

BOURDON TYPE SS PRESSURE GAUGE

Special Features:

Stainless steel case & measuring system
Socket & case welded
Accuracy upto $\pm 0.5\%$

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: 50mm, 63mm, 100mm, 150mm, 250mm

Accuracy	: $\pm 1.0\%$ of F.S. for 100mm, 150mm and 250mm $\pm 1.6\%$ of F.S. for 63mm $\pm 2.5\%$ of F.S. for 50mm
Ambient temperature	: -25°C to $+65^{\circ}\text{C}$
Process temperature	: Max 180°C
Operating pressure	: 75% of the Scale Value
Over pressure limit	: 30% for Pressure Ranges upto 600 kg / cm^2 15% for Pressure Ranges above 600 kg / cm^2



Case	: AISI 304 SS
Ring	: AISI 304 SS, Bayonet Type
Bourdon	: AISI 316L SS
Socket	: AISI 316L SS
Movement	: AISI 304 SS
Joints	: Tig Argon Arc Welding



Protection	: IP 65
Dial	: Aluminium, black graduation on white background
Pointer	: Aluminium, black coloured Micrometer zero adjustable
Window	: Sheet Glass
Blow off Disc	: Neoprene
Gasket	: Neoprene



Glycerine Filled Version (Option LG)

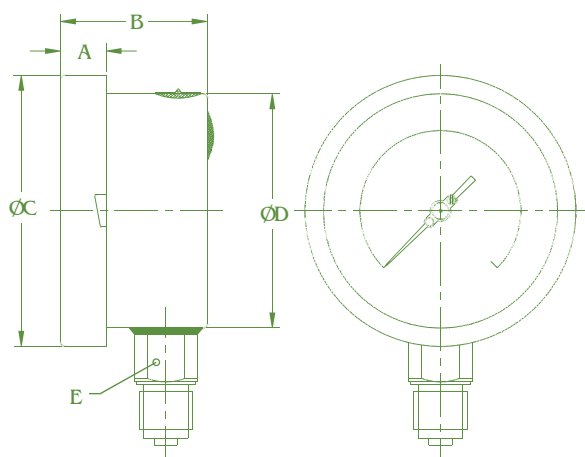
Accuracy	: $\pm 1.0\%$ of F.S. for 100mm, 150mm and 250mm $\pm 1.6\%$ of F.S. for 63mm $\pm 2.5\%$ of F.S. for 50mm
Ambient Temperature	: Maximum 65°C
Process Temperature	: $+15^{\circ}\text{C}$ / 65°C
Window	: Plexi Glass
Dampening Liquids	: Glycerine 98% (others available as option)
Other Features	: Refer Specification of Standard Version



