Order Number	DP-30.	1.	2
DP-30 Vane Operated Flowswitch			
Material /		_	
1 = brass			
2 = stainless steel			
Process connection /			•
1 = 1/2 male NPT			
2 = 1/2 male BSPT			



/ Flow / Vane Operated Flowswitches

Flow-Measurement and -monitoring

