



Description

A magnetic paddle wheel switch that has been specially designed for monitoring the minimum and maximum values of flow. The switch point can be set by turning a spring screw, which is done by moving a magnet/reed contact. The connection to the process pipe is screwed BSP and ranges in size from 1/2" - 2". Uni Directional this unit should be mounted with the flow in the direction of the arrow.

How it Works

The device indicates the presence of flow in the pipe by switching the reed switch contact contained in the electronic module. The switching point is set with a screw, which when turned to minimum it equates to falling flow and turned to maximum it switches on rising flow. The electronic module is available in two versions:

A. Normally Open – the flow switches on the contact

B. Normally Closed – the flow switches off the contact

Stainless Steel Paddle Flow Switch/Sensor

- On / Off Control for Switching
- Mechanical Adjustment of Set Point
- Non Contact of fluid to Electronics
- Stainless Steel 316L – 1.4404
- Easy Quarter Turn Module Connection



Description

This inline flow sensor/switch is specially designed for monitoring the minimum/maximum values of flow. Used on liquids resembling water and free from bubbles and iron (magnetic) particles. Easy to install and can be combined with various valves and alarms. Offered in various materials and end connections this unit offers inexpensive solutions to simple flow systems.



Beschreibung

Dieser Inline-Durchflusssensor / -schalter ist speziell für die Überwachung der minimalen / maximalen Durchflusswerte ausgelegt. Verwendet auf Flüssigkeiten, die Wasser ähneln und frei von Blasen und Eisen (magnetischen) Partikeln sind. Einfach zu installieren und kann mit verschiedenen Ventilen und Alarmen kombiniert werden. In verschiedenen Materialien und Endverbindungen angeboten, bietet dieses Gerät kostengünstige Lösungen für einfache Durchflusssysteme.



Descripción

Este sensor / interruptor de flujo en línea está especialmente diseñado para monitorear los valores mínimo / máximo de flujo. Se utiliza en líquidos que se asemejan al agua y están libres de burbujas y partículas de hierro (magnéticas). Fácil de instalar y se puede combinar con varias válvulas y alarmas. Ofrecido en diversos materiales y conexiones finales, esta unidad ofrece soluciones económicas para sistemas de flujo simple.

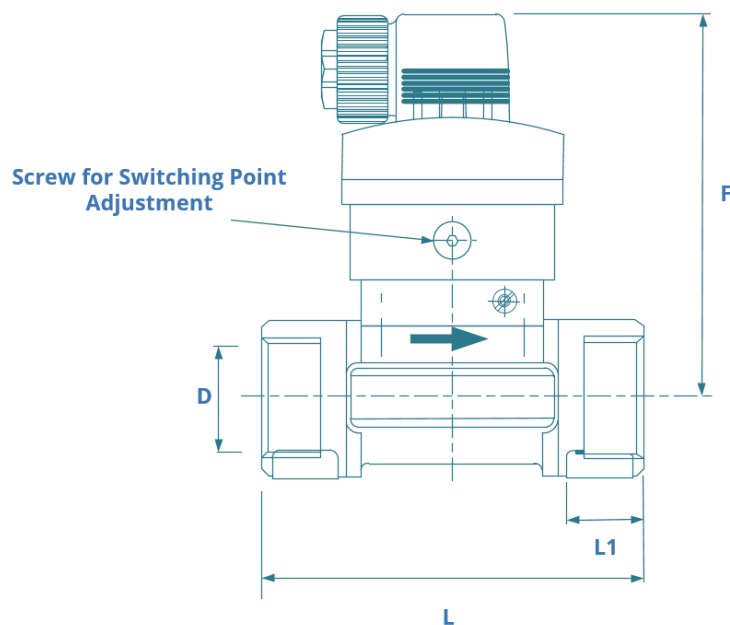


La description

Le capteur / interrupteur de débit en ligne est spécialement conçu pour surveiller les valeurs minimales / maximales du débit. Utilisé sur des liquides ressemblant à de l'eau et exempts de bulles et de particules de fer (magnétiques). Facile à installer et peut être combiné avec diverses vannes et alarmes. Proposé dans divers matériaux et raccordements terminaux, cet appareil offre des solutions peu coûteuses à des systèmes d'écoulement simples.

DIMENSIONS

ORIFICE	Internal Screwed BSP			
	L	F	D	L1
15	85	100	1/2"	16
20	95	97	3/4"	17
25	105	97	1"	23.5
32	120	101	1 1/4"	23.5
40	130	105	1 1/2"	23.5
50	150	111	2"	27.5



General Data

Compatibility	with sensor fittings S010 inline
Sensor Element	Blade with magnet, Reed contact
Fitting Process Connection	
metal	internal thread
plastic	true union,
Materials	
Housing , cover	PC +20% glass fibre reinforced
plug	PA
Fitting Process Connection	Brass, Stainless steel 316, PVC (PVDF & PP on request)
Blade	PVDF
Electrical connection	Cable plug EN175391-803

Complete data for device (sensor and fitting)

pipe diameter	DN15 - DN50
switching range	5.4 l/min see selection table
flow velocity max	10m/s
Medium temperature	
PVC	0 - +5-°C
Brass, Stainless steel	0 - +55°C
Medium Pressure	PN10 Plastic, Metal PN16
Viscosity	100cSt max

Electrical Data

Operating voltage	Without
Outputs	
Reed Contact	Potential free, forme A, switch off switch on
Switching Voltage	150V DV/ 250 VAC
Switching Current	0.8 A max.
Switching Power	50 W max, 50 VA
Carrying Current	2.5 A
Enviroment	
Ambient temperature	0...+55C°
Relative humidity	≤80%, without condensation
Standards	
Protection class	IP65
Standard and directive	CE marked, EN50081

Measuring Range

Paddle Range 1	DN15	0.65 up to 0.90 m/s
	DN20	0.35 UP TO 0.55 m/s
	DN25	0.40 UP TO 0.60 m/s
	DN32	0.65 UP TO 0.90 m/s
	DN40	0.75 UP TO 1.0 m/s
Paddle Range 2	DN32	0.20 UP TO 0.30 m/s
	DN40	0.25 UP TO 0.45 m/s
	DN50	0.50 UP TO 0.60 m/s

The S010 Inline sensor fitting is made up of a blade with a magnet. The SE10 module contains a rocker arm with a magnet on each end. When liquid flows through the pipe, the blade rotates and, by magnetic adherence, actuates the rocker arm.



Switching threshold and sensor fitting DN selection chart

Range	Sensor Fitting	Fluid velocity (water) m/s			Flow Rate			
		min	max	Variation way	Min (l/min)	Min (l/min)	Min (m³/h)	Min (m³/h)
1	15	0.65	0.9	Increasing	6.9	9.5	0.41	0.57
	15	0.6	0.8	Decreasing	6.4	8.5	0.38	0.51
	20	0.35	0.55	Increasing	6.6	10.4	0.4	0.62
	20	0.25	0.45	Decreasing	4.7	8.5	0.28	0.51
	25	0.4	0.6	Increasing	11.8	17.7	0.71	1.06
	25	0.3	0.5	Decreasing	8.8	14.7	0.53	0.88
	32	0.65	0.9	Increasing	31.4	43.4	1.88	2.61
	32	0.55	0.7	Decreasing	26.5	33.8	1.59	2.03
	40	0.75	1	Increasing	56.5	75.4	3.39	4.52
	40	0.6	0.9	Decreasing	45.2	67.9	2.71	4.07
2	32	0.18	0.28	Increasing	8.5	13.5	0.51	0.81
	32	0.15	0.22	Decreasing	7	10.5	0.42	0.63
	40	0.25	0.45	Increasing	18.8	33.9	1.13	2.04
	40	0.2	0.35	Decreasing	15.1	26.4	0.9	1.58
	50	0.49	0.59	Increasing	58	70	3.48	4.2
	50	0.36	0.51	Decreasing	42	60	2.52	3.6

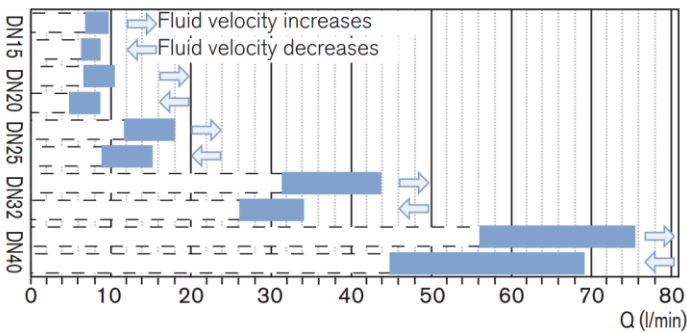
The type of blade (Range 1 or 2) and the sensor fitting DN define the flow range on which the switching thresholds can be adjusted.

The table below shows the switching end values depending on the selected model of type 8010.

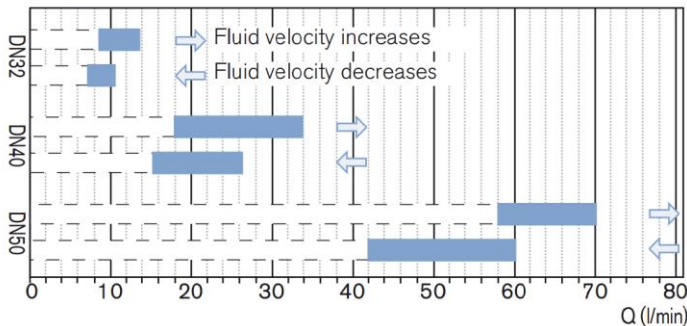
Attention!

The sensor fitting with nominal diameters of 32 and 40 mm are designed for two different switching range (1 and 2) in relation with flow velocity and equivalent flow values. For all other sizes, there is only one switching range (1 or 2).

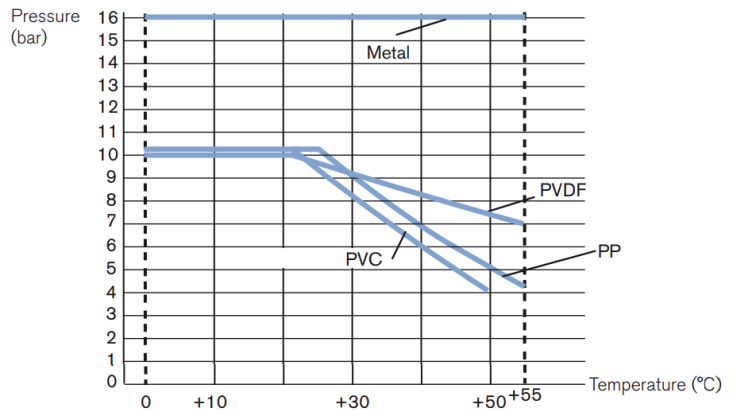
Range 1



Range 2



Pressure / Temperature Chart



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