双波登管式差压表

Double bourdon tubes differential pressure gauge

PCS PCSH

PCS-100.AO.504 普通型 Standard type 双波登管式差压表 Double bourdon tubes differential pressure gauge

PCSH-100.AO.504
防腐型 Corrosion-proof type
双波登管式差压表 Double bourdon
tubes differential pressure gauge



产品简介

双针双管差压表适用于对两个相同或不同压力,进行测量并可对两个测量压力及二压力差值分别指示。产品分为 PCS 普通型和 PCSH 防腐型。 PCS 普通型适用于对无腐蚀性介质的测量。 PCSH 防腐型可在具有腐蚀性介质及环境中使用。

仪表由两套各自独立的测量系统和指示装置组成。测量压力通过测压元件的弹性变形,通过两个测压元件(弹簧管)之末端各自产生相应的位移,借助于拉杆传动机构的传动予以放大,由固定于齿轮轴上的红、黑指针将所测值分别指示在度盘上,同时中间小盘显示出二压力之差值。

PRODUCT OVERVIEW

Double Bourdon System Differential Pressure Gauges are designed to measure difference between 2 pressures. 2 models available: PCS General available and YCSH Corrosion-Proof. The PCS type is suitable to measuring the un-corrode medium and the PCSH type could be used in corrode environments.

The instrument has 2 independent measuring systems. The measured pressure deflects the elastic elements, displacements then take place to actuate gear mechanisms through linkages to carry 2 pointers traveling over instrument dial, and an auxiliary dial shows the pressure difference.

http://www.zoricreato.com

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卓然天工自动化仪表(北京)有限公司 ZORICREATO INSTRUMENTATION (BEIJING)CO.,LTD.

MODEL YCS / YCSH

PCS 主要技术参数

执行标准:GB/T1226-2001 Executive standard: GB/T1226-2001

精度: 1.5 级 Accuracy: 1.5%

测量范围: 0.16、0.25......6MPa、10MPa Ranges: 0.16、0.25......6MPa 环境温度: -20~+60 Ambient temperature: -20~+60 Media temperature: less than 60

安装形式:径向直接安装 Mounting: bottom directly mounting

(前带边及后带边可选) (with front or back flange available)

过程连接: M20 x 1.5 螺纹(其他螺纹可选) Process connection: M20 x 1.5 (Other screw as request)

防护等级: IP45 Protection class: IP45

接头材质:铜合金 Connection material: Copper alloy

波登管材质:铜合金 Bourdon tube: Copper alloy

焊接:锡焊 Welding: Tin-welding

表壳材质:黑钢壳(喷塑) Case material: Black steel (enameled)

密封圈、防爆塞材质:耐油橡胶 Sealing circle and blow out vent material: Rubber

表玻璃:3mm 平板玻璃 Window: 3mm plain glass

(有机玻璃、双层安全玻璃可选) (Organic or double layers available)

机芯:铜合金 Movement: Copper alloy

指针:铝,黑色和红色 Pointer: Aluminium, black and red color

表盘:铝,白地黑字(特殊要求表盘可选) Dial: Aluminium, white with black letters (Special dial available)

