

Diaphragm-Type Sanitary Gauge Type M93X.25

WIKA Datasheet M93X.25

Applications

- Pharmaceutical Industry
- Biotechnology
- Food & Beverage

Standard Features

Design

External, flush diaphragm with Tri-Clamp® connection, requires hydraulic fluid to transmit pressure to instrument. Unit is autoclaveable when dry case and polysulfone window are specified.

Process Connection

¾" & Tri-Clamp® per ISO 2558

Pressure Ranges

1,200 psi maximum, limited by installed clamp rating

Operating Temperature

Media: +10°F to 100°C (standard)
(>100°C available - consult factory)
Stainless steel case with vent plug
Ambient: +10°C to 60°C

External Zero Adjust

Gauge Size

2½", lower mount

Dial

White aluminum with black lettering

Accuracy (Ref. 73°F)

±2/1/2% full span (ASME B40.100, Grade A)

Available Options (Connections, materials, etc.):

See Selection Guide on page 3

Temperature Error (Ref. 73°F)

±1.3 psi / 18°F (10°C)



Fig. left M93X.25 Sanitary Gauge
Fig. right Clean Steam Assembly

Wetted Parts

316L SS, electro-polished
RA ≤ 20 µin except weld seam

System Fill (FDA Approved)

Glycerine, 99.7%: Non-vacuum applications
Mineral Oil, Neobee M20,
350cST Food Grade Silicon Oil

Material Identification and Heat Numbers

Engraved in seal body or gauge case

Case Material

Polished stainless steel case with vent plug
and stainless steel polished ring

Window

Standard polycarbonate
Polysulfone available (with dry case, weep holes)

Serial Number

Engraved on back of case

Pointer

Black aluminum

Documentation

Calibration Conformance Report supplied with each assembly (not a direct substitute for NIST certificate).
Material Conformance documents supplied with each assembly (not a substitute for 3.1 material certificate)

Available Options

See selection guide (over)

