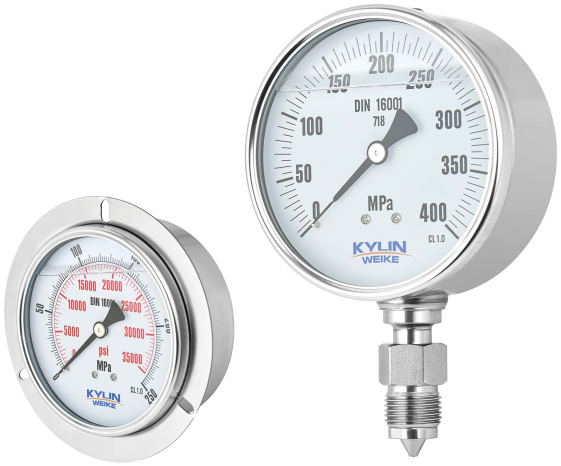
Bourdon tube pressure gauge for ultra-high pressure applications All-stainless steel structure Model: P600



Applications

- Suitable for liquid media in high-pressure applications
- Test bench
- Water jet cutting
- High pressure system
- Petrochemical industry

The P600 series is designed for high-pressure applications and can withstand pressures up to 600 MPa. It is manufactured in accordance with the requirements of the DIN 16001 high-pressure standard. This safety pressure gauge consists of laminated safety glass, a measuring system, a solid baffle, and an explosion-proof back plate. In the event of a failure, the operator in front of the instrument is protected because the medium or instrument parts can only be ejected from the back of the instrument.

Features

- All stainless steel construction
- Safety pressure gauge with solid baffle
- Accuracy class up to 1.0
- Under dynamic pressure, high cycle stability under high load

Specifications

Design
DIN 16001

Dial size(mm)
100,160mm

Accuracy class
1.0,1.6

Scale Range
0...1600 to 0...6000bar
Or all other equivalent vacuum or compound pressure and vacuum ranges

Permissible temperature
Ambient: -40 to+60 °C [-40 to +140 °F],dry
-20 to +60 °C [-4 to +140 °F],glycerin
-40 to+60 °C [-40 to +140 °F],silicone oil

Medium: -40 to +200 °C [-40 to+392 °F],dry
-20 to +100 °C [-4 to +212 °F], glycerin
-40 to +100 °C [-40 to+212 °F],silicone oil

Temperature effect
When deviating from the reference conditions of the measurement system:
≤ ±0.04% of full scale per °C (reference temperature: 20 °C)
≤ ±0.4% of full scale per °F (reference temperature: 68 °F)

Pressure limitation
Steady: 3/4X full scale range
Fluctuation: 2/3X full scale range
Short Time: full scale range

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Model: P600

Specifactions

Process connection
Stainless steel 316L
NS 100: Lower mount (radial) or back mount(axial)
NS 160: Lower mount (radial)
■G1/2 B,male thread (up to max.2,500 bar)
■9/16- 18 UNF (female thread) with 60° sealing cone
■9/16- 18 UNF (male thread) with 60° sealing cone
■M16x 1.5 (female thread) with inner sealing cone 60°
■5/8- 18 UNF (female thread) with inner sealing cone 60°
others on request

Pressure element
■Ni-Fe alloy, helical type
■Lnconel 718(Optional)

Movement
Stainless steel

Dial
Aluminum alloy, white

Ingress protection
IP 65,comply with EN 60529 / IEC 529 standard

Pointer
Aluminium, black

Case
Stainless steel

Window
Multi-layer safety glass

Case filling liquid
■Dry
■Glycerin
■Silicone oil

Ring
Stainless steel,bayonet ring

Options
■Front flange (axial)
■Back flange (radial)
■Accuracy class 1.0
■Accuracy class 0.6
■" "

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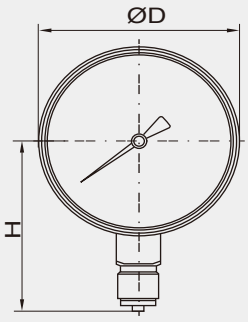
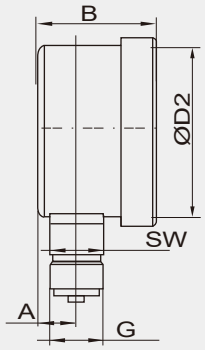
Dimensions in mm

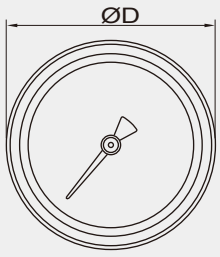
Bottom mount(radial)

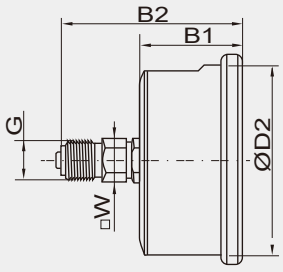




Dial size	Dimensions in mm						Weight(kg)	
	A	B±0.5	D	G	H±1	SW	Dry gauge	liquid gauge
100	9.5	28	40	DN10orKJ10	60	22	0.13	0.15
160	9.5	31	52	DN10orKJ10	62	17	0.15	0.18

Back mount(axial)





Dial size	Dimensions in mm						Weight(kg)	
	B1	B2±0.5	D	G	D2	SW	Dry gauge	liquid gauge
100	9.5	28	40	DN10 or KJ10	60	22	0.13	0.15
160	9.5	31	52	DN10 or KJ10	62	17	0.15	0.18

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Model
P600

Dial size(mm)
(100)-100mm

(160)-160mm

Process connection location
(L)-Bottom mount(radial)

(B)-Back mount(axial)

Case filling
(D)-Dry

(L)-Glycerin

(S)-Silicone oil

Process connection sizes
(04)-G1/2 B,male thread (up to max.2,500 bar)

(26)-9/16- 18 UNF (female thread) with 60° sealing cone

(13)-9/16- 18 UNF (male thread) with 60° sealing cone

(45)-M16x 1.5 (female thread) with inner sealing cone 60°

(15)-5/8- 18 UNF (female thread) with inner sealing cone 60°

Others on request

Option
(FF)-Front flange (axial) (A1)-accuracy class 1.0

(BF)-Back flange (radial) (A4)-Accuracy class 0.6 (N/A) -" "

Scale Range(coding examples only, see range table on page 4 for all standard ranges)
0.3BR=0...0.3bar N=Vaccum range

0.3KG=0...0.3kg/cm^2 N1/3BR="-1...3bar"

6KP=0...6kPa

0.6MP=0...0.6MPa

30#=0...30psi

Bar	Psi
2,000BR	30,000#
2,500BR	40,000#
3,000BR	50,000#
4,000BR	60,000#
5,000BR	75,000#
6,000BR	85,000#

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