

BOURDON TYPE

AD

SPECIAL FEATURES

- STAINLESS STEEL CASE & MEASURING SYSTEM
- DRY OR LIQUID FILLED
- ACCURACY UPTO $\pm 1.6\%$
- STANDARD FOLLOWED EN 837 - 1

APPLICATIONS

FOOD & BEVERAGE, PHARMACEUTICAL, CRYOGENICS, CHEMICAL & PETROCHEMICAL INDUSTRIES, CONVENTIONAL & NUCLEAR POWER PLANTS, PUMPS, HYDRO-CLEANING MACHINES, PRESSES, ENGINE COMPRESSORS, TURBINES, DIESEL ENGINES & REFRIGERATING PLANTS.



SPECIFICATIONS

STANDARD VERSION : 63mm

Accuracy	: $\pm 1.6\%$ of F.S.
Ambient temperature	: - 40°C to + 60°C
Process temperature	: Max 180°C
Operating pressure	: 75 % of the Scale Value
Over pressure limit	: 30 % for Pressure Ranges up to 400kg/cm ² 15 % for Pressure Ranges above 400kg/cm ²
Case	: AISI 304 SS
Ring	: AISI 304 SS, Bayonet Type
Socket	: AISI 316 SS
Bourdon	: AISI 316 SS
Movement	: AISI 304 SS
Joints	: Tig Argon Arc Welding
Protection	: IP 65
Dial	: Aluminium, black graduation on white background
Pointer	: Aluminium, black Coloured, Fixed
Window	: Plexi Glass
Gasket	: Silicon rubber
Filling Plug	: Neoprene

GLYCERINE FILLED VERSION (OPTION PY)

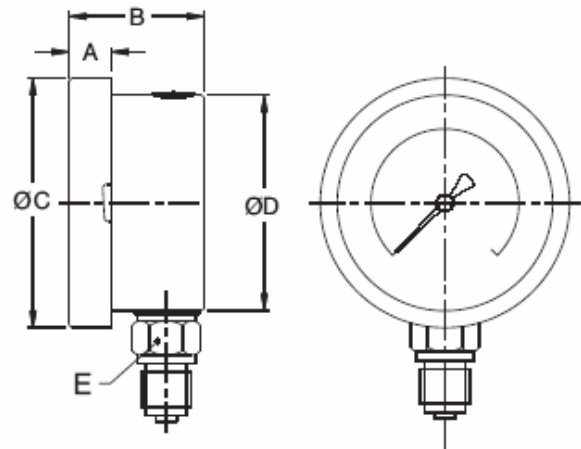
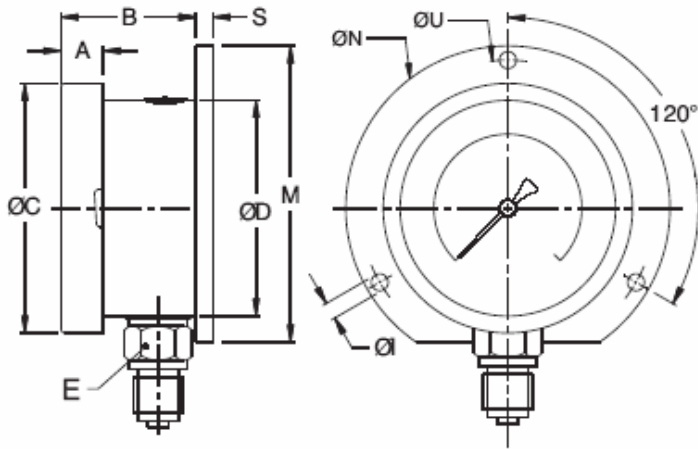
Process Temperature	: Max. 65°C
Ambient Temperature	: Max. 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerine 98 %
Other Features	: Refer Specification of Standard Version

DRY BUT FILLABLE VERSION

Option Code	: Fillable Dampening Liquid
FG	: For Glycerine 98%
FS	: For Silicon Oil

TYPE 1

TYPE 2



BAYONET TYPE (STANDARD)

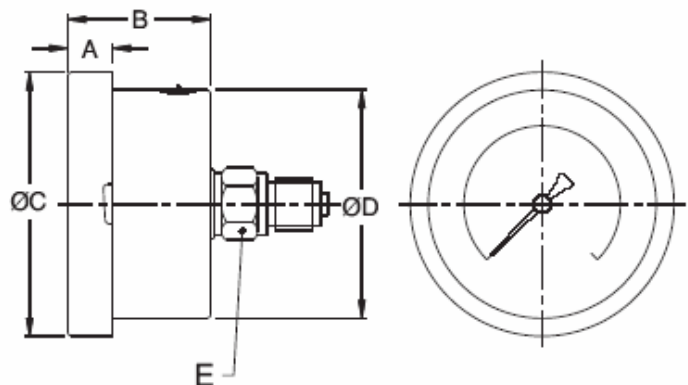
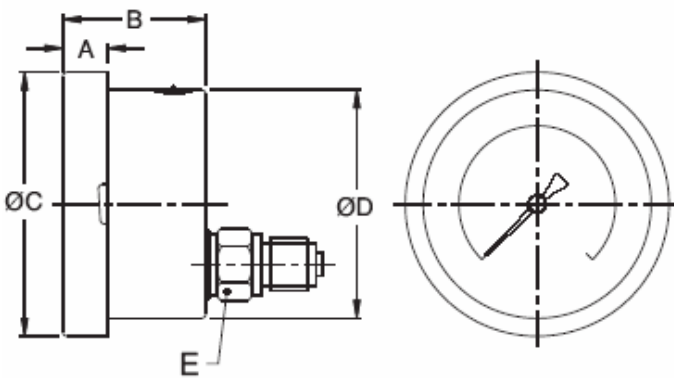
BAYONET TYPE (STANDARD)

NS	A	B	ØC	ØD	E	S	ØN	ØI	ØU	M	Weight in gram (With Box)
63	9	31	69.5	62.5	A/F 14	5	88	5	76	80	222.0

NS	A	B	ØC	ØD	E	Weight in gram (With Box)
63	9	31	69.5	62.5	A/F 14	179.0

TYPE 3

TYPE 4



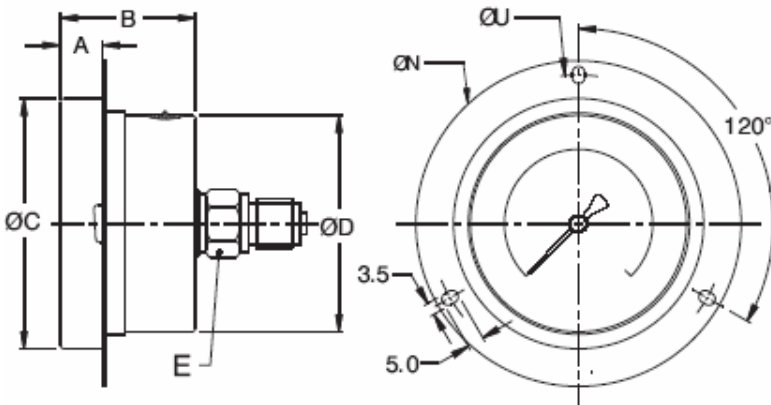
BAYONET TYPE (STANDARD)

BAYONET TYPE (STANDARD)

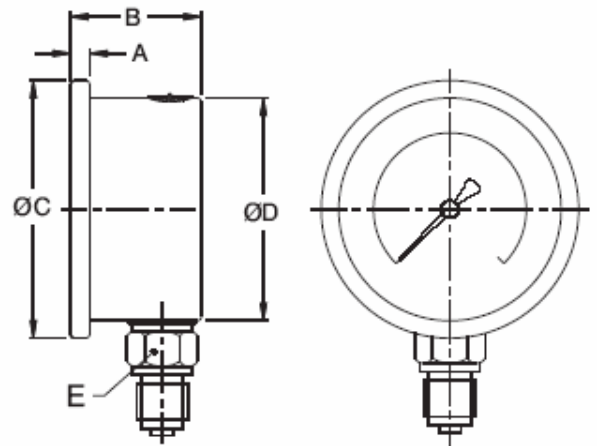
NS	A	B	ØC	ØD	E	Weight in gram (With Box)
63	9	31	69.5	62.5	A/F 14	187.0

NS	A	B	ØC	ØD	E	Weight in gram (With Box)
63	9	31	69.5	62.5	A/F 14	187.0

TYPE 5



TYPE 2



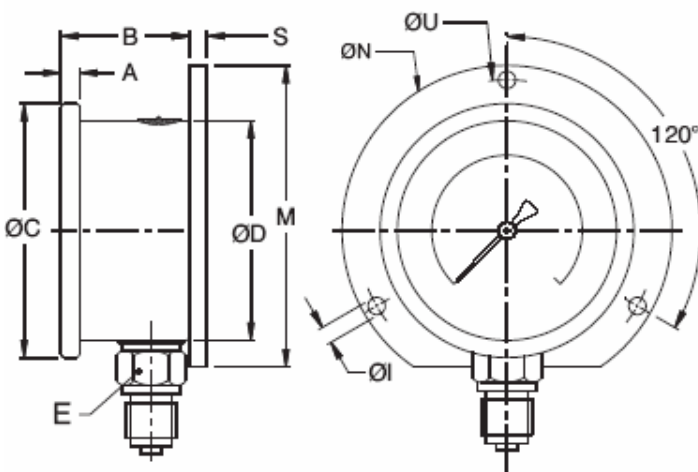
BAYONET TYPE (STANDARD)

NS	A	B	ØC	ØD	E	ØN	ØU	Weight in gram (With Box)
63	9	31	69.5	62.5	A/F 14	85.5	76	226.0

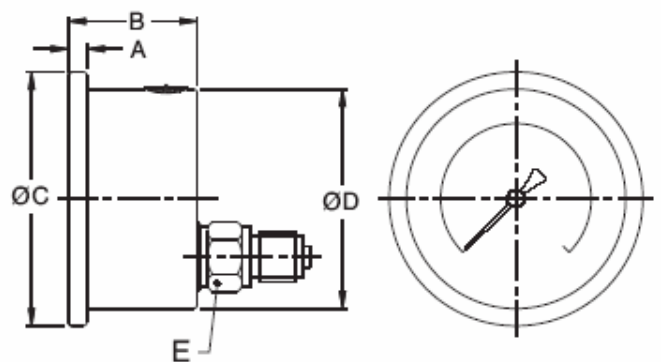
ROLLING TYPE (OPTION)

NS	A	B	ØC	ØD	E	Weight in gram (With Box)
63	6.5	30	68	62.5	A/F 14	164.5

TYPE 1



TYPE 3



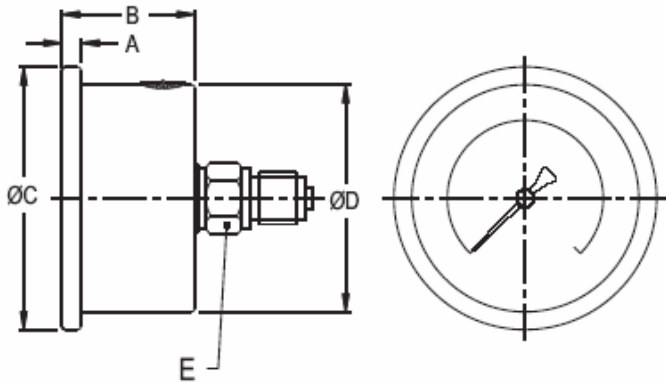
ROLLING TYPE (OPTION)

NS	A	B	ØC	ØD	E	S	ØN	ØI	ØU	M	Weight in gram (With Box)
63	6.5	30	68	62.5	A/F 14	5	88	5	76	80	205.5

ROLLING TYPE (OPTION)

