

APPLICATIONS

- Clean Room Application
- Filtration Application
- Water Application

FEATURES

- Compact Design
- Static Pressure 100 bar
- Switch -Reed switch
- Dry / liquid filled



PISTON DIFFERENTIAL PRESSURE GAUGE, TMC14-1

DESCRIPTION

General

Accuracy : ± 2 % of full scale -Ascending

Ambient temperature : -40...+65°C

[without dampening liquid]

-20...+65°C [with dampening liquid]

Service temperature : 200°C max.

Static pressure limits : 100bar, Option :200bar

Standard version

Dial size : DN63 / DN100 / DN150

Range : 0-0 . 25bar...0...25 bar

Mounting pattern : Bottom / Back / Inline Port

Process connection : $\frac{1}{4}$ " NPT (F) x 2 Nos.

Ingress protection : IP 65

Execution : Dry / Dry but fillable /Fillable

Filled versions

Glycerin

Accuracy : ± 4.0 % of full scale

Dampening liquid : Glycerin 99.7%

Electric Contact version

Accuracy : ± 4.0 % of full scale

Window : Plexi Glass

Switch : 1SPDT / 1 SPST

Dampening liquid : Dielectric oil [Optional]

Temperature effect

When temperature of the measuring system deviates from reference temperature (+20°C) :
max error ± 0.4 % / 10K of true scale value.

Material of construction

Sensing element : Ceramic Magnet

Case & Ring material : AISI 304 SS

Wetted Parts: AISI316SS, AISI 316L AL

Viton Diaphragm

Spring : AISI 302 SS

Chamber : AISI 316 SS

Fastener : AISI 304 SS

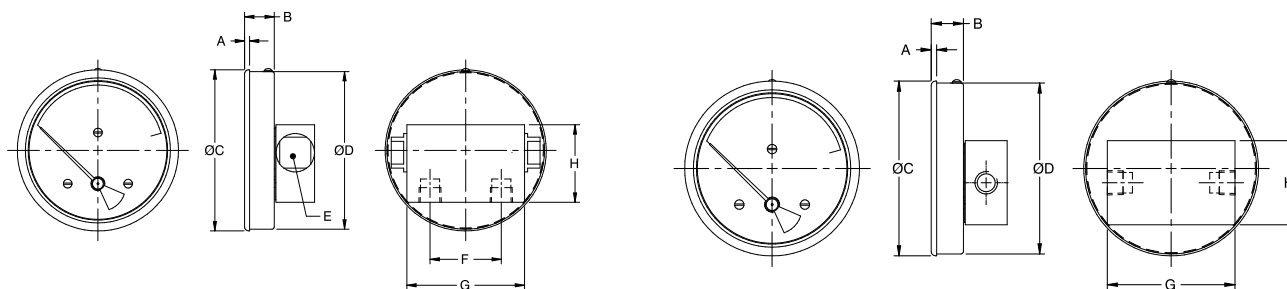
Dial : Aluminum, black graduation on white background

Pointer : Fixed Type, aluminum, black powder coated

Gaskets & filling plug : Neoprene

Window : Sheet Glass

DIMENSIONAL DRAWING



DN	A	B	ØC	ØD	E	F	G	H	Weight (grams)
63	3.2	19.5	66.5	62.5	20	46	76	50	430
100	3.2	19.5	104	101.5	20	46	76	50	430
150	3.2	19.5	155.5	151.5	20	46	76	50	430

DN	A	B	C	D	G	H	Weight (grams)
63	3.2	19.5	66.5	62.5	76	50	410
100	3.2	19.5	104	101.5	76	50	460
150	3.2	19.5	155.5	151.5	76	50	550

NOTES:

1. Drawing not to scale. All dimensions are in mm.

ORDERING CODES

MODEL

TMC14-1 Piston Differential Pressure

TMC14-1

Gauge DIAL SIZE

D2 2.5" / 63 mm

D4 4" / 100 mm

D6 6" / 150 mm

D4

MOUNTING

M1 Direct bottom

M14 - Direct Back

M11 Inline Type

M1

CONNECTION

P24 ¼" NPT (F)

P07 ½" BSP (M)

P08 ½" NPT (M)

P24

CASE FILLING

F1 Dry

F2 Dry but fillable

F3 Glycerin filled

F1

WETTED PARTS

S02 AISI 316 SS

S03 AISI 316L SS

S04 Al

S02

INGRESS PROTECTION

I1 IP 65

I1

RANGE

0-1 bar Please mention range required with the measurement unit
[TMC offer in all types of National & International measurement units, e.g. kg/cm², psi, kPa, etc. with single or dual scales]

0-1 bar

ELECTRIC CONTACT

N13 1 SPDT

N23 1 SPST

N24 2 SPDT

XXX

OTHER OPTIONS

E16 5 - point calibration certificate
E17 Material test certificate 3.1

E31 Custom designed dial
E21 Material test certificate 2.2

E32 Dial tag marking
E27 SS tag plate, AISI 304 SS

XXX

Ordering Example : TMC14-1.D4.M1.P24.F1.S02.I1/0-1 bar



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