

Pressure gauge with plastic case

Designed to monitor pressure in systems not subjected to vibrations. Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for pneumatic circuits, filters, pressure regulators...

Manufactured according to **EN 837-1** standards.

STANDARD PARAMETERS

Design: **EN 837-1**

Closing: Adjusted display

Mounting: See attached diagram **A** or **B**

Threaded connection: **Ø40**: 1/8" BSPT; **Ø50-Ø63**: 1/4" BSPT (**UNE-EN 10226-1**)

IP protection: IP44 (**EN 60529** / **IEC 529**)

Accuracy: Class 2.5

Pressure limits:

Static: 3/4 end of scale

Oscillating: 3/4 end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+60°C

Fluid: 60°C

Pressure range: **-1...0...25 Bar**

Scale: Bar/Psi

Subdivision: According to standard **EN 837-1**

Sensor: Bourdon tube ("C" form)

Position pointer: Red pointer (only for ranges 0+4/0+6/0+12)

MATERIALS

Case: Polyethylene

Bourdon tube and moving parts: Copper alloy

Threaded connection: Brass

Display: Acrylic

Dial: White laquered aluminum

Pointer: Black laquered aluminum

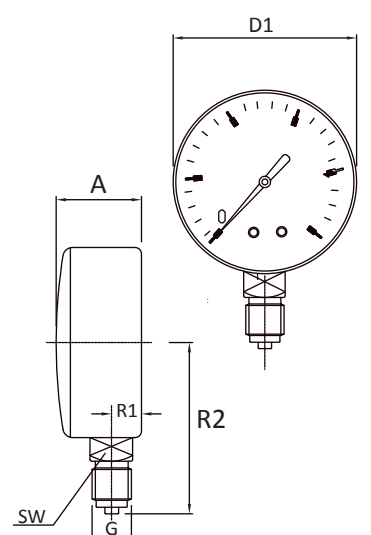
Welding: Cu-Sn

Red pointer: Red Plastic

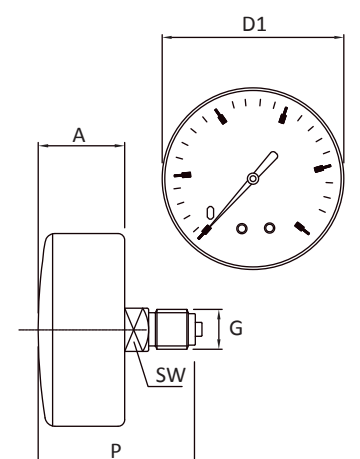
Application:

- Compressed air
- Compressor
- Air conditioning
- Hydraulics
- Pneumatic

A Bottom



B Back



DIMENSIONS (mm)									WEIGHT (g)
DN	Mounting	R1	A	D1	G	R2	SW	P	
Ø40	A	8	25	40	1/8" BSPT	37	11	-	40
Ø40	B	-	25	40	1/8" BSPT	-	11	39	45
Ø50	A	8	27	53	1/4" BSPT	37	11	-	57
Ø50	B	-	27	53	1/4" BSPT	-	11	47	73
Ø63	A	8	27	63	1/4" BSPT	37	11	-	65
Ø63	B	-	27	63	1/4" BSPT	-	11	47	79

How to order

1. Case diameter

Ø40 Ø50 Ø63

2. Pressure range (Bar)

-1+0 0+2.5 0+6 0+12 0+25
0+1.6 0+4 0+10 0+16

3. Pressure Unit

Bar/Psi

4. Mounting

A **B**

5. Threaded connection

1/4" BSPT 1/8" BSPT

6. Connection material

Brass

7. Calibration certificate traceable to ENAC

7 points certificate
Without certificate

M0101 -

1	2	3	4	5	6	7

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Pressure gauge with case in carbon steel

Designed to monitor pressure in systems not subjected to vibrations. Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for pneumatic and hydraulic circuits.

Manufactured according to **EN 837-1** standards.

STANDARD PARAMETERS

Design: **EN 837-1**

Closing: Adjusted

Mounting: See attached diagram **A** or **B**

Threaded connection: **Ø63**: ¼" BSP; **Ø75**: ⅜" BSP; **Ø100**: ½" BSP (UNE-EN 10226-1)

IP protection: IP54 (EN 60529 / IEC 529)

Accuracy: **Ø63-Ø75**: Class 2.5 / **Ø100**: Class 1.6

Pressure limits:

Static: ¾ end of scale

Oscillating: ⅔ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+80°C

Fluid: 80°C

Range: **-1...0...600 Bar**

Scale: Bar/Psi

Subdivision: According to standard **EN 837-1**

Sensor element: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

MATERIALS

Case: Carbon steel painted in black

Bourdon tube and moving parts: Copper Alloy

Threaded connection: Brass

Display: Glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

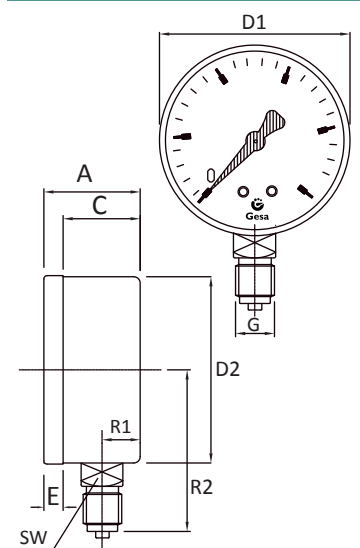
Welding: P<250 Bar: Cu-Sn; P>250 Bar: Cu-Ag



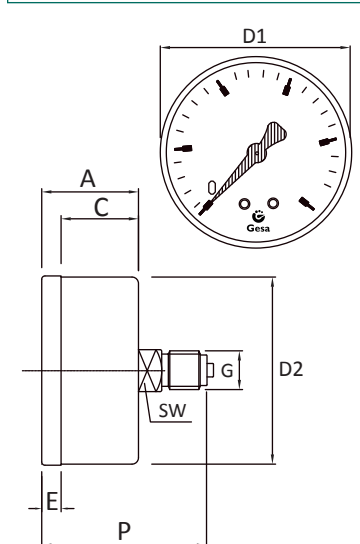
Application:

- Compressed air
- Compressor
- Air conditioning
- Hydraulics
- Pneumatics

A Bottom



B Back



DIMENSIONS (mm)

WEIGHT(g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P
Ø63	A	10	28	17	40	10	62	¼" BSP	51	14	-
Ø63	B	-	28	17	40	10	62	¼" BSP	-	14	46
Ø75	A	10	30	19	53	11	74	⅜" BSP	60	17	-
Ø75	B	-	30	19	53	11	74	⅜" BSP	-	17	55
Ø100	A	16	45	23	63	22	98	½" BSP	83	17	-
Ø100	B	-	45	23	63	22	98	½" BSP	-	17	75

How to order

1. Case diameter

Ø63 Ø75 Ø100

2. Pressure range (Bar)

-1+0 -1+1.5 -1+5 -1+12 -1+24 0+1 0+2.5 0+6 0+16 0+40 0+100 0+250 0+400 0+1000
 -1+0.5 -1+3 -1+9 -1+15 0+0.6 0+1.6 0+4 0+10 0+25 0+60 0+160 0+315 0+600

3. Pressure scale

Bar/Psi

4. Mounting

A **B**

5. Threaded connection

¼" BSP ½" BSP ¾" BSP
 ¼" BSPT ½" BSPT ¾" BSPT

6. Connection material

Brass

7. Calibration certificate traceable to ENAC

7 points certificate
 Without certificate

M0201 -

1	2	3	4	5	6	7

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Especially designed for difficult operating conditions like vibrations or rapid pressure changes. Suitable for use in systems with low viscosity that do not attack copper alloys such as cooling systems.

