

Bourdon Tube Pressure Gauges

All Stainless Steel, Case With Bayonet Ring or Wide Ring

Ø 40 mm (1½"), Ø 50 mm (2"), Ø 63 mm (2½"), Ø 80 mm (3"),
Ø 100 mm (4") and Ø 160 mm (6")

Models :
BI / BIA

APPLICATIONS

For fluid and gaseous media (compatible to the wetted materials), which are not highly viscous and do not tend to polymerize, especially where a sealed Case (dirty-damp or corrosive atmosphere) and / or chemical resistance is required.

NOMINAL HEAD DIAMETERS

Ø 40 mm (1½"), Ø 50 mm (2")
Ø 63 mm (2½"), Ø 80 mm (3")
Ø 100 mm (4"), Ø 160 mm (6")

ACCURACY CLASS

Ø 40 mm (1½"), Ø 50 mm (2"), Ø 63 mm (2½") :
Accuracy 1,6 according to EN standards
(i.e. ± max. 1,6% of full span)

Ø 80 mm (3"), Ø 100 mm (4"), Ø 160 mm (6") :
Accuracy 1,0 according to EN standards
(i.e. ± max. 1,0% of full span)

PRESSURE RANGES (EN 837)

0/0.6 to 0/4.000 bar resp. 0/10 to 0/60.000 psi, also
corresponding vacuum and compound pressure ranges,
see [standard ranges page 4](#)

PRESSURE LIMITATIONS

Steady pressure : full scale value
Cyclic pressure : 90% of full scale value
Temporary : 130% of full scale value

TEMPERATURE LIMITATIONS

Ambient Temp. : Dry : - 40 °C to + 60 °C
Liquid Filled : - 20 °C to + 60 °C
Medium Temp. : Dry : +200 °C Maximal
Liquid Filled : + 70 °C Maximal

PROTECTION TYPE (EN 60 529 / IEC 529)

IP 54 dry version / IP 65 filled version

STANDARD CONFIGURATION

CASE AND RING

Stainless Steel AISI 304, polished ring

SOCKET AND BOURDON TUBE

In AISI 316 L stainless steel, argon are welded
• 600 psi resp 40 bar and bellow = C form
• 800 psi resp 60 bar and above = helical

MOVEMENT

Stainless Steel AISI 316 L

DIAL PLATE

Aluminium alloy, black figures, white background

POINTER

Aluminium black or Micro-adjustable pointer

PROCESS CONNECTION

See dimensional data

WINDOW

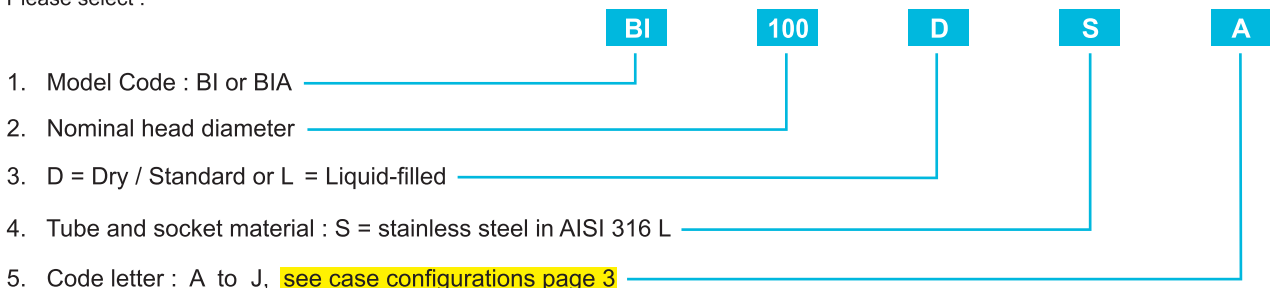
Laminated safety glass or single strength glass

SPECIAL OPTIONS

- ⇒ Process connection threads or sizes
(M20x1,5, ½" BSP, ¼" BSP, ¼" PT, others) upon request
- ⇒ Wetted parts in Monel
- ⇒ Other case filling, e.g. silicone oil
- ⇒ Special scales, such as dual ranges, special units,
fine division (with knife edge pointer) etc.
- ⇒ Oxygen service, free of grease and oil
- ⇒ Receiver gauges, 0.2 - 1 bar or 3 - 15 psi
- ⇒ Stationary red pointer on the dial plate
- ⇒ With Electrical Accessories
 - reed switches for Ø 63 mm (2½")
 - standard contacts, magnetic contacts or
inductive electronic or pneumatic limit switches

HOW TO ORDER :

Please select :



EXAMPLE OF ORDER NUMBER

Pressure Gauges, Ø 100 mm
Material all stainless steel
Range : 0-10 Kg/cm²
Bottom connection : ½" NPT
Liquid Filled
Order Number : **BI 100 LSA**

Pressure Gauges, Ø 63 mm
Material all stainless steel
Range : 0-10.000 psi/bar
Lower back connection : ¼" NPT
Liquid Filled, Panel Mounting
Order Number : **BI 063 LSJ**

Bourdon Tube Pressure Gauges

All Stainless Steel, Case With Bayonet Ring or Wide Ring

Ø 40 mm (1½"), Ø 50 mm (2"), Ø 63 mm (2½"), Ø 80 mm (3"),
Ø 100 mm (4") and Ø 160 mm (6")

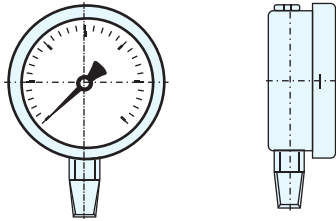
Models :
BI / BIA

CODE LETTER ACCORDING TO CASE CONFIGURATIONS AND HEAD DESIGN

BOTTOM CONNECTION

Code Letter :

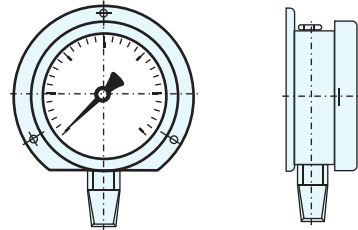
A



BOTTOM CONNECTION REAR FLANGE FOR PANEL MOUNTING

Code Letter :

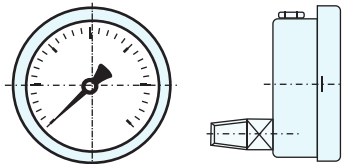
B



LOWER BACK CONNECTION

Code Letter :

