

Typical Applications

These gauges are used where fluid medium does not clog connection port or corrode copper alloy for general Industrial applications such as compressors, pumps, boilers, hydraulic and pneumatic equipment, healthcare industry,...

Standard Features

Nominal Sizes:

40, 50, 63, 80, 100, 150 and 250mm

Scale Ranges:

Vacuum, Pressure from 0...1.0 to 0...700kg/cm² (for sizes 40 and 50mm upto 70kg/cm²)

Accuracy Class:

±2.5% of FSD

Liquid Filling:

Dry

Pressure Connection:

Bottom or Back

NS 40,50: 1/8" BSP / NPT, 12mm flats

NS 50,63: 1/8,1/4 BSP / NPT, 14mm flats

NS 80,100,150: 1/4",3/8" BSP/NPT, 17mm sq

NS 250: 3/8",1/2" BSP / NPT, 22mm sq

Mounting:

Back Direct

Back mounting with Panel(3 hole)

Back mounting with Bracket

Surface Mounting (80, 100, 150, 250mm only)

Special Versions / Optional / Extras:

+ Refrigerant Gauges with flare connection

+ Oxygen/Acetylene Gauges

+ Ammonia Gauges

+ Special Dials (non-standard ranges, customer artwork, ...)



Bourdon Tube (Wetted Part) Material:

Copper Alloy

Pointer:

Black Tin, plastic

Movement Material:

Copper Alloy

Pressure Element:

Material: Copper Alloy

≤ 100kg/cm²: C-type

> 100kg/cm²: Coil type

Window:

Plain glass or acrylic

Case Material:

Black Painted Steel

Bezel Ring:

Black finish steel

Dial:

White Aluminium with Red & Black lettering

* Specifications may be modified without prior notice. Please contact & confirm before placing order

Dynamic Gauges Pvt. Ltd.

Typical Applications

These gauges are used where pressure gauges are subjected to severe conditions where pulsation or vibration exists. The filled liquid protects the internal parts against vibrations. Intended to use for gaseous or liquid media that will not obstruct pressure system.

Standard Features

Nominal Sizes:

63, 100 and 150mm

Scale Ranges:

63mm: 0...1.0 to 0...700kg/cm²

100,150mm: 0...1.0 to 0...1000kg/cm²

Accuracy Class:

63mm: ±1.6% FSD

100, 150mm: ±1.0% FSD

Over-Range Protection:

130% of FSD

Liquid Filling:

Dry or Glycerine Fill

Enclosure Protection:

IP 55 or IP 65

Pressure Connection:

Bottom or Back

Threaded Entry

63: 1/8", 1/4" BSP / NPT, 14mm flats

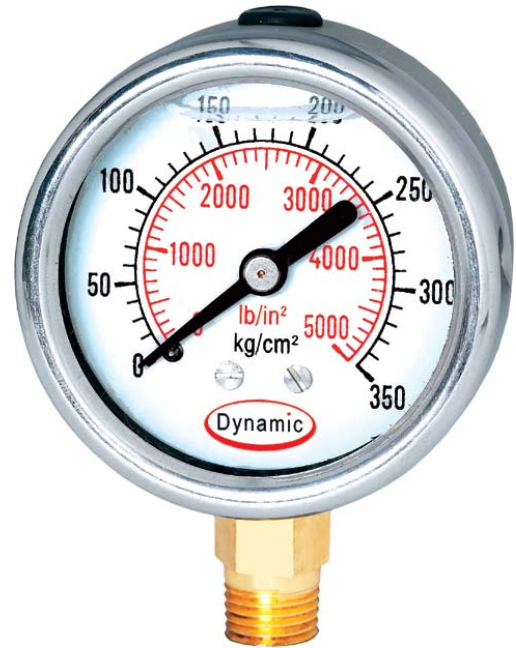
100,150mm: 1/4, 3/8, 1/2" BSP/NPT 22mm flats

Mounting:

Bottom or Back Mounting

Special Versions / Optional / Extras:

- + Other Pressure connections
- + 3-Hole surface mounting flange
- + With clamp or Panel (back entry only)
- + SS 316 Case
- + Silicon Oil Fill



Bourdon Tube (Wetted Part) Material:

Copper Alloy

Pointer: Aluminium

100, 150mm: Micrometer zero adjustment

Movement Material:

Copper Alloy

Pressure Element:

Material: Copper Alloy

≤ 100kg/cm²: C-type

> 100kg/cm²: Coil type

Window: 63mm: Clear Acrylic

100, 150mm: Toughened/Safety Glass

Case Material:

Stainless Steel SS 304

Bezel Ring:

63mm: Roll formed glossy finish stainless steel

100, 150mm: Snap action bayonet type glossy finished Stainless Steel

Dial:

White Aluminium with Red & Black lettering

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Typical Applications

These gauges are used where pressure gauges are subjected to severe conditions where pulsation or vibration exists. The filled liquid protects the internal parts against vibrations. Intended to use for gaseous or liquid media that will not obstruct pressure system.