Manufactured according to **EN 837-1** standards.

STANDARD PARAMETERS

Design: **EN 837-1**

Closing: Sealed ring

Mounting: See attached diagram **A**, **B**, **C** or **D**

Threaded connection: **Ø63**: ¼" BSP; **Ø80**: ¾" BSP; **Ø100**: ½" BSP (**UNE-EN 10226-1**)

IP protection: IP65 (**EN 60529** / **IEC 529**)

Accuracy: Class 1.6

Pressure limits:

Static: ¾ end of scale

Oscillating: ¾ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -20+50°C

Fluid: Brass connection: 80°C / Steel connection: 100°C

Range: **-1...0...1000 Bar**

Scale: **Bar/Psi, Bar or cmHg**

Subdivision: According to standard **EN 837-1**

Antivibration fluid: Glycerine 99.8%

Sensor: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: **Copper Alloy** or **AISI 316 Stainless steel**

Threaded connection: **Brass** or **AISI 316 Stainless steel**

Display: Polycarbonate

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: **P<250 Bar**: Cu-Sn; **P>250 Bar**: Cu-Ag / TIG Welding

Overtemperature relief plug: Neoprene

Application:

- Ship supplies
- Irrigation systems
- Air conditioning
- Food industry
- Pneumatics
- Hydraulics

DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	B1	B2	B3	
Ø63	A/C	10	29	23	68	6	61	¼ BSP	56	14	-	86	80	3,5	188
Ø63	B/D	-	29	23	68	7	61	¼ BSP	-	14	58	86	80	3,5	184
Ø80	A/C	10	30	22	88	8	80	¾ BSP	60	17	-	112	104	5	335
Ø80	B/D	-	30	22	88	8	80	¾ BSP	-	17	61	112	104	5	299
Ø100	A/C	16	37	29	109	8	99	½" BSP	83	21	-	132	124	5	550
Ø100	B/D	-	37	29	109	8	99	½" BSP	-	21	77	132	124	5	547

How to order

1. Case diameter

Ø63 Ø80 Ø100

2. Pressure range (Bar)

-1+0 -1+1.5 -1+5 -1+12 -1+24 0+1 0+2.5 0+6 0+16 0+40 0+100 0+250 0+400 0+1000

Ø63 Ø80 Ø100

-1+0.5 -1+3 -1+9 -1+15 0+0.6 0+1.6 0+4 0+10 0+25 0+60 0+160 0+315 0+600 **-76+0**

3. Pressure scale

Bar Bar/Psi cmHg

4. Mounting

A **B** **C** **D**

5. Threaded connection

¼" BSP ½" BSP ¾" BSP
¼" BSPT ½" BSPT ¾" BSPT
¼" SAE 7/16" SAE

6. Connection material

Brass
AISI 316 Stainless steel

7. Antivibration fluid

Glycerine 99.8%

8. Calibration certificate traceable to ENAC

7 Points Certificate
Without certificate

M0301 -

1	2	3	4	5	6	7	8
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Pressure gauge in stainless steel with bayonet closing

Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for difficult conditions of use, as there are vibrations or quick changes of pressure. Manufactured according to standard **EN 837-1**

STANDARD PARAMETERS

Design: **EN 837-1**

Closing: Bayonet

Mounting: See attached diagram **A, B, C** or **D**

Threaded connection: **Ø63**: ¼" BSP; **Ø100-Ø150**: ½" BSP (**UNE-EN 10226-1**)

IP protection: IP65 (**EN 60529 / IEC 529**)

Accuracy: **Ø63**: Class 1.6; **Ø100-Ø150**: Class 1.0

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: 1.3 end of scale for a short period of time

Temperature limits:

Environment: -20+50°C (Glycerine) / -20+80°C (dry)

Fluid: Brass connection: 80°C / Steel connection: 100°C (Glycerine), 200°C (dry)

Range: **-1...0...1000 Bar**

Scale: **Bar/Psi, Bar or cmHg**

Subdivision: According to standard **EN 837-1**

Antivibration fluid: **Glycerine 99.8% or dry**

Pointer: Micrometric adjustment

Sensor element: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

Pressure relief system: Blow-out disc

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: **Copper Alloy** or **AISI 316 Stainless steel**

Threaded connection: **Brass** or **AISI 316 Stainless steel**

Display: Safety glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

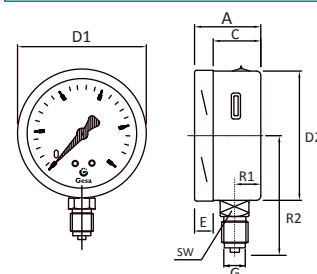
Welding: P<250 Bar: Cu-Sn; P>250 Bar: Cu-Ag / TIG Welding

Blow-out disc and overtemperature relief plug: Neoprene

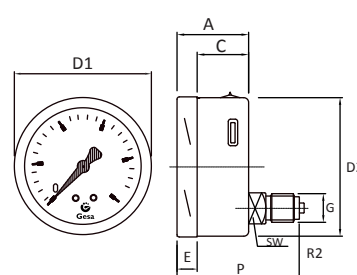
Application:

- Ship supplies
- Irrigation systems
- Air conditioning
- Food industry
- Pneumatics
- Hydraulics

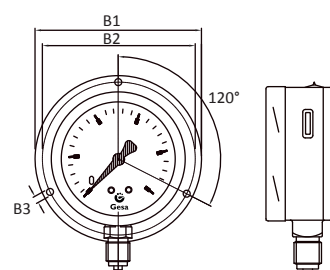
A Bottom



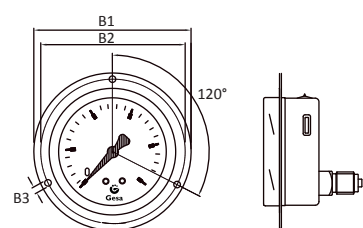
B Back



C Bottom with back flange



D Back with frontal flange



DIMENSIONS (mm)															WEIGHT (g)	
DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	B1	B2	B3	Without Glycerine	With Glycerine
ø63	A/C	10	34	22	64	12	62	¼ BSP	55	14	-	86	80	3,5	158	230
ø63	B/D	-	34	22	64	12	62	¼ BSP	-	14	56	86	80	3,5	157	228
ø100	A/C	16	49	32	101	17	99	½" BSP	83	22	-	132	124	5	533	867
ø100	B/D	-	49	32	101	17	99	½" BSP	-	22	86	132	124	5	550	890
ø150	A/C	16	50	32	149	18	146	½" BSP	113	22	-	192	184	5	950	1712
ø150	B/D	-	50	32	149	18	146	½" BSP	-	22	87	192	184	5	824	1750

How to order

1. Case diameter

Ø63 Ø100 Ø150

2. Pressure range (Bar)

-1+0 -1+1.5 -1+5 -1+12 -1+24 0+1 0+2.5 0+6 0+16 0+40 0+100 0+250 0+400 0+1000
 -1+0.5 -1+3 -1+9 -1+15 0+0.6 0+1.6 0+4 0+10 0+25 0+60 0+160 0+315 0+600 **-76+0**

3. Pressure scale

Bar Bar/Psi cmHg

4. Mounting

A **B** **C** **D**

5. Threaded connection

¼" BSP ½" BSP ¾" BSP
 ¼" BSPT ½" BSPT ¾" BSPT
 ¼" SAE 7/16" SAE M20x150

6. Connection material

Brass
 AISI 316 Stainless steel

7. Antivibration fluid

Glycerine 99.8%
 Without fluid

8. Calibration certificate traceable to ENAC

7 Points Certificate
 Without certificate

M0304 -

1	2	3	4	5	6	7	8
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Application:

- Gas facilities
- Low pressure

Capsule pressure gauges with elastic element and moving parts in copper alloy manufactured according to **EN 837-3** standards.

