

BOURDON TYPE

SS

SPECIAL FEATURES

- EXTERNAL ZERO ADJUSTMENT (OPTIONAL)
- STAINLESS STEEL CASE & MEASURING SYSTEM
- SOCKET DIRECTLY WELDED TO CASE
- DRY AND LIQUID FILLED VERSION
- STANDARD FOLLOWED EN 837-1 (FOR NS 100, 150 & 250 mm).

SPECIFICATIONS

STANDARD VERSION : 100 mm, 125 mm, 150 mm, 200 mm & 250 mm

Case & Bezel	: AISI 304 SS (Bayonet Type)
Bourdon	: AISI 316L SS
Socket	: AISI 316L SS (Directly Welded to Case)
Movement	: AISI 304 SS
Joints	: Tig Argon Arc Welding

Ambient temperature	: - 25°C to + 65°C
Process temperature	: Max 300°C
Accuracy	: ±1.0 % of F. S.
Operating Pressure Range	: 75 % of Scale Value
Over pressure limit	: ≤100 bar : 125 % of Max. Scale Value
	: > 100 to ≤ 600 bar : 115 % of Max. Scale Value
	: > 600 to ≤ 1600 bar : 110 % of Max. Scale Value

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



DRY BUT FILLABLE VERSION (OPTION FG)

Fillable Dampening Liquid	: Glycerine 99.7 % (Option - FG)
Ambient Temperature	: Maximum 65°C
Process Temperature Window	: Plexi Glass
Other Features	: Refer Specification of Standard Version

GLYCERINE FILLED VERSION (OPTION DG)

Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65°C
Accuracy	: ±1.0 % of F.S
Window	: Plexi Glass
Dampening Liquids	: Glycerine 99.7 % (others available as option)
Other Features	: Refer Specification of Standard Version

Temperature effect:

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- **Formula** : $\pm 0.04 \times (t_2 - t_1) \% \text{ of F. S.}$

where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C

BOURDON TYPE

SSL

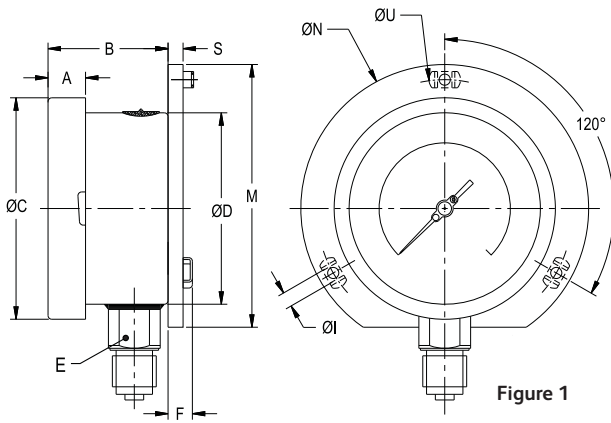


Figure 1

TYPE BMW

DIMENSION & WEIGHT

NS mm	A	B	ØC	ØD	E	M	S	F	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	45	111	100	22	128	6	14.5	6	134	118	720.0	1025.0
125	15	46	129	119	22	-	4	14.5	6	150	137	845.0	1165.0
150	15	46.5	161	149	22	174.5	6	14.5	6	186	168	1160.0	1895.0
200	18	49	216.5	201.5	22	-	1.5	14.5	7	245	230	2020.0	2780.0
250	18	52	263	250	22	286.5	1.5	14.5	7	290	276	2400.0	3220.0

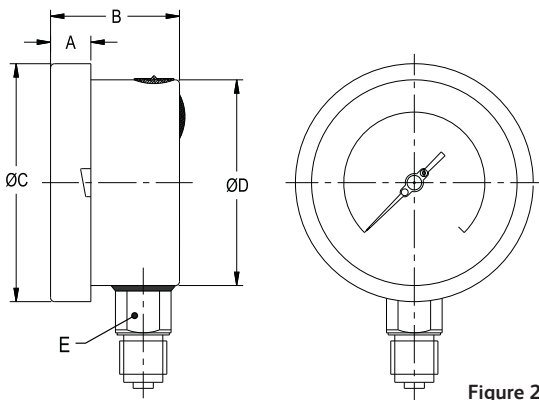


Figure 2

TYPE BM

DIMENSION & WEIGHT

NS mm	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1020.0	1755.0
200	18	49	210.5	201.5	22	1720.0	2480.0
250	18	52	263	250	22	2000.0	2820.0