Standard Features

Nominal Sizes:

63, 100 and 150mm

Scale Ranges:

63mm: 0...1.0 to 0...700kg/cm²
100,150mm: 0...1.0 to 0...1000kg/cm²
Vacuum and Compound Ranges available

Accuracy Class:

63mm: ±1.6% FSD
100, 150mm: ±1.0% FSD

Over-Range Protection:

130% of FSD

Liquid Filling:

Dry or Glycerine Fill

Enclosure Protection:

IP 55 or IP 65

Pressure Connection:

Bottom or Back
Threaded Entry
63: 1/8", 1/4" BSP / NPT, 14mm flats
100,150mm: 1/4, 3/8, 1/2" BSP/NPT 22mm flats

Mounting:

Bottom or Back Mounting

Special Versions / Optional / Extras:

- + Other Pressure connections
- + 3-Hole surface mounting flange
- + With Clamp or Panel (back entry only)
- + SS 316 Case
- + Monel, SS 316L wetted parts in 100,150mm
- + Silicon Oil fill



Bourdon Tube (Wetted Part) Material:

Stainless Steel SS 316

Pointer: Aluminium

100, 150mm: Micrometer zero adjustment

Movement Material:

Stainless Steel SS 304

Pressure Element:

Material: Stainless Steel SS 316
≤ 100kg/cm²: C-type
> 100kg/cm²: Coil type

Window: 63mm: Clear Acrylic

100, 150mm: Welded Case

Case Material:

Stainless Steel SS 304

Bezel Ring:

Roll formed, glossy finish stainless steel

Dial:

White Aluminium with Black lettering

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Typical Applications

Contact Gauges are ideal in the applications which demands measurement and control of pressure by switching electrical contacts ON and OFF. This eliminates the need of separate switches for pumps and motors which gives audio or visual alarms. The small adjustable magnet mounted in the contact assembly, attracts the contact arm just before the set pressure value which prevent the common problem of arcing and burning of contact pins.

Standard Features

Nominal Sizes:
100 and 150mm

Accuracy Class:
±2.0% FSD

Over-Range Protection:
130% of FSD

Pressure Connection:
Bottom or Back

Threaded Entry
1/4", 1/2" BSP/NPT

Mounting:
Bottom or Back Mounting

Contact Details
Single Or Double Electrical Contacts

Contact Rating
Voltage: 250V max.
Rating: 30W (DC), 50 VA (AC),
Current Rating: 0.75 Amp max.

Set Point Adjustment
By means of removable key

Special Versions / Optional / Extras:
+ Other Pressure connections
+ 3-Hole surface mounting flange
+ With clamp or panel (Back Entry only)



Bourdon Tube (Wetted Part) Material:
Copper Alloy / SS 316

Pointer:
Aluminium/Spring Steel

Movement Material:
Copper Alloy / SS 304

Pressure Element:
Material: Copper Alloy/ SS 316
< 100kg/cm²: C Type
>100 kg/cm²: Coil Type

Window:
Clear Acrylic

Case Material:
SS Case OR Die Cast Aluminium

Bezel Ring:
Screwed/Pressfit

Dial:
White Alluminium with Black Markings

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Dynamic Gauges Pvt. Ltd.

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Typical Applications

These gauges are used in Laboratories and Industries by Inspecting authorities, for pressure gauge testing and calibration.

Standard Features

Nominal Sizes:

150, 200 and 250mm

Scale Ranges:

0...1.0 to 0...1000kg/cm²

Accuracy Class:

±0.5% FSD

Pressure Connection:

Bottom or Back
Threaded Entry with restricted nozzle
1/2" BSP/NPT 22mm square

Mounting:

Bottom or Back Mounting

Special Versions / Optional / Extras:

- + Other Pressure connections
- + Point to Point Calibration Certificate
- + 3-Hole surface or panel mounting flange



Bourdon Tube (Wetted Part) Material:

Copper Alloy

Pointer:

Black Aluminium, knife edge pointer

Movement Material:

Copper Alloy with high precision parts

Pressure Element:

≤ 100kg/cm²: Phosphor Bronze, C-type
> 100kg/cm²: Stainless Steel, Coiled type

Window:

Clear Glass

Case Material:

Stainless Steel SS 304
Cast Aluminium

Bezel Ring:

SS 304 or Steel plated

Dial:

White Aluminium with Black lettering

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Dynamic Gauges Pvt. Ltd.