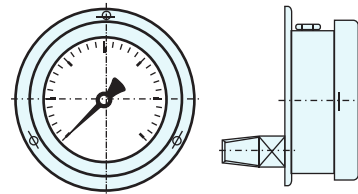
C



LOWER BACK CONNECTION REAR FLANGE FOR PANEL MOUNTING

Code Letter :

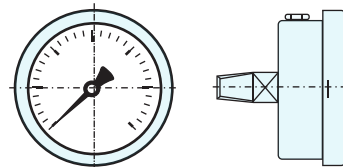
D



CENTER BACK CONNECTION

Code Letter :

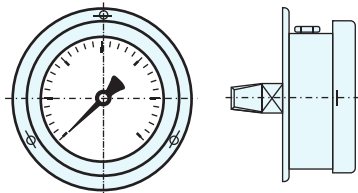
E



CENTER BACK CONNECTION REAR FLANGE FOR PANEL MOUNTING,

Code Letter :

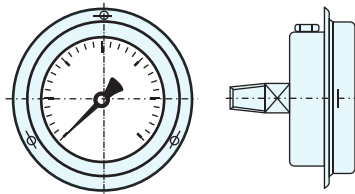
F



CENTER BACK CONNECTION FRONT FLANGE FOR PANEL MOUNTING

Code Letter :

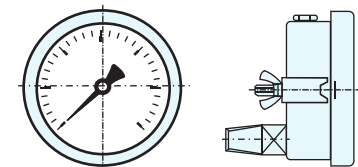
G



LOWER BACK CONNECTION U-CLAMP FOR PANEL MOUNTING

Code Letter :

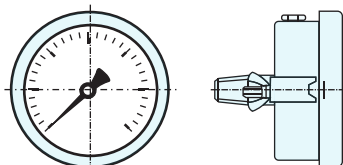
H



CENTER BACK CONNECTION U-CLAMP FOR PANEL MOUNTING

Code Letter :

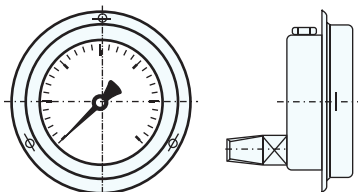
I



LOWER BACK CONNECTION, FRONT FLANGE FOR PANEL MOUNTING,

Code Letter :

J



Standard Pressure Ranges / Scale Division

NOMINAL CASE SIZES Ø 40 mm (1½"), Ø 50 mm (2") and Ø 63 mm (2½")

PRESSURE RANGES in Kg/cm ² or bar		PRESSURE RANGES in PSI		
Range	Subdivision	Range	Subdivision Ø 40 mm and Ø 50 mm	Subdivision Ø 63 mm (2½")
- 1 - 0	0.02	30" vac. - 0	1" vac.	0.5" vac.
- 1 / + 0.6	0.05	30" vac. - 15	1" vac. / 5 psi	1" vac. / 0.5 psi
- 1 / + 0.5	0.1	30" vac. - 30	2" vac. / 1 psi	1" vac. / 0.5 psi
- 1 / + 3	0.1	30" vac. - 60	5" vac. / 2 psi	2" vac. / 2 psi
- 1 / + 5	0.2	30" vac. - 100	5" vac. / 2 psi	5" vac. / 2 psi
- 1 / + 9	0.2	30" vac. - 160	10" vac. / 5 psi	5" vac. / 2 psi
- 1 / + 15	0.5	30" vac. - 200	10" vac. / 5 psi	5" vac. / 5 psi
- 1 / + 24	1	30" vac. - 300	10" vac. / 10 psi	10" vac. / 5 psi
0.2 - 1.0	0.02	3 - 15	5	2
0 - 0.6	0.02	0 - 10	0.2	0.1
0 - 1.0	0.02	0 - 15	0.5	0.25
0 - 1.6	0.05			
0 - 2.5	0.1	0 - 30	1	0.5
0 - 4	0.1	0 - 60	2	1
0 - 6	0.2	0 - 100	2	1
0 - 10	0.2	0 - 160	5	2
0 - 16	0.5	0 - 200	5	2
0 - 25	1	0 - 300	10	5
0 - 40	1	0 - 600	20	10
0 - 60	2	0 - 800	20	10
		0 - 1,000	20	10
0 - 100	2	0 - 1,500	50	25
0 - 160	5	0 - 2,000	50	20
0 - 250	10	0 - 3,000	100	50
		0 - 4,000	100	50
0 - 400	10	0 - 5,000	200	100
		0 - 6,000	200	100
0 - 600	20	0 - 10,000	200	100
0 - 1000	20	0 - 15,000	-	250

NOMINAL CASE SIZES Ø 80 mm (3"), Ø 100 mm (4") and Ø 160 mm (6")

PRESSURE RANGES in Kg/cm ² or bar		PRESSURE RANGES in PSI	
Range	Subdivision	Range	Subdivision
- 1 - 0	0.02	30" vac. - 0	0.5" vac.
- 1 / + 0.6	0.05	30" vac. - 15	1" vac. / 0.5 psi
- 1 / + 1.5	0.05	30" vac. - 30	1" vac. / 0.5 psi
- 1 / + 3	0.1	30" vac. - 60	2" vac. / 2 psi
- 1 / + 5	0.1	30" vac. - 100	5" vac. / 2 psi
- 1 / + 9	0.2	30" vac. - 160	5" vac. / 5 psi
- 1 / + 15	0.5	30" vac. - 200	5" vac. / 5 psi
- 1 / + 24	0.5	30" vac. - 300	10" vac. / 5 psi
		30" vac. - 600	10" vac. / 10 psi
0.2 - 1.0	0.02	3 - 15	0.2
0 - 0.6	0.01	0 - 10	0.1
0 - 1.0	0.02	0 - 15	0.25
0 - 1.6	0.05		
0 - 2.5	0.05	0 - 30	0.5
0 - 4	0.1	0 - 60	1
0 - 6	0.1	0 - 100	1
0 - 10	0.2	0 - 160	2
0 - 16	0.5	0 - 200	2
0 - 25	0.5	0 - 300	5
0 - 40	1	0 - 600	10
0 - 60	1	0 - 800	10
		0 - 1,000	10
0 - 100	2	0 - 1,500	25
0 - 160	5	0 - 2,000	20
0 - 250	5	0 - 3,000	50
		0 - 4,000	50
0 - 400	10	0 - 5,000	50
		0 - 6,000	100
0 - 600	10	0 - 10,000	100
0 - 1000	20	0 - 15,000	250
0 - 1600	50	0 - 20,000	200
0 - 2500	50	0 - 30,000	500
		0 - 40,000	500
0 - 4000	100	0 - 60,000	1,000

