

Product Information EK PHARMA

Pressure Gauge EK

Application

Hygienic pressure measurement

Application examples

· Local display without power supply

Hygienic design/Process connection

- · Direct connection for 3/4" und 1" Tri-Clamp and Anderson-Negele CPM
- · 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 74-06
- · Autoclaveable version with Anderson-Negele CPM fitting

Features

- · Complete device is certified by 3-A-SSI
- · Zero adjustable
- · Surface $R_a \le 0.2 \mu m$ (0.2 microns, 8 micro-inches) is standard

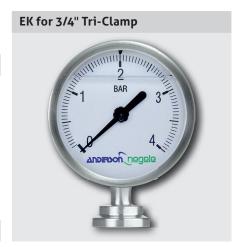
Options

- \cdot Case filling with glycerine for damping
- · Actuating fill with Neobee M20

Authorizations



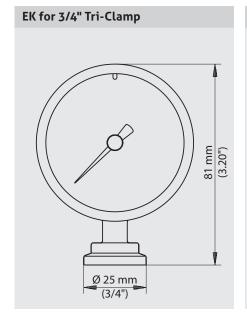


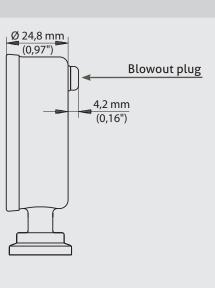


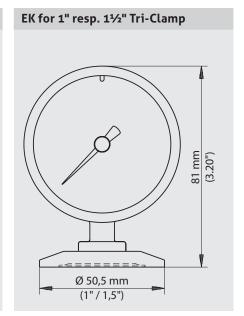
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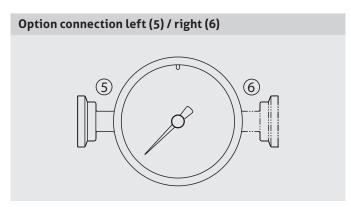
Specification		
Material	diaphragm fitting bourdon tube movement case lens case fill	1.4404 (316L) R _a ≤ 0.2 µm (0.2 microns, 8 micro-inches) 1.4404 (316L) 1.4301 (304) 1.4301 (304) 1.4301 (304) polycarbonat / Lexan (standard gauge) polysulfone (autoclaveable version) glycerine (option)
Actuating fill	FDA approval number option	medical white oil 21 CFR 172.878 and 21 CFR 178.3620(a) Neobee M20 Glycerin (100 % USP grade)
Protection class		IP 66 / NEMA 4X
Over-range capability		minimum 25 % of full range
Accuracy	measurement repeatability linearity hysteresis	±1.5 % of full scale * ±0.5 % of full scale ±0.5 % of full scale ±0.5 % of full scale
Temperature	process CIP/SIP ambient	-3 °C140 °C (25 °F284 °F) autoclaveable at 149 °C (300 °F) for 60 minutes with process connection CPM and unfilled case 149 °C (300 °F) / maximum 60 minutes 4 °C49 °C (40 °F120 °F) slower reaction at deep temperatures
Temperature effect		less then 0,035 BAR (0.5 PSI) per 5.5 °C (10 °F) change in process or ambient temperature
Stability	from 1090 % of range	< ±0.01 %/K of full scale in process or ambient temperature
Weight		140390 g (depending on process connection and filling)
Standards		Designed and manufactured to sound engineering practices inaccordance with Article 3.3 of the PED 98/23/EC CSA B51-03 CRN# CSAOF9754.5C

 $^{^{*}}$) from 10...90 % of pressure range







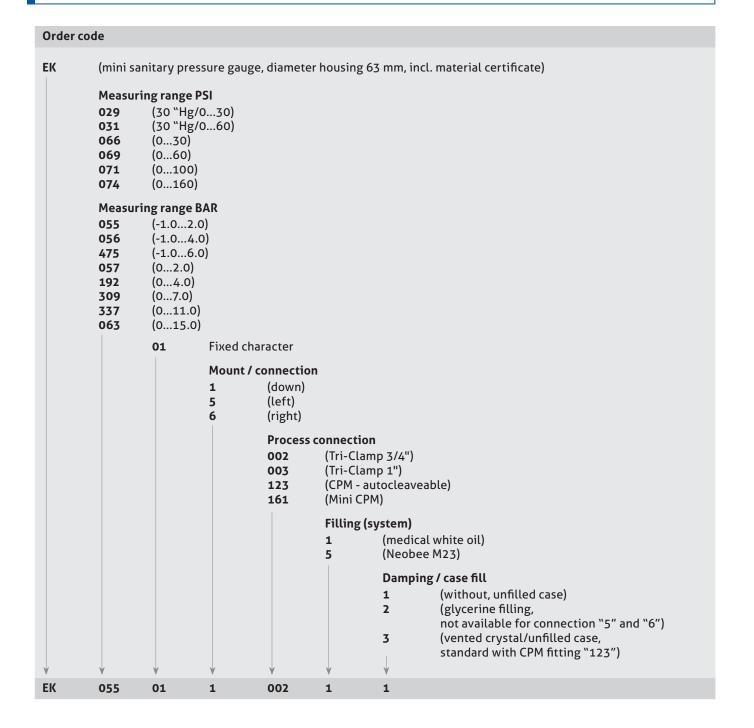


Conditions for a measuring point according to 3-A Sanitary Standard 74-06



- · The pressure gauges EK conforming to the 3-A Sanitary Standard.
- \cdot The sensors are designed for CIP-/ SIP-cleaning. Maximum 149 $^{\circ}\text{C}$ / 60 minutes.
- \cdot Only with 3-A conforming process connection.
- · Mounting position, self draining and the position of the leackage hole must be in accordance to current 3-A Sanitary Standard.

Product Information EK



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