Especially suitable for gaseous media not subjected to vibrations with a maximum temperature not higher than 100°C.

STANDARD PARAMETERS

Design: **EN 837-3**

Closing: Bayonet

Mounting: See attached diagram **A**

Threaded connection: **Ø63**: ¼" BSP; **Ø100**: ½" BSP (UNE-EN 10226-1)

IP protection: IP43 (EN 60529 / IEC 529)

Accuracy: **Ø63**: Class 1.6 / **Ø100**: Class 1.0

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: Full scale

Temperature limits:

Environment: -40+80°C

Fluid: 100°C

Range: **0...600** mbar

Scale: mbar

Subdivision: According to standard **EN 837-3**

Sensor element: Capsule

Pointer: Micrometric adjustment

MATERIALS

Case: Carbon steel painted in black

Capsule and moving parts: Copper Alloy

Threaded connection: Brass

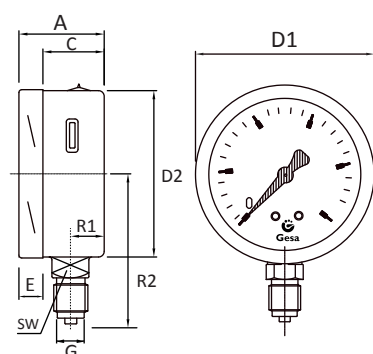
Display: **Ø63**: Acrylic (Adjusted closing)/ **Ø100**: Glass (Bayonet closing)

Dial: White laquered aluminum

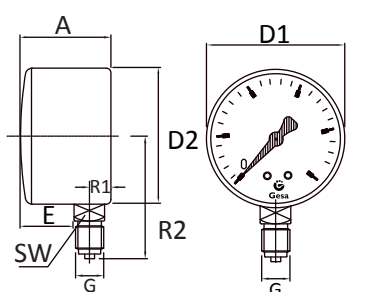
Pointer: Black laquered aluminum

Welding: Cu-Sn

A Bottom Ø100



A Bottom Ø63



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø63	A	11	38	-	66	22	66	¼ BSP	57	14	214
Ø100	A	16	49	32	101	17	99	½" BSP	83	22	559

How to order

1. Case diameter

Ø63 Ø100

2. Pressure range (Bar)

0+25 0+60 0+160 0+400
0+40 0+100 0+250 0+600

3. Pressure scale

mbar

4. Mounting

A

5. Threaded connection

¼" BSP ½" BSP

6. Connection material

Brass

7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

1	2	3	4	5	6	7
M0401 -						

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Capsule pressure gauges with elastic element and moving parts in copper alloy manufactured according to **EN 837-3** standards.

Especially suitable for gaseous media not subjected to vibrations with a maximum temperature not higher than 100°C.

STANDARD PARAMETERS

Design: **EN 837-3**

Closing: Ring screwed to case

Mounting: See attached diagram **A**

Threaded connection: **Ø63**: ¼" BSP; **Ø100**: ½" BSP (UNE-EN 10226-1)

IP protection: IP44 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: Full scale

Temperature limits:

Environment: -40+80°C

Fluid: 100°C

Range: **0...2000** mbar

Scale: mbar

Subdivision: According to standard **EN 837-3**

Sensor element: Capsule

MATERIALS

Case: Zincked carbon steel with screwed closing

Capsule and moving parts: Copper Alloy

Threaded connection: Brass

Display: Glass

Dial: White laquered aluminum

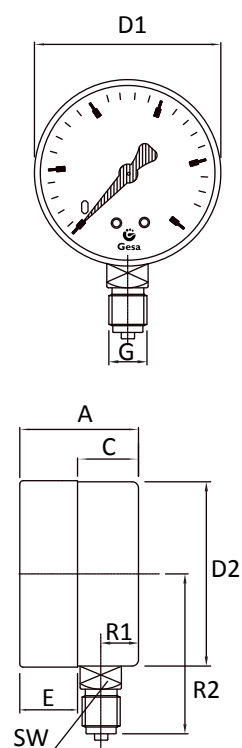
Pointer: Black laquered aluminum

Welding: Cu-Sn

Application:

- Gas facilities
- Low pressure

A Bottom



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø63	A	12	38	16	64	22	62	¼ BSP	59	11	198
Ø100	A	15	64	26	107	38	105	½" BSP	90	22	738

How to order

1. Case diameter

Ø63 Ø100

2. Pressure range (Bar)

0+25
0+40

0+60
0+100

0+160
0+250

0+400
0+600

0+1000
0+2000

3. Pressure scale

mbar

4. Mounting

A

5. Threaded connection

¼" BSP

½" BSP

6. Connection material

Brass

7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0402 -

1	2	3	4	5	6	7
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Capsule pressure gauges with elastic element and moving parts in copper alloy manufactured according to **EN 837-3** standards.

Especially suitable for gaseous media not subjected to vibrations with a maximum temperature not higher than 100°C.

STANDARD PARAMETERS

Design: **EN 837-3**

Closing: Bayonet

Mounting: See attached diagram **A**

Threaded connection: **Ø63**: ¼" BSP; **Ø100**: ½" BSP (**UNE-EN 10226-1**)

IP protection: IP65 (**EN 60529** / **IEC 529**)

Accuracy: **Ø63**: Class 1.6 / **Ø100**: Class 1.0

Pressure limits:

Static: Full scale

Oscillating: 0.9 end of scale

Maximum: Full scale

Temperature limits:

Environment: -40+80°C

Fluid: 100°C

Range: **0...600** mbar

Scale: mbar

Subdivision: According to standard **EN 837-3**

Sensor element: Capsule

Pointer: Micrometric adjustment

MATERIALS

Case: AISI 304 Stainless steel with bayonet closing

Capsule and moving parts: Copper Alloy

Threaded connection: Brass

Display: Safety glass

Dial: White laquered aluminum

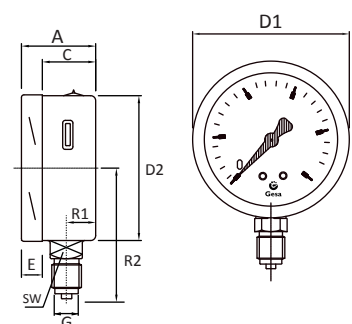
Pointer: Black laquered aluminum

Welding: Cu-Sn

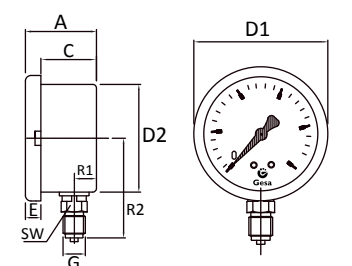
Application:

- Gas facilities
- Low pressure

A Bottom Ø100



A Bottom Ø63



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø63	A	10	37	27	74	10	66	¼ BSP	55	14	199
Ø100	A	16	49	32	101	17	99	½" BSP	83	22	545

How to order

1.Case diameter

Ø63

Ø100

2.Pressure range (Bar)

0+25
0+40

0+60
0+100

0+160
0+250

0+400
0+600

3.Pressure scale

mbar

4.Mounting

A

5.Threaded connection

¼" BSP

½" BSP

6.Connection material

Brass

7.Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0403 -

1	2	3	4	5	6	7
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Pressure gauge for refrigeration systems with case in stainless steel



Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for difficult conditions of use, as there are vibrations or quick changes of pressure.

