Pressure Gauge MAN-63

Application

· Hygienic pressure measurement

Application examples

· Local display without power supply

Hygienic design / Process connection

· By using the Negele weld-in sleeve **EMZ-352**, a hygienic and easy cleanable measurement point will be achieved
· Adapter for DIN 11851, Varivent, SMS, RJT etc.
· Direct connection for 3/4" und 1" Tri-Clamp
· CIP-/ SIP-cleaning up to 149 °C (300 °F) / maximum 60 minutes
· Gauges completely made of stainless steel
· Sensor materials and actuating fill are FDA conform
· IP 66, housing for optimized cleanability
· Conforming to 3-A Sanitary Standard 74-05 for sensors with Tri-Clamp process connection
· EHEDG certified hygienic process connection with **CLEANadapt** fitting

Features

· Complete device is certified by 3-A-SSI
· With **CLEANadapt** an easy adaption to all process connection is possible
· Zero adjustable
· Surface R_a ≤ 0.6 µm (0.6 microns, 24 micro-inches) is standard

Options

· Case filling with glycerine for damping
· Actuating fill with Neobee M20

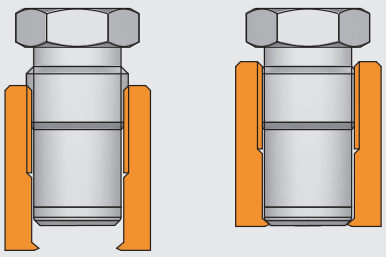
Authorizations

FDA · CERTIFIED EHEDG TYPE EL · 3-A 74-05

MAN-63 / TC3/4

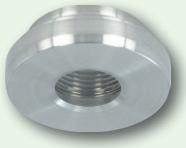
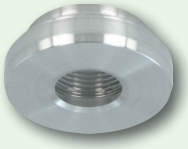
MAN-63 / S

Hygienic elastomer free sealing principle for MAN-63 / S

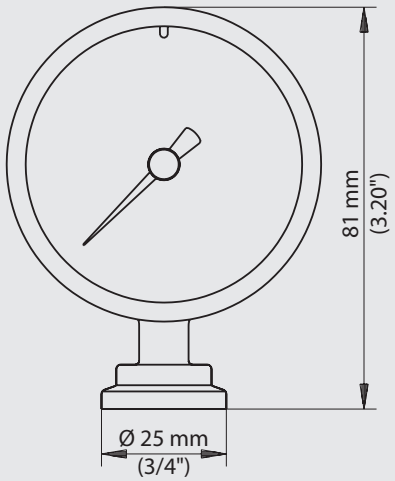


Specification		
Material	diaphragm	1.4404 (316L) R_a ≤ 0.6 µm (0.6 microns, 24 micro-inches)
	fitting	1.4404 (316L)
	bourdon tube	1.4301 (304)
	movement	1.4301 (304)
	case	1.4301 (304)
	inspection window	polycarbonat
	case fill	glycerine (option)
Actuating fill		paraffin oil / medical white oil
	FDA approval number	21 CFR 172.878 and 21 CFR 178.3620(a)
	option	Neobee M20
Protection class		IP 66
Over-range capability		minimum 25 % over range
Accuracy		±1.5 % of full scale
Repeatability		±0.5 % of full scale
Linearity		±0.5 % of full scale
Hysteresis		±0.5 % of full scale
Temperature	process	-3 °C...140 °C (25 °F...284 °F)
	CIP / SIP	149 °C (300 °F) / maximum 60 minutes
	ambient	4 °C...49 °C (40 °F...120 °F) slower reaction at deep temperatures
Stability	from 10...90 % of range	< ±0.01 % / K of full scale in process or ambient temperature
Weight		140....390 g (depending on process connection and filling)

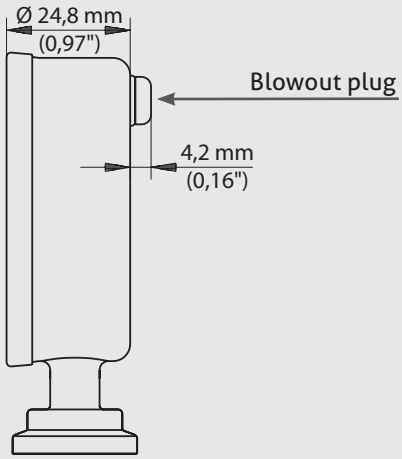
Overview of deliverable process connections for MAN-63 / S (adapters must be ordered seperately!)
The complete overwiew of all available adapters you will find at product information **CLEANadapt**.

