

1199远传膜片密封件系统

1199 Remote Transmitting Diaphragm Sealing System

TK3051CD/TK3051T变送器带远传密封装置后，就成为TK3051CD/TK3051T远传差压/压力变送器

TK3051CD/TK3051T远传差压/压力变送器，可避免被测介质直接和变送器的隔离膜片接触的可靠测量方法，它适用于下面几种情况：

1、被测介质对变送器接头和敏感元件有腐蚀作用时；
2、需要将高温被测介质与变送器隔离时；
3、被测介质中有固体悬浮物或高粘度易堵塞变送器接头和压力容室时；

4、被测介质用引压管引出易固化或结晶时；

5、更换被测介质需要冲洗而不容交混时；

6、必须保持卫生条件，防止污染时。

TK3051CD/TK3051T型带远传密封装置的远传差压/压力变送器，仍具有TK3051CD/TK3051T型差压/压力变送器的各种特点：

提供多种结构材料，远传装置组件焊接结构，可靠性强。充液腔低容积设计，减少温度影响，根据温度要求使用相应的灌充液。

When TK3051CD/TK3051T transmitter has remote sealing device, it becomes TK3051CD/TK3051T remote differential pressure/pressure transmitter.

TK3051CD/TK3051T remote transmitting differential pressure/pressure transmitter is a reliable measurement approach which can prevent the medium being measured from directly contacting the isolation diaphragm of the transmitter and it is applicable to the following conditions:

1. When the medium being measured is corrosive to the transmitter joint and sensitive elements;

2. When the high temperature medium being measured has to be isolated from the transmitter;

3. When there are solid suspended matters in the medium or when the medium is highly viscous which is easy to block the transmitter joint and pressure chamber;

4. When the leading-out medium with the pressure-leading tube is easy to solidify or crystallize.

5. When medium replacement requires flushing and it is not easy to mix.

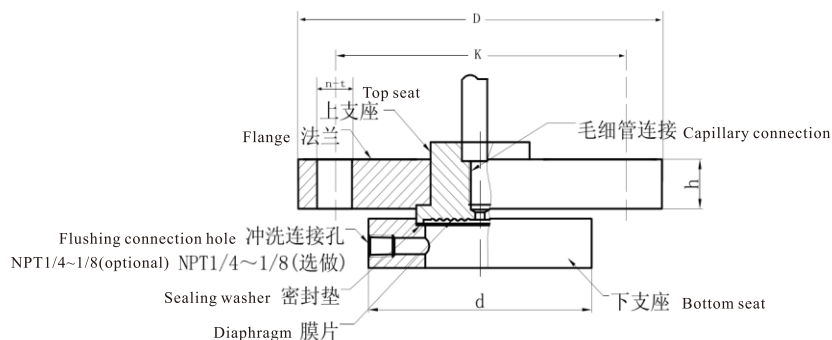
6. When hygiene conditions must be kept to prevent the pollution.

TK3051CD/TK3051T remote transmitting differential pressure/pressure transmitter with sealing device still has various characteristics of TK3051CD/TK3051T differential pressure/pressure transmitter.

Various structure materials are provided. The assembly welding structure for remote transmitting device is highly reliable. The liquid filling chamber is designed with low volume to reduce the temperature influence. Relevant filling liquid shall be used depending on the temperature requirements.

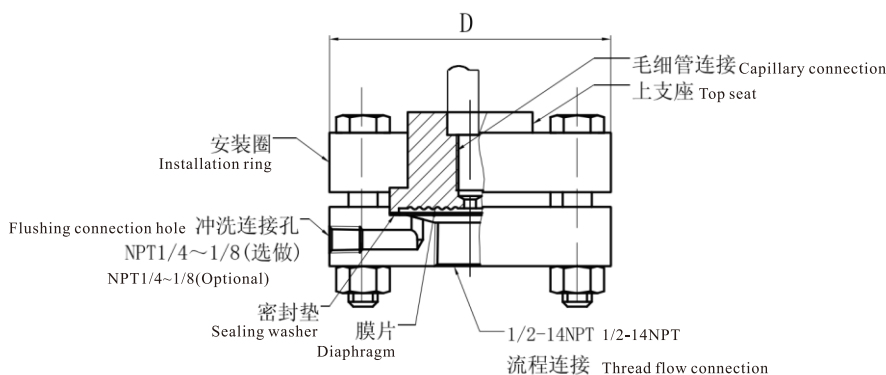
1199RTW型螺纹安装式远传装置（外形尺寸）

1199RTW screw installation remote transmitting device (Outline dimensions)