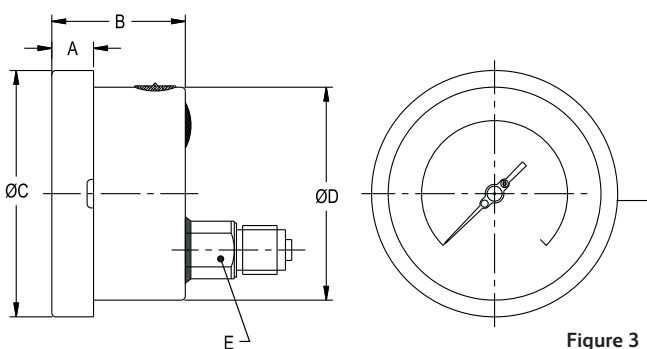


Figure 3

TYPE LBM

DIMENSION & WEIGHT

NS mm	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1000.0	1735.0
200	18	49	216.5	201.5	22	1500.0	2260.0
250	18	52	263	250	22	1800.0	2620.0

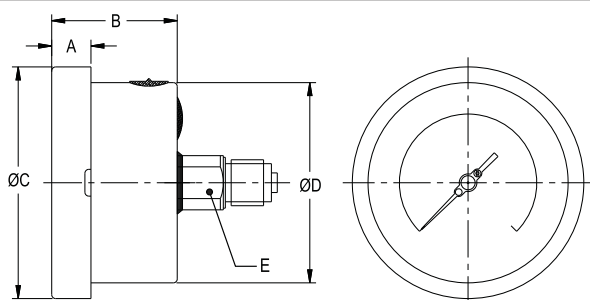


Figure 4

TYPE CBM

DIMENSION & WEIGHT

NS mm	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0

BOURDON TYPE

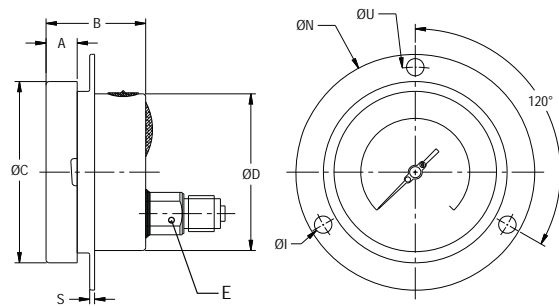


Figure 5

**TYPE
LBMFF**

DIMENSION & WEIGHT

NS mm	A	B	ØC	ØD	E	S	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	1	6	134	118	695.0	990.0
125	15	48	129	119	22	4	6	150	137	850.0	1170.0
150	15	49	161	149	22	5	6	186	168	1100.0	1835.0
200	18	49	216.5	201.5	22	1.5	7	245	230	2000.0	2760.0
250	18	52	263	250	22	1.5	7	290	276	2250.0	3070.0

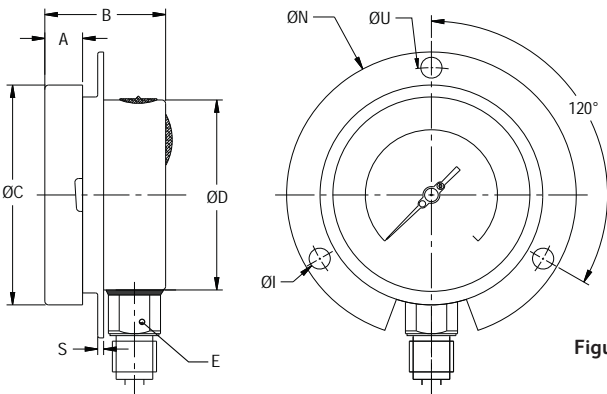


Figure 6

**TYPE
LBMBR**

DIMENSION & WEIGHT

NS mm	A	B	ØC	ØD	E	S	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	1	6	134	118	730.0	1025.0
125	15	48	129	119	22	4	6	150	137	815.0	1135.0
150	15	49	161	149	22	5	6	186	168	1100.0	1835.0

