MFT
Differential cell pressure gauges

Main features

- **Low differential pressure**
- **High static pressure**
- **Stainless steel, Monel, Hastelloy**
- **Ø 100 mm, Ø 150mm**

Applications

■ **Process Engineering**	□ Health care
■ **Hydraulics**	□ Biotechnology
■ **Pneumatics**	□ Food
□ Refrigeration	□ Beverage
■ **Water treatment**	□ Pharmaceutical
□ Car industry	■ **Petro-chemical**
□ Test benches	■ **Chemical**
□ Safety	■ **HVAC**
□ Aerospace	■ **Energy**
□ Railways	□ Medical gas
□ Shipbuilding	□ Agricultural vehicles
□ Heavy vehicles	□ Pumps and compressors

Main characteristics (20 °C)

Measurement range	25 mbar ... 25 bar
Static pressure	up to 400 bar
Accuracy	± 1% of FS

Ordering details - MFT

	MFT	x	x	x	x	x	xx	x	x	x	x	x	x
Dial size													
Ø 100 mm	5												
Ø 150 mm	7												
Type of mounting													
Wall mounting, stainless steel 304		A											
Panel mounting, stainless steel 304		B											
Mounting on "2" tube, stainless steel 304		P											
Wall mounting, stainless steel 316		1											
Panel mounting, stainless steel 316		2											
Mounting on "2" tube, stainless steel 316		8											
Type of case													
Case without partition of safety			0										
Case with partition of safety			1										
Type of liquid filling													
Dry				0									
BH3				3									
Measurement unit													
mbar					N								
bar					B								
kPa					D								
kg/cm2					F								
Psi					H								
Measuring range													
See table page 3							xx						
Static pressure													
25 bar								K					
100 bar								N					
250 bar								Q					
400 bar								R					
Process connection													
G1/2 male									3				
1/2 NPT male									6				
1/4 NPT female									8				
1/2 NPT femelle									N				
Wetted part material													
Stainless steel 316 L										2			
Monel 400										9			
Hastelloy C276										6			
Atex													
Without											0		
Atex CE II2 GD											1		
Use with oxygen													
Without												0	
For use oxygen (only dry version)												1	
NACE compliance													
Without													0
NACE compliance													1

Characteristics (20 °C)

Technical specification

Technical specification	See codes in table.
Static pressure	See codes in table.
Accuracy	Cl. 1 (measuring range 100 mbar to 25 bar). Cl. 1.6 (measuring de 25, 40 and 60 mbar). Cl. 1.6 with damping fluid.
Case - bezel ring	Sealed bayonet locking. Optional safety pattern baffle wall
Differential cell	Silicone transmission fluid filling . Nitrile cell sealing joint
Process connections	G 1/2 male, 1/2 NPT male, 1/4 NPT female, 1/2 NPT female.

Environment

Operating temperature	-20 °C ... +60 °C
Temperature of fluid	120 °C max
Thermal drift	±0.6% of FS for a variation of 10 °C when compared to the reference temperature (20 °C)
Protection rate	IP 65 as per NF EN 60529

Material

Differential cell	Parts in contact with the fluid stainless steel 1.4404 or monel 400 or Hastelloy C276.
Case - bezel ring	In stainless steel 1.4301 (AISI 304).
Window	Laminated glass.
Window gasket	Elastomer.
Movement	Stainless steel.
Dial	Aluminium alloy.
Pointer	Aluminium alloy.
Safety blow out disc	Elastomer.
Screw and bolt	In stainless steel 1.4301 (AISI 304) for static pressure up to 250 bar. In galvanized steel for static pressure of 400 bar.

Others

Version ATEX CE II 2 GD with safety laminated glass window **(code 0078)**.
Oxygen cleanliness **(code 0765).**
NACE compliance **(code 0073)**.