Also useful for adverse ambients. Manufactured according to EN 837-1 standards.

STANDARD PARAMETERS

Design: EN 837-1

Closing: Sealed ring

Mounting: See attached diagrams A, B, C or D

Threaded connection: Ø63: ¼" BSP; Ø100: ½" BSP (UNE-EN 10226-1)

IP protection: IP65 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: ¾ end of scale

Oscillating: ¾ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -20+50°C

Fluid: 80°C

Range: -1+12 or -1+24 Bar

Scale: Bar/R22/R134a/R404a/R507

Subdivision: According to standard EN 837-1

Antivibration fluid: Glycerine 99.8%

Sensor element: Bourdon tube ("C" form)

Overtemperature relief system: Upper plug

MATERIALS

Case and ring: AISI 304 Stainless steel

Bourdon tube and moving parts: Cu Alloy

Threaded connection: Brass

Visor: Polycarbonate

Dial: White laquered aluminum

Pointer: Black laquered aluminum

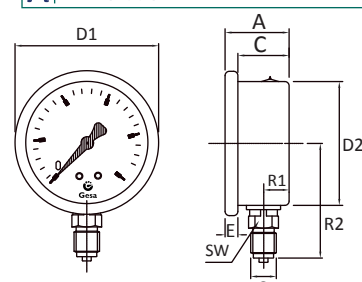
Welding: Cu-Sn

Overtemperature relief plug: Neoprene

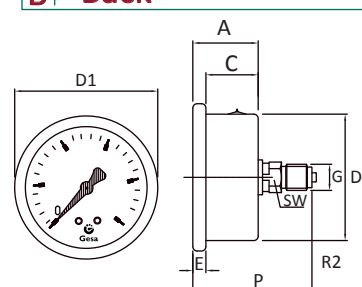
Application:

- Refrigeration
- Air conditioning
- Food industry

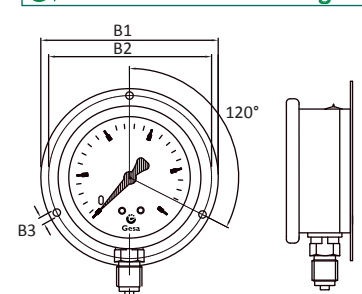
A Bottom



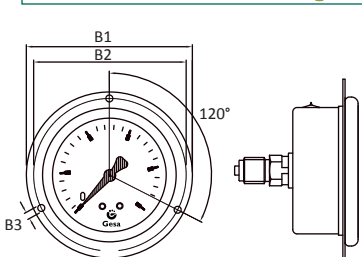
B Back



C Bottom with back flange



D Back with frontal flange



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	B1	B2	B3	
Ø63	A/C	10	29	23	68	6	61	¼ BSP	56	14	-	86	80	3,5	180
Ø63	B/D	-	29	23	68	6	61	¼ BSP	56	14	58	86	80	3,5	180
Ø100	A/C	12	37	29	109	8	99	½" BSP	87	21	-	132	124	5	607
Ø100	B/D	-	37	29	109	8	99	½" BSP	87	21	77	132	124	5	607

How to order

1. Case diameter

Ø63 Ø100

2. Pressure range (Bar)

-1+12 -1+24

3. Pressure scale

Bar/R22/R134a/R404a/R507

4. Mounting

A B C D

5. Threaded connection

¼" BSP ¼" SAE ½" BSP

6. Connection material

Brass

7. Antivibration fluid

Glycerine 99.8%

8. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0501 -

1	2	3	4	5	6	7	8
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M8

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Designed for refrigeration systems. Suitable for all liquid media that will not attack copper alloy parts.

Useful for systems where the gauge is not subjected to vibrations.

Manufactured according to **EN 837-1** standards.



STANDARD PARAMETERS

Design: **EN 837-1**

Closing: Threaded Display

Mounting: Direct: free standing on the bottom connection

Threaded connection: **Ø63**: 7/16"SAE; **Ø100**: 1/2" BSP (**UNE-EN 10226-1**)

IP protection: IP43 (**EN 60529** / **IEC 529**)

Accuracy: Class 1.6

Pressure limits:

Static: ¼ end of scale

Oscillating: ¾ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+80°C

Fluid: 80°C

Range: **-1+12** or **-1+24** Bar

Scale: Bar/R22/R404a/R507

Subdivision: According to standard **EN 837-1**

Sensor element: Bourdon tube ("C" form)

MATERIALS

Case: Carbon steel blue (-1+12 bar) or red (-1+24 bar)

Bourdon tube and moving parts: Cu Alloy

Threaded connection: Brass

Display and ring: Acrylic. Display and ring are a single piece threadable to the case

Dial: White laquered aluminum

Pointer: Black laquered aluminum

Welding: Cu-Sn

Application:

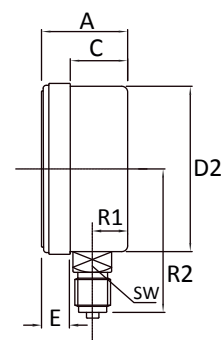
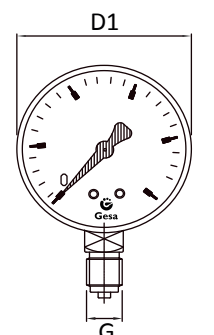
- Refrigeration
- Air conditioning
- Food industry

DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø63	A	11	30	19	72	11	68	¾ BSPT	55	14	121
Ø100	A	11	37	25	103	12	99	¾ BSPT	80	14	241

A Bottom



How to order

1. Case diameter

Ø63 Ø100

2. Pressure range (Bar)

-1+12 -1+24

3. Pressure scale

Bar/R22/R404a/R507

4. Mounting

A **B**

5. Threaded connection

1/2" BSP 7/16" SAE

6. Connection material

Brass

7. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0502 -

1	2	3	4	5	6	7
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Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts.

Especially designed for heavy duty conditions like vibrations or quick pressure changes. Manufactured according to **EN 837-1** standards.



