

DP03

Plastic Paddle-Type Flow Switch with Cable

- for liquids
- plastic version no corrosion, low-cost
- no spring – always same restoring force
- simple switching point adjustment by means of adjusting screw
- with or without T-piece, for pipe sizes 3/8" to 6"
- low pressure loss
- P_{max} : 10 bar, T_{max} : 100 °C
- switching ranges: 1,5...4 bis 250...600 l/min



Description:

The flow switch DP03 works according to the paddle principle. The flowing medium hits the baffle plate attached to the end of pendulum. The pendulum is deflected by the corresponding dynamic pressure.

On the opposite side a magnet is attached. A second out-board magnet repels the paddle magnet creating a restoring force. This force is adjustable by changing the distance of the magnets by means of a screw, so that the switching point of the device can be adjusted easily and accurately. By means of the magnet, which is located on the pendulum, an external reed switch is operated without contact.

Typical applications:

The flow switch DP03 provides a very cost effective yet flexible way to monitor flows.

In the standard version, the device is completely made of plastic. Special variants allow the combination with metal materials and thus expand the range of applications.

Models / Technical Data:

	Screw-in/ T-piece	Housing / Pendulum	Tmax, Pmax (Medium)
DP03.E.	POM G 1/2 AG	Noryl GFN3	100 °C, PN 10
DP03.K.	PVC gluing sleeve	Noryl GFN3	60 °C, PN 6*
DP03.M.	brass/female	Noryl GFN3	100 °C, PN 10

* 2,5 bar at 60 °C

Electrical Data:

Reed contact: N/O
Contact rating: 180 V, 0,5 A, 10 W
Connection cable: 1,5 m length PVC

Adjustment range:

Nominal size	Adjustment range [l/min]	Possible model		
		DP03.E.	DP03.K.	DP03.M.
DN 10	1,5-4			x
DN 15	2-5		x	x
DN 20	4-10		x	x
DN 25	6-15		x	x
DN 32	10-25	x	x	x
DN 40	15-38	x	x	x
DN 50	20-50	x		x
DN 65	34-85	x		
DN 80	50-125	x		
DN 100	80-200	x		
DN 125	150-400	x		
DN 150	250-600	x		

Dimensions:

Nominal size	Connection	A [mm]	B [mm]	C [mm]
DP03.K.				
DN 10	3/8"	-	-	-
DN 15	1/2"	54	103	119
DN 20	3/4"	66	109	126
DN 25	1"	79	113	133
DN 32	1 1/4"	96	117	142
DN 40	1 1/2"	116	122	153
DN 50	2"	-	-	-
DP03.M.				
DN 10	R 3/8 female	50	94	109
DN 15	R 1/2 female	50	94	109
DN 20	R 3/4 female	50	94	109
DN 25	R 1 female	50	98	116
DN 32	R 1 1/4 female	50	103	126
DN 40	R 1 1/2 female	50	108	135
DN 50	R 2 female	50	133	169

Order Code:

Order number: DP03. E. 00. 0

Paddle type flow switch with cable

Models:

E = screw G 1/2 male, POM
 K = gluing sleeve, PVC
 M = female thread (R-thread), brass

Nominal size:

DP03.E:

00 = screw-in thread G 1/2 suitable for all nominal sizes from DN 32

DP03. K + M:

10 = 3/8" (only DP03.M)
 15 = 1/2"
 20 = 3/4"
 25 = 1"
 32 = 1 1/4"
 40 = 1 1/2"
 50 = 2" (only DP03.M)

Options:

0 = without
 9 = please specify in plain text

Dimensions:

