

PSDK



■ DESCRIPTION

The series PSDK are flowmeters for liquids and gases. They are very compact and low cost instruments. They have local flow rate indication with scales calibrated in l/h, l/min, %, etc.

They can fit switches that allow to detect a specific flow rate and provide an alarm signal to a remote device. They can also fit too a resistive sensor with a 4-20 mA transmitter proportional to flow rate.

PSDK DATASHEET V.2 R.1



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WORKING PRINCIPLE

Based on variable area principle.

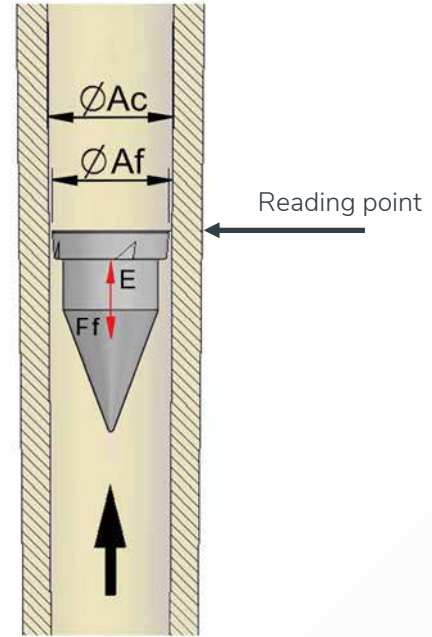
The flowmeter consists of a technical plastic tapered tube and a float inside it. The force of the flow pushes the float to an equilibrium point. The area obtained between the float and the tube is proportional to the flow rate.

The equilibrium point depends on:

- E = Force of the fluid flow
- Ff = Weight of the float
- A1 = Free area of flow

where:

$$(A1 = A_c, \text{ tube area} - A_f, \text{ float area})$$



MODELS

- PSDK-D BSP thread or socket ends for solvent welding 1/2" ... 3" / DN15 ... DN80
- PSDK-F ISO 1452-3 or ASME B16.5 (mod. BR) flange. DN15 ... DN80 / 1/2" ... 3"
- PSDK-S BSP thread or socket ends for solvent welding 1/2" ... 3/4" / DN15 ... DN20

TECHNICAL SPECIFICATIONS

Temperature	: 0...60 °C
Pressure	: 6 Bar Max (*Please refer Table:1)
Material	:
Tube	: AS
Connections	: PVC
Float	: ABS
Seals	: EPDM
Accuracy	: ± 4 % F.S
Repeatability	: < 1 %

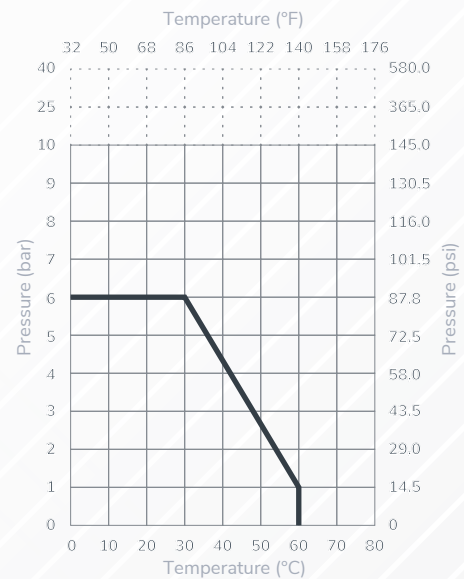


Table: 1



DIMENSIONS

Type	Size	Range	Dimensions (mm)			
			L	D1	D2	D3
PSDK-15	15	10-100 l/h	280	20	26	45
		16-160 l/h				
		25-250 l/h				
		40-400 l/h				
		60-600 l/h				
PSDK-20	20	100-1000 l/h	380	32	39	68
PSDK-25	25	100-1000 l/h	380	32	39	68
		160-1600 l/h				
		250-2500 l/h				
PSDK-32	32					
PSDK-40	40	0.4-4m ³ /h	430	50	63	88
		0.6-7m ³ /h				
		1-10m ³ /h				
PSDK-50	50	0.4-4m ³ /h	430	63	73	98
		0.6-7m ³ /h				
		1-10m ³ /h				
		1.6-16m ³ /h				