NS	A	B	ØC	ØD	E	Weight in gram (With Box)
63	6.5	30	68	62.5	A/F 14	165

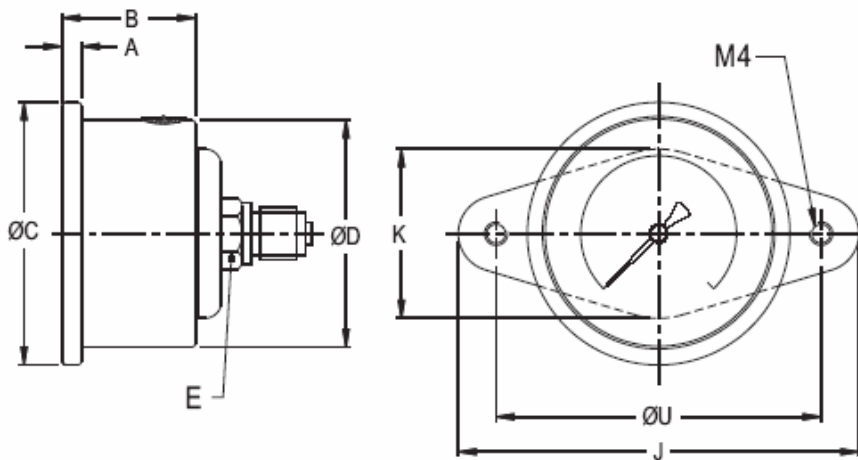
TYPE - 4



ROLLING TYPE (OPTION)

NS	A	B	ØC	ØD	E	Weight in gram (With Box)
63	6.5	30	68	62.5	A/F 14	165

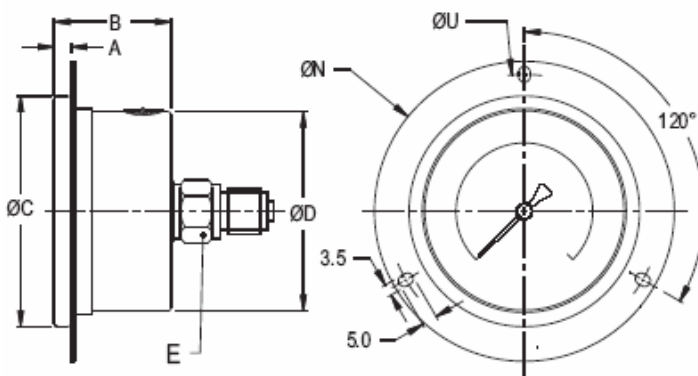
TYPE - 9



ROLLING TYPE (STANDARD)

NS	A	B	ØC	ØD	E	J	K	ØU	Weight in gram (With Box)
63	6.5	30	68	62.5	A/F 14	91	38	70.5	204.5

TYPE - 5



ROLLING TYPE (OPTION)

NS	A	B	ØC	ØD	E	ØN	ØU	Weight in gram (With Box)
63	6.5	30	68	62.5	A/F 14	85.5	76	226.0

Notes: • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size

RANGE TABLE

Note : Manufacturer offers Pressure ranges, Vacuum ranges and Compound ranges in Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or scales as per the requirement can be provided on request.

Following are the example tables for kg/cm² & psi scales

PRESSURE RANGE

RANGE (PSI with kg/cm ²)			
RANGE PSI	RANGE kg/cm ²	RANGE PSI	RANGE kg/cm ²
-30 inHg / 0	-760 mmHg / 0	0/3000 psi	0/210 kg/cm ²
0/15 psi	0/1 kg/cm ²	0/4000 psi	0/280 kg/cm ²
0/30psi	0/2 kg/cm ²	0/5000 psi	0/350 kg/cm ²
0/60 psi	0/4 kg/cm ²	0/6000 psi	0/400 kg/cm ²
0/100 psi	0/7 kg/cm ²	0/10000 psi	0/700 kg/cm ²
0/150 psi	0/10 kg/cm ²	0/15000 psi	0/1000 kg/cm ²
0/200 psi	0/14 kg/cm ²	- 30inHg/15	- 1/1 kg/cm ²
0/300 psi	0/21 kg/cm ²	- 30inHg /30	- 1/2 kg/cm ²
0/400 psi	0/28 kg/cm ²	- 30inHg /60	- 1/3 kg/cm ²
0/500 psi	0/35 kg/cm ²	- 30inHg /100	- 1/6 kg/cm ²
0/600 psi	0/40 kg/cm ²	- 30inHg /150	- 1/9 kg/cm ²
0/1000 psi	0/70 kg/cm ²	- 30inHg /200	- 1/15 kg/cm ²
0/1500 psi	0/100 kg/cm ²	- 30inHg /300	- 1/20 kg/cm ²
0/2000 psi	0/140 kg/cm ²	- 30inHg /350	- 1/24 kg/cm ²