Typical Applications

These gauges are used in Laboratories and Industries by Inspecting authorities, for pressure gauge calibration and laboratory measurement

Standard Features

Nominal Sizes:

150 and 200mm

Scale Ranges:

0...1.0 to 0...1000kg/cm²

Accuracy Class:

±0.25% FSD

Pressure Connection:Bottom or Back

Threaded Entry with restricted nozzle

1/2" BSP/NPT 22mm flat

Mounting:

Bottom or Back Mounting

Special Versions / Optional / Extras:

- + Other Pressure connections
- + Point to Point Calibration Certificate
- + 3-Hole surface or panel mounting flange
- + Flush panel mounting with clamp

**Bourdon Tube (Wetted Part) Material:**

Copper Alloy

Pointer:

Black Aluminium, knife edge pointer

Movement Material:

Copper Alloy jewel bearing

Pressure Element:

≤ 100kg/cm²: Beryllium Copper, C-type

> 100kg/cm²: Beryllium Copper, Coiled type

Window:

Clear Glass

Case Material:

Stainless Steel SS 304

Cast Aluminium

Bezel Ring:

SS 304 or Steel Finish

Dial:

Mirror Scale White Aluminium with Black lettering

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Dynamic Gauges Pvt. Ltd.

Typical Applications

These Gauges are manufactured with Heavy Duty construction for superior performance against tough and corrosive applications in industries, process, power, nuclear and cryogenics. Thermoplastic (PBTP 20%) gives longer life to the pressure gauge under adverse operating conditions

Standard Features

Nominal Sizes:

115mm (4 1/2")

Scale Ranges:

0...1.0 to 0...1000kg/cm²

Accuracy Class:

±1.0% FSD

Over-Range Protection:

130% of FSD

Liquid Filling:

Dry

Enclosure Protection:

IP 65

Pressure Connection:

3/8", 1/2" BSP/NPT Bottom

Threaded Entry

1/4", 1/2" BSP/NPT

Mounting:

Bottom

Special Versions / Optional / Extras:

+ Special Liquid Filling



Bourdon Tube (Wetted Part) Material:

Copper Alloy / SS 316

Pointer:

Aluminium Micrometer Zero Adjust

Movement Material:

Copper Alloy / SS 304

Pressure Element:

Material: Copper Alloy/ SS 316

< 100kg/cm²: C Type

>100 kg/cm²: Coil Type

Window:

Toughened/Safety Glass

Case Material:

Black Phenol Case

Bezel Ring:

Screwed

Dial:

White Aluminium with Black Markings

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Dynamic Gauges Pvt. Ltd.

Typical Applications

These gauges are suitable for all gaseous and liquid media. With optional flange connection also for viscous and contaminated media

Standard Features

Nominal Sizes:

100 and 150mm

Scale Ranges:

0...1.0 to 0...21kg/cm²

Accuracy Class:

±2.0% FSD

Over-Range Protection:

110% of FSD

Pressure Connection:

Bottom or Back

Threaded Entry:

100,150mm: 3/8",1/2" BSP/NPT 17/22mm flats

Mounting:

Lower Diaphragm Housing

Special Versions / Optional / Extras:

- + Other Pressure connections
- + Wetted parts made of Stainless Steel,
- + Vacuum safe
- + Flanged Process Connection according to DIN or ANSI
- + Diaphragm and wetted parts lined or coated with special material such as:
 - + PTFE (Teflon) foil,
 - + Silver
- + Alarm Contacts



Pointer:

Black Aluminium Pointer

Movement Material:

Copper Alloy

Pressure Element:

Diaphragm SS 316

Window:

Toughened/Safety Glass

Case Material:

Case with integral upper diaphragm housing of Steel

Bezel Ring:

Bayonet type stainless steel ring

Dial:

White Aluminium with Black Lettering

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Dynamic Gauges Pvt. Ltd.

Typical Applications

Diaphragm sealed gauges are traditionally used when a standard measuring instrument should not be exposed to the process pressure directly, like viscous, corrosive gases and liquid media in corrosive environment. Diaphragm Sealed gauges typically protect the measuring instruments from one or more damaging aspects of the process media.