Bourdon Tube Pressure Gauges

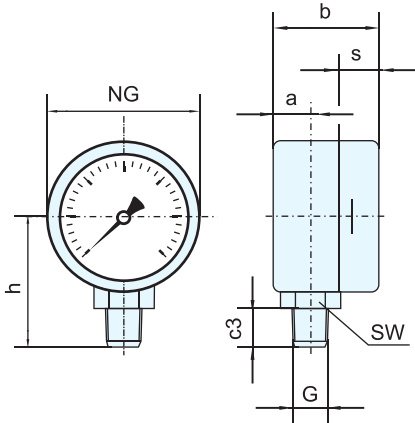
All Stainless Steel, Case With Bayonet Ring, Ø 40 mm (1½")
Standard (BI 040 DS) or Glycerine Filled (BI 040 LS)

Models :
BI 040 DS
BI 040 LS

CASE CONFIGURATIONS AND DIMENSIONAL DATA

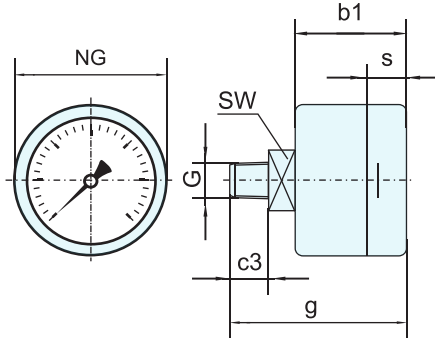
Bottom Connection

Code Letter : **A**



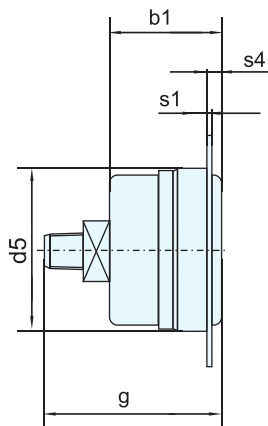
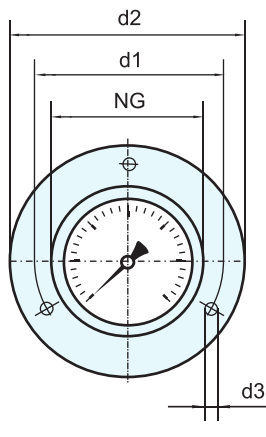
Center Back Connection

Code Letter : **E**



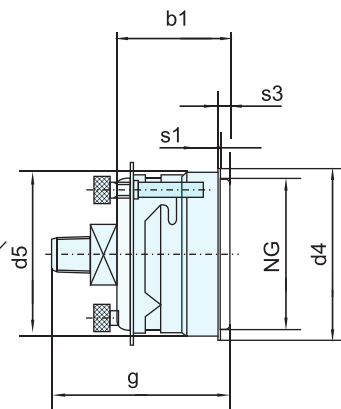
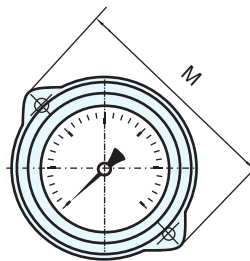
Center Back Connection Front Flange for Panel Mounting

Code Letter : **G**



Center Back Connection U-clamp for Panel Mounting

Code Letter : **I**



Dimensional Data (mm) and Weight (kg)

Nominal Case Size	a	b	b1	c3	d1	d2	d3	d4	d5	g	h±1	M	s	s1	s3	s4	SW
40 mm (1½")	10	28	30	10	51	61	3.6	46	41.8	47	34.5	58	10.6	0.8	3.3	3.3	14

Nominal Case Size	G	Weight approx	
		Dry	Liquid Filled
40 mm (1½")	1/8" NPT 1/4" NPT	0.07	0.10

Bourdon Tube Pressure Gauges

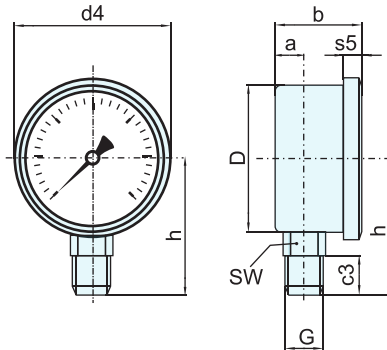
All Stainless Steel, Case With Crimped-on Ring, Ø 50 mm (2")
Standard (BI 050 DS) or Glycerine Filled (BI 050 LS)

Models :
BI 050 DS
BI 050 LS

CASE CONFIGURATIONS AND DIMENSIONAL DATA

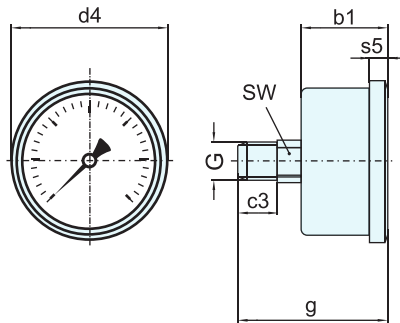
Bottom Connection

Code Letter : **A**



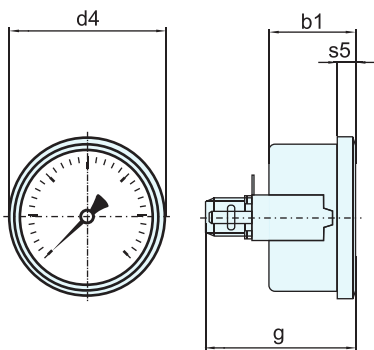
Center Back Connection

Code Letter : **E**



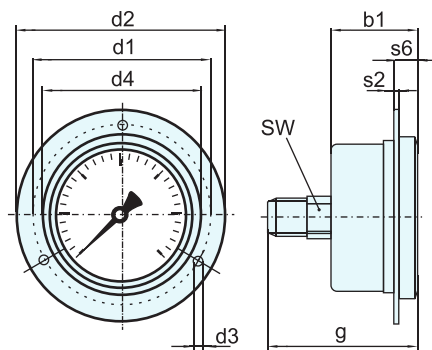
Center Back Connection U-clamp for Panel Mounting

Code Letter : **I**



Center Back Connection Front Flange for Panel Mounting

Code Letter : **G**



Dimensional Data (mm) and Weight (kg)

