

PSDK

Variable Area Flowmeter

LIQUID



GAS



OVERVIEW

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.



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:

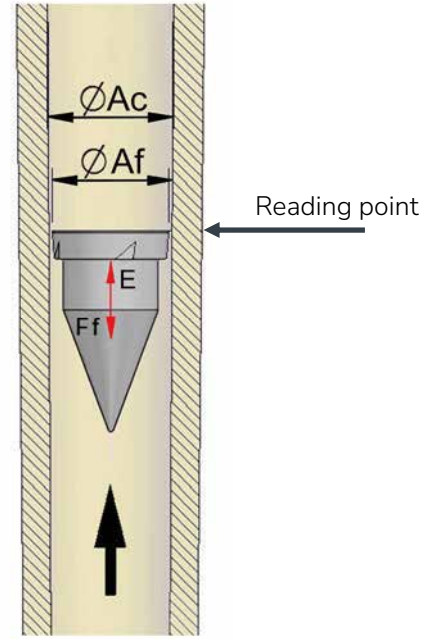
E = Force of the fluid flow

F_f = Weight of the float

A_l = Free area of flow

where:

($A_l = A_c$, tube area - A_f , 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 %

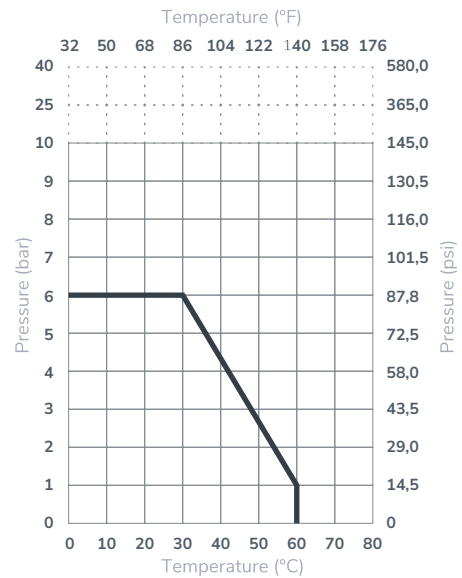


Table: 1



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 160-1600 l/h 250-2500 l/h	380	32	39	68
PSDK-32	32					
PSDK-40	40	0.4-4m ³ /h 0.6-7m ³ /h 1-10m ³ /h	430	50	63	88
PSDK-50	50	0.4-4m ³ /h 0.6-7m ³ /h 1-10m ³ /h 1.6-16m ³ /h	430	63	73	98