Standard Features

Nominal Sizes:

100, 115, 150 and 250mm

Scale Ranges:

0...1.0 to 0...600kg/cm²

Accuracy Class:

±1.0% FSD

Over-Range Protection:

130% of FSD

Pressure Connection:

3/8", 1/2" BSP/NPT Bottom

Liquid Filling:

Dry or filled with Glycerine/Silicon Oil

Enclosure Protection:

IP 65

Mounting:

Bottom or Back Mounting

Special Versions / Optional / Extras:

- + Special Dials (non standard ranges, custom artwork)
- + Alarm Contacts
- + Flanged Process Connection according to DIN or ANSI
- + Special Material for Wetted Parts
- + Special Filling Liquids
- + Special Diaphragm Material (Monel/Hastalloy)
- + Special Material for lower part (")
- + PTFE Coating on Diaphragm/Flange
- + PTFE lining on flanges



Bourdon Tube (Wetted Part) Material:

Copper Alloy/SS 316, Monel

Pointer:

Aluminium Micrometer Zero Adjust

Movement Material:

Copper Alloy

Pressure Element:

Material: Copper Alloy/SS316
< 100kg/cm²: C-type
≥ 100kg/cm²: Coil Type

Window:

Toughened/Safety Glass

Case Material:

Case with integral upper diaphragm housing of Steel

Bezel Ring:

Snap action bayonet type SS OR Screwed

Dial:

White Aluminium with Black Markings

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Dynamic Gauges Pvt. Ltd.

Typical Applications

These gauges are suitable for dry and gaseous media that will not react with copper alloy parts.

Standard Features

Nominal Sizes:

63, 100 and 160mm

Scale Ranges:

0...25mbar to 0...600mbar

Accuracy Class:

±2.0% FSD

Over-Range Protection:

-

Pressure Connection:

Bottom or Back

Threaded Entry

63: 1/4" BSP / NPT, 14mm flats

100,150mm:3/8",1/2" BSP/NPT 17/22mm flats

Mounting:

Bottom or Back Mounting

Special Versions / Optional / Extras:

+ Other Pressure connections

+ 100/160mm: Panel or surface mounting rings

+ 100/160mm: Clamp/Panel or surface mounting.

**Bourdon Tube (Wetted Part) Material:**

Stainless Steel 310

Pointer:

Black Aluminium Pointer

Movement Material:

Copper Alloy

Pressure Element:

Copper Alloy or SS 316

Window:

Toughened/Safety Glass

Case Material:

Natural Finish Stainless Steel

Bezel Ring:

Bayonet type stainless steel ring

Dial:

White Aluminium with Black lettering

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Typical Applications

For gases and Liquid media, filter control system and differential flow measurement.

Standard Features

Nominal Sizes:

63, 100, 115(4 1/2") and 150mm

Scale Ranges:

0...100 PSI

Maximum Operating Pressure 6000PSI

Accuracy Class:

±2.0% FSD

Over-Range Protection:

6000PSI

Pressure Connection:

Direct or Inline 1/4" NPT

1/4", 1/2" BSP/NPT

Mounting:

Bottom, Inline

Liquid Filling

Dry or filled with Glycerine/Silicon Oil

Enclosure Protection

IP 65

Special Versions / Optional / Extras:

- + Maximum Pointer
- + Back connection
- + Reed Switch
- + Other Equivalent Units are available

IMPORTANT NOTE:

Differential gauges are manufactured by us only on bulk quantity orders.



Wetted Part Material:

SS 316, Aluminium

Pointer:

Aluminium Micrometer Zero Adjust

Operating Principle:

Magnetic

Window:

Toughened/Safety Glass

Case Material:

SS 304

Bezel Ring:

Screwed

Dial:

White Aluminium with Black Marking

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Dynamic Gauges Pvt. Ltd.

Typical Applications

Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction. The filled liquid protects the internal parts against vibrations. Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system.

Standard Features

Nominal Sizes:
100 and 150mm

Design:
EN 837-1

Accuracy Class:
100, 150mm: $\pm 1.0\%$ FSD

Over-Range Protection:
130% of FSD

Liquid Filling:
Dry or Glycerine Fill

Enclosure Protection:
IP 65

Pressure Connection:
Bottom
Threaded Entry
100, 150mm: 1/4, 1/2" BSP/NPT

Mounting:
Bottom or Back Mounting

Special Features:
Solid-front stainless steel case
Excellent load-cycle stability and shock resistance
All stainless steel construction
Positive pressure ranges to 20,000

Special Versions / Optional / Extras:
+ Other Pressure connections



Bourdon Tube (Wetted Part) Material:
SS 316

Pointer:
Black Aluminium

Movement Material:
Stainless Steel

Pressure Element:
Material: Stainless Steel
 $\leq 100\text{kg/cm}^2$: C-type
 $> 100\text{kg/cm}^2$: Coil type

Window:
100, 150mm: Toughened/Safety Glass

Case Material:
Stainless Steel SS 304

Bezel Ring:
Stainless Steel Bayonet type

Dial:
White Aluminium with Black lettering

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Dynamic Gauges Pvt. Ltd.