Nominal Case Size	D	a	b	b1	c3	d1	d2	d3	d4	g	h ± 1	s2	s5	s6	SW
50 mm (2")	48,5	10	29	31	13	60	71	3,6	54	50	45	1	6	7,5	14

Nominal Case Size	G	Weight approx	
		Dry	Liquid Filled
50 mm (2")	1/4" NPT	0.09	0.13

Recommended panel holes

Code Letter I : Ø 51 ± 0,5 mm

Code Letter G : Ø 54 ± 0,3 mm

Bourdon Tube Pressure Gauges

All Stainless Steel, Case With Bayonet Wide Ring, Ø 63 mm (2½")

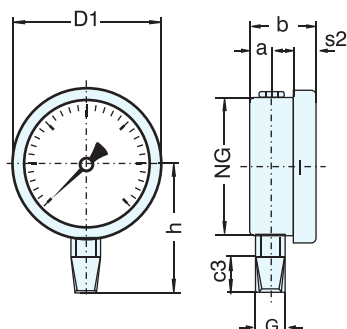
Standard (BIA 063 DS) or Glycerine Filled (BIA 063 LS)

Models :
BIA 063 DS
BIA 063 LS

CASE CONFIGURATIONS AND DIMENSIONAL DATA

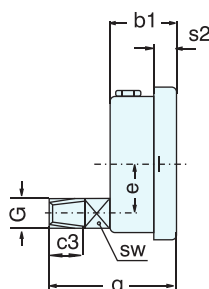
Bottom Connection

Code Letter : **A**



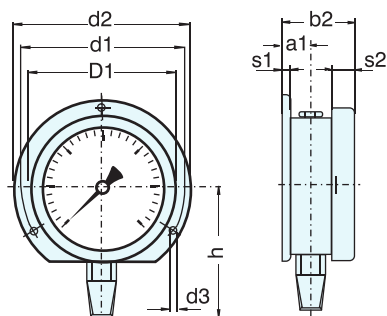
Lower Back Connection

Code Letter : **C**



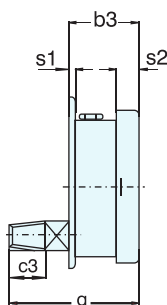
Bottom Connection Rear Flange for Panel Mounting

Code Letter : **B**



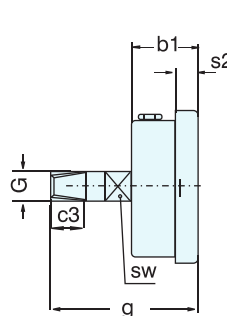
Lower Back Connection Rear Flange for Panel Mounting

Code Letter : **D**



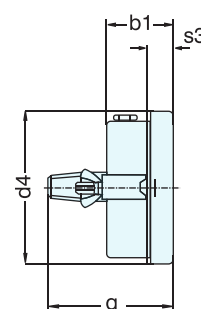
Center Back Connection

Code Letter : **E**



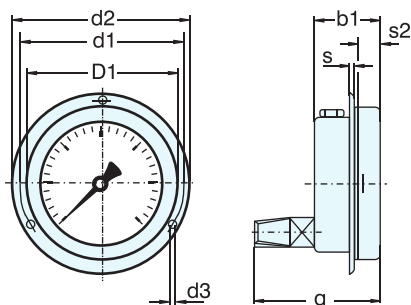
Center Back Connection U-clamp for Panel Mounting

Code Letter : **I**



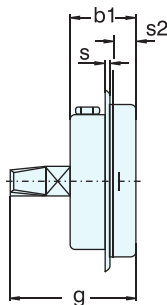
Lower Back Connection, Front Flange for Panel Mounting

Code Letter : **J**



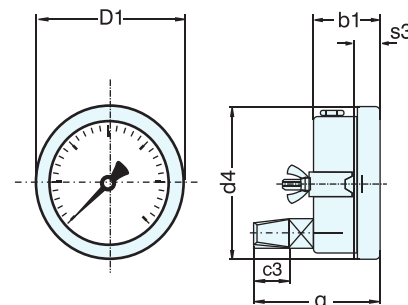
Center Back Connection, Front Flange for Panel Mounting

Code Letter : **G**



Lower Back Connection U-clamp for Panel Mounting

Code Letter : **H**



Dimensional Data (mm) and Weight (kg)

Nominal Case Size	D1	a	a1	b	b1	b2	b3	c3	d1	d2	d3	d4	e
63 mm (2½")	68.5	9.5	13.5	31	37	35	41	15	75	85	3.6	67	18

Nominal Case Size	g	h±1	s	s1	s2	s3	SW	G	Weight approx	
									Dry	Liquid Filled
63 mm (2½")	60	57	3	5	11	14	14	1/4"NPT	0.18	0.25

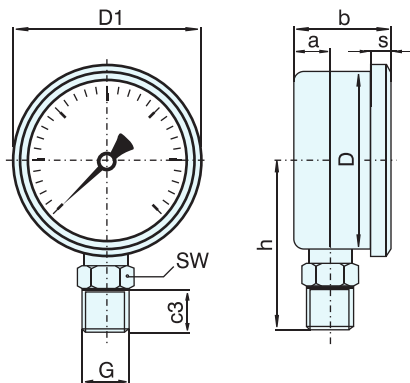
Bourdon Tube Pressure Gauges

All Stainless Steel, Case With Crimped-on Ring, Ø 80 mm (3")
Standard (BI 080 DS) or Glycerine Filled (BI 080 LS)

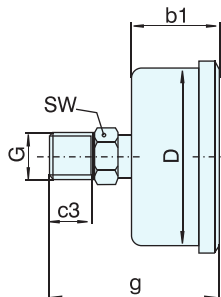
Models :
BI 080 DS
BI 080 LS

CASE CONFIGURATIONS AND DIMENSIONAL DATA

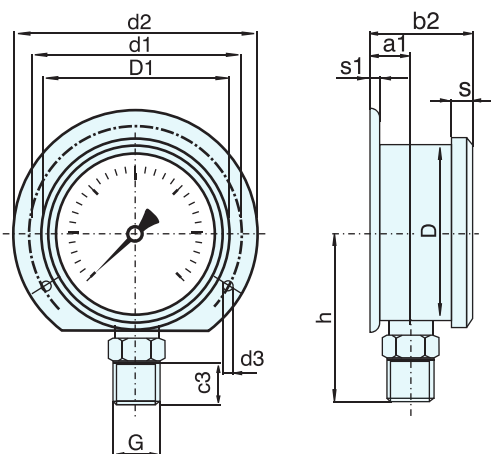
Bottom Connection,
Code Letter : **A**



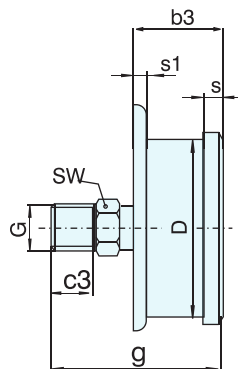
Center Back Connection,
Code Letter : **E**