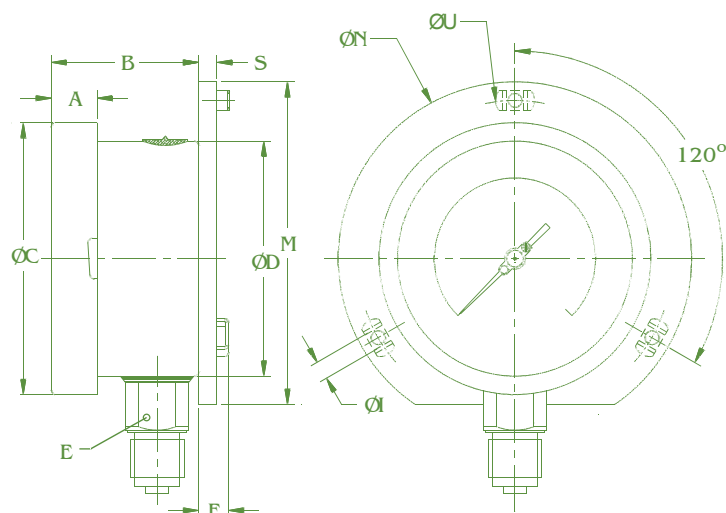
BOURDON TYPE SS PRESSURE GAUGE

DIMENSIONS - STANDARD VERSION

⚙ Type 1



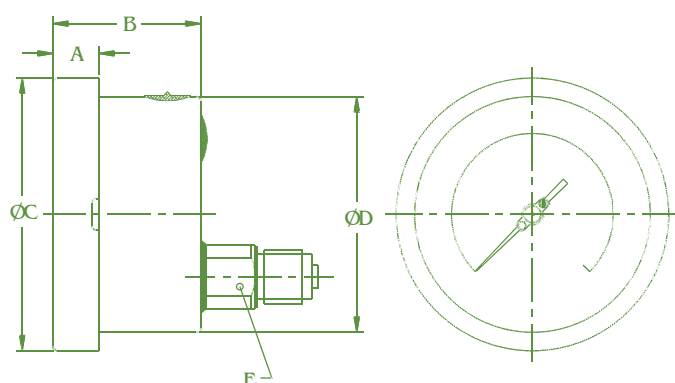
⚙ Type 2



NS	A	B	ØC	ØD	E
50	10	31	59	51	A/F 14
63	9	31	69.5	62.5	A/F 14
100	12.5	48	110	100	22
150	15	49	161	149	22
250	15	50.5	263	249	22

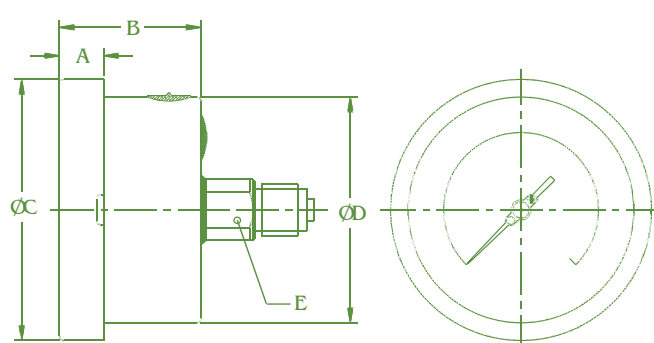
NS	A	B	ØC	ØD	E	M	S	F	ØI	ØN	ØU
63	9	31	69.5	62.5	A/F 14	80	5	12.5	5	88	76
100	12.5	48	110	100	22	128	6	14.5	6	134	118
150	15	49	161	149	22	177	5.5	15	6	186	168
250	15	50.5	263	249	22	268.5	1.5	15	7	290	276

⚙ Type 3



NS	A	B	ØC	ØD	E
63	9	31	69.5	62.5	A/F 14
100	12.5	48	110	100	22
150	15	49	161	149	22
250	15	50.5	263	249	22

⚙ Type 4

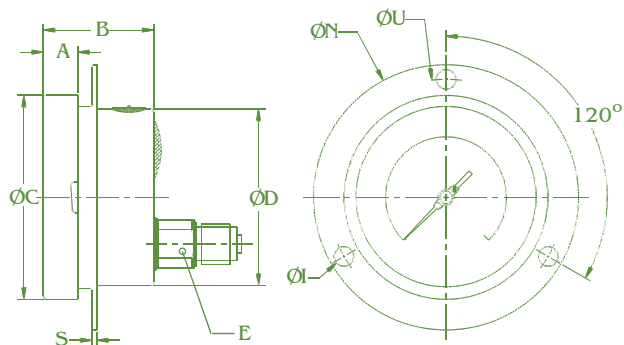


NS	A	B	ØC	ØD	E
50	10	31	59	51	A/F 14
63	9	31	69.5	62.5	A/F 14
100	12.5	48	110	100	22

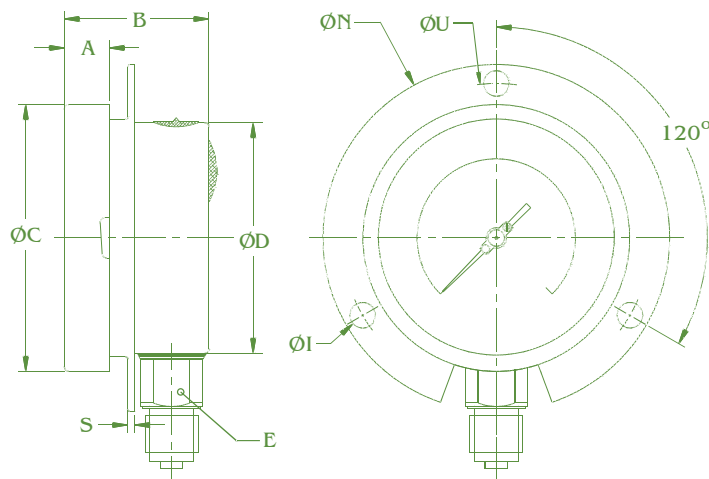
Notes : • Drawings are not to scale. • All Dimensions are in mm.