STANDARD PARAMETERS

Design: **EN 837-1**

Closing: Bayonet

Mounting: See attached diagrams **A** or **B**

Threaded connection: $\frac{1}{2}$ "BSP or $\frac{1}{4}$ "SAE (**UNE-EN 10226-1**)

IP protection: IP65 (**EN 60529 / IEC 529**)

Accuracy: Class 1.0

Pressure limits:

Static: $\frac{1}{4}$ end of scale

Oscillating: $\frac{1}{2}$ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+80°C

Fluid: 80°C

Range: **-1+12** or **-1+24** Bar

Scale: Bar/R22/R134a/R404a/R507

Subdivision: According to standard **EN 837-1**

Antivibration fluid: **Glycerine 99.8% or dry**

Sensor element: Bourdon tube ("C" form)

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Safety glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

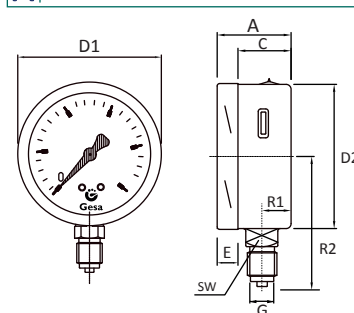
Welding: TIG welding

Overtemperature relief plug: Neoprene

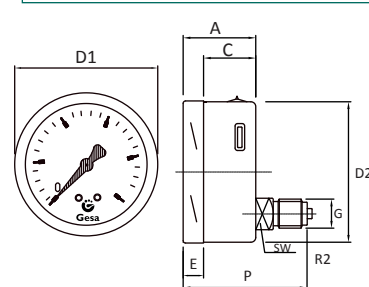
Application:

- Refrigeration
- Air conditioning
- Food industry

A Bottom



B Back



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	
Ø100	A	16	49	32	101	17	99	$\frac{1}{2}$ " BSP	83	22	575
Ø100	B	-	49	32	101	17	99	$\frac{1}{2}$ " BSP	83	22	536

How to order

1. Case diameter

Ø100

2. Pressure range (Bar)

-1+12

-1+24

3. Pressure scale

Bar/R22/R134a/R404a/R507

4. Mounting

A B C D

5. Threaded connection

$\frac{1}{2}$ "BSP

$\frac{1}{4}$ "SAE

6. Connection material

Brass
AISI 316 Stainless steel

7. Antivibration fluid

Glycerine 99.8%
Dry

8. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0503 -

1	2	3	4	5	6	7	8
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M10

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Bourdon type pressure gauges completely ungreased for O₂ and acetylene.
Manufactured according to **UNE-EN 562** standards.
Working temperature is -40+60°C.
Designed for system where fluid temperature does not exceed 60°C



STANDARD PARAMETERS

Design: **UNE-EN 562**
Closing: Threaded display
Mounting: See attached diagrams **A** or **B**
Threaded connection: **Ø50: ¼" BSP ; Ø63: ¼" BSP (UNE-EN 562)**
IP protection: **IP44 (EN 60529 / IEC 529)**
Accuracy: Class 2.5
Pressure limits:
Static: ¼ end of scale
Oscillating: ¾ end of scale
Maximum: Full scale for a short period of time
Temperature limits:
Environment: -40+60°C
Fluid: 60°C
Range: **0+2.5; 0+16; 0+40; 0+315 Bar**
Scale: Bar
Subdivision: According to standard **UNE-EN 562**
Sensor element: Bourdon tube(<60 Bar: Type "C"; >60 Bar: helical)

MATERIALS

Case: Black laquered steel
Bourdon tube and moving parts: Copper Alloy
Threaded connection: Brass
Display and ring: Acrylic. Display and ring are a single piece threadable to the case
Dial: White laquered aluminum
Pointer: Black laquered aluminum
Welding: P<250 Bar: Cu-Sn; P>250 Bar: Cu-Ag

Application:

- Welding
- Oxygen
- Acetylene

DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	
Ø50	A	10	28	17	57	12	52	¼ BSP	46	14	-	93
Ø50	B	-	28	17	66	12	52	¼ BSP	-	14	46	98
Ø63	A	10	29	17	57	12	61	¼ BSP	53	14	-	118
Ø63	B	-	29	17	66	12	61	¼ BSP	-	14	46	125

How to order

1.Case diameter

Ø50

Ø63



2.Pressure range (Bar)

0+2.5
0+16

0+40
0+315



3.Pressure scale

Bar



4.Mounting

A

B



5.Threaded connection

¼" BSP



6.Connection material

Brass



7.Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0601 -

1

2

3

4

5

6

7

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M11



Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts. Useful for system that are not submitted to strong vibrations.

Especially designed for pneumatics and hydraulics.

Manufactured according to **EN 837-1** standards.

STANDARD PARAMETERS

Design: **EN 837-1**

Closing: Pressure adjusted

Mounting: See attached diagrams **A** or **B**

Threaded connection: $\frac{1}{4}$ "BSP (UNE-EN 10226-1)

IP protection: IP44 (EN 60529 / IEC 529)

Accuracy: Class 1.6

Pressure limits:

Static: $\frac{1}{4}$ end of scale

Oscillating: $\frac{1}{4}$ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+65°C

Fluid: 60°C

Range: **-1+15** or **-1+25** Bar

Scale: Bar/°C for refrigerant R717 (NH₃)

Subdivision: According to standard **EN 837-1**

Sensor element: Bourdon tube ("C" form)

MATERIALS

Case: Black laquered steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Acrylic

Dial: White laquered aluminum

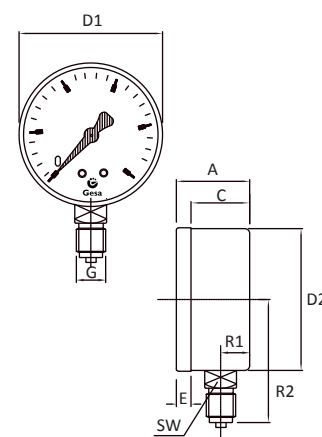
Pointer: Black laquered aluminum

Welding: TIG welding

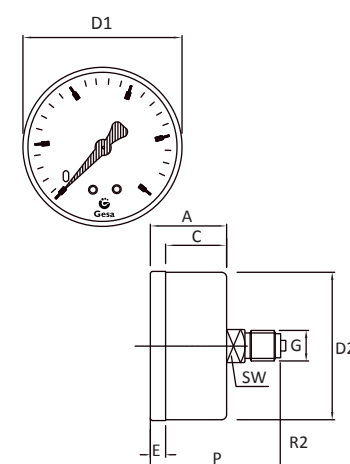
Application:

- Refrigeration
- Air conditioning
- Food industry

A Bottom



B Back



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	
Ø63	A	11	28	18	63	10	62	$\frac{1}{4}$ BSP	52	14	-	122
Ø63	B	-	28	18	63	10	62	$\frac{1}{4}$ BSP	-	14	46	128

How to order

1.Case diameter

Ø63

2.Pressure range (Bar)

-1+15

-1+25

3.Pressure scale

Bar/ °C R717 NH₃

4.Mounting

A

B

5.Threaded connection

$\frac{1}{4}$ "BSP

6.Connection material

AISI 316 Stainless steel

7.Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0701 -

1

2

3

4

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7

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Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts. Especially designed for refrigeration systems and ammonia.

Manufactured according to **EN 837-1** standards.