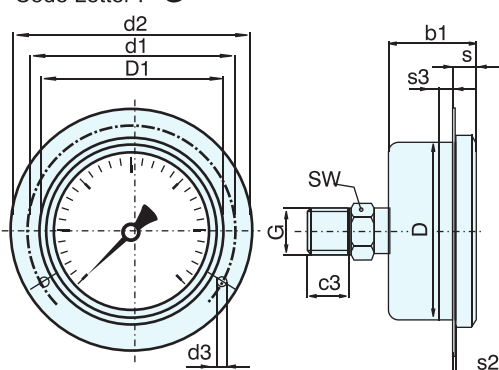
Bottom Connection,
Rear Flange for Panel Mounting
Code Letter : **B**



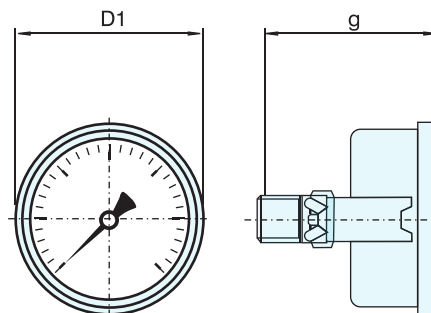
Center Back Connection,
Rear Flange for Panel Mounting
Code Letter : **F**



Center Back Connection,
Front Flange for Panel Mounting
Code Letter : **G**



Center Back Connection,
U-clamp For Panel Mounting,
Code Letter : **I**



Dimensional Data (mm) and Weight (kg)

Nominal Case Size	D	D1	a	a1	b	b1	b2	b3	c3	d1	d2	d3	h	s	s1
80 mm (3")	79	86	16	21	44	38.5	46	40.5	19	95	110	4.8	76	9	5
Nominal Case Size	s2	s3	SW	G	Weight approx										
					Dry	Liquid Filled									
80 mm (3")	1	6	22	1/2"NPT	0.34	0.50									

Recommended panel cut-out:
Code Letter I : $\varnothing 81 \pm .5$ mm
Code Letter G : $\varnothing 84 \pm .5$ mm

Bourdon Tube Pressure Gauges

All Stainless Steel, Case With Bayonet Ring

Ø 100 mm (4") and Ø 160 mm (6")

Standard (BI 100 / 160 DS) or Glycerine Filled (BI 100 / 160 LS)

Models :

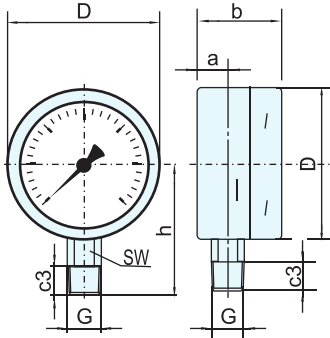
BI 100 DS/BI 160 DS

BI 100 LS/BI 160 LS

CASE CONFIGURATIONS AND DIMENSIONAL DATA

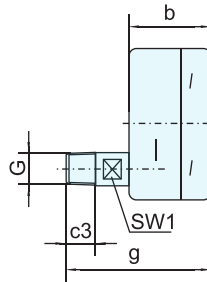
Bottom Connection

Code Letter : **A**



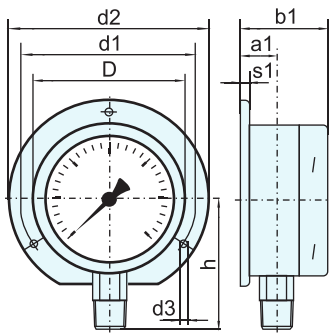
Lower Back Connection

Code Letter : **C**



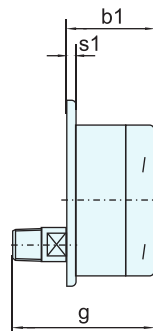
Bottom Connection, Rear Flange for Panel Mounting

Code Letter : **B**



Lower Back Connection, Rear Flange for Panel Mounting

Code Letter : **D**

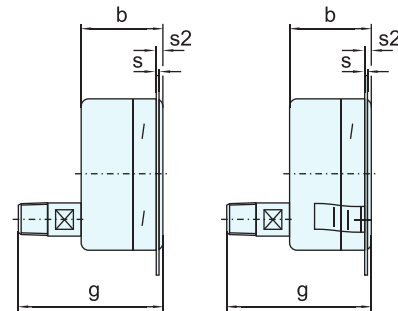


Lower Back Connection, Front Flange for Panel Mounting

Code Letter : **J**

Dry case version

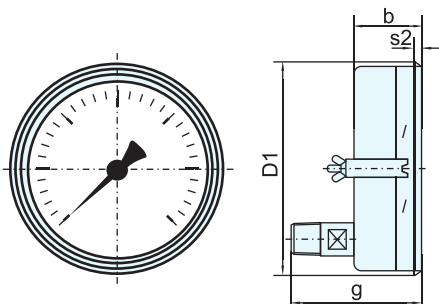
Liquid filled case version



Ø 160 mm (6"), Dry version only

Lower Back Connection, U-clamp for Panel Mounting,

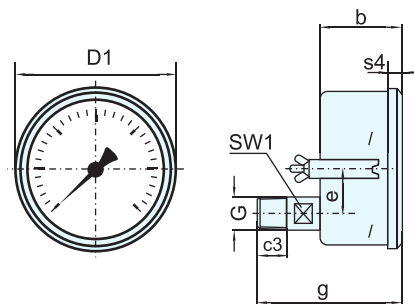
Code Letter : **H**



Ø 100 mm (4")

Lower Back Connection, U-clamp for Panel Mounting, Crimped-on Ring,

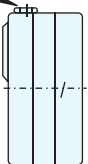
Code Letter : **H**



Safety blow-outs :

