Diaphragm-Type Sanitary Gauge
Type M932.25 - Dry Case
Type M933.25 - Liquid Filled Case

Applications

- Pharmaceutical Industry
- Biotechnology
- Food & Beverage

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

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" & 1" Tri-Clamp® per ASME BPE, Type A

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

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)

Wetted Parts
316L SS, electro-polished
RA ≤ 15 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

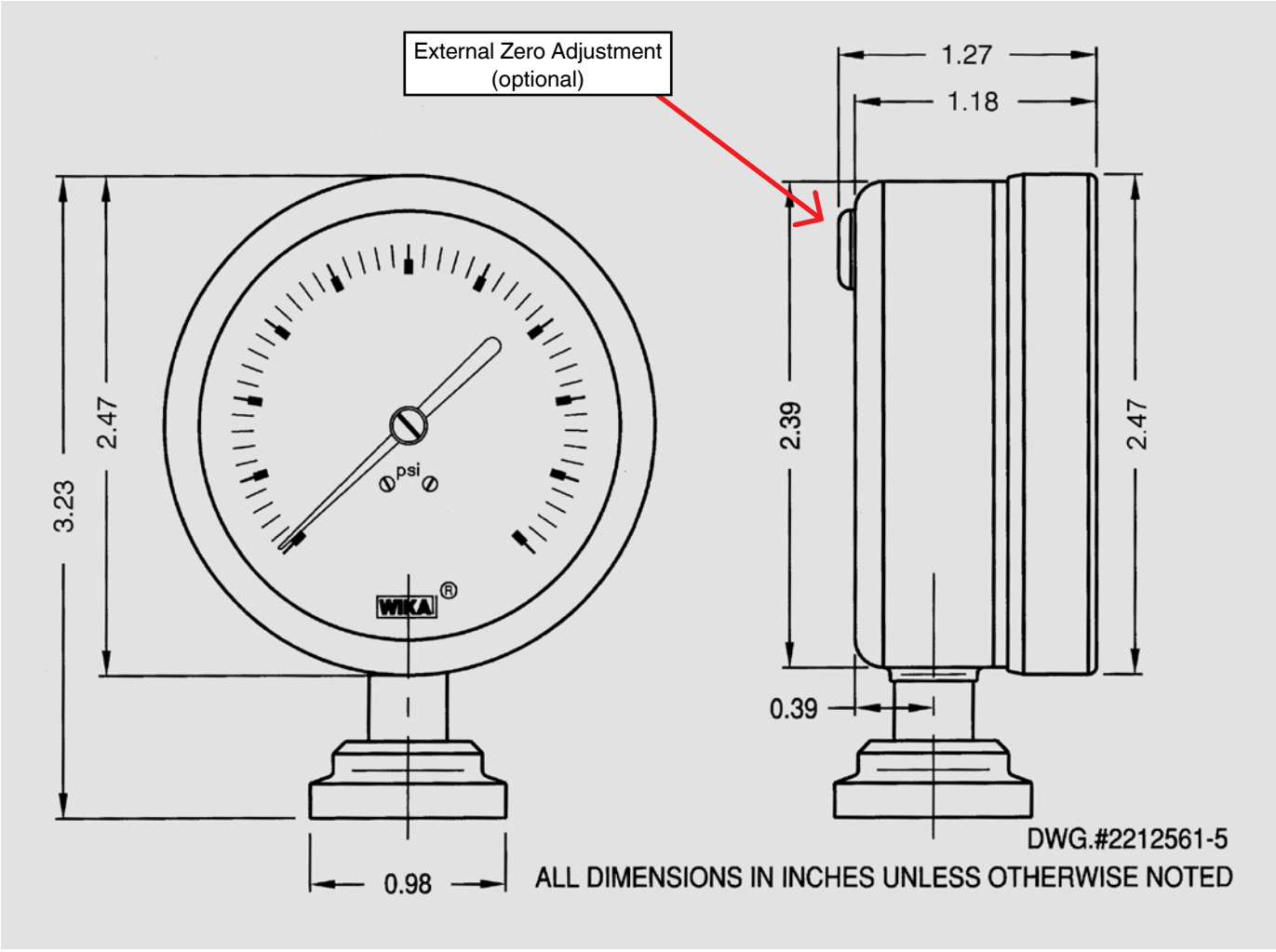
Pointer
Black aluminum

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 to accurately model your application parameters using computer simulation techniques.

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)
Glyerine 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
		Pressure Range
	C030	-30 inHg … 30 psi Compound range
	C060	-30 inHg … 60 psi Compound range
	C100	-30 inHg … 100 psi Compound Range
	C160	-30 inHg … 160 psi Compound Range
	P030	30 psi Gauge pressure range
	P060	60 psi Gauge pressure range
	P100	100 psi Gauge pressure range
	P160	160 psi Gauge pressure range
	P200	200 psi Gauge pressure range
	P300	300 psi Gauge pressure range
	P400	400 psi Gauge pressure range
	P600	600 psi Gauge pressure range
1	XXXX	Other - consult factory
		Pressure Units
	PX	PSI - Single scale
	PC	PSI outside / KG/CM² inside in red
	PK	PSI outside / KPA inside in red
	PB	PSI outside / BAR inside in red
2	SP	Special scale
		Process Connection
	75	3/4" Tri-Clamp® connector
	10	1" Tri-Clamp® connector
3	XX	Other - consult factory

Field no.	Code	Description - 2½" Gauge with Diaphragm Seal - all SST Internals
		Wetted Parts Material
	ES	Electropolished 316L SS (1.4435) Ra ≤ 15 µin (except for weld seam)
	HC	Hastelloy C276 (2.4819)
4	XX	Other - consult factory
		System Fill
	07	KN7 - Glycerine 99.7% USP (1000 cst) - FDA 21 CFR 182.1320 **(see note 1)**
	59	KN59 - Neobee M20 - FDA 21 CFR 172.856, 174.5
	92	KN92 - Mineral Oil LubePharm (23 cst) - FDA 21 CFR 172.878, 178.3620 (a); USP, EP
	93	KN93 - Silicone Oil DC200 (350 cst food grade) - FDA 21 CFR 173.340
5	XX	Other - consult factory
		Window Material
	LPC	Polycarbonate
6	LPS	Polysulfone
		Options (see note 2)
	FGL	Glycerine case fill - **change model # to M933.25**
	XMT	Material Certificate 3.1 EN10204 (metal only) **(see note 3)**
	WSS	Instrument tag, Stainless steel
	DZA	External Zero Adjust
	CE1	Integral cooling element (Tmax 300°F, clean steam assembly)
	XAC	Autoclave design, case with 2 weep holes **(see note 4)**
7	XNI	NIST - Certificate of Calibration

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
M932.25 .			**. LM .**		.	.	.	.

*Additional order details _____

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

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.

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