AMMONIA WITH TEMPERATURE SCALE

- 30 inHg / 150 psi	- 1 / 12.5 kg/cm ²	- 1 / 25 kg/cm ²
- 30 inHg / 300 psi	- 1 / 16 kg/cm ²	

FREON WITH TEMPERATURE SCALE

- 30 inHg / 150 psi	0/300 psi
- 30 inHg / 300 psi	0/500 psi

ACCESSORIES †

EC GAUGE COCK	EG SNUBBER	DX DIAPHRAGM SEAL
ED GAUGE SAVER	EH SIPHON	
* NEEDLE VALVE	EB COOLING TOWER	

† Refer Datasheet for complete specifications

* Refer catalogue for Valves & Manifolds

HOW TO ORDER

BASIC MODEL

CODE	D
NOMINAL SIZE (MM)	63

AD

D

TYPE OF MOUNTING

- 1 SURFACE / WALL / PROJECTION MOUNTING WITH BOTTOM ENTRY
- 2 DIRECT BOTTOM ENTRY
- 3 DIRECT LOWER BACK ENTRY
- 4 DIRECT CENTRE BACK ENTRY
- 5 FLUSH PANEL BACK ENTRY WITH FRONT FLANGE
- 9 BACK ENTRY WITH MOUNTING BRACKET (ROLLING TYPE DESIGN ONLY)

2

GAUGE CONNECTION

1BM	1/8" BSP(M)	1TM	1/8" BSPT(M)
1NM	1/8" NPT(M)	2TM	1/4" BSPT(M)
2BM	1/4" BSP(M) STANDARD		
2NM	1/4" NPT(M) STANDARD		

2NM

Note : Connections like PT/PF/Flaired /UNF/G/R etc.can be provided on request.
Non standard connections can be provided through adaptors.

RANGE

REFER TABLES

0-10
kg/cm²

OPTIONS

FOR NON STANDARD PRODUCTS/OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER.

RH	CUSTOM DESIGNED DIAL	RZ	TOUGHENED GLASS
SG	OXYGEN SERVICE (WITHOUT DAMPENING LIQUIDS)	SX	SS TAG PLATE
PS	AISI 316 SS CASE & BEZEL	TB	HELIUM LEAK TEST
PW	FIVE POINT CALIBRATION CERTIFICATE	FS	FILLABLE LIQUID SILICON OIL*
PZ	DAMPENING LIQUID MINERAL LIQUID FILLED	FG	FILLABLE LIQUID GLYCERINE
PX	DAMPENING LIQUID FLOUROLUBE FILLED	QB	INTEGRAL DAMPENING SCREW IN AISI 316 SS
PY	DAMPENING LIQUID GLYCERINE FILLED	ZC	FREON RANGE (WITH TEMPERATURE SCALE)
QA	DAMPENING LIQUID SILICON OIL FILLED*	ZD	AMMONIA RANGE (WITH TEMPERATURE SCALE)
RX	SHATTERPROOF / SAFETY GLASS(FOR BAYONET TYPE DESIGN)	SJ	MAXIMUM READING POINTER
RI	25 MM BOD (EXCEPT MOUNTING 4, 5 AND 9)	SY	TRIANGLE TYPE SURFACE MOUNTING PLATE
SQ	CASE WITH ROLLING TYPE BEZEL	SZ	WELDED SOCKET TO THE CASE
OB	ACCURACY ±1.0% OF F.S.(WITHOUT OPTION DAMPENING LIQUID)		

PY

* GASKET, BOD & FILLING PLUG OF VITON / NBR

Ordering Example:

AD - D - 2 - 2NM - 0/10kg/cm² - PY

Note : ● Due to continuous improvement, the specification may vary from time to time.