Top blow-out device for Ø 160 mm (6"), Liquid

Blow-out Ø 40 mm (1.57") for Ø 100 mm (4")
Dry and Liquid filled
Also for Ø 160 mm (6"), Dry



Dimensional Data (mm) and Weight (kg)

Nominal Case Size	D	D1	a	a1	b	b1	c3	d1	d2	d3	e	g	h
100 mm (4")	101	106	20	23.5	55	58.5	19	116	132	4.8	30	96	84
160 mm (6")	161	167	15.5	19	51	54		178	196	5.8	52	91.5	114

Nominal Case Size	s	s1	s2	s3	s4	SW	SW1	G	Weight approx	
									Dry	Liquid Filled
100 mm (4")	2	6	6	1	10	22	17	1/2" NPT	0.60	0.95
160 mm (6")									1.10	1.95

Bourdon Tube Pressure Gauges

All Stainless Steel, Case With Bayonet Wide Ring

Ø 100 mm (4") and Ø 160 mm (6")

Standard (BIA 100 / 160 DS) or Glycerine Filled (BIA 100 / 160 LS)

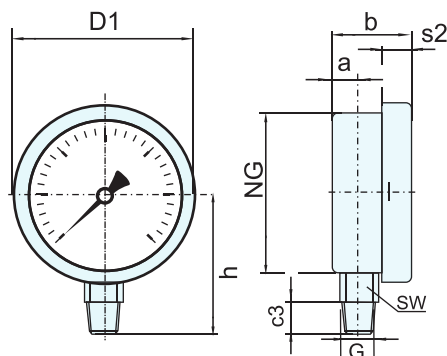
Models :

BIA 100 DS / BIA 160 DS
BIA 100 LS / BIA 160 LS

CASE CONFIGURATIONS AND DIMENSIONAL DATA

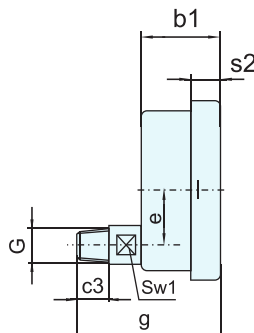
Bottom Connection

Code Letter : **A**



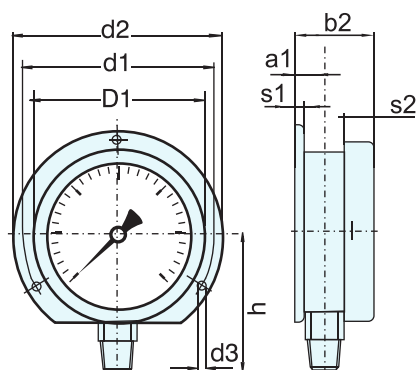
Lower Back Connection

Code Letter : **C**



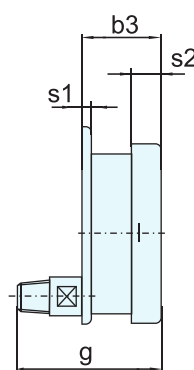
Bottom Connection, Rear Flange for Panel Mounting

Code Letter : **B**



Lower Back Connection, Rear Flange for Panel Mounting

Code Letter : **D**



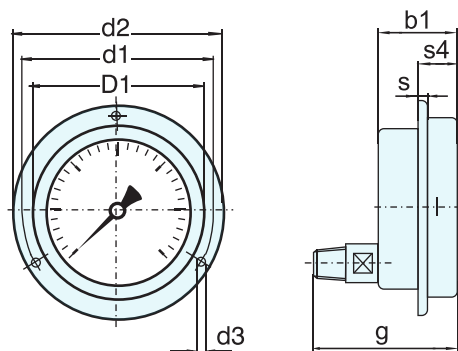
Safety blow-outs :

Liquid case : top blow-out assembly

Dry case : 1" blow-out in the back

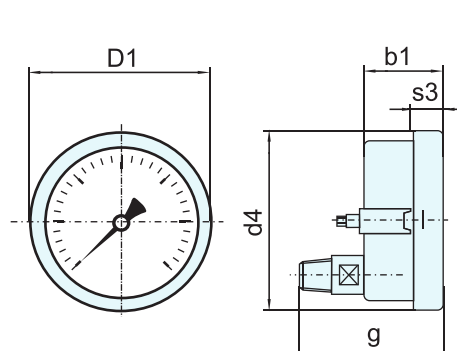
Lower Back Connection, Front Flange for Panel Mounting

Code Letter : **J**



Lower Back Connection, U-clamp for Panel Mounting

Code Letter : **H**



Dimensional Data (mm) and Weight (kg)

Nominal Case Size	D1	a	a1	b	b1	b2	b3	c3	d1	d2	d3	d4	e	g
100 mm (4")	112	16	18	49	49	51	51	21.5	116	132	4.8	110	34	90
160 mm (6")	173			50	56	52	58		178	196	5.8	172	52	97

Nominal Case Size	h±1	s	s1	s2	s3	s4	SW1	G	Weight approx	
									Dry	Liquid Filled
100 mm (4")	84	5	5.5	18	20	24	17	1/4" NPT 1/2" NPT	0.55	0.85
160 mm (6")	114	4	6	17	22				1.00	1.85

Bourdon Tube Pressure Gauges

Square Case With Front Frame,

□ 96 mm and □ 144 mm

Wide Rim (BIQW) or Narrow Rim (BIQN)

Models :
BIQW / BIQN

APPLICATIONS

For fluid and gaseous, aggressive media which are not highly viscous and do not tend to polymerize. The medium must be compatible with the wetted parts; for various applications where a built-in square case is required, e.g. switchboard, electrical control panels, or control boxes

NOMINAL CASE SIZES

96 x 96 mm and 144 x 144 mm

ACCURACY CLASS

1.0 according to EN 837-1

(i.e. max. $\pm 1.0\%$ of full scale value)

PRESSURE RANGES (EN / ASME 837)

0-0.6 up to 0-1000 bar (0-10 up to 0-15.000 psi)

also all standard vacuum and compound ranges

STANDARD CONFIGURATION

CASE

Square case with black front frame (carbon steel), model BIQN narrow rim, model BIQW with wide rim, clamp clip for panel mounting

CONNECTION

$\frac{1}{2}$ " NPT lower back connection (standard)