Measuring Ranges - Static pressure

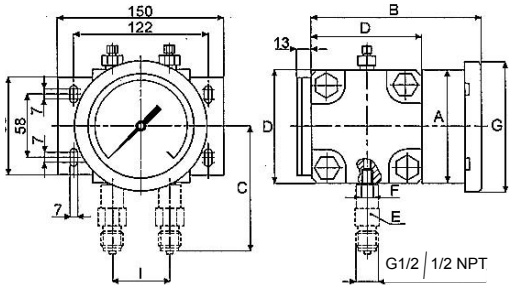
			Material - Diameter							
	Pressure		Stainless steel 1.4404				Monel 400 / Hastelloy C276			
Code	mbar	psi	100 and 150	100 and 150	100 and 150	100 and 150	100 and 150	100 and 150	100 and 150	100 and 150
05	0...25		x(1)	x(1)						
06	0...40		x	x						
07	0...60		x	x			x(1)	x(1)		
08	0...100	0...1.5	x	x			x	x		
09	0...160			x(1)	x(1)			☎		
10	0...250	0...4		x	x			☎		
11	0...400	0...6		x	x			☎		
12	0...600			x	x			x(1)	x(1)	
13		0...10		x	x			x(1)	x(1)	
Code	bar	psi	100 and 150	100 and 150	100 and 150	100 and 150	100 and 150	100 and 150	100 and 150	100 and 150
15	0...1	0...15		x	x	x		x	x	x
16	0...1.6	0...25		x	x	x		x	x	x
18	0...2.5			x	x	x		x	x	x
84		0...40		x	x	x		x	x	x
19	0...4	0...60		x	x	x		x	x	x
20	0...6			x	x	x		x	x	x
21		0...100		x	x	x		x	x	x
22	0...10	0...160		x	x	x		x	x	x
24	0...16	0...250		x	x	x		x	x	x
26	0...25	0...400		x	x	x		x	x	x
Static pressure		psi	360	1500	3000	6000	360	1500	3000	6000
		bar	25	100	250	400	25	100	250	400
Code			K	N	Q	R	K	N	Q	R

x(1) : graduation 180°

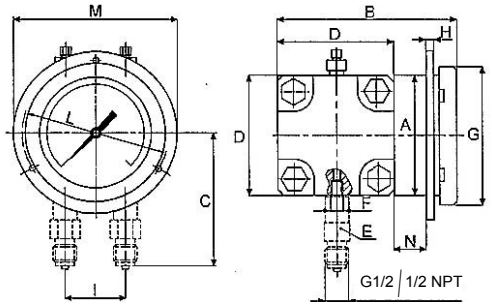
MFT - Differential cell pressure gauges

Dimmension (mm) - fitting

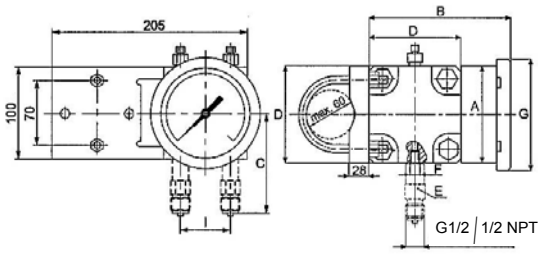
Wall mounting
Type A



Panel mounting
Type B



Pipe mounting
Type P



	DN	A	B	C	D	E	F	G	H	I	L	M	N	Ø of 3 holes on Ø120	Weight (kg) max.	
															dry	filled
Measuring range from 0...25 mbar to 0...100 mbar	100	103	200	137	150	22	1/4NPT	118	7	54	126	140	27	5	11.3	11.6
	150	150	200	137	150	22	1/4NPT	166	7	54	178	192	27	5	11.5	12.2
Measuring range from 0...160 mbar to 0...25 bar	100	103	150	112	100	22	1/4NPT	118	7	54	126	140	27	5	5.4	5.7
	150	150	150	112	100	22	1/4NPT	166	7	54	178	192	27	5	5.6	6.3