

Differential Pressure Gauges PN 100 with double diaphragm Type 02.16 - DS 100-150

02.16



These instruments are used to check filter obstructions, pressure drops, flow rate differences, level, measurements and generally the difference between two pressures of equal or different circuits. The measuring element is formed by two diaphragms, acting on the same movement. In this way the pointer senses only the difference between the two pressures corresponding respectively to upstream and downstream circuit pressure.

Functional and constructive characteristics

Accuracy: $\pm 2,5\%$ of the full scale value.

Scale amplitude: 180.

Static pressure: max 100 bar

Ambient temperature: $-25...+65$ °C.

Process fluid temperature: $+150$ °C.

Protection: IP 55 as per IEC 529.

Process connection: AISI 316L st.st.

Elastic element: AISI 316L st.st. double diaphragm.

Gasket: VITON and PTFE.

Case: AISI 304 st.st.

Ring: AISI 304 st. st. polished, bayonet lock.

Window: glass, 4 mm. thick.

Movement: stainless steel.

Dial: aluminium, white with black markings.

Pointer: aluminium, micrometric adjustable.

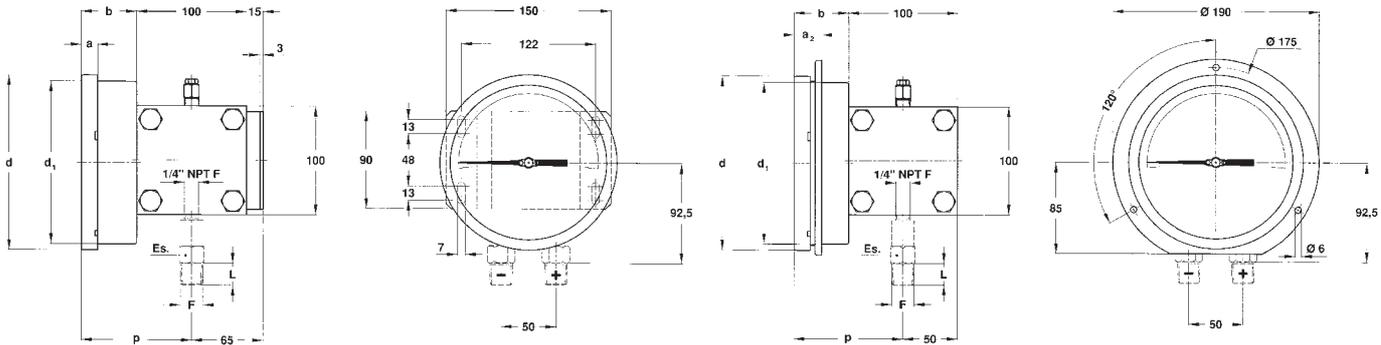
Window gasket and blow out vent: EPDM.

RANGES

RANGES	mbar	mmH2O	bar	kPa
0...0,6			◆	
0...1			◆	
0...1,6			◆	
0...2,5			◆	
0...4			◆	
0...6			◆	
0...10			◆	
0...40				◆
0...60				◆
0...100				◆
0...160				◆
0...250				◆
0...400	◆			◆
0...600	◆			◆
0...1000	◆			◆
0...1600	◆			
0...4000		◆		
0...6000		◆		
0...10000		◆		

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TYPES, DIMENSIONS AND WEIGHTS (mm)



TYPE C

surface mounting, back flange;
lower connections.

TYPE E

panel mounting, front flange;
lower connections.

DS	Type	F	a	b	d	d ₁	p	L	ch	Weight
100	C	1/2" BSP or NPT	13	48,5	110,5	101	98,5	20	22	4,86 Kg.
150	C	1/2" BSP or NPT	15	50,5	161	149,5	100,5	20	22	5,35 Kg.
150	E	1/2" BSP or NPT	25,5	50,5	161	149,5	100,5	20	22	5,15 Kg.

HOW TO ORDER

02	02- differential and low pressure gauges
16	16 - differential press. gauges, MD16
1	standard
C	C - lower connections - back flange E - lower connections - front flange (DS150 only)
E	E - DS100 G - DS150
0	standard
0...1 bar	see ranges table
23F	23F - 1/4" NPT F 41M - 1/2" BSP M 43M - 1/2" NPT M
C40	see Options tables

OPTIONS

Description	Code
Inductive and mechanical electric contacts (1)	---
AISI 316 st.st. case and ring	C40
NACE MR 01.75 version (2) (3)	E30
Protection IP65	E65
Maximum pointer IP65 (4)	L22
MONEL 400 diaphragms (2)	M23
Oxygen service (5)	P02
Special dial	Q01
Case glycerine filling (Ambient Temperature +15...+65).	R10
Silicone glycerine filling (Ambient Temperature -40...65) (6)	R11
2" pipe mounting bracket (7)	S31
Tropicalization	T01
Stainless steel label	T25
Plexiglas window	T31
Safety glass window	T32

- (1) codes, descriptions and wiring on data-sheet MN14
- (2) available only for ranges ³ 1 bar
- (3) to be ordered with MONEL 400 diaphragm (code M23)
- (4) to be ordered with Plexiglas window (code T31)
- (5) filling of internal chamber with Fluorolube
- (6) window gasket and blow out vent: VITON
- (7) mounting type "C" only



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