WETTED PARTS

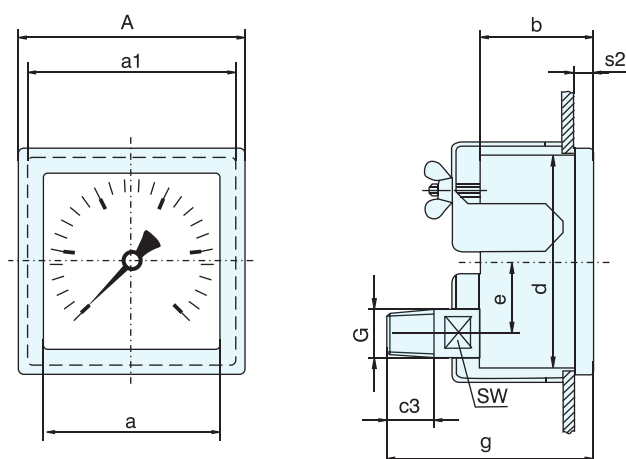
Version B : Socket = brass

Bourdon Tube = bronze

Version S : Socket = Stainless steel 316 L

Bourdon Tube = Stainless steel 316 L

CASE CONFIGURATIONS AND DIMENSIONAL DATA



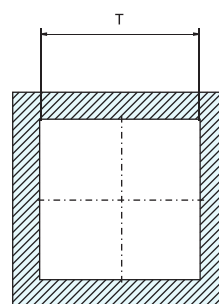
OPTIONAL SPECIAL CONFIGURATIONS

- ⇒ $\frac{1}{4}$ " NPT or $\frac{1}{2}$ " BSP - Connection (other connection threads upon request)
- ⇒ Special scales or dual ranges
- ⇒ Receiver gauge 0.2-1 bar or 3-15 psi
- ⇒ **Electrical accessories upon request**

HOW TO ORDER

Please select :

- BIQN 96 D S
1. Model code : BIQN or BIQW
 2. Case size : 96 or 144 mm
 3. D = Dry / Standard
 4. Tube and socket material :
S = Stainless steel AISI 316 L
B = Brass



Opening hole for panel mounting

Dimensional Data (mm) and Weight (kg)

Nom. Size A	a ¹⁾	a1 ²⁾	b	c3	d	e	G	g	s2	SW	T	Weight (approx.)
96	75	88			90	30					92	0.75
144	116	134	48	19	136	52	1/2" NPT	87	8	17	138	1.30
192	164	-			184						186	2.00

1) model BIQW

2) model BIQN

Bourdon Tube Pressure Gauges

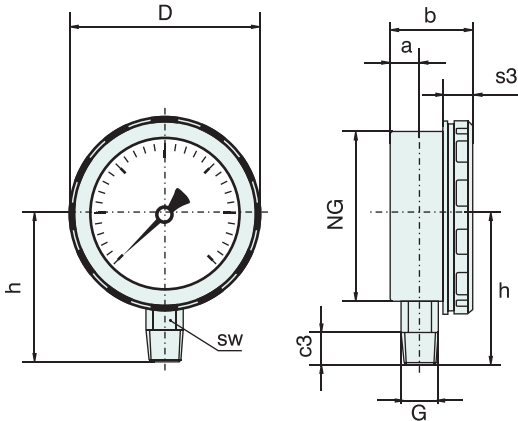
Phenolic With Screw Ring Case, Stainless Steel Tube and Socket
 Ø 63 mm (2½") and Ø 100 mm (4")
 Standard (BIP 063 / 100 DS) or Glycerine Filled (BIP 063 / 100 LS)

Models :
BIP 063 / 100 DS
BIP 063 / 100 LS

CASE CONFIGURATIONS AND DIMENSIONAL DATA

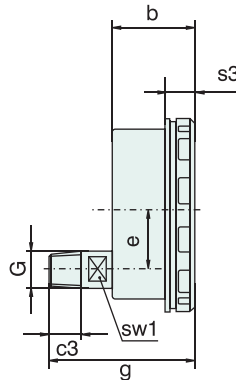
Bottom Connection

Code Letter : **A**



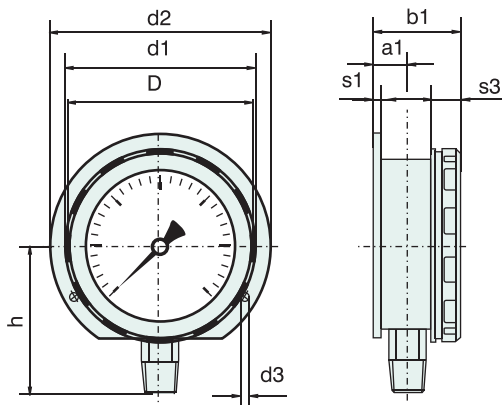
Lower Back Connection

Code Letter : **C**



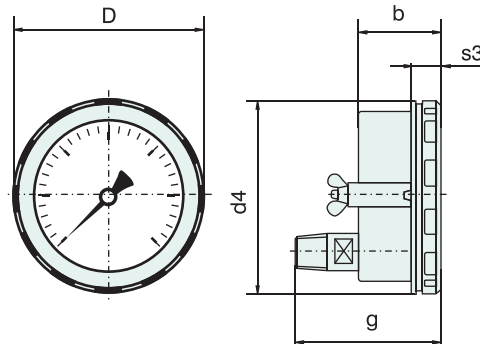
Bottom Connection Rear Flange for Panel Mounting

Code Letter : **B**



Lower Back Connection U-clamp for Panel Mounting

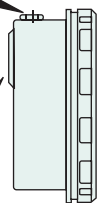
Code Letter : **H**



Safety blow-outs :

Liquid case : top blow-out assembly

Dry case : 1" blow-out in the back



Dimensional Data (mm) and Weight (kg)

Nominal Case Size	NG	a	a1	b	b1	c3	D	d1	d2	d3	d4	e
63 mm (2½")	63	10	13	32	35	13	75	75	85	3.6	73	18
100 mm (4")	100	18	22	49	52	19	113	116	132	4.8	110	34

Nominal Case Size	G	g	h±1	s1	s3	SW	Weight approx	
							Dry	Liquid Filled
63 mm (2½")	1/4" NPT	56	54	3	12	14	0.14	0.20
100 mm (4")	1/2" NPT	86.5	84	5	16	22	0.45	0.75

Solid-front Safety Pressure Gauges

Phenolic Case Size 4½", Accuracy 0,5% of F.S.

Standard (BIP115 DSA) or Glycerine Filled (BIP 115 LSA)

Models :
BIP 115 DSA
BIP 115 LSA

APPLICATIONS

For fluid and gaseous, aggressive media which are not highly viscous and do not tend to polymerize; especially for chemical and oil-processing industries acc. to US-standards.