BOURDON TYPE SS PRESSURE GAUGE

⚙️ Type 5



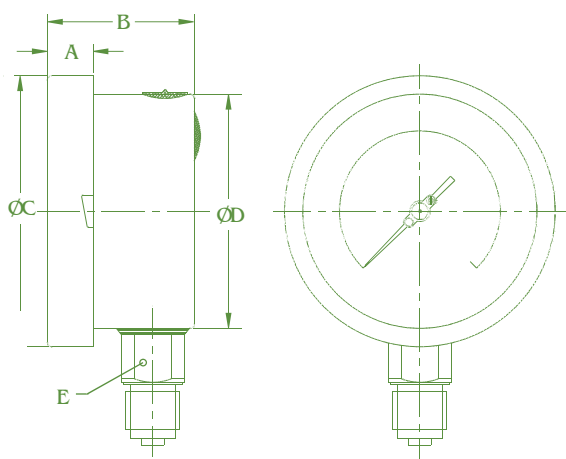
⚙️ Type 6



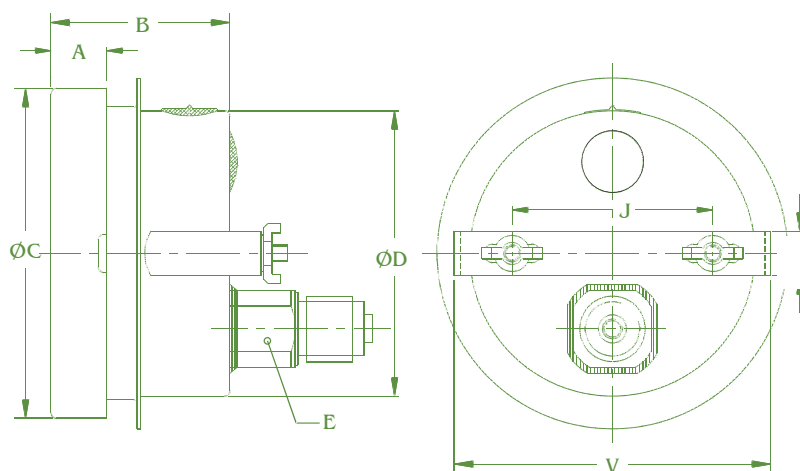
NS	A	B	ØC	ØD	E	S	ØI	ØN	ØU
100	12.5	48	110	100	22	1	6	134	118
150	15	49	161	149	22	5	6	186	168
250	15	50.5	263	249	22	1.5	7	290	276

NS	A	B	ØC	ØD	E	S	ØI	ØN	ØU
100	12.5	48	110	100	22	1	6	134	118
150	15	49	161	149	22	5	6	186	168
250	15	50.5	263	249	22	1.5	7	290	276

⚙️ Type 7



⚙️ Type 8



NS	A	B	ØC	ØD	E
100	12.5	38	110	100	22

NS	A	B	ØC	ØD	E	J	K	V
100	12.5	48	110	100	22	66.5	16	106
150	15	49	161	149	22	103.5	16	158
250	15	50.5	263	249	22	215	16	260

Notes : • Drawings are not to scale. • All Dimensions are in mm.

BOURDON TYPE SS PRESSURE GAUGE RANGE TABLE

Note : Omicron offers National / International Scales like kPa, MPa, bar, PSI, kg/cm² & Dual Scale like kPa with PSI, kPa with bar, bar with PSI or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm² & PSI scales:

Pressure:

SINGLE SCALE (kg/cm² or bar)

RANGE	RANGE	RANGE	RANGE	RANGE
0/0.6	0/4	0/25	0/160	0/1000
0/1	0/6	0/40	0/250	0/1400
0/1.6	0/10	0/60	0/400	0/1600
0/2.5	0/16	0/100	0/600	

DUAL SCALE (PSI with kg/cm²) or PSI with bar

RANGE (PSI)	RANGE (kg/cm ²)	RANGE (PSI)	RANGE (kg/cm ²)	RANGE (PSI)	RANGE (kg/cm ²)
0/15	0/1	0/400	0/28	0/4000	0/280
0/30	0/2	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/400
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100	0/15000	0/1000
0/200	0/14	0/2000	0/140	0/20000	0/1400
0/300	0/20	0/3000	0/200	0/23000	0/1600

* Note: For ranges above 1600kg/cm², please consult factory.