STANDARD PARAMETERS

Design: **EN 837-1**

Closing: Bayonet

Mounting: See attached diagrams **A** or **C**

Threaded connection: ½" BSP (**UNE-EN 10226-1**)

IP protection: IP65 (**EN 60529 / IEC 529**)

Accuracy: Class 1.0

Pressure limits:

Static: ¼ end of scale

Oscillating: ¾ end of scale

Maximum: Full scale for a short period of time

Temperature limits:

Environment: -40+65°C

Fluid: 60°C

Range: **-1+9, -1+12, -1+15 o -1+25 Bar**

Scale: Bar/ °C for refrigerant R717 (NH₃)

Subdivision: According to standard **EN 837-1**

Pointer: Micrometric adjustment

Sensor element: Bourdon tube (<60 Bar: "C" form; >60 Bar: helical)

Pressure relief system: Blow-out disc

Overtemperature relief system: Upper plug

MATERIALS

Case: AISI 304 Stainless steel

Bourdon tube and moving parts: AISI 316 Stainless steel

Threaded connection: AISI 316 Stainless steel

Display: Safety glass

Dial: White laquered aluminum

Pointer: Black laquered aluminum

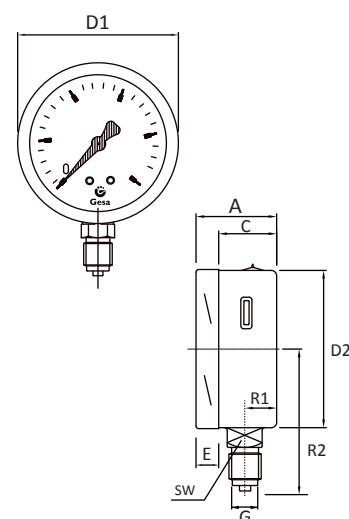
Welding: TIG welding

Blow-out disc and overtemperature relief plug: Neoprene

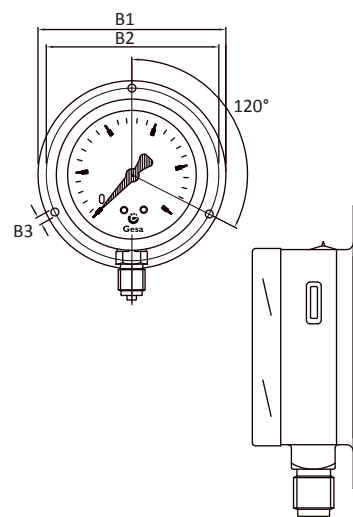
Application:

- Refrigeration
- Air conditioning
- Food industry

A Bottom



C Bottom with back flange



DIMENSIONS (mm)

WEIGHT (g)

DN	Mounting	R1	A	C	D1	E	D2	G	R2	SW	P	B1	B2	B3	
Ø100	A	16	49	32	101	17	99	½" BSP	83	22	-	-	-	-	545
Ø100	C	16	49	32	101	17	99	½" BSP	83	22	86	132	124	5	566

How to order

1.Case diameter

Ø100

2.Pressure range (Bar)

-1+9
-1+12
-1+15
-1+25

3.Pressure scale

Bar/ °C R717 NH₃

4.Mounting

A

C

5.Threaded connection

½" BSP

6.Connection material

AISI 316 Stainless steel

7.Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0702 -

1	2	3	4	5	6	7

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M 08 01

Safety pressure gauge with phenolic case and solid front



The rugged phenolic case gives an excellent resistance to chemical agents, harsh weather and corrosion.

It is manufactured according to **EN 837-1**, **BS1780** y **ASME B 40.1**.



Application:

- Petrochemistry
- Gas facilities

STANDARD PARAMETERS

Design: EN 837-1, BS1780 y ASME B 40.1.
Closing: Safety closing
Mounting: See attached diagram **A**
Threaded connection: ½" BSP (UNE-EN 10226-1)
IP protection: IP55 (EN 60529 / IEC 529)
Accuracy: Class 1.0 (first and last 25% of the scale) / 0.5 (rest of the scale)
Pressure limits:
 Static: Full scale
 Oscillating: 90% end of scale
 Maximum: 130% end of scale for a short period of time
Temperature limits:
 Environment: -40+60°C
 Fluid: 60°C
Range: -1...0...1000 Bar
Scale: Bar or Bar/Psi
Subdivision: According to standard EN 837-1
Antivibration fluid: Glycerine 99.8%, silicone oil or dry
Pointer: Micrometric adjustment
Sensor element: Bourdon tube ("C" form)

MATERIALS

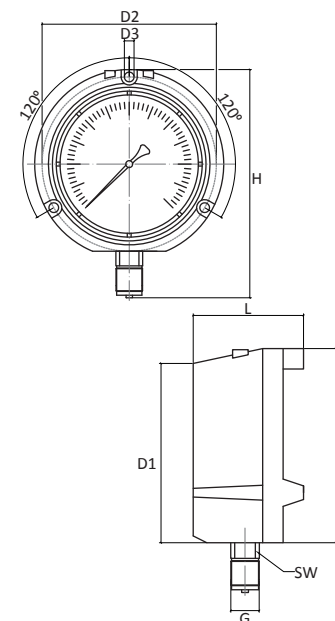
Case and ring: Phenolic resin (PBTB) / Polypropylene
Bourdon tube and moving parts: AISI 316 Stainless steel
Threaded connection: AISI 316 Stainless steel
Display: Safety glass
Dial: White laquered aluminum
Pointer: Black laquered aluminum
Welding: TIG welding

DIMENSIONS (mm)

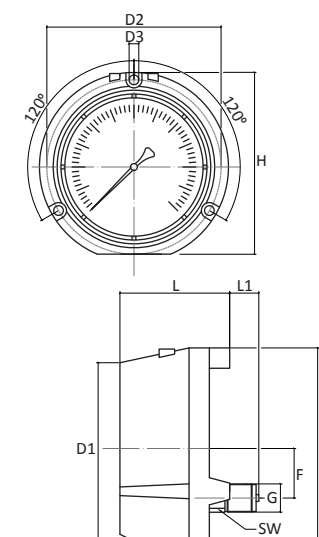
WEIGHT (g)

DN	Mounting	D	D1	D2	D3	F	H	G	L	L1	SW	
Ø125	A	142.5	127	136.7	7.6	-	179	½" BSP	81	-	22	409
Ø125	B	142.5	127	136.7	7.6	44.5	179	½" BSP	81	30	22	421

A Bottom



B Back



How to order

1. Case diameter

Ø125

2. Pressure range (Bar)									
-1+0	-1+5	-1+24	0+1.6	0+6	0+25	0+100	0+400		
-1+0.6	-1+9	0+0.6	0+2.5	0+10	0+40	0+160	0+600		
-1+3	-1+15	0+1	0+4	0+16	0+60	0+250	0+1000		

3. Pressure scale

Bar
Bar/psi

4. Mounting

A **B**

5. Threaded connection

½" BSP

6. Connection material

Brass
Stainless steel/AISI 316

7. Antivibration fluid

Silicon oil
Glycerine
Dry

8. Calibration certificate traceable to ENAC

7 point certificate
Without certificate

M0801 -

1	2	3	4	5	6	7	8

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ING1.0

Vibrations

In systems subjected to severe vibrations it is necessary that the gauge pointer does not vibrate and prevent reliable pressure reading. To avoid it the manometer is filled with a liquid having certain viscosity which prevents the pointer vibration. The most common liquids are glycerine and silicon oil.



Glycerine or Silicon oil



Overpressure

In cases where the gauge must be installed in facilities subjected to great pressure. It is desirable to include a pressure limiting valve which prevents overpressure damaging the pressure gauge.



Pressure limiter



Pulsation

Processes in which significant increases and pressure drops require parts to cushion these sudden changes that can damage the instrument and cause leakage.



Damper pressure



Overheating

Temperatures in some of the systems subject to measurement can damage internal components of the gauge, so it is advisable to use heat sinks to ensure the operability of the instrument.

There are several accessories that meet this function, these are the most common.



Cooling tower



Capilar



Coil damper



Isolation

For installations where continuous pressure monitoring is not required, the use of valves to separate the pressure gauge system is recommended, either because the liquid can attack the internal parts in long exposures or because the use of the instrument alters the normal process operation.