NOMINAL HEAD DIAMETERS

Ø 4½"

ACCURACY CLASS

Grade 2A acc. to ASME B40.1 Standard (± .5% of full span)

PRESSURE RANGES (EN / ASME 837)

0 ... 10 up to 0 ... 15,000 psi resp.

0 ... 0.6 up to 0 ... 1000 bar,

also all vacuum and compound ranges

PRESSURE LIMITATIONS

Steady pressure : full scale value

Cyclic pressure : 90% of full scale value

Temporary : 130% of full scale value

TEMPERATURE LIMITATIONS

Ambient Temp. : Dry : - 40 °C to + 60 °C

Liquid Filled : - 20 °C to + 60 °C

Medium Temp. : Dry : +100 °C Maximal

Liquid Filled : + 70 °C Maximal

PROTECTION TYPE (EN 60 529 / IEC 529)

IP 65

STANDARD CONFIGURATION

CASE AND RING

Phenolic Black.

SOCKET AND BOURDON TUBE

In AISI 316 L stainless steel, argon are welded

• 600 psi resp 40 bar and bellow = C form

• 800 psi resp 60 bar and above = helical

MOVEMENT

Stainless Steel AISI 316 L

DIAL PLATE

Aluminium alloy, black figures, white background

POINTER

Aluminium alloy, Micro-adjustable pointer

PROCESS CONNECTION

1/2" NPT bottom connection

WINDOW

Laminated safety glass

SAFETY FEATURES

Solid front between measuring system and dial with full blow-out safety back.

Should the bourdon tube rupture, the entire case back separates, allowing full relief.

BLOW-OUT BACK

Same material as case ring, hinger for safety (will not become a projectile)



COMPENSATION DIAPHRAGM

Elastomer (ready for filling, no fill kit required)

OPTIONAL SPECIAL CONFIGURATIONS

⇒ 1/4" NPT or 1/2" BSP - Connection

(other connection threads upon request)

⇒ Wetted parts **MONEL** model BIPS 115 DSA or BIPS 115 LSA

⇒ Other case filling, e.g. silicone oil, other upon request

⇒ Special scales or dual ranges

⇒ Receiver gauge 0.2-1 bar or 3-15 psi

⇒ Oxigene service, free of grease and oil

⇒ Electrical accessories upon request

⇒ **Capsule Gauges for Low Ranges**

Scale in mmH2O or mbar

HOW TO ORDER

Please select :

- | | | | | | |
|--|------------|------------|----------|----------|----------|
| | BIP | 115 | D | S | A |
| 1. Model code : BIP | _____ | _____ | _____ | _____ | _____ |
| 2. Nominal head diameter 4 ½" | _____ | _____ | _____ | _____ | _____ |
| 3. D = Dry / Standard, L = Liquid filled | _____ | _____ | _____ | _____ | _____ |
| 4. Tube and socket material : | _____ | _____ | _____ | _____ | _____ |
| S = Stainless steel AISI 316 L | _____ | _____ | _____ | _____ | _____ |
| 5. Code letter for bottom connection | _____ | _____ | _____ | _____ | _____ |

EXAMPLE OF ORDER NUMBER

Pressure Gauges, Ø 4 ½"

Material case in black phenol

Range : 0- 1000 psi

Bottom connection : ½" NPT

Liquid filled

Order Number : **BIP 115 LSA**

Solid-front Safety Pressure Gauges

Phenolic Case Size 4½", Accuracy 0,5% of F.S.

Standard (BIP115 DSA) or Glycerine Filled (BIP 115 LSA)

Models :
BIP 115 DSA
BIP 115 LSA

Standard Pressure Ranges / Scale Division

PRESSURE - SINGLE SCALE RANGES in PSI

Range	Dial Graduations	
	minor graduation	figure internal
0/15	0,1	1
0/30	0,2	5
0/60	0,5	5
0/100	1	10
0/160	1	20
0/200	2	20
0/300	2	50
0/400	5	50
0/600	5	50
0/800	10	100
0/1000	10	100
0/1500	10	200
0/2000	20	200
0/3000	20	500
0/5000	50	500
0/10000	100	1000
0/20000	200	2000

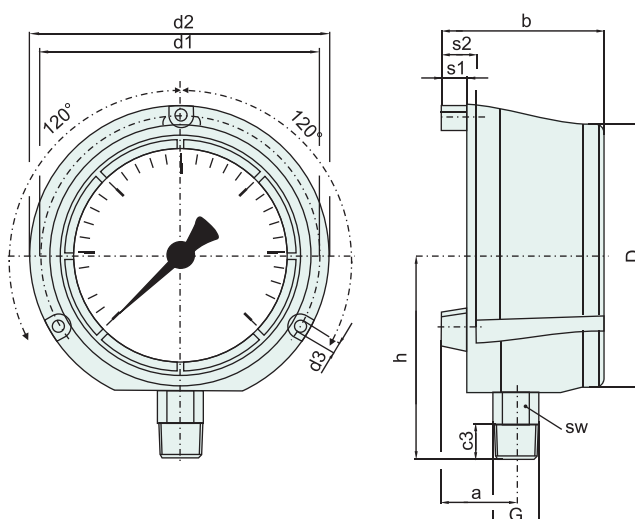
PRESSURE - SINGLE SCALE RANGES in Kg/cm² or bar

Range	Dial Graduations	
	minor graduation	figure internal
0/1	0.01	0.1
0/1.6	0.02	0.2
0/2.5	0.02	0.5
0/4	0.05	0.5
0/6	0.05	0.5
0/10	0.1	1
0/16	0.2	2
0/25	0.2	5
0/40	0.5	5
0/60	0.5	5
0/100	1	10
0/160	2	20
0/250	2	50
0/400	5	50
0/600	5	50
0/1.000	10	100
0/1.600	20	200

Note : For standard ranges vacuum and compounds
 see page 4

CASE CONFIGURATIONS AND DIMENSIONAL DATA

Bottom Connection,
 Rear mounting flange integrated to the case



Dimensional Data (mm) and Weight (kg)

Nominal Case Size	a	b	c3	D	d1	d2	d3	h	s1	s2	SW	G	Weight approx	
													Dry	Liquid Filled
4 1/2"	37.5	80	19	129	137	148	6,1	102	12.5	17	22	1/2" NPT	0.85	1.25