MAN-63 / S						
Process Connection		**Build-in system EHG** (DIN 11850 series 2)	**Negele weld-in sleeve**	**Tri-Clamp**	**Diary flange** (DIN 11851)	**DRD** (press ring optional deliverable)
DN25	**1"**	-	**EMZ-352** suitable for installation in vessels	**AMC-352/DN25**	**AMK-352/DN25**	-
DN40	**1½"**	**EHG-DIN2-40/1"**		**AMC-352/DN25**	**AMK-352/DN40**	-
DN50	**2"**	**EHG-DIN2-50/1"**		**AMC-352/DN50**	**AMK-352/DN50**	**AMK-352/DN50**
DN65	**3"**	**EHG-DIN2-65/1"**	**EMS-352** suitable for installation in pipes	**AMC-352/ DN65**	**AMK-352/DN65**	**AMK-352/DN50**
DN80		**EHG-DIN2-80/1"**		**AMC-352/DN80**	**AMK-352/DN80**	**AMK-352/DN50**
DN100		**EHG-DIN2-100/1"**		**AMC-352/DN100**	**AMK-352/DN100**	**AMK-352/DN50**

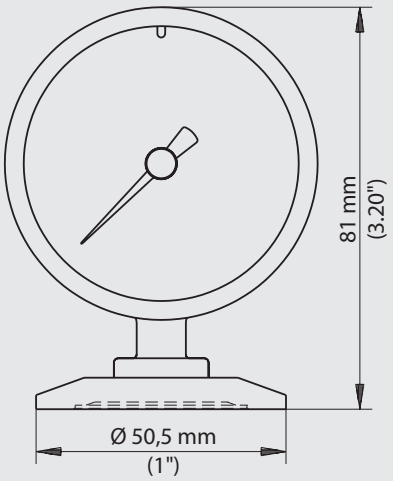
MAN-63 / TC3/4



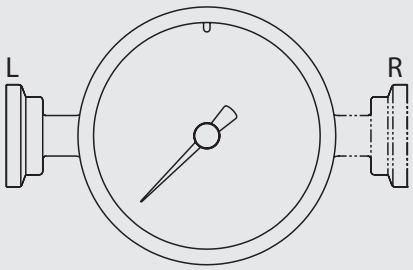
MAN-63 / TC3/4



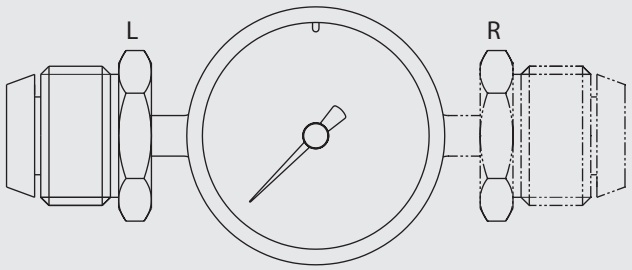
MAN-63 / TC1



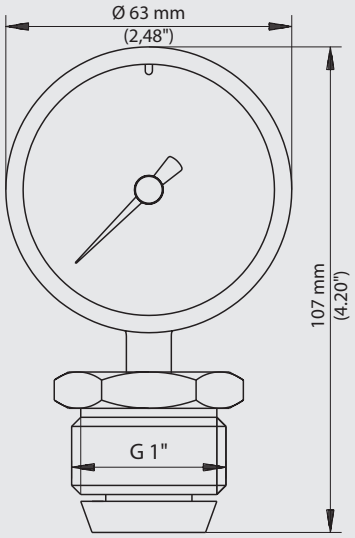
MAN-63 / TC3/4 connection L (left) / R (right)



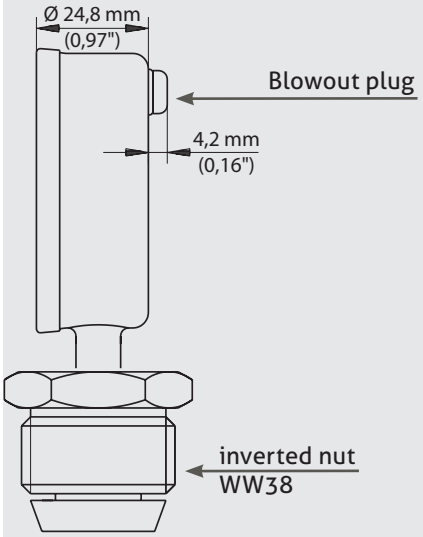
MAN-63 / S connection L (left) / R (right



MAN-63 / S



MAN-63 / S



Order Code

MAN-63 (diameter housing 63 mm)

Process Connection
- **TC3/4** (Tri-Clamp 3/4")
- **TC1** (Tri-Clamp 1")
- **S** (CLEANadapt G1"; not with 3-A TPV Verification)

Measuring Range
- **-1...+2** (-1.0...2.0 bar)
- **-1...+4** (-1.0...4.0 bar)
- **0...2** (0...2.0 bar)
- **0...4** (0...4.0 bar)
- **0...6** (0...6.0 bar)
- **0...7** (0...7.0 bar)
- **0...11** (0...11.0 bar)

Filling
- **X** (paraffin oil)
- **GC** (Neobee M20)

Calibration Possibility
- **X** (without)

Damping
- **X** (without)
- **GZ** (glycerine filling)

Connection
- **U** (down)
- **L** (left)
- **R** (right)

MAN-63 / TC1 / 0...2 / X / X / X / U

Conditions for a measuring point according to 3-A Sanitary Standard 74-05

- The sensors MAN-63 / TC... conforming to the 3-A Sanitary Standard.
- The sensors are designed for CIP-/ SIP-cleaning. Maximum 149 °C / 60 minutes.
- Only with 3-A conforming Tri-Clamp process connection.
- Mounting position, self draining and the position of the leackage hole must be in accordance to current 3-A Sanitary Standard.