

The selection is detailed on page 4



# G75

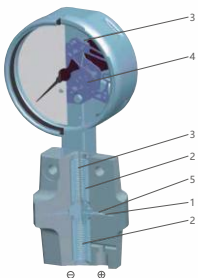
## Diaphragm Type Differential Pressure Gauge

### Working principle

The high and low pressure of the measuring chamber are isolated from the atmosphere by a bellows (2) separated by a diaphragm (1)

Measuring the pressure difference between the high and low pressure of the medium cavity acts on the measuring sensor to cause its axial movement (measuring displacement).

The measured displacement is transferred to the drive movement (4) by connecting rod (3). The drive movement converts the measured displacement into pointer rotation. Overload resistance is achieved by means of a metal bed surface (5).



Follow the installation symbol to install  
⊕ High tension ⊖ Low pressure

### Product description

The G75 differential pressure gauge is made of highly corrosion-resistant stainless steel, and the all-metal, all-welded measuring chamber ensures long-term tightness (no elastic seals).

These differential pressure gauges not only have an all-metal construction, but also have a tight-knit pressure measuring diaphragm for high overload safety.

Thanks to its high-grade stainless steel construction and robust design, the differential pressure gauge is ideal for chemical and process engineering applications. In addition, this type of pressure gauge supports application to gaseous or liquid media, suitable for corrosive environments.

An optional low-temperature version allows the temperature to be reduced to  $-70^{\circ}\text{C}$  ( $-94^{\circ}\text{F}$ ).

The measuring range of the instrument is 0... 1.6KPa to 0... 2.5MPa to meet a wide range of application requirements.

### Product application

Suitable for corrosive gas and liquid media that are not high viscosity or not easy to crystallize

Corrosive environment

Monitor pump and control pump

Monitoring filter

Liquid level measurement in sealed tanks

### Functional characteristics

Differential pressure measurement range: 0... Up to 1.6KPa

High working pressure (static pressure), up to 4 MPa

High overload safety, up to 4 Mpa

All welded measuring chamber

Optional: Low-temperature version  
The ambient temperature can be as low as

$-70^{\circ}\text{C}$  ( $94^{\circ}\text{F}$ )



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For more product information, please visit [www.ludwig-schneider.com.cn](http://www.ludwig-schneider.com.cn)

