



## Pressure Gauge for UHP-Applications

An usual pressure gauge has significant disadvantages because of its geometry when cleaning the wetted parts, e.g. at the end closed bourdon tube.

Our Flow-Through Pressure Gauge operates with a diaphragm measuring element. It is provided with two opposing VCR-connections (1x female and 1 x male) and one electropolished, cavity-free media space. This improves the rinsing property significantly, the rinsing periods are much reduced. All parts that have contact with the product are made of stainless steel.



### Application:

For pressure measurement of liquid and gaseous media at highest requirements of cleanliness.

### Nominal Case Size:

50 mm (1.97")

**Accuracy:** class 1.6  
(EN 837-3)

### Pressure Ranges:

-1/3 bar (30"vac./15), -1/5 (30"vac./100) and  
-1/9 bar (30"vac./160),  
other pressure ranges upon request, e.g.  
-1/+1bar  
5 times overrange protected up to max. 40 bar  
(600 psi)

### Temperature Limitation:

Ambient Temp.: - 20°C bis +50°C (-4...+122°F)  
Medium Temp.: max. +50°C (+122°F)

### Wetted Parts:

diaphragm made of Inconel 718  
case made of 316 stainless steel (1.4435),  
electropolished

### Surface Qualities:

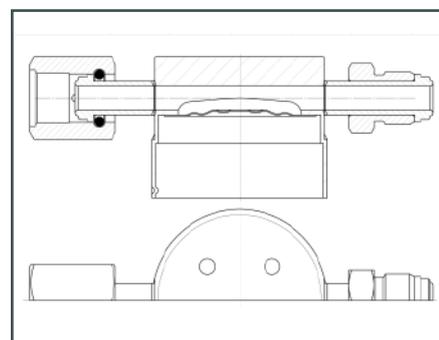
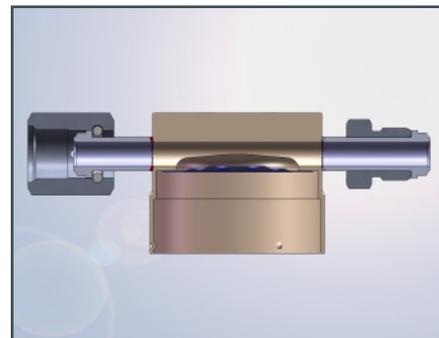
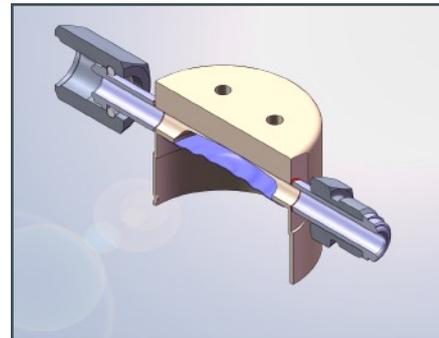
$Ra \leq 0,25 \mu m$

**Window:** PMMA

### Position of the Connection:

12° and 18°,  
others upon request

**Connections:** 1/4" Female x 1/4" Male VCR or  
1/2" Female x Male VCR  
Please quote 12°: Female or Male



# Diaphragm Pressure Gauge

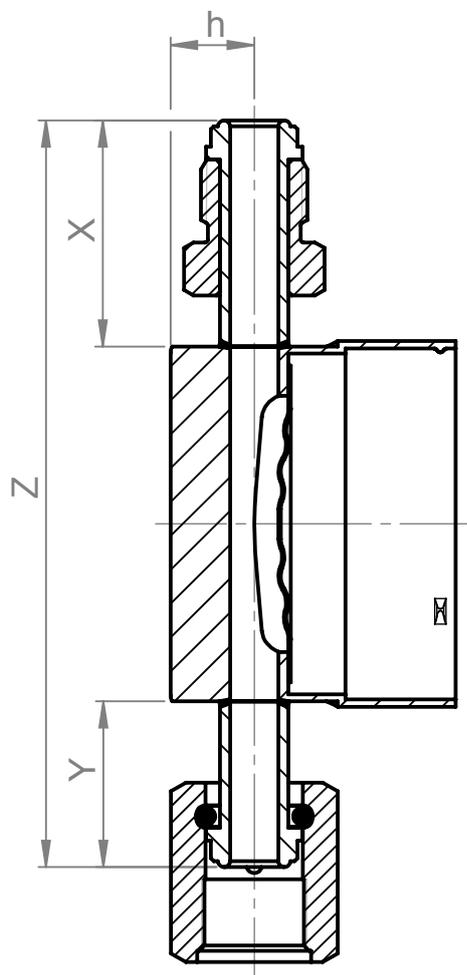
with vertical diaphragm gauge for UHP-applications

T04-000-003  
**P s P 50-3FT**

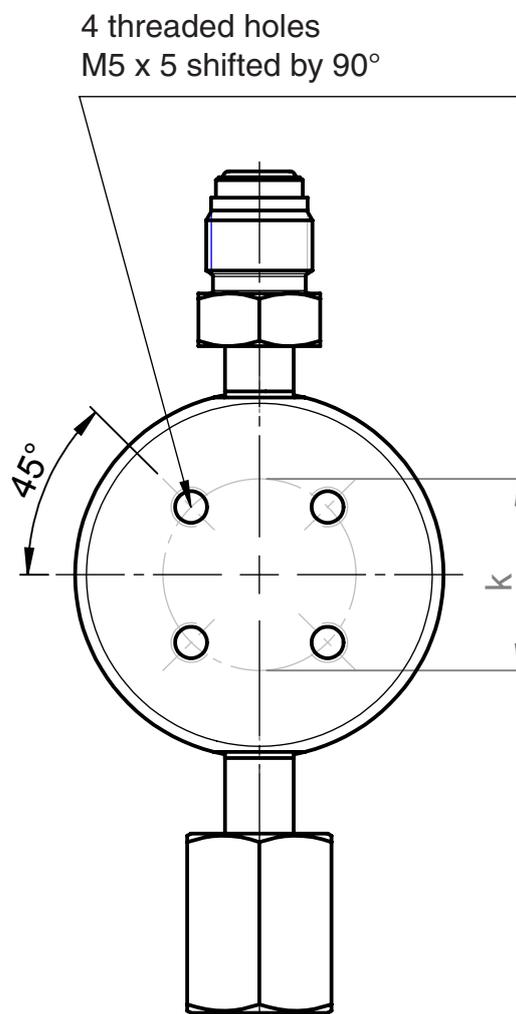
Page 2 of 2



Cross-section



Top view



## Dimensional Data

Connections	h	k	X	Y	Installation depth gauge Z
VCRM / VCRF 1/4"	11 mm (.43")	25.4 mm (1")	27 mm (1.06")	25 mm (.98")	99.0 mm (3.9")
VCRM / VCRF 1/2"	12.8 mm (.5")	25.4 mm (1")	46 mm (1.81")	28 mm (1.10")	120.5 mm (4.7")



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