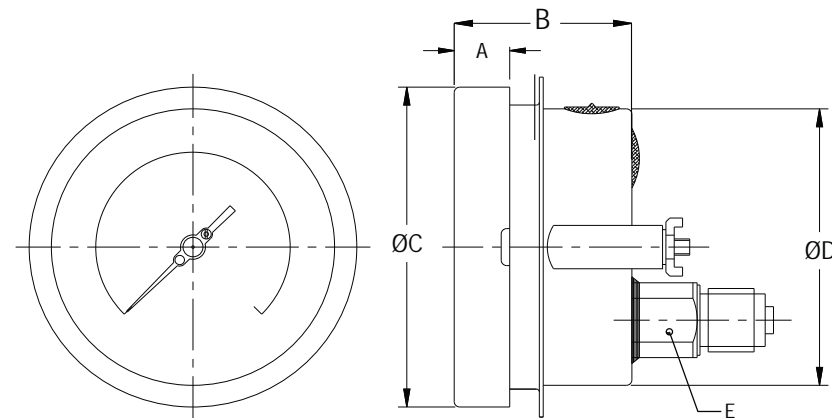


Figure 7

**TYPE
BMFF**

DIMENSION & WEIGHT

NS mm	A	B	ØC	ØD	E	J	K	V	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	72	16	108	740.0	1035.0
125	15	48	129	119	22	75	16	125	890.0	1210.0
150	15	49	161	149	22	106.5	16	166	1100.0	1835.0
200	18	49	210.5	201.5	22	165	16	208	1920.0	2680.0
250	18	52	263	250	22	180	30	270	2300.0	3120.0

Notes : • Drawings are not to scale. • All Dimensions are in mm . • NS = Nominal Size
 • Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

BOURDON TYPE

RANGE TABLE

Note : STRATAA CONTROLS 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)

0/0.6	0/4	0/25	0/160	0/1000
0/1	0/6	0/40	0/250	0/1600
0/1.6	0/10	0/60	0/400	0/2100
0/2.5	0/16	0/100	0/600	

DUAL SCALE (psi with kg/cm²)

psi	kg/cm ²	psi	kg/cm ²	psi	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	0/420
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100	0/15000	0/1000
0/220	0/16	0/2200	0/160	0/22000	0/1600
0/300	0/20	0/3000	0/200	0/30000	0/2000

VACUUM & COMPOUND

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

inHg with psi	mmHg with kg/cm ²	inHg with psi	mmHg with kg/cm ²	inHg with psi	mmHg with kg/cm ²
- 30/0	- 760/0	- 30/60	- 760/4	- 30/200	- 760/14
- 30/15	- 760/1	- 30/100	- 760/7	- 30/300	- 760/21
- 30/30	- 760/2	- 30/150	- 760/10	- 30/350	- 760/25

SINGLE SCALE (kg/cm²)

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

RECEIVER

LINEAR SCALE

(0 - 100 % Internal Scale) External Scale
0.2 - 1 kg/cm² or 3 - 15 psi
(0-100 % linear scale)

SQUARE ROOT SCALE

(0 - 10 Sq - Root Internal Scale) External Scale
0.2 - 1 kg/cm² or 3 - 15 psi
(0.2 - 1 kg/cm²)

FREON (WITH TEMPERATURE SCALE)

AMMONIA (WITH TEMPERATURE SCALE)

Note : For temperature scales, please provide refrigerant name.

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

ACCESSORIES (Refer Datasheet for complete specifications)

CT COOLING TOWER	GS OVER LOAD PROTECTOR (GAUGE SAVER)**	OD SNUBBER
GC GAUGE COCK	NV NEEDLE VALVE	SYP SIPHON

* Refer catalogue for Valves & Manifolds.

** For Pressure Ranges.

HOW TO ORDER

CODE		100	125	150	200	250
NOMINAL SIZE		100 mm	125 mm	150 mm	200 mm	250 mm

TYPE OF MOUNTING

BMW	BOTTOM COMPLETE WITH WALL MOUNT
BM	BOTTOM
LBM	LOWER BACK
CBM	CENTER BACK (FOR NS 100 mm ONLY)
LBMFF	LOWER BACK COMPLETE WITH FRONT FLANGE
BMP	BOTTOM COMPLETE WITH 2" PIPE / YOKE MOUNT*
BMFF	BOTTOM COMPLETE WITH FRONT FLANGE (FOR NS 100 mm, 125 mm & 150 mm)
LBMBR	LOWER BACK COMPLETE WITH MOUNTING BRACKET

* MOC OF BRACKET AND 'U' CLAMP WILL BE STEEL (PAINTED). ASK FACTORY FOR DRAWINGS, IF REQUIRED.