1199PFW型扁平式远传装置（外形尺寸）

1199PFW Flat remote transmitting device (Outline dimensions)



法兰安装远传法兰

Flange installed remote transmitting flange

型号 Model	安装法兰类型 Installed flange type	
1199FFW	法兰安装远传法兰 Flange installation remote transmitting flange	
代码 Code	冲洗备用孔 Standby hole for flushing	
11	无 None	
21	有 Yes	
代码 Code	远传装置膜片材料 Diaphragm material for remote transmitting device	
A	316LSST	
B	哈氏合金C Hastelloy C-276	
C	钽 Tantalum	
D	蒙耐尔 Monel	
E	钛 Titanium	
代码 Code	结构件材料 Material of structure part	
11	上套为316SS, 法兰为碳钢 (电镀) Upper sleeve is 316SS, the flange is carbon steel (electroplating)	
代码 Code	下套尺寸和材料 Lower sleeve size and materia	
A21	150Ib	316SS
B21	150Ib	哈氏合金C Hastelloy C
E21	150Ib	碳钢 Carbon steel
A41	150Ib	316SS
B41	150Ib	哈氏合金C Hastelloy C
E41	150Ib	碳钢 Carbon steel
A51	150Ib	316SS
B51	150Ib	哈氏合金C Hastelloy C
E51	150Ib	碳钢 Carbon steel
A71	150Ib	316SS
B71	150Ib	哈氏合金C Hastelloy C
E71	150Ib	碳钢 Carbon steel
A22	300Ib	316SS
B22	300Ib	哈氏合金C Hastelloy C
E22	300Ib	碳钢 Carbon steel
A42	300Ib	316SS
B42	300Ib	哈氏合金C Hastelloy C
E42	300Ib	碳钢 Carbon steel
A52	300Ib	316SS
B52	300Ib	哈氏合金C Hastelloy C
E52	300Ib	碳钢 Carbon steel
A72	300Ib	316SS
B72	300Ib	哈氏合金C Hastelloy C
E72	300Ib	碳钢 Carbon steel
A24	600Ib	316SS
B24	600Ib	哈氏合金C Hastelloy C
E24	600Ib	碳钢 Carbon steel
A44	600Ib	316SS
B44	600Ib	哈氏合金C Hastelloy C
E44	600Ib	碳钢 Carbon steel
A54	600Ib	316SS
B54	600Ib	哈氏合金C Hastelloy C
E54	600Ib	碳钢 Carbon steel
A74	600Ib	316SS
典型型号 (Typical model) : 1199FFW 11 A A 21		

