sisco

Mechanical Oil Pressure Gauge
User Manual

1. **Description**

Mechanical oil pressure gauge is a brand new gauge; the gauge is easily viewable at distances for its large dial face. This style of gauge provides accurate pressure readings and has built in dampening.

Mechanical oil pressure gauge indicates steady as well as large pressure changes equally well. The fluid (inside of the gauge) serves as a damper in high vibration applications and needs to be left in the gauge at all times.

Mechanical oil pressure gauge Flanged and Nutted Gauge is protected from the medium being pumped at all times and no medium should ever enter the gauge which would cause damage to the gauge.Mechanical oil pressure gauge Flanged and Nutted Gauge is totally waterproof and is build to operate in the harshest environments.

2. Specifications

(1) Pressure range and accuracy

Pressure Range(MPa)	Accuracy
0-16, 0-25	2.5%
0-40, 0-60, 0-80,0-100	1.6%

(2) Operation temperature: -25℃ to +55℃

(3) Its vibration condition should be less than class V.H.4 at national standard GB4439 when it is working

(4) Net weight is 13.3kgs

(5) Dimensions: check picture 1 (mm)

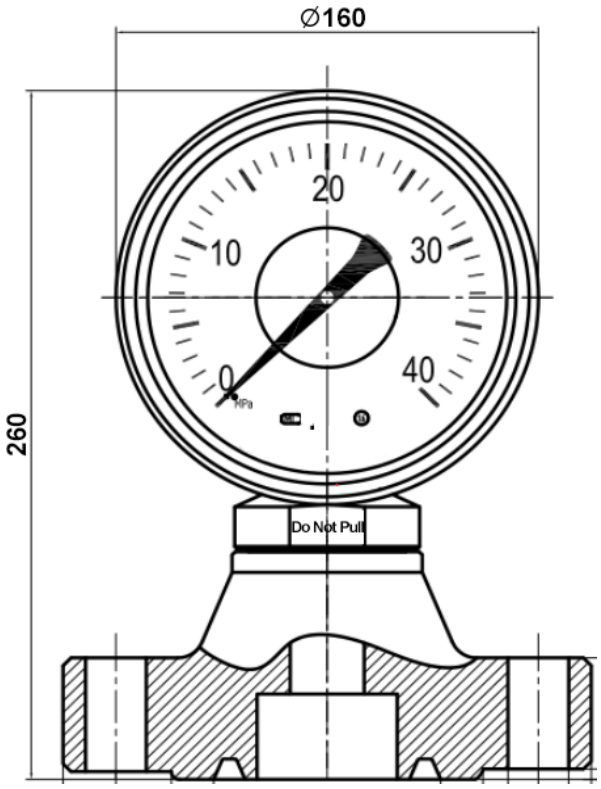
(6) Technical standard should measure up National Instrument Standard 《JB/T6804-2006 Pump Pressure Gauge》

3. Dimensions and Functionality

(1) Functionality

The pressure of the medium acting on the diaphgram through the seal,and with the principle of capillary channel current limiting,the pressure pulsation is suppressed,change to a smooth pressure.Then the pressure transfer to the fork by the mechanism structure,and make the fork out of shape,then rotating the pointer with the transmission mechanism,then ponte out the average value of the pulsation pressure.

(2) Dimensions



picture 1 YK-150F

Model	Nominal dimension in	Flange pressure psi	OD mm	T mm	BD mm	BC mm	Joint ring Type	pressure psi
6B5205	2-1/16	5000	215	46.1	26	165.1	R24	≤5000
6BX4610	1-13/16	10000	185	42.1	23	146.1	BX151	≤10000
6BX4615	1-13/16	15000	210	45.3	26	160.3	BX151	≤15000
6BX5215	2-1/16	10000	200	44.1	23	158.8	BX152	≤10000

4. Installation and Operation Instructions

(1)Apply thread tape to the male threads and install the gauge on the mechanical oil pressure gaugemud pump gauge. **CAUTION, DO NOT WRENCH ON THE AREA DIRECTLY BELOW THE GAUGE FACE THAT IS MARKED WITH A "NO WRENCH HERE" STICKER AS THIS WILL SERIOUSLY DAMAGE THE GAUGE.**

(2)The gauge should not be operated over the 2/3rd of full scale for extended periods of time.

(3) When the operate temperature is lower than 15 ℃or higher than 25℃, need consider the additional temperature error.

The error: $\Delta = K \cdot \Delta t$

K——0.12%/℃;

Δt——$|t_2-t_1|$, ℃;

t_2——operate temperature;

t_1——when $t_2 > 25$℃, $t_1 = 25$℃; when $t_2 < 15$℃时, $t_1 = 15$℃。

(4) The fluid in the gauge is Precision All Weather Gauge oil and should not be replaced with any other type of fluid as it may cause damage to the internals of the gauge. Please contact Precision if the gauge requires additional fluid.

(5) Check the Pump Pressure gauge daily to ensure it is reading properly. The Pump Pressure Gauge should be replaced immediately if it is found not to be reading accurately.

(6) Loosen the top screw on the gauge 1 full turn as this acts as a pressure relief.

FAILURE TO DO SO MAY RESULT IN BODILY INJURY IF THE GAUGE FAILS.

5. Ordering information

(1) Please note gauge type, pressure range, accuracy class and thread size when ordering.

(2)If the measured medium is gas, please note.

(3)The gauge is only with BX152 nut,

(4)If you need other ranges (bar, kg/cm^2 ,psi) please note.