GAUGE CONNECTION

		100	125	150	200	250
4BSM	1/4" BSP(M)	A	A	A	NA	NA
4NPM	1/4" NPT(M)	A	A	A	NA	NA
8BSM	3/8" BSP(M)	A	A	A	A	A
2NPM	1/2" NPT(M) STANDARD	A	A	A	A	A
2BSM	1/2" BSPT(M)	A	A	A	A	A

Note : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R etc. can be provided on request.

RANGE

REFER RANGE TABLE

OPTIONS

5A	ACCURACY ± 0.5 % OF F.S (FOR DRY VERSION)	ST	SS TAG PLATE
MV	MONEL BOURDON & SOCKET (MONEL VERSION)**	TM	DIAL TAG MARKING
IDM	INTEGRAL DAMPENING SCREW (MONEL)**	LT	HELIUM LEAK TEST
FS	FILLABLE LIQUID SILICON OIL*	CN	CONFORMITY AS PER NACE MR 0175
FG	FILLABLE LIQUID GLYCERINE	C5	FIVE POINT CALIBRATION CERTIFICATE
DM	DAMPENING LIQUID MINERAL LIQUID FILLED	CT	CALIBRATION CERTIFICATE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS
DF	DAMPENING LIQUID FLOUROLUBE FILLED	OS	OXYGEN SERVICE (FOR DRY VERSION)
DG	DAMPENING LIQUID GLYCERINE FILLED	CD	CUSTOM DESIGNED DIAL
DS	DAMPENING LIQUID SILICON OIL FILLED*	IDS	INTEGRAL DAMPENING SCREW (AISI 316 SS)
P6	ENCLOSURE PROTECTION IP 66	OS	INTERNAL OVERPRESSURE STOP
P7	ENCLOSURE PROTECTION IP 67	VS	INTERNAL VACUUM STOP
PG	PLEXI GLASS	RR	RECEIVER RANGE
SG	SHATTERPROOF/SAFETY GLASS	ZC	FREON RANGE (WITH TEMPERATURE SCALE)
TG	TOUGHENED GLASS	ZD	AMMONIA RANGE (WITH TEMPERATURE SCALE)
MJ	MOVEMENT WITH DAMPENING JELLY	SS	AISI 316 SS CASE & BEZELS
EG	KNIFE EDGE POINTER	SM	AISI 316 SS MOVEMENT
PP	MAXIMUM READING POINTER WITH PLEXI GLASS (EXCEPT OPTION OA & ONLY FOR DRY VERSION)	EP	EPOXY PAINTED CASE & BEZEL
MT	MATERIAL TEST CERTIFICATES***	ELP	ELECTRO POLISHED CASE & BEZEL
VP	ON - OFF TYPE VENT PLUG	SQ	CASE WITH ROLLING TYPE BEZEL (FOR NS 100 mm)
PV	IBR APPROVAL#	OP	OVER RANGE PROTECTION 150% OF F. S.
PD	ANTI PARALLAX MIRROR BAND DIAL##	JU	2" PIPE/YOKE MOUNTING BRACKET & 'U' CLAMP (AISI 304 SS)
EZ	EXTERNAL ZERO ADJUSTMENT (EXCEPT MOUNTING TYPE LBMFF & LBMBR)	FN	2" PIPE/YOKE MOUNTING BRACKET & 'U' CLAMP (AISI 316 SS)
		GO	SHORT OVERPRESSURE

* Gasket & Filling plug of NBR. Refer Price List for Viton.
 **INTEGRAL DAMPENING SCREW WILL BE IN MONEL IF ORDERED. REFER OPTION IDM.
 *** MATERIAL TEST CERTIFICATES WILL BE PROVIDED FOR WETTED PARTS ONLY WITH CHEMICAL COMPOSITION TESTING. FOR OTHERS, PLEASE CONSULT FACTORY.
 # FOR NS 150 mm & ABOVE. SCALE SHALL BE MARKED IN kg/cm² ONLY. CONSULT FACTORY FOR MORE DETAILS.
 ## FOR NS 150 mm & ABOVE. FOR NS 100 mm to 150 mm.

FOR OTHER OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER.
 Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing.
 Modifications may take place and materials specified may be replaced by others without prior notice.

BASIC MODEL

2211 PG	SSL				OPTIONS				
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SSL