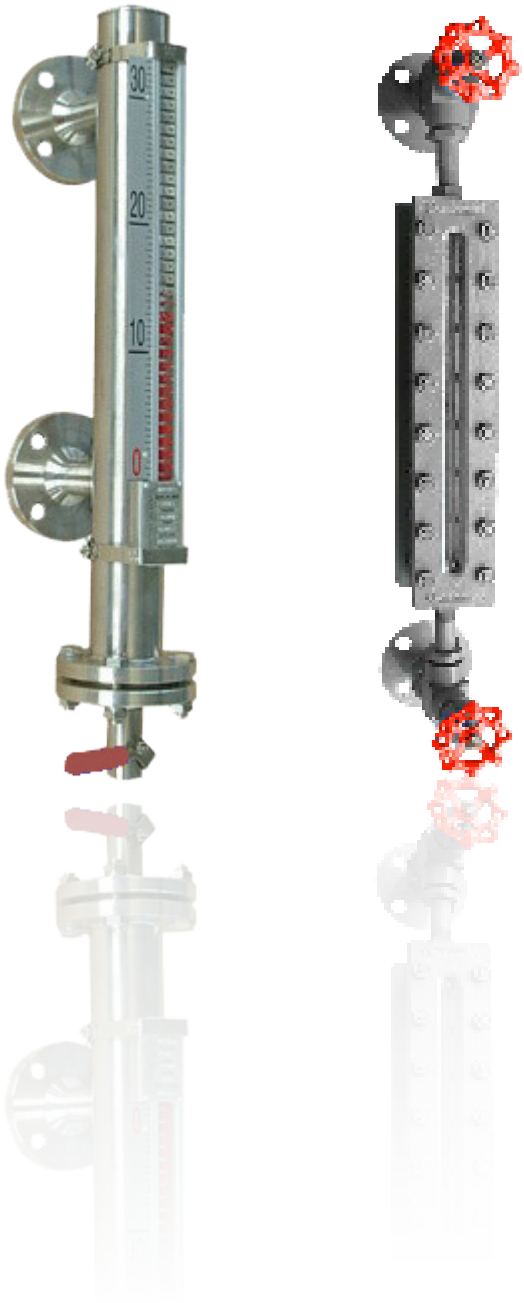


Gachman Level Gauges
- Magnetic
- Reflex
- Glass

Accessories
- Switches
- Transmitters

Gachman

Gauging tomorrow through continuous improvement

Gachman Pressure Gauges
- Bourden Tube Sensing
- Liquid filled
- Dry
- Glycerine filled
- Oil Filled

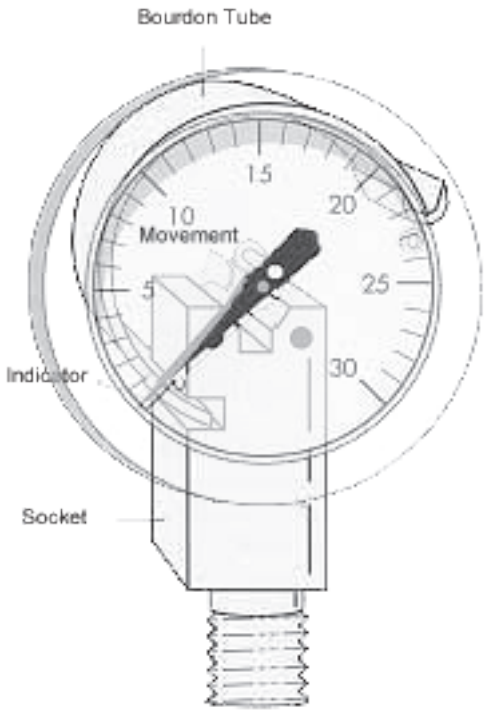
Pressure Gauges

Bourdon Tube Pressure Gauges

Education: How does it works?

he Bourdon pressure gauge uses the principle that a flattened tube tends to change to a more circular cross-section when pressurized. Although this change in cross-section may be hardly noticeable, and thus involving moderate stresses within the elastic range of easily workable materials, the strain of the material of the tube is magnified by forming the tube into a C shape, such that the entire tube tends to straighten out or uncoil, elastically, as it is pressurized.