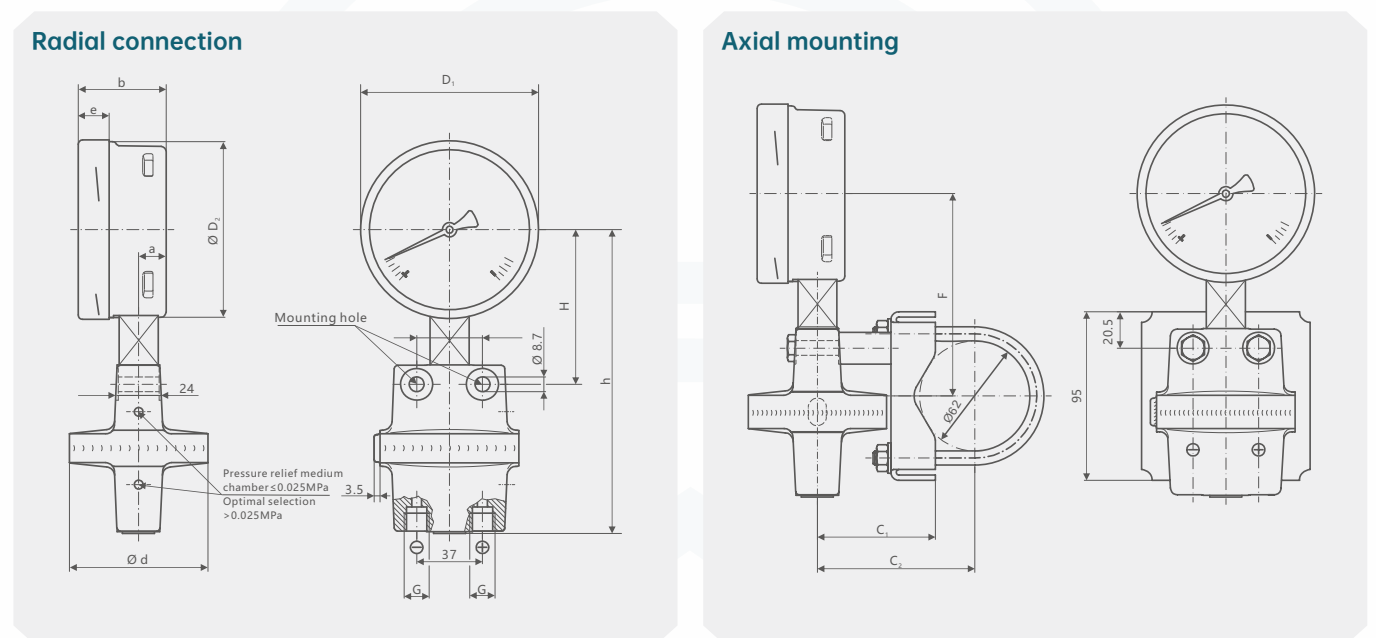
## Technical parameter

Design	Meets the EN837-3 standard
Standard size (mm)	100
Precision class	1.0
	1.6
Range	0... 1.6KPa to 0... 2.5 MPa
	Scale range 0... 1. The 6kPa scale length is about 180°
	All other equal negative pressure ranges or combined positive and negative pressure ranges
<b>Pressure limit</b>	
▪ Static pressure	Static pressure: full scale
▪ Dynamic pressure	Dynamic pressure: 0.9x full scale value
Temperature effect	±0.3%/0.1MPa {0... 1.6KPa to 0... 2.5 KPa}
	±0.04%/0.1MPa {0... 40KPa to 0 ... 2.5 MPa}
<b>Allowable temperature</b>	
▪ Environment	- 20... 60 °C
	- 40... 60°C(silicone oil filled)
	- 70... 60°C(low temperature version)
▪ Medium	100 °C or less
Temperature effect	When the temperature of the measuring system fluctuates around the reference temperature (+20 ° C), the maximum change is ± 0.5% /10K of the range
Class of protection	IP54, according to EN 60529/IEC 60529 (liquid filled, IP65)
<b>Material</b>	
▪ Measuring chamber with pressure interface	316L stainless steel
▪ Measuring system sensors	≤0.025MPa / 316L stainless steel
	>0.025MPa/Inconel
▪ Bellows	316L stainless steel
▪ Measure the pressure relief of the media cavity	316L stainless steel
	≤0.025MPa [Pressure range >0.025MPa, contact with measuring medium, (optional)]
Installation mode	Use rigid pipe installation
	Measuring flange mounting holes
	Panel mounting flange (optional)
	Mounting brackets for wall or pipe installation (optional)
Process connection	G1/4 (Internal thread)
传动机芯	Stainless steel
Dial plate	Aluminum, white background, black print
Pointer	Standard reference pointer, aluminum, black
	Adjustable reference pointer, aluminum, black
Shell	Stainless steel
Watch glass	With pressure relief hole
	Multilayer safety glass
Mosaic ring	Bayonet ring, CRNI-stainless steel

Technical parameter

Pressure range	Maximum working pressure MPa		Overvoltage protection	
	Static pressure		One way or two way maximum MPa	
	Standard	selectable	Standard	Selectable
0..1.6 to 0..4KPa	0.25	0.6	0.25	-
0..6 to 0..25KPa	0.6	1	0.25	0.6
0..40KPa	2.5	4	0.4	4
0..0.06MPa	2.5	4	0.6	4
0..0.1MPa	2.5	4	1	4
0..0.16MPa	2.5	4	1.6	4
0..0.25 to 0..2.5MPa	2.5	4	2.5	4

Size mm



NS	Pressure range	Size mm												weight kg
		a	b	D1	D2	d	e	G	h	H	F	C1	C2	
100	>0.025MPa	15.5	49.5	101	99	78	17.5	G1/4	170	87	114	66	88	1.90

Range table

Positive pressure	code	MPa	code	Bar	code	kPa	code	kg/cm <sup>2</sup>	code	Psi
		MP001	0/0.1	BP001	0/1	KP001	0/100	GP001	0/1	PP1E5
	MP1E6	0/0.16	BP1E6	0/1.6	KP1E6	0/160	GP1E6	0/1.6	PP003	0/30
	MP2E5	0/0.25	BP2E5	0/2.5	KP2E5	0/250	GP2E5	0/2.5	PP006	0/60
	MP004	0/0.4	BP004	0/4	KP004	0/400	GP004	0/4	PP010	0/100
	MP006	0/0.6	BP006	0/6	KP006	0/600	GP006	0/6	PP016	0/160
	MP010	0/1	BP010	0/10	KP010	0/1000	GP010	0/10	PP020	0/200
	MP016	0/1.6	BP016	0/16	KP016	0/1600	GP016	0/16	PP030	0/300
	MP025	0/2.5	BP025	0/25	KP025	0/2500	GP025	0/25	PP040	0/400

## G75-Selection composition

 Selection example **G75**

A	B	E	KP006	N	Q	R	Y	S
1	2	3	4	5	6	7	8	9

1.Dial diameter mm	<b>A</b>	100
2.Precision class	<b>B</b>	1.0
	<b>C</b>	1.6
3.liquid-filled	<b>D</b>	Glycerin
	<b>E</b>	Silicone oil
	<b>N</b>	without
4.Measuring range	-	See range table (page 3)
5.Second range unit	<b>G</b>	MPa
	<b>H</b>	Bar
	<b>I</b>	KPa
	<b>J</b>	kg/cm <sup>2</sup>
	<b>K</b>	Psi
	<b>N</b>	without
6.Process connection	<b>N</b>	1/2NPT
	<b>O</b>	1/4NPT
	<b>P</b>	M14*1.5
	<b>Q</b>	M20*1.5
	<b>R</b>	M27*2
	<b>S</b>	G1/2B
	<b>Z</b>	G1/4B
	<b>T ( )</b>	Other connections
7.Installation mode	<b>R</b>	Radial direction
8.Watch glass	<b>X</b>	PC plastic
	<b>Y</b>	Safety glass
9.Material	<b>S</b>	304SS
	<b>L</b>	316L
	<b>T ( )</b>	Other materials
10.Special requirements	<b>D</b>	Degrease
	<b>E</b>	Oxygen application ≤160bar
	<b>F</b>	without
11.certificate	<b>A</b>	2.1 Measurement report
	<b>B</b>	3.7 Inspection certificate
	<b>N</b>	without
12.Additional description	<b>Z</b>	There are
	<b>N</b>	without

## Instructions:

It indicates that the dial diameter of the G75 differential pressure gauge is 100mm, the accuracy level is 1.0%, the seismic resistance is filled with silicone oil, the measuring range is 0~600kPa, there is no second measuring range unit, the process connection M20\*1.5, the radial installation, the safety glass, the body material is 304SS. Items 10/11/12 in the above table are not required

## Product Certification

Compliance and approval; Rodewieg pressure meets key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;