# The selection is detailed on page 4





# **A61** 63mm Dial **Diaphragm Table**

**Product description** 

Working principle

A61 type bellow pressure gauge mainly relies on the bellow as an gas pressure is transferred to the

induction element to measure the pressure. The outside of the bellow is welded with a connecting rod and connected to the gear movement. When the bellow, the wall of the bellow will deform and change with the change of pressure. The measured value is indicated on the dial by a pointer fixed on the gear shaft.

systems. The diaphragm measurement principle is particularly suitable for low pressure conditions. When pressurized, the diaphragm element expands in proportion to the incident pressure, and the expansion signal is transmitted to the movement and displayed on the dial. The case and bayonet ring are stainless steel. The process connector is 304 stainless steel. The modular design ensures a wide range of case materials, process connections, dial sizes and range combinations. Therefore, the product can be widely used in various industrial applications. If mounted on the control panel, the diaphragm gauge can be fixed with

depending on the type of process connection.

The A61 Diaphragm gauge is a proven gauge for diaphragm measuring

surface mounting flanges, triangular frames or mounting brackets,

# Product application

Measure the pressure of a dry, corrosive or ambient corrosive gas medium

With a liquid-filled housing, it can be used in applications with high dynamic pressure pulses or vibrations

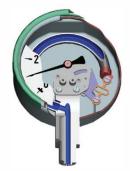
Process industries: chemical, petrochemical, pharmaceutical, biotechnology, machinery and power generation industries

### **Functional characteristics**

Zero correction from front

304SS/316L all stainless steel construction

Special pressure interface positions are available on request Measuring range: 0... 60KPa





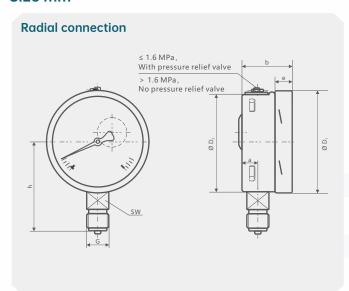


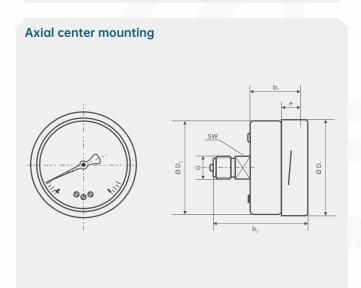
# **Technical parameter**

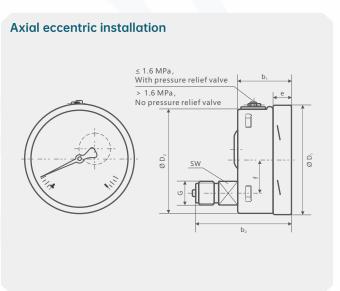
Design	Meets the EN837-3 standard							
Standard size (mm)	63/150							
Precision class	1.0							
	1.6							
Range	0 0.6KPa to 0 60KPa							
Pressure limit								
■ Static pressure	full-scale							
■ Dynamic pressure	0.9x full scale value							
Allowable temperature								
■ Environment	- 20 60 °C							
■ Medium	Max. +100°C							
Temperature effect	When the temperature of the measuring system fluctuates around the reference temperature (+20 $^{\circ}$ C), the maximum change is $\pm$ 0.6% /10K of the range							
Class of protection	IP54, compliant with EN 60529/IEC 60529 (liquid filled, IP 65)							
Connection material	304SS/316L stainless steel							
Installation mode	Radial or axial							
Process connection	NS 100, G1/2B (external thread), SW 22							
Pressure element	316L stainless steel							
Diaphragm seal ring	FPM/FKM							
Drive movement	Stainless steel							
Zero adjustment	There are bolts on the front							
Dial plate	Aluminum, white background, black print							
	Adjustable reference pointer							
Pointer	Aluminum, black							
Shell	CrNi- stainless steel							
Watch glass	Multilayer safety glass							
Mosaic ring	Bayonet ring, CRNI-stainless steel							
Filling solution	Glycerin 86.5%							
Optional parameter	Allowable ambient temperature -40 +60°C (filled with silicone oil)							
	Panel or surface mounting flange							
	Other process connection							



# Size mm







NS	Size mr	n										weight
	а	b	b1	b2	D1	D2	е	f	G	h±1	SW	kg
63	9.5	42	42	63	64	62	22	-	G1/4B	52	22	0.19
150	15.5	49.5	49.5	83	151	149	17.5	50	G1/2B	118	22	1.10

# Range table

Positive	code	kPα
pressure	KP006	0/6
	KP010	0/10
	KP016	0/16
	KP025	0/25
	KP040	0/40
	KP060	0/60





A61-Selection composition

ial diameter m	m A	63									
	В	150									
2.Precis	ion class	С	1.0								
D 1.6											
	3.liquid-										
			F	Silic	one oil						
	N				without						
	4.1	/leasurir		-		See range table (page 3)					
		.Measuring range 5.Second range		nae uni		MPa					
		0.0	7000114114		Н						
					T i	КРа					
					J	kg/cm²					
					K						
							without				
			6 Dr	00000 0	Nonnection	Р	1/2NPT				
				00033 0	Jillection	Q		20*1.5			
						R	M27*2				
					-	S	G1/2B				
					-	T( )		er connections			
				61	l.Flange cor		U DN15				
				(TI	nreaded co		V	DN2			
				no	t optional)		W	DN2			
							Χ	DN32	2		
							Υ	DN4	)		
							Z	DN5			
							Е	DN6			
							F	DN80			
				7.	المعمد		T( )	Other specifications			
				/.l	7.Installation mode			Radial direction			
								Axial direction			
						W	Shaft forward edging (three-hole mounting)				
					X			Radial front edge (three-hole mounting)			
						Υ	The shaft is mounted on the rear bracket				
				8.	Watch	glass	A PC plastic				
					В		y glass				
						9.1	nateri	al	S	PC plastic	
									1	Safety glass	



### Instructions:

description

Ν

without

It indicates that the diameter of the dial of the A61 pressure gauge is 150mm, the accuracy level is 1.0%, the vibration resistance is filled with silicone oil, the measuring range is 0~6.0kPa, 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; Rodeweig pressure gauges meet key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;



