

Single diaphragm differential pressure gauge

Model D101

Max. static pressure 25 bar

Nominal size: 100 mm (4"), 115 mm (4.5"), 150 mm (6")

ASME B40.100 / EN 837-1 / IS-3624

Accuracy: Class 2.5 (2.5%), optional 1.6 (1.6%)

Features

- Stainless steel case and wetted parts
- Static pressure 25 bar
- Protection IP66/68
- Dry or liquid filled

Ranges

0 ... 25 in H₂O up to 0 ... 35 psi
 0 ... 600 mmWC up to 0 ... 2.5 bar & kg/cm²
 0 ... 6 kPa up to 0 ... 250 kPa



Applications

Chemical and petrochemical industry
 Machine and apparatus construction
 Food and beverage industry
 Pulp and paper industry



Technical specification		D101		
Dial size [mm]		100	115	150
Construction		Cylindrical case with bayonet ring.		
Measuring principle		Diaphragm, safety design, solid front not required		
Range	[mmWC] [kg/cm ² (or bar)]	600 1000 1600 2500 4000 5000 0,6 1 1.6 2.5		
Max. static pressure [bar]		25 bar; bidirectional only		
Overload capability		130 % F.S., short time		
Pressure type		Differential		
Process connection		1/4" 1/2" NPT (F), 1/4" 3/8" 1/2" BSP / NPT (M), M20x1.5(M), others on request		
Connection location		Lower		
Material				
Pressure connection		Stainless steel 316L		
Pressure chamber		Stainless steel 316L, Viton-ring		
Measuring membrane		Stainless steel 316L		
Case/bayonet ring		Stainless steel 304, optional 316L		
Window		Laminated safety glass optional acrylic glass		
Dial		Aluminum, black markings on white background		
Pointer		Aluminum, black, optional Micrometer Adjustment		
Movement		Stainless steel 304		
Accuracy calibrated ascending		Class 2.5 (2.5 % FS.) Optional 1.6% FS		
Permissible				
Ambient temperature		-40 ... 60 °C (-40 ... 140 °F)		
Medium temperature		Max. 100 °C (212 °F)		
Storage temperature		-40 ... 65 °C (-40 ... 150 °F)		
Effect		Max. 0,3 % / 10 K		
Protection		IP66/68		
Filling liquids		Glycerin, silicone, others on request		
Mounting		Wall mounting, optional 2" pipe mounting, others on request		
Weight dry / filled [kg]		8.1 / 8.4	8.2 / 8.6	8.4 / 9.0
Accessories, options		3 or 5 way remote or direct mounted manifolds		



Size	Type	System material	Execution	Process Connection	Connection orientation	Range	Engineering units	Filling/Case material	Options	
(100) 100 mm	D101	(S) Diaphragm and Pressure chamber 316L	(L) IP66/68	(02T) 1/4" NPT (F)	(L) Lower	0/ 600	mmWC	(=) Standard no filling	(NH) SS wired tag	
(115) 115mm				(04T) 1/2" NPT (F)		0/ 1000 0/ 1600 0/ 2500 0/ 4000 0/ 5000		(GV) Silicone	(SD) Special Dial	
(150) 150mm				(04) 1/2" NPT (M)		(GR) Glycerin		(CS) Dual Scale		
				(03) 3/8" NPT (M)		0/ 0,6 0/ 1 0/ 1,6 0/ 2,5	(GX) Halocarbon	(OF) Oil free		
				(02) 1/4" NPT (M)		kg/cm2 (or bar)	(YW) SS316L Case	(MP) Micrometer pointer		
				(15) 1/2" BSP (M)			Equivalent ranges in kPa, MPa, psi, bar and others units available	(PD) Acrylic glass		
				(14) 3/8" BSP (M)					compound ranges on request	
				(13) 1/4" BSP (M)						(TM) 2" pipe mounting
				(16) M20x1.5(M)						
		(AT) ATEX listed ²⁾								
			Standard (02T) others through adaptor							
				Certificate						
					(CD5) NACE Certificate					

How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/Case material	Options	Certificate
100	D101	S	L	02T	L	0/1	BAR	=	NH	CD5

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