Vacuum & Compound:

DUAL SCALE (inHg with PSI & mmHg with kg/cm²)

RANGE (inHg with PSI) (mmHg with kg/cm ²)	RANGE (inHg with PSI) (mmHg with kg/cm ²)	RANGE (inHg with PSI) (mmHg with kg/cm ²)	RANGE (inHg with PSI) (mmHg with kg/cm ²)
- 30/0	- 760/0	- 30/60	- 760/4
- 30/15	- 760/1	- 30/100	- 760/7
- 30/30	- 760/2	- 30/150	- 760/10

SINGLE SCALE (kg/cm²)

RANGE	RANGE	RANGE	RANGE
- 1/0	- 1/1.5	- 1/5	- 1/15
- 1/0.6	- 1/3	- 1/9	- 1/24

Freon (With Temperature Scale)

DUAL SCALE (Inch Hg to PSI)

RANGE	RANGE	RANGE (kg/cm ²)	RANGE (PSI)
- 30/150	0-300	-1 to 12.5	-30 - 150
- 30/300	0-500	-1 to 16	-30 - 300
		-1 to 25	0 - 300

Ammonia (With Temperature Scale)

Accessories: †

CT	COOLING TOWER	GS	GAUGE SAVER	SN	SNUBBER
GC	GAUGE COCK	*	NEEDLE VALVE	GS	SYPHON
				**	DIAPHRAGM SEAL

† Refer Datasheet for complete specifications

* Refer catalogue for Valves & Manifolds

** Refer catalogue for Diaphragm Seals

BOURDON TYPE SS PRESSURE GAUGE

HOW TO ORDER

Basic Model:

PGSS

CODE	A	B	C	D	E	C
Nominal Size(mm)	50	63	100	150	250	

Type Of Mounting:

2

1. Direct Bottom Entry
2. Wall / Surface / Projection Mounting With Bottom Entry
3. Direct Lower Back Entry
4. Direct Centre Back Entry
5. Flush Panel Back Entry With Front Flange
6. Bottom Entry With Front Flange
7. Direct Bottom Entry With Light Weight Case (Only For 100mm Ns)
8. Back Entry With Mounting Bracket

(Other Types Of Mounting Can Be Provided On Request.)

Gauge Connection:

10N

03B	1/8" BSP (M)	06BT	1/4" BSPT (M)	15N	1/2" NPT (M) STANDARD	M16	M 16 X 1.5 (M)
03N	1/8" NPT (M)	10B	3/8" BSP (M) STANDARD	15B	1/2" BSP (M) STANDARD	M20	M 20 X 1.5 (M)
06B	1/4" BSP (M)	10BT	3/8" BSPT (M)	15BT	1/2" BSPT (M)		
06N	1/4" NPT (M)	10N	3/8" NPT (M)	M12	M 12 X 1 (M)		

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

Range:

0 - 10
kg/cm²

Refer tables

Options:

OtA

OA	Optional Accuracy $\pm 0.5\%$ Of F.S. (Except With Option Dampening Liquid Maximum Reading Pointer)	GD	Glow In The Dark Design Dial
SM	AISI 316 SS Movement	DD	Custom Designed Dial
SC	AISI 316 SS Case & Ring	LM	Dampening Liquid Mineral Liquid Filled
ST	SS Tag Plate	LF	Dampening Liquid Flourolube Filled
SD	Dampening Screw In AISI 316 SS	LG	Dampening Liquid Glycerine Filled
EP	Enclosure Protection IP 66	LS	Dampening Liquid Silicon Oil Filled*
GP	Plexi Glass	DT	Dial Tag Marking
GS	Shatterproof / Safety Glass	FP	Five Point Factory Calibration Certificate
GT	Toughened Glass	OR	Over Range Protection 150% Of F.S.
RF	Freon Range (With Temperature Scale)		
RA	Ammonia Range (With Temperature Scale)		
RO	Oxygen Service (Without Option Dampening Liquid)		
SI	Knife Edge Pointer		
SJ	Maximum Reading Pointer		

Ordering Example:
PGSS-C2-10B-0/10kgcm2 - OA

Note : Due to continuous improvement, the specification may vary from time to time.
For non standard products/optional items, please contact factory for delivery and minimum quantity of order.