Valve

Pressure limiter

The pressure limiter protects the instrument from pressures that exceed their limit of security.

They allow the use of specialized pressure gauges in systems with large pressure changes. The limiter can be adjusted to the maximum pressure by the pressure gauge and supported when it is exceeded the limiter blocks the duct protecting the pressure gauge.

STANDARD PARAMETERS

Maximum pressure supported: 600 Bar

Temperature of the fluid: -40 to 120°C

Instrument connection: ½" BSP Female

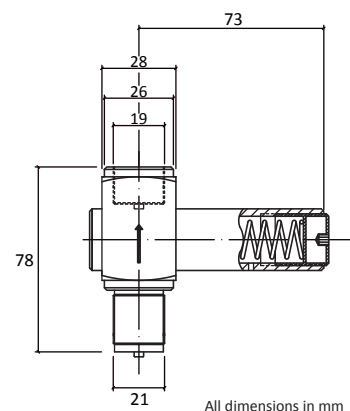
Process connection: ½" BSP Male

Degreased for O₂: Up to 50 Bar and 60°C

MATERIALS

Body and wetted parts: AISI 316 Stainless steel

Gasket/O-ring: Viton



How to order



1. Model

Bellows (200 mbar to 4 Bar)
Piston (6 Bar to 400 Bar)



2. Degreased for O₂

Yes
No

M0901-

1

2

Cooling tower

Designed to protect the gauge of the high process temperatures. The air cools the liquid in contact with the surface

STANDARD PARAMETERS

Maximum pressure supported: 1000 Bar

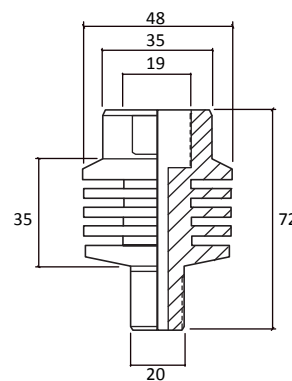
Maximum working pressure: 300°C

Instrument connection: ¼" NPT Female

Process connection: ¼" NPT Male

MATERIALS

Body and wetted parts: AISI 316 Stainless steel



How to order



Reference: M0903

Cooling tower

Designed to protect the gauge of the high process temperatures. The air cools the liquid in contact with the surface

STANDARD PARAMETERS

Maximum pressure supported: 1000 Bar

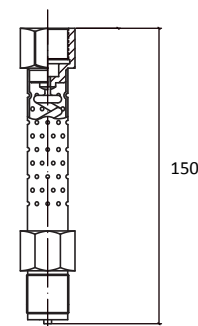
Maximum working pressure: 300°C

Instrument connection: ¼" NPT Female

Process connection: ¼" NPT Male

MATERIALS

Body and wetted parts: AISI 316 Stainless steel



ING1.0

How to order



Reference: M0904



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Coil damper

Designed to protect the gauge from media at high temperatures, like steam. Also to reduce the effect of sudden changes in pressure. For initial installation must fill the siphon with water or other equivalent liquid

STANDARD PARAMETERS

Maximum pressure supported: 600 Bar

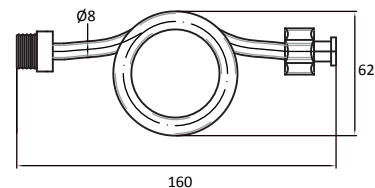
Temperature of the fluid: -40 to 120°C

Instrument connection: Female

Process connection: Male

MATERIALS

Body and wetted parts: AISI 316 Stainless steel



All dimensions in mm

How to order

1. Instrument connection / process

½" BSP Female / Male

¾" BSP Female / Male

1" BSP Female / Male

M0902 -

1

Capillary extension

Designed to connect the gauge to a remote system and perform remote readings, it also cools the system's filling liquid providing protection to gauge. For installation it requires the measuring instrument available a flange or rim for paneling or a support for the extension

STANDARD PARAMETERS

Maximum pressure supported: 600 Bar

Temperature of the fluid: -40 to 120°C

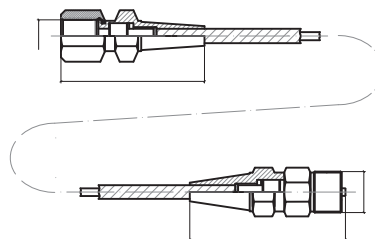
Instrument connection: ¼" BSP Female

Threaded connection: ¼" BSP Male

Capillary length: 1m, 1.5m, 2m or 2.5m

MATERIALS

Body and wetted parts: AISI 316 Stainless steel



How to order

Reference: M0905

Pointer dampener

Designed to protect pressure measuring instruments from pulsating pressure applications. Sudden pressure changes are damped before they reach the sensing element, protecting it from high stress. It makes readings easier and prolongs the life of the instrument.

STANDARD PARAMETERS

Maximum pressure supported: 400 Bar (6000psi)

Temperature of the fluid: -25 to 200°C

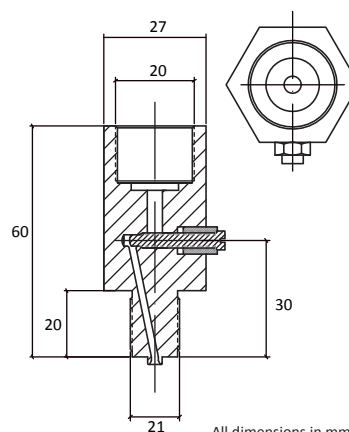
Instrument connection: ½" BSP Female

Threaded connection: ½" BSP Male

MATERIALS

Body and wetted parts: AISI 316 Stainless steel or brass

Adjustment screw: AISI 316 Stainless steel Gasket: Viton



All dimensions in mm

How to order

Reference: M0906



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M18

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The ball valves PN 20/25, have been constructed in accordance with the following European Standards:

- **UNE EN ISO 228**
- **UNE EN 22768**

The most frequent applications of the ball valve are opening/closing.

It is not advisable to use them in partially open service for a long time under conditions of high pressure drop across the valve.



STANDARD PARAMETERS

Structure: See attached diagrams **A** or **B**

Handle: Lever

Axis: Antileak system

IP protection: IP56

Usage limits:

Maximum nominal pressure: 20-25 bar

Working temperature: -20 to 150°C (Without steam)

Threaded connection: ¼"BSP, ⅜"BSP, ½"BSP, ¾"BSP, 1"BSP, 1 ¼"BSP, 1 ½"BSP or 2"BSP

MATERIALS

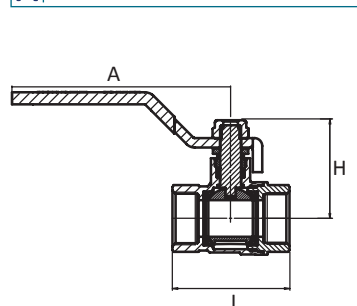
Body: Brass nickel plated

Handle: Stainless steel AISI 304 and plastic injected with rough texture.

