

Type M93X.3A

Standard Features

Design: All-welded construction in full compliance with 3A third party standards and meets the most rigorous biopharmaceutical specifications. This assembly has all the advantages of the 23X.50 series mechanical gauge (ASME B40.100 & EN 837-1) and WIKA combines it with a superior designed Tri-Clamp® diaphragm seal.

Process Connection: 1½" to 4" Tri-Clamp®

Ranges: Vacuum, compound and positive pressure up to 1,500 psi (limited by installation clamp rating)

Operating Temp: 25°F to 300°F (-4°C to +149°C)

Gauge Size: 2½" or 4" - lower and back mount

Case Fill: Glycerine (optional)

Dial: White aluminum with black lettering

Accuracy: 2½": ±2/12% of span, 4": ±1.0% of span

Case Material: 304 SS electropolished case with vent plug and stainless steel electropolished twist lock bayonet ring

Window: Polycarbonate

Pointer: Black aluminum, adjustable

Serial Number: Engraved in back of case

System Fill: Glycerine, non-vacuum application mineral oil, vacuum and compound range applications

Gauge Features

- All-welded design
- ≤ 20 Ra electropolished
- Engraved material identification and serial number
- Manufacturer calibration report
- FDA-approved system fill fluids
- Meets 3A sanitary criteria

Available Options

- Autoclavable (dry case with weep holes, polysulfone window only)
- Hastelloy C276 wetted parts"
- Cherry Burrell I-Line, APC connections



M93X.3A Selection Guide

Field no.	Code	
1	Dial Size	
	25	2½" Gauge case
	40	4.0" Gauge case
2	Pressure Range	
	V000	-30 inHg...0 Vacuum
	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
	P015	0...15psi Gauge pressure range
	P030	0...30 psi Gauge pressure range
	P060	0...60 psi Gauge pressure range
	P100	0...100 psi Gauge pressure range
	P160	0...160 psi Gauge pressure range
	P200	0...200 psi Gauge pressure range
	P300	0...300 psi Gauge pressure range
P400	0...400 psi Gauge pressure range	
P600	0...600 psi Gauge pressure range	
	XXXX	Other - consult factory
3	Pressure Units	
	PX	PSI - Single scale
	PC	PSI outside / Kg/cm ² inside in red
	PK	PSI outside / KPA inside in red
	PB	PSI outside / BAR inside in red
	SP	Special scale

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Field no.	Code	
4	Connector Location	
	LM	Lower mount
	BK	Center back mount (2½") or Lower back mount (4.0")
5	Diaphragm Seal Design	
	22	Tri-Clamp®
	57F	Cherry Burrell - I-Line Female
	57M	Cherry Burrell - I-Line Male
	58	APC
	XX	Other - consult factory
6	Process Connection ⁶	
	10	1.0 " connector
	15	1.5 " connector
	20	2.0 " connector
	25	2.5 " connector
	30	3.0 " connector
	40	4.0 " connector
7	Wetted Parts Material	
	ES	Electropolished 316L SS (1.4435) Ra ≤ 20 µin
	MO	Monel 400 (2.4360)
	HC	Hastelloy C276 (2.4819)
	XX	Other - consult factory
8	System Fill	
	07	KN7 - Glycerine 99.7% USP (1000cSt) ¹ FDA 21 CFR 182.1320
	59	KN59 - Neobee M20 FDA 21 CFR 172.856, 174.5
	92	KN92 - MINERAL OIL Lubepharm (23cSt) FDA 21 CFR 172.878, 178.3620(a): USP, EP
	93	KN93 - DC200 SILICONE OIL (350cSt Food Grade) FDA 21 CFR 173.340
	XX	Other - consult factory

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Field no.	Code	
9	Window Material	
	LPC	Polycarbonate
	LPS	Polysulfone
10	Options ²	
	FGL	Glycerine case fill - change model # to M933.3A
	XEP	Wetted parts electro-polished w/ certificate ⁴
	XMT	Material Certificate 3.1 EN10204 (metal only) ⁴
	WSS	Instrument TAG, stainless steel
	RS6	Restrictor, SS 0.6 orifice
	RS3	Restrictor, SS 0.3 orifice
	CE1	Integral Cooling Element Tmax 300°F
	CE2	2" Cooling element ³
	CE4	4" Cooling Element - (Tmax +500°F)
	XAC	Autoclave design, case with 2 weep holes ⁵
	XNI	NIST Certificate of Calibration per 3.1 EN10204
	XXX	Other - consult factory

Notes:

- 1) Glycerine (07) is not available for vacuum & compound pressure measurement ranges. Consult factory for exceptions.
- 2) List options in alphabetical order at the end of the configuration code.
- 3) Cooling elements are welded to the diaphragm seal
- 4) All product under this model series is provided with calibration protocol, electropolish finish, and material based information report as standard. Documentation per 2.2 EN10204
- 5) Autoclave design requires polysulfone window (LPS) and dry gauge case (M932.3A).
- 6) Size limitation for Cherry Burrell and APC both available in 1.5" and 2".

Order Code:

M932.3A

Field no. 1 2 3 4 5 6 7 8 9 10

*Additional order details _____

For datasheets and additional information, please visit www.wika.com or call 1-888-945-2872.