

Model M400 Schaeffer Type Pressure Gauge



The Schaeffer Pressure Gauge Model M400 has a Diaphragm as the sensing element. Diaphragm seals creates a barrier between the process media and the pressure sensing element, without compromising the instrument's sensitivity or accuracy.

Diaphragm Seals are typically made from a thin pressure-sensitive film out of metal or PVDF based on the process media. Protect your measuring Instruments from freezing, suspended impurities & slurries.

These instruments are more reliable and easy to protect against overpressure than the Bourdon tube type.

Application

- ◆ Mining
- ◆ Oil & gas
- ◆ Chemical Processing
- ◆ Power Generation
- ◆ Food Processing
- ◆ Water Treatment
- ◆ Pharmaceuticals, and more.

Features

- ◆ Compact Design
- ◆ Optimum Fill Fluid for Maximum Flexing of the Diaphragm
- ◆ Various Combinations of Top, Bottom Housing
- ◆ Various options Diaphragm Materials to suit your Process Requirements
- ◆ Various Process and Instrument Connection options available
- ◆ 3.1 Certificates
- ◆ Pulsation Dampener as Option
- ◆ Overpressure Protector as Option
- ◆ Syphon as Option
- ◆ Needle Valve as Option
- ◆ Optional Accuracy of +1.0% of FS



Specifications

Accuracy	: $\pm 1.6\%$ of FS
Ambient Temperature	: -25°C to $+65^{\circ}\text{C}$
Dial Size	: 100, 150 mm
Internals	: SS 316L
Sensing Element	: Diaphragm Type SS316
Top Chamber	: SS 316, SS 316L
Bottom Chamber	: SS 316, SS 316L
Case	: AISI 304 SS, SS316
Ring	: AISI 304 SS, Bayonet Type
Protection	: IP 66
Dial	: Aluminium, Black Graduation on White Background
Pointer	: Aluminium, Black painted
Window	: Shatter Proof Safety Glass
Pressure Range	: 0 ~ 25 bar, Vacuum & compound : $-1/+24$ bar
Process Connection	: 1/2" NPT (M), 1/4" NPT (M)
Mounting	: Bottom

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Ordering Information

Description	Code
Dial Size	1
100 mm	100
160 mm	160
Model	2
Schaeffer Pressure Gauge	M400
Mounting	3
Bottom Connection	BT
Process Connection Size	4
1/2" NPT (M)	4MN
1/4" NPT (M)	2MN
Diaphragm Material (Wetted Part)	5
SS 316 L	SL
SS 316L with Teflon Coated	ST
Range	6
Refer to the Chart 1	
Units	7
Refer to the Chart 1	
Options	8
Case in SS 316	SS
Safety Glass Window	SG
Pulsation Dampener	PD
Over Pressure Protector	OP
Material Test Certificate	MT
5 Points Calibration Certificate	CC
SS Tag	TP
Dampened Movement	DM

Chart 1

Pressure Gauge Ranges		Vacuum Gauge Ranges	
bar	mbar	bar	mbar
0 ~ 0.6		-1 ~ 0	-25 ~ 0
0 ~ 1		-1 ~ +0.6	-40 ~ 0
0 ~ 1.6	0 ~ 16	-1 ~ +1.5	-60 ~ 0
0 ~ 2.5	0 ~ 25	-1 ~ +3	-100 ~ 0
0 ~ 4	0 ~ 40	-1 ~ +9	-160 ~ 0
0 ~ 6	0 ~ 60	-1 ~ +15	-250 ~ 0
0 ~ 10	0 ~ 100	-1 ~ +24	-400 ~ 0
0 ~ 16	0 ~ 160		-40 ~ +20
0 ~ 25	0 ~ 250		-60 ~ +40
	0 ~ 400		-100 ~ +60
			-150 ~ +100
			-250 ~ +150

Other ranges and Dual scales are available on request

Sample Model Selection Code

Dial Size :	100 mm
Model :	M400 - Schaeffer Pressure Gauge
Mounting :	BT = Direct Bottom
Process Connection :	4MN = 1/2" NPT M
Wetted Parts :	SS = 316 Stainless Steel
Range :	Range : 0 ~ 4
Units :	bar
Optional Extras :	
SG	Shatter Proof Safety Glass
PD	Pulsation Dampener
CC	5 Point Calibration Certificate
TP	AISI 316L Tag Plate

1	2	3	4	5	6	7	8			
100	M400	BT	4MN	SL	0/4	bar	SG	PD	CC	TP

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