Glycerine case fill

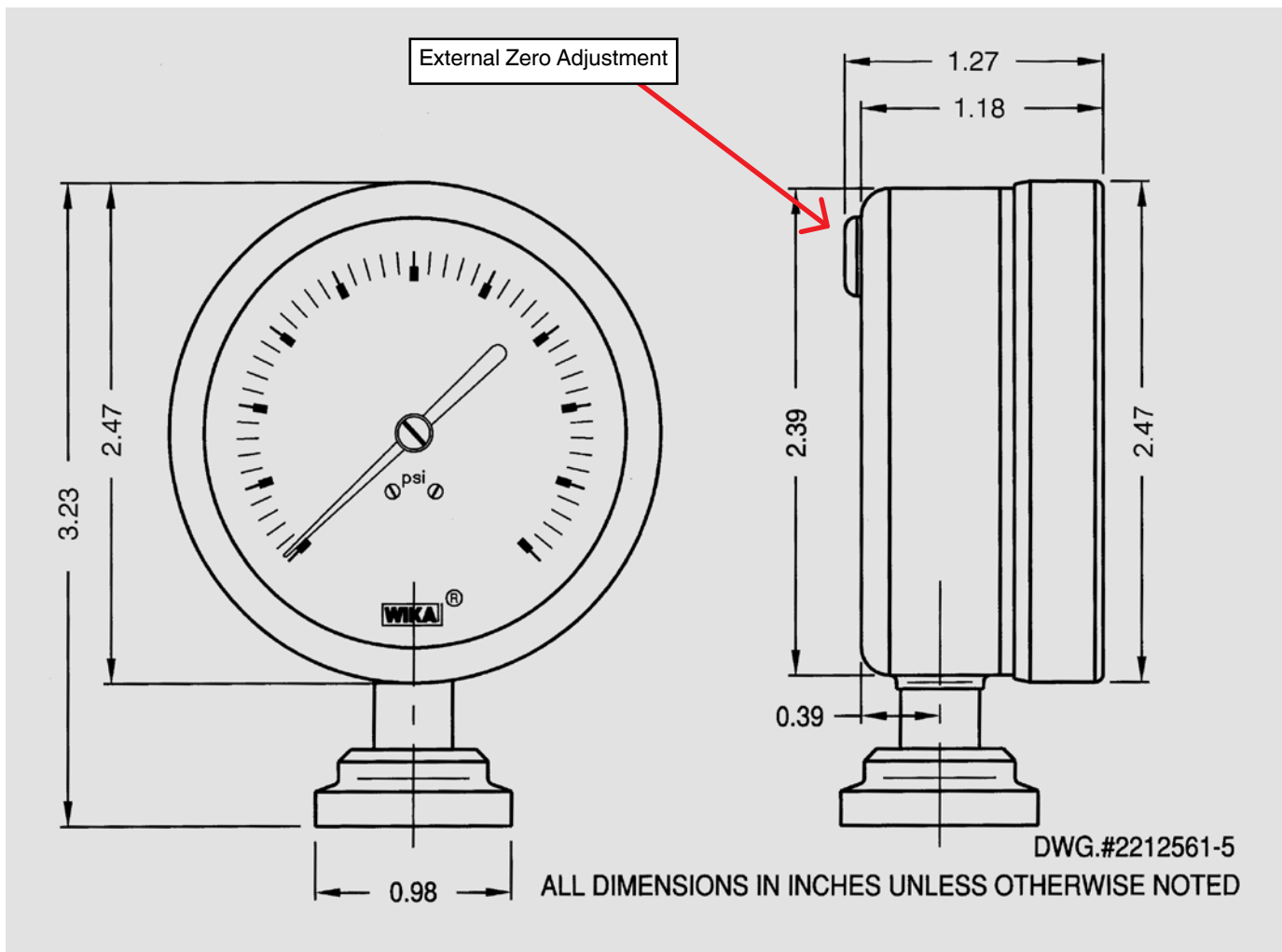
External zero adjust

Autoclaveable (dry case only, weepholes)

Clean steam assembly with integral cooling element

EPDM gasket (consult factory)

To determine the effects of temperature and response time in a specific application, contact the factory for an **Application Questionnaire**. The information provided will allow WIKA Technical Support to accurately model your application parameters using state-of-the-art computer simulation techniques.



M93X.25 Selection Guide

Field no.	Code	Description - 2½" Gauge with Diaphragm Seal - all SST Internals	Field no.	Code	Description - 2½" Gauge with Diaphragm Seal - all SST Internals	
1	Pressure Range		5	Wetted Parts Material		
	C030	-30 inHg ... 30 psi Compound range		ES	Electropolished 316L SS (1.4435) Ra ≤ 20 µin	
	C060	-30 inHg ... 60 psi Compound range		HC	Hastelloy C276 (2.4819)	
	C100	-30 inHg ... 100 psi Compound Range		XX	Other - consult factory	
	C160	-30 inHg ... 160 psi Compound Range		System Fill		
	P030	30 psi Gauge pressure range		07	KN7 - Glycerine 99.7% USP (1000 cst) - FDA 21 CFR 182.1320 (see note 1)	
	P060	60 psi Gauge pressure range		59	KN59 - Neobee M20 - FDA 21 CFR 172.856, 174.5	
	P100	100 psi Gauge pressure range		92	KN92 - Mineral Oil LubePharm (23 cst) - FDA 21 CFR 172.878, 178.3620 (a); USP, EP	
	P160	160 psi Gauge pressure range		93	KN93 - Silicone Oil DC200 (350 cst food grade) - FDA 21 CFR 173.340	
	P200	200 psi Gauge pressure range		6	XX	Other - consult factory
	P300	300 psi Gauge pressure range		Window Material		
	P400	400 psi Gauge pressure range		LPC	Polycarbonate	
	P600	600 psi Gauge pressure range		LPS	Polysulfone	
	XXXX	Other - consult factory		Options (see note 2)		
2	Pressure Units		7	Options (see note 2)		
	PX	PSI - Single scale		FGL	Glycerine case fill - change model # to M933.25	
	PC	PSI outside / KG/CM ² inside in red		XMT	Material Certificate 3.1 EN10204 (metal only) (see note 3)	
	PK	PSI outside / KPA inside in red		WSS	Instrument tag, Stainless steel	
	PB	PSI outside / BAR inside in red		DZA	External Zero Adjust	
3	Pressure Location		8	CE1	Integral cooling element (Tmax 300°F)	
	LM	Lower Mount		XAC	Autoclave design, case with 2 weep holes (see note 4)	
4	Process Connection		XNI	NIST - Certificate of Calibration		
	75	¾" Tri-Clamp® connector				
	10	1" Tri-Clamp® connector				
	XX	Other - consult factory				

- Notes:
- 1) Glycerine (07) is not available for vacuum & compound pressure measurement ranges or autoclave design. Consult factory for exceptions.
 - 2) List options in alphabetical order at the end of the configuration code.
 - 3) All product under this model series is provided with calibration protocol, electro-polished finish, and material based information report as standard.
 - 4) Autoclave design requires Polysulfone window (WPS) and dry gauge case (932.25).

Order Code:

1
2
3
4
5
6
7
8

M93 **.25** - - -

*Additional order details _____

NOTE: If gauge is to be used in Autoclave, order a dry case and polysulfone window.

Specifications given in this price list represent the state of engineering at the time of printing. Modifications may take place and the specified materials may change without prior notice.

Ordering information

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required. Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



WIKA Instrument, LP
 1000 Wiegand Boulevard
 Lawrenceville, GA 30043-5868
 Tel: 888-WIKA-USA • 770-513-8200
 Fax: 770-338-5118
 E-Mail: info@wika.com
 www.wika.com