法兰安装远传法兰

Flange installed remote transmitting flange

型号 Model	安装法兰类型 Installed flange type		
1199RFW	法兰安装远传法兰 Flange installation remote transmitting flange		
代码 Code	冲洗备用孔 Standby hole for flushing		
11	无 None		
21	有 Yes		
代码 Code	远传装置膜片材料 Diaphragm material for remote transmitting device		
A	316LSST		
B	哈氏合金C Hastelloy C-276		
C	钽 Tantalum		
代码 Code	结构件材料 Material of structure part		
11	上套为316SS, 法兰为碳钢 (电镀) Upper sleeve is 316SS, the flange is carbon steel (electroplating)		
代码 Code	下套尺寸和材料 Lower sleeve size and materia		
A21	1"	150lb	316SS
B21	1"	150lb	哈氏合金C Hastelloy C
E21	1"	150lb	碳钢 Carbon steel
A41	1-1/2"	150lb	316SS
B41	1-1/2"	150lb	哈氏合金C Hastelloy C
E41	1-1/2"	150lb	碳钢 Carbon steel
A51	2"	150lb	316SS
B51	2"	150lb	哈氏合金C Hastelloy C
E51	2"	150lb	碳钢 Carbon steel
A71	3"	150lb	316SS
B71	3"	150lb	哈氏合金C Hastelloy C
E71	3"	150lb	碳钢 Carbon steel
A22	1"	300lb	316SS
B22	1"	300lb	哈氏合金C Hastelloy C
E22	1"	300lb	碳钢 Carbon steel
A42	1-1/2"	300lb	316SS
B42	1-1/2"	300lb	哈氏合金C Hastelloy C
E42	1-1/2"	300lb	碳钢 Carbon steel
A52	2"	300lb	316SS
B52	2"	300lb	哈氏合金C Hastelloy C
E52	2"	300lb	碳钢 Carbon steel
A72	3"	300lb	316SS
B72	3"	300lb	哈氏合金C Hastelloy C
E72	3"	300lb	碳钢 Carbon steel
A24	1"	600lb	316SS
B24	1"	600lb	哈氏合金C Hastelloy C
E24	1"	600lb	碳钢 Carbon steel
A44	1-1/2"	600lb	316SS
B44	1-1/2"	600lb	哈氏合金C Hastelloy C
E44	1-1/2"	600lb	碳钢 Carbon steel
A54	2"	600lb	316SS
B54	2"	600lb	哈氏合金C Hastelloy C
E54	2"	600lb	碳钢 Carbon steel
A74	3"	600lb	316SS
B74	3"	600lb	哈氏合金C Hastelloy C
E74	3"	600lb	碳钢 Carbon steel
典型型号 (Typical model) : 1199RFW 11 A 11 A71			

RTW型螺纹安装远传法兰

RTW type bolt installation remote transmitting flange

型号 Model	法兰过程连接型式 Flange process connection type
1199RTW	螺纹安装远传法兰 Thread installation remote transmitting flange
代码 Code	清洗连接孔 Cleaning connection hole
11	无 None
21	有 Yes
代码 Code	清洗连接孔 Cleaning connection hole
A	316LSST
B	哈氏合金C-276 Hastelloy C-276
C	钽 Tantalum
代码 Code	结构件材料 Material of structure part
11	上套为316LSST, 安装环为碳钢 316LSST for upper sleeve Carbon steel for installation ring
代码 Code	下套材料 Material for lower sleeve
A	316LSST
B	哈氏合金C-276 Hastelloy C-276
C	碳钢(电镀) Hastelloy C Carbon steel (electroplating)
代码 Code	引压连接孔 Pressure-leading connection hole
11	1/4"NPT (锥管螺纹) (Conical pipe tread)
12	3/8"NPT (锥管螺纹) (Conical pipe tread)
13	1/2"NPT (锥管螺纹) (Conical pipe tread)
15	1"NPT (锥管螺纹) (Conical pipe tread)
17	1-1/2"NPT (锥管螺纹) (不带清洗备用孔) (Conical pipe thread) (Without cleaning standby hole)
典型型号 (Typical model) : 1199RTW 11 A 11 A 17	

PFW扁平式远传法兰

PFW flat remote transmitting flange

型号 Model	法兰过程连接型式 Flange process connection type
1199PFW	扁平式远传法兰 Flat type remote transmitting flange
代码 Code	型式 Type
11	标准3"-150和300 lb Standard 3"-150 and 300 lb
代码 Code	远传装置膜片材料 Diaphragm material for remote transmitting device
A	316LSST
B	哈氏合金C-276 Hastelloy C-276
C	钽 Tantalum
代码 Code	结构件材料 Material of structure part
11	上套为316LSST, 安装环为碳钢 316LSST for upper sleeve Carbon steel for installation ring
代码 Code	外壳材料 Shell material
11	316LSST
典型型号 (Typical model) : 1199PFW 11 A 11 A 17	

