Stainless Steel Pressure Gauge

Product Overview

Stainless steel pressure gauges are widely applied in the fields of petroleum, chemicals, chemical fiber, metallurgy, power plants, etc. They have high demand for anti-corrosive and anti-vibration in process pressure measurement

Theory

Pressure gauge is consisted of tapping system (including connections, bourdon tube, block), movement, indication (pointer and dial) and housing (case, window and glass). The housing is splash-proof type to prevent dirty into movement. The liquid filled pressure gauge (normally silicon oil) is anti strong vibration from working environment and can also decrease the ripple effect from the medium. Pressure Gauges are constructed with a bourdon tube sensing element. When the sensing element is subjected to pressure, it flexes and the resulting motion is transmitted as a measurement through a mechanical movement to the dial face pointer.

Specification

- Size: 60,100,150
- Accuracy: 1.6%, 2.5%
- Connection: M14×1.5,M20×1.5,1/4NPT,1/2NPT.,etc.
- Wetted parts material: stainless steel
- Glass: Safety explosion-proof glass
- Dial: Black word and white dial.
- Protection level: IP64
- Environment Temperature:-5~55 ℃ (with glycerin oil); -25~55 ℃ (with silicon oil) ;-40~70°C (without filled liquid)
- Anti-Vibration : V • H • 4(with filled liquid), V • H • 3(without filled liquid),
- Medium Temperature: Max 100°C
- Temperature Effect: ≤ 0.4%/10 °C(reference temperature 20±5°C)
- Dual scales

Material

Table1

Part	Material	
	YF-60	YF-100,150
Connector	Stainless steel 304	Stainless steel 316
Bourdon tube	Stainless steel 321	Stainless steel 316
Case	Stainless steel 304	

Model Selection

Table2

Item	Code	Description
Product	Y	Pressure Gauge
Function	F	Stainless steel material
	FN	Stainless steel material and liquid filled
Diameter	60	Φ60mm
	100	Φ100mm
	150	Φ150mm
Mounting	AO	Bottom mounting
	AT	Bottom mounting with front flange
	AH	Bottom mounting with back flange
	ZO	Back mounting
	ZT	Back mounting with front flange
	BO	Lower back mounting
	BT	Lower back mounting with front flange
	ZK	Back U clamp mounting
	BK	Lower back ,U clamp mounting
	S	Others
Connection	C1	Thread M14×1.5
	C2	Thread M20×1.5
	C3	Thread 1/4NPT
	C4	Thread 1/2NPT
	Cx	Others
Measuring Range	M***	Refer to range table

Table3

Table of Ranges					
Code	Ranges	Code	Ranges	Code	Ranges
M500	-0.1~0MPa	M010	0.06MPa	M160	2.5MPa
M510	-0.1~0.06MPa	M030	0.1MPa	M180	4MPa
M520	-0.1~0.15MPa	M040	0.16Mpa	M200	6MPa
M530	-0.1~0.3MPa	M060	0.25MPa	M220	10MPa
M540	-0.1~0.5MPa	M080	0.4MPa	M230	16Mpa
M550	-0.1~0.9MPa	M100	0.6MPa	M240	25MPa
M560	-0.1~1.5 MPa	M120	1MPa	M270	40Mpa
M570	-0.1~2.4 MPa	M140	1.6MPa	M280	60Mpa
				M290	100MPa

Measuring range and Accuracy

Table4

Model	Measuring range	Accuracy (2.5%)
YF-60	M500,M510,M520,M530,M540,M550,M560,M570,M010, M030,M040,M060,M080,M100,M120,M140,M160,M180, M200,M220,M230,M240,M270,M280	2.5
YF-100,150	M500,M510,M520,M530,M540,M550,M560,M570,M010, M030,M040,M060,M080,M100,M120,M140,M160,M180, M200,M220,M230,M240,M270,M280,M290	1.6

Dimensions

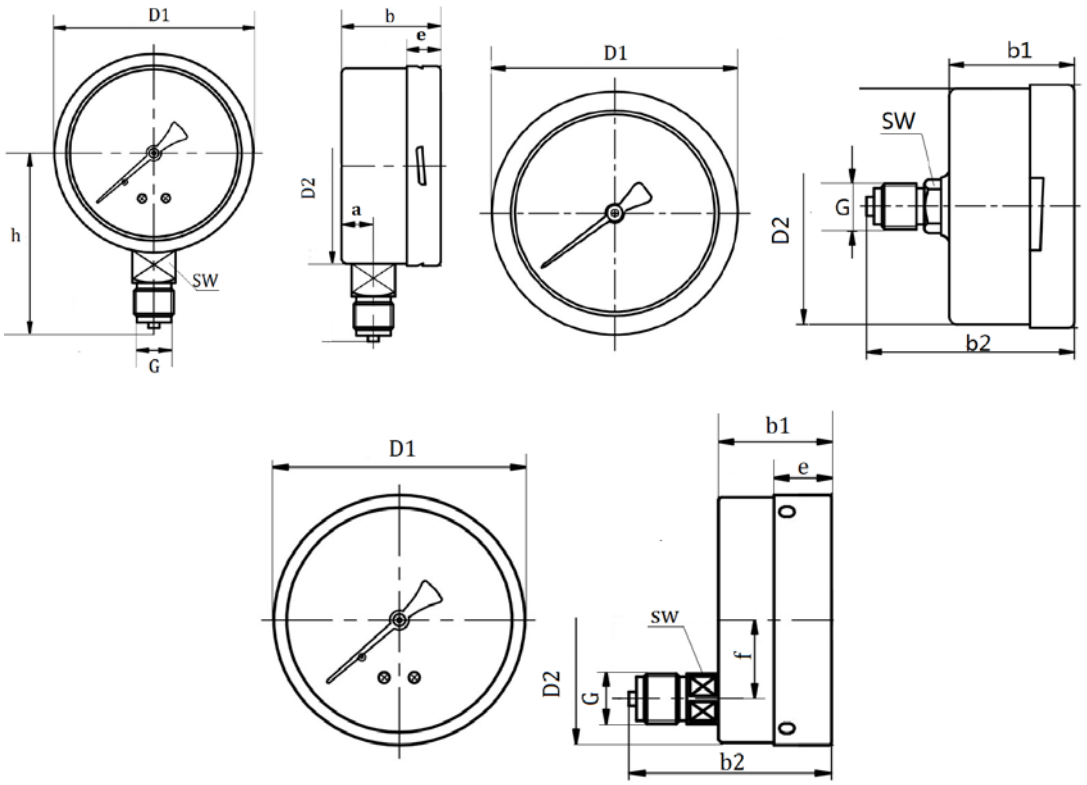

Table 5

Size	a	b	b1	b2	D1	D2	e	f	G	h	SW
60	9	31	31	58	68	61	6	-	M14*1.5	58	14
100	17	50	49	97	101	99	17	30	M20*1.5	90	22
150	17	50	50	97	151	149	17	30	M20*1.5	116	22