In practice, a flattened thin-wall, closed-end tube is connected at the hollow end to a fixed pipe containing the fluid pressure to be measured. As the pressure increases, the closed end moves in an arc, and this motion is converted into the rotation of a (segment of a) gear by a connecting link that is usually adjustable. A small-diameter pinion gear is on the pointer shaft, so the motion is magnified further by the gear ratio. The positioning of the indicator card behind the pointer, the initial pointer shaft position, the linkage length and initial position, all provide means to calibrate the pointer to indicate the desired range of pressure for variations in the behaviour of the Bourdon tube itself.



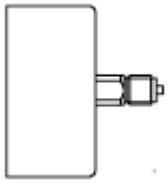
Bourdon tubes measure gauge pressure, relative to ambient atmospheric pressure, as opposed to absolute pressure; vacuum is sensed as a reverse motion. Some aneroid barometers use Bourdon tubes closed at both ends (but most use diaphragms or capsules, see below). When the measured pressure is rapidly pulsing, such as when the gauge is near a reprocating pump, an orifice restriction in the connecting pipe is frequently used to avoid unnecessary wear on the gears and provide an average reading; when the whole gauge is subject to mechanical vibration, the entire case including the pointer and indicator card can be filled with an oil or glycerin.

Through years of experience and evolution of the gauging device, Bourdon Tube Pressure gauges has adapted modern days application conditions and established itself in the industries. Gachman Bourdon Tube Pressure gauges has built in these consideration and provide the industries with reliable, hard wearing and precision product widely acknowledged by the industries.

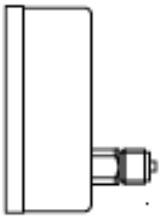
Pressure Gauges

Connection Options:

BD Connection



BC Connection



BB Connection

Type CS
Applications: Low viscousity process fluid with low copper alloy corrosiveness.
Design Standard: EN 837-1
Protection: IP65
Case material: Steel
Movement: CuZn Alloy
Scale: Bar, Psi or dual scales
Options: Explosion proof, special material.

Model no.
2CS-BD: 2-1/2” dial with direct bottom connection
4CS-BD: 4-1/2” dial with direct bottom connection
6CS-BD: 6” dial with direct bottom connection
2CS-BC: 2-1/2” dial with eccentric back connection
4CS-BC: 4-1/2” dial with eccentric back connection
6CS-BC: 6” dial with eccentric back connection
2CS-BB: 2-1/2” dial with back bottom connection
4CS-BB: 4-1/2” dial with back bottom connection
6CS-BB: 6” dial with back bottom connection

Option 1: Dry, oil filled or glycerin filled.
Option 2: Blowout disk
Available connection size: 1/4NPT, 1/2NPT

Pressure Gauges

Type SS
Applications: Low viscousity process fluid with low copper alloy corrosiveness.
Case material: Stainless Steel
Movement: CuZn Alloy
Scale: Bar, Psi or dual scales
Protection class: IP54, IP65

Model no.
2SS-BD: 2-1/2” dial with direct bottom connection
4SS-BD: 4-1/2” dial with direct bottom connection
6SS-BD: 6” dial with direct bottom connection
2SS-BC: 2-1/2” dial with eccentric back connection
4SS-BC: 4-1/2” dial with eccentric back connection
6SS-BC: 6” dial with eccentric back connection
2SS-BB: 2-1/2” dial with back bottom connection
4SS-BB: 4-1/2” dial with back bottom connection
6SS-BB: 6” dial with back bottom connection

Option 1: Dry, oil filled or glycerin filled
Option 2: Blowout disk
Available connection size: 1/4NPT, 1/2NPT

Despite our normal range of pressure gauge, we also custom made according to client’s special request. Such requirement include:
1) Case material
2) Connection Material
3) Scale color
4) Movement material
5) Glass material (safety glass, instrument glass, polycarbonat etc.)
6) Panel Mount
7) Case size

Please include the connection size when placing your orders. If have doubt, please consult your local distributors.