EFW型插入筒式远传法兰

EFW type inserted cylindrical remote transmitting flange

型号 Model	法兰过程连接型式 Flange process connection type
1199EFW	插入远传法兰 Inserted remote transmitting flange
代码 Code	插入筒直径和接液部材料 Insertion cylinder diameter and material of the liquid connection parts
11	3#316SST 不锈钢 Stainless steel
12	3#哈氏合金C 不锈钢 Stainless steel
13	4#316SST 不锈钢 Stainless steel
14	4#哈氏合金C 不锈钢 Stainless steel
代码 Code	远传装置膜片材料 Diaphragm material for remote transmitting device
A	316LSST
B	哈氏合金C-276 Hastelloy C-276
C	钽 Tantalum
代码 Code	插入筒长度 Insertion cylinder length
20	50mm
40	100mm
60	150mm
代码 Code	法兰规格和材料 Flange specification and material
A11	50#有镀层碳钢, 最大工作压力=1.97MPa, 在38℃时 50# with coated carbon steel, maximum working pressure=1.97MPa, At 38℃
A12	300#有镀层碳钢, 最大工作压力=5.1MPa, 在38℃时 300# with coated carbon steel, maximum working pressure=5.1MPa, At 38℃
C13	600#有镀层碳钢, 最大工作压力=9.9MPa, 在38℃时 600# with coated carbon steel, maximum working pressure=9.9MPa, At 38℃
典型型号 (Typical model) : 1199EFW 11 A 20 A11	

注：法兰规格、材料和工作压力，如有特殊需求可另行定制。

Note: The flange specification, material and working pressure can be customized if you have special requirements

毛细管型号规格表

Capillary mode specification

型号 Model	名称 Name
199CAP	毛细管 Capillary
代码 Code	毛细管材料和尺寸 Material and size of capillary
11	316SST, 内径为c0.71mm 316SST, the inner diameter is c0.71mm
13	316SST, 内径为c1.09mm 316SST, the inner diameter is c1.09mm
代码 Code	变送器端配件 Accessory parts at the transmitter end
D	1/2-20UNF-2A螺纹 1/2-20UNF-2A thread
代码 Code	结构件材料 Material for structure part
11	上套为316SST, 安装环为碳钢 316SST for upper part, carbon steel for installation ring
代码 Code	插入筒长度 Insertion cylinder length
5	1.5米 1.5m
10	3.0米 3.0m
15	4.5米 4.5m
20	6.0米 6.0m
25	7.5米 7.5m
30	10米 10m
代码 Code	远传法兰端配件 Accessory parts for remote transmitting flange end
A	1/2-20UNF-2A螺纹 1/2-20UNF-2A thread
C	1/2-20UNF-2A螺纹 1/2-20UNF-2A thread
代码 Code	保护套管 Protection sleeve
11	铠装300SST系列不锈钢 Armored 300SST series stainless steel
12	PVC护套, 铠装300SST系列不锈钢 PVC jacket, armored 300SST series stainless steel
典型型号 (Typical model) : 1199EFW 11 A 20 A11	

远传法兰灌充液

Filling liquid for remote transmitting flange

代码 Code	远传法兰的灌充液 Filling liquid for remote transmitting flange
C10485-0007	DC-200硅油- 稳定范围 -40~+149℃ (比重0.934) DC-200 silicon oil- stability range -40~+149℃ (specific weight 0.934)
01199-0032-0004	Slyatherm704硅油 稳定范围-15~+300℃ (比重0.934) Slyatherm704 silicon oil stability range -15~+300℃ (specific weight 0.934)
01199-0032-0012	丙油 稳定范围-45~205℃ (比重1.85) Propylene oil stability range -45~205℃ (specific weight 1.85)
典型型号 (Typical model) : C10485-0007	

注：不能用于测量真空+测真空时温度极限应降低

Note: It can not be used to measure the vacuum + the temperature limit shall be lowered when the vacuum is measures