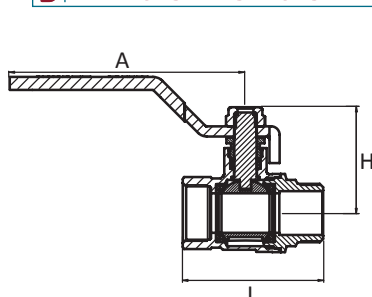
Application:

- Plumbing
- Irrigation
- Pipes
- Circuits

A Female - Female



B Male - Female



DIMENSIONS (mm)						WEIGHT (g)
Structure	Threads	Max PN	A	L	H	
Female - Female	¼"BSP	20 bar	83	36.7	31.5	126
	⅜"BSP	20 bar	83	39.8	31.5	147
	½"BSP	25 bar	83	43.6	37.9	153
	¾"BSP	25 bar	96	50	38.7	209
	1"BSP	25 bar	106	55.5	48.3	329
	1 ¼"BSP	25 bar	134	69.3	54	512
	1 ½"BSP	25 bar	141	78.3	67.5	737
	2"BSP	25bar	165	94	72.5	1160
Male- Female	¼"BSP	20 bar	85	42.9	31.5	130
	⅜"BSP	20 bar	85	43.7	31.5	153
	½"BSP	25 bar	83	49.3	37.9	162
	¾"BSP	25 bar	97	55.9	38.7	219

How to order

1.Structure

A B

2.Threaded connection

¼"BSP ⅜"BSP 1 ½"BSP
⅜"BSP 1"BSP 2"BSP
½"BSP 1 ¼"BSP

V0125 -

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Brass nickel plated Ball valve for pressure gauges

Useful to isolate the pressure gauge from the system.
The most common applications of this ball valve are opening and closing.
It is not recommended to use them in partly open services for long periods of time and under high pressure drops.



Application:

- Plumbing
- Irrigation
- Pipes
- Circuits

STANDARD PARAMETERS

Structure: See attached diagrams **A** or **B**

Handle: Lever

Axis: Antileak system

IP protection: IP56

Usage limits:

Maximum nominal pressure: 25 bar

Working temperature: -20 to 50°C (Without steam)

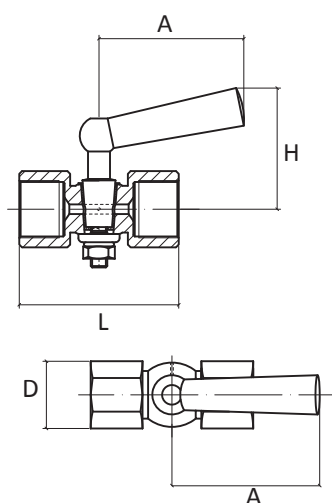
Threaded connection: ¼" BSP, ⅜" BSP or ½" BSP

MATERIALS

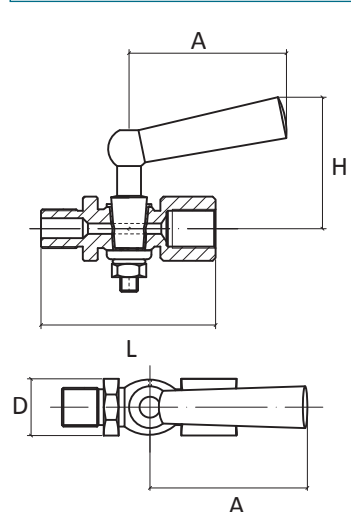
Body: Brass nickel plated

Handle: Polyethylene

A Female - Female



B Male - Female



DIMENSIONS (mm)							WEIGHT (g)
Structure	Threads	Max PN	A	L	H	D	
Female - Female	¼" BSP	25 bar	60	57.9	50	19	105
	⅜" BSP	25 bar	60	58.6	50	21.1	130
	½" BSP	25 bar	60	57.9	50	24.5	150
Male - Female	¼" BSP	25 bar	60	57.9	50	19	111
	⅜" BSP	25 bar	60	58.6	50	21.1	134
	½" BSP	25 bar	60	57.9	50	24.5	145

How to order

1. Structure

2. Threaded connection

A **B**



¼" BSP

⅜" BSP

½" BSP



VP0325 -

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V2

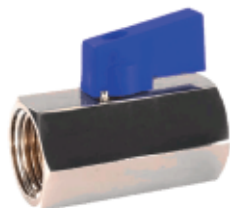
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Opening / Closing: The most common application of these Valves is in installations where the flow is interrupted regularly

It is not recommended to use them in partly open services for long periods of time and under high pressure drops.



Application:

- Plumbing
- Irrigation
- Pipes
- Circuits

STANDARD PARAMETERS

Structure: See attached diagrams **A** or **B**

Handle: Short lever

IP protection: IP56

Usage limits:

Maximum nominal pressure: 16 bar

Working temperature: 0 to 90°C (Without steam)

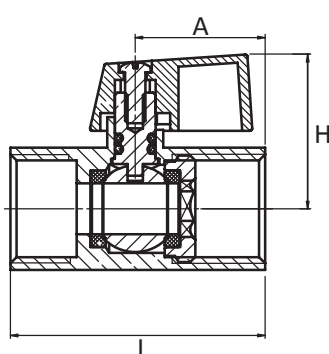
Threaded connection: ¼"BSP, ½"BSP or ¾"BSP

MATERIALS

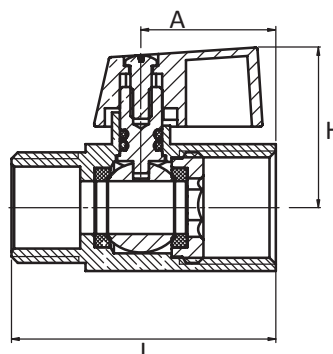
Body: Chromed brass

Handle: Epoxy coated brass

A Female - Female



B Male - Female



DIMENSIONS (mm)						WEIGHT (g)
Structure	Threads	Max PN	A	L	H	
Female - Female	¼"BSP	16 bar	23	43	28.5	110
	½"BSP	16 bar	23	44.5	28.5	110
	¾"BSP	16 bar	26	50	30	125
Male - Female	¼"BSP	16 bar	23	44.5	28.5	95
	½"BSP	16 bar	23	44.5	28.5	95
	¾"BSP	16 bar	25	50	28.5	114

How to order

1. Structure

A **B**

2. Threaded connection

¼"BSP ½"BSP 1 ½"BSP
¾"BSP 1"BSP 2"BSP
½"BSP 1 ¼"BSP

MV0116 -

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V3

Calibration certificates

The calibration process compares the output value of the instrument under calibration with a standard at different points of their scale, our standard consists in traceable patterns to ENAC (National accreditation entity).

During calibration the result of measuring instrument should be adjusted ,so that, it is put in accordance with the standard, to a specified accuracy. However, there are few instruments that can be adjusted until the perfect correspondence with the values given by the standards with which they are compared.

The results obtained are reported through our calibration certificate, which indicated a document identification code and detailed information about the instrument to calibrate, date, method of calibration, environmental conditions (temperature, humidity,...), the results and uncertainties obtained, and signature and accreditation of our laboratory.



Generally the calibration process is, in fact, comparison of an unknown value and a known one and the registration of the data obtained. Various reasons can lead to the need to calibrate an instrument:

- Realization of a new instrument calibration
- Expiration of the period of validity
- Depletion of certain volume of use (hours of work)
- Impacts or strong vibrations that descalibrate the instrument
- Whenever the observations obtained are questionable
- To comply with current regulations



We provide certificates for instruments of different :

- Certificates of 1 to 7 points
- Range for temperature - 30°C to 600°C
- Range for pressure - 1 to 600 bar
- Fast and flexible service.

Certificates to instruments not supplied by Gesa will require shipping the instrument to our facilities.
The usual deadline for issuing certificates is 5 days.





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