

Diaphragm type differential pressure gauge

Model D104

Max. Static pressure 100 bar

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

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

Accuracy: Class 1,6 (1.6%) optional Class 1 (1%)

Features

- Stainless steel case and wetted parts
- Max static pressure 100 kg/cm²
- High corrosive resistance
- Dry or liquid filled
- IP66 / 68

Ranges

0 ... 40 in H₂O up to 0 ... 350 psi
 0 ... 1000 mmWC up to 0 ... 25 bar & kg/cm²
 0 ... 10 kPa up to 0 ... 2500 kPa

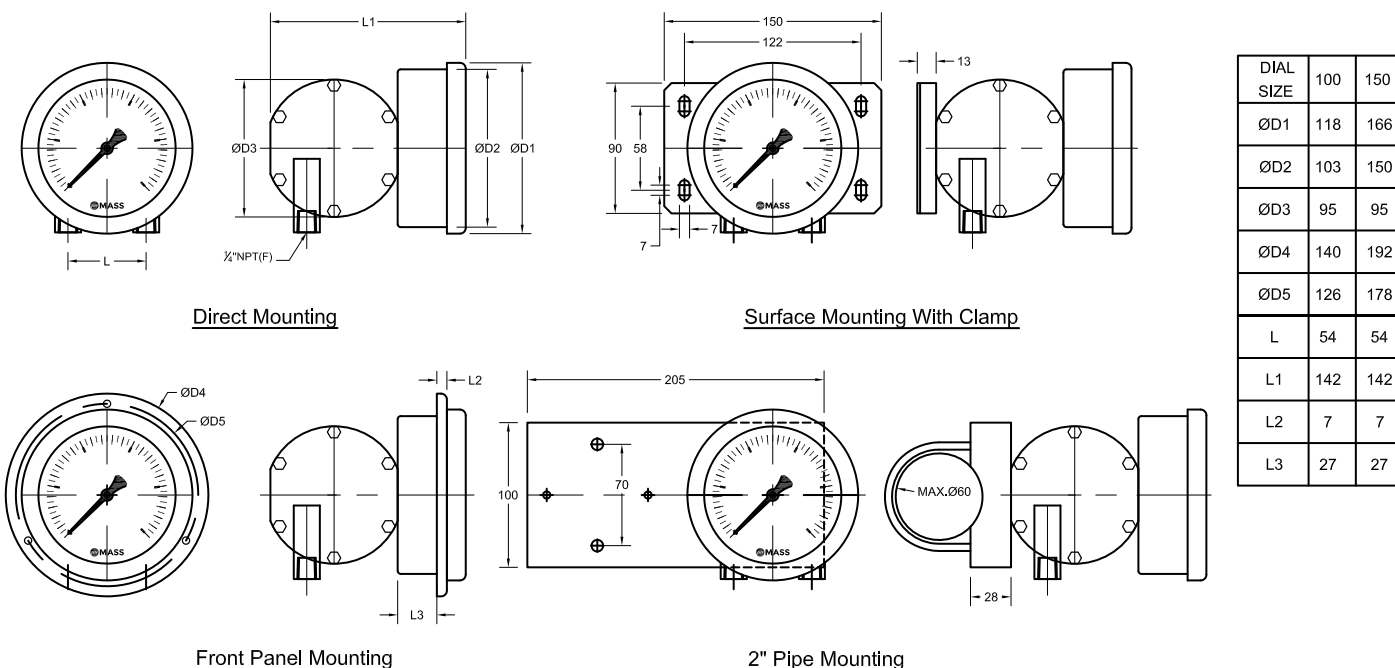
Applications

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



Technical specification	D104	
Dial size in mm	100	150
Construction	Cylindrical case	
Measuring principle	Single diaphragms	
Static Pressure	100 bar both side	
Pressure range	1000 1600 2500 4000 mmWC	
Max static pressure	0,6 1 1.6 2.5 4 6 10 16 25 kg/cm ² (or bar)	
Overload capability	100 bar	
Pressure type	200% of full scale	
Process connection	Differential	
Connection location	1/4" NPT (F), 1/4" NPT (M), 1/2" NPT (M), 1/4" BSP (M), 1/2" BSP (M), others on request	
Material	Lower	
Pressure element	Stainless steel 316L for ranges ≤2.5 bar	
Measuring diaphragm	Duratherm for ranges > 2.5 bar	
Case/bayonet ring	Stainless steel 316L	
Window	Stainless steel 304, optional 316L	
Dial	Laminated safety glass	
Pointer	Aluminum, black markings on white background	
Accuracy	Micro Pointer Aluminum, black	
Permissible	Class 1,6 (1,6 % F.S.), optional Class 1 (1 % F.S.)	
Zero shift	±2% at maximum static pressure	
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. 0,6 % / 10 K	
Protection according EN 60 529/IEC 529	IP66 / 68	
Filling liquids	Glycerin, silicone, others on request	
Mounting	Direct, optional 2" pipe mounting	
Weight dry/filled in kg	2.2 dry / 2.5 filled	2.4 dry / 3.1 filled
Accessories, options	3 or 5 way remote or direct mounted manifolds, valves, NACE	

General dimensions in mm



Order information

Size	System material	Execution	Process connection	Connection orientation	Range	Engineering units	Filling/Case material	Options
(100) 100 mm	(S) Pressure chamber 316L & Diaphragm ≤2.5 bar 316L > 2.5 bar Duratherm	(L) IP66/68	(02) 1/4" NPT (M)	(L) Lower	0/1000 ²⁾	mmWC	(=) Standard no filling	(NH) SS wired tag
(150) 150 mm			(04) 1/2" NPT (M)		0/1600 ²⁾		(GV) Silicone	(CS) Dual scale
			(13) 1/4" BSP (M)		0/2500		(GR) Glycerin	(DA) Dial marking
			(15) 1/2" BSP (M)		0/4000		(YW) SS316L Case	(AN) Calibration 1% ¹⁾
			(02T) 1/4" NPT (F)		0/ 0,6	kg/cm2 (or bar)		(FX) Front panel
					0/ 1			(FW) Surface plate
					0/ 1,6			(TM) 2" pipe mounting bracket
					0/ 2,5			
					0/ 4			
					0/ 6			
					0/ 10			
					0/ 16			
					0/ 25			
					Equivalent ranges in kPa, MPa, psi, bar and others units available			
					compound ranges on request			
								Certificate
								(CD3) 3.1 Material Certi.

1) Accuracy 1% is excluding Hysteresis 2) Dial arc shall be 180°

Order example

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/Case material	Options	Certificate
100	D104	S	L	02T	L	0/1	BAR	=	NH	CD3

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