PCSH 主要技术参数

PCSH (YCF) FOUNCTIONAL FEATURES

PCS (YC) FOUNCTIONAL FEATURES

接头材质: 316 Connection material: 316

波登管材质: 316 Bourdon tube: 316

焊接: 氩弧焊 Welding: AISI 316 TIG Argonarc

机芯:不锈钢 Movement: Stainless Steel 介质温度:< 70 Media temperature: 100

表壳材质:304 不锈钢

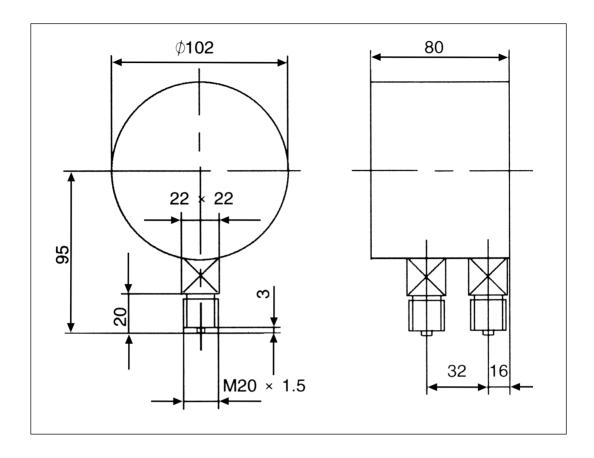
其他同 711 Others as 711

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几何尺寸 DIMENSIONS



量程 RANGES

量程范围规格代码表 TABLE OF RANGES											
选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges	选型代码 code	量程规格 ranges						
M030	0.1MPa	M100	0.6MPa	M160	2.5MPa						
M040	0.16MPa	M120	1MPa	M180	4MPa						
M060	0.25MPa	M140	1.6MPa	M200	6MPa						
M080	0.4MPa										

注:0.1MPa 精度 2.5 级

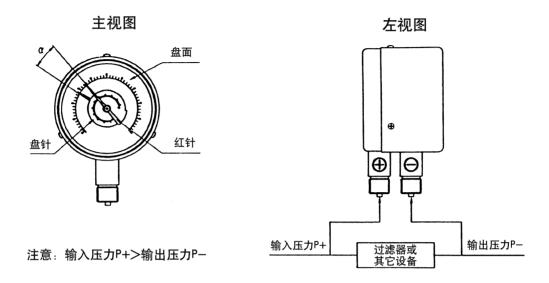
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产品安装及使用说明 MOUNTING AND OPERATING INSTRUCRION

产品安装示意图: SKETCH MAP OF MOUNTING



产品使用说明 OPERATING INSTRUCTION

盘面的最大刻度值即为最大耐压

建议使用的 P(差压值 =P+ — P-) 为盘面的 $1/2 \sim 1/3$ 为最佳。再小了就不好读点。

P一般不能小于 1/10 的全量程。

红针指示为正压压力(输入压力为 P+);盘针指示为负压压力(输出压力 P-)。盘针上的刻度可以和红针形成夹角 直接读数(从盘针上直接看刻度),也可以单独用盘针在表盘上的示值与红针在表盘上的示值进行计算得出差压值 P=P+—P-

介质为气体或液体,建议用在室内,使用温度为-20~60一般最小量程做到0.16MPa,如需0.1MPa,可做到2.5级

安装时带 ⊕ 号接头接输入压力 P+;带 ⊖ 号接输出压力 P-

The highest indicated value is the highest pressure permitted.

We advice using the $1/2 \sim 1/3$ of the range as P. it is convenient to see if it is too small. P is not low than 1/10 of full scale value.

The red pointer shows the plus pressure (the pressure input); the dial pointer shows the minus pressure (the pressure output).

The value could be saw by the angle between the red and dial pointers (see directly on the dial pointer). And we can compute the difference using the pointed values of the red pointer and the dial pointer (P = P + P - P).

It is suitable to measure gas and liquid medium, suggested in room in -20 ~ 60

The general lowest range is 0.16MPa. it is could be made to 2.5% if 0.11MPa requested.

While mounting, the ⊕end should be deployed with pressure input terminal and the⊖end should be deployed

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如何选型 HOW TO ORDER

型号(COI	弋码 DE	特性说明 CHARACTERISTICS	-	-].			-
Basic type		普通型双波登管式差压表 (Standard type) Double bourdon tubes differential pressure gauge 防腐型双波登管式差压表 (orrosion-proof type) Double bourdon tubes differential pressure gauge						
Diameter		100mm						
安 Mounting 式 AH		径向直接安装 Under mounting 径向前边安装 Under mounting with front flang 径向后边安装 Under mounting with back flang						
Design 码		不锈钢外壳 / 双波登管式 Stainless steel case/double bourdon tubes						
Ranges M040	D—	0.16MPa 请参看量程代码表 See range table						
Connection 埃 M20	<u> </u>	20 x 1.5 其它特殊要求的螺纹 Other requests						
SBD TPB Options 可		特殊要求的表盘 Special dial H 用于氧环境 Used in oxygen environment 不锈钢位号牌 Stainless steel label S	SY1 — H 系列 + SNR — SSF — STI — SDA —	SY1 家乃	】——· かか膜 「膜片 「		包长属	尾联接

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