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装配热电阻

Assembly Thermal Resistor

产品应用
Product Application

通常和显示仪表、记录仪表、电子计算机等配套使用。直接测量各种生产过程中的（-200~500）℃范围内液体、蒸汽和气体介质以及固体表面测温。

Usually used in conjunction with display instruments, recording instruments, electronic computers and so on. Direct measurement of various production processes (-200~500)℃ range of liquid, steam and gas media and solid surface temperature.

产品原理
Product Principle

热电偶是利用物质在温度变化时，其电阻随着发生变化的特征测量温度的，当阻值变化时，工作仪表便显示出阻值所对应的温度值。

Thermal Resistors measure temperature by utilizing the characteristic that when a substance changes temperature, its resistance changes with it. When the resistance value changes, a working instrument displays the temperature value corresponding to the resistance value.

技术参数
Technical Parameter

1、产品执行标准

IEC60751、GB/T30121。

2、常温绝缘电阻

热电阻在环境温度为（15~35）℃，相对湿度不80%，试验电压为10~100V（直流）电极与外套管之间的绝缘电阻≥100MΩ。

1. Executive Standard of the Product: IEC60751 and GB/T30121.

2. Room temperature insulation resistance

The insulation resistance of Thermal Resistor is ≥100MΩ between the electrode and the outer casing at an ambient temperature of (15~35)°C, a relative humidity of not more than 80%, and a test voltage of (10~100)V (DC).

3、测温范围及允差

3. Temperature measurement range and tolerance

分度号 Model	分度号 Graduation	测温范围（℃） Temperature measurement range	精度等级 Accuracy level	允差（℃） Tolerance value
WZP	Pt100	-200~+500	A级	±(0.15+0.002|t|)
			B级	±(0.30+0.005|t|)
WZC	Cu50 Cu100	-50~+100	/	±(0.30+0.006|t|)

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型号命名方法
Model Naming Method

W	温度仪表 Temperature Instruments

Z	热电阻 Thermal Resistor

感温元件材料 Temperature sensing element material	
P	Pt100 铂 Platinum
C	Cu50/Cu100 铜 Copper

偶丝对数 Coupling wire pairs	
无 None	单支 Single branch
2	双支 Double branch

安装固定形式 Fixed installation	
1	无固定装置 No fixed installation
2	固定螺纹 Fixed thread
3	活动法兰 Adjustable flange
4	固定法兰 Fixed flange
5	活络管接头 Flexible tube joint type
6	固定螺纹锥形式 Fixed thread cone type
7	直行管接头式 Straight tube fitting type
8	固定螺纹管接头式 Fixed thread tube fitting type
9	活动螺纹管接头式 Adjustable thread tube fitting type

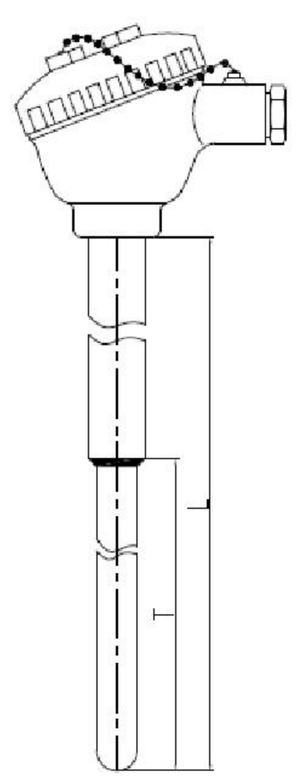
接线盒形式 Terminal box type	
3	防水式 Waterproof

保护管直径 Protective tube diameter
0:Φ16，1:Φ12

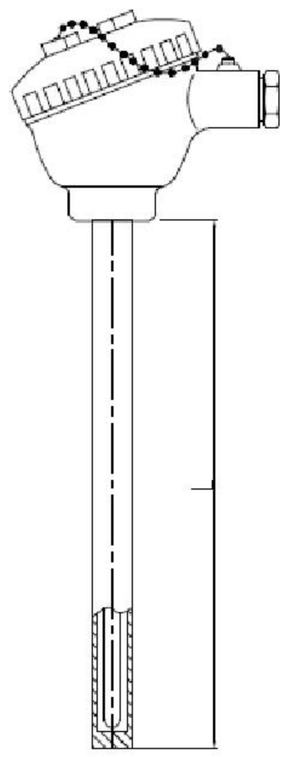
附加装置形式 Additional installation form	
G	抱箍式 Hoop type

W	Z	P	2	-	2	3	0	G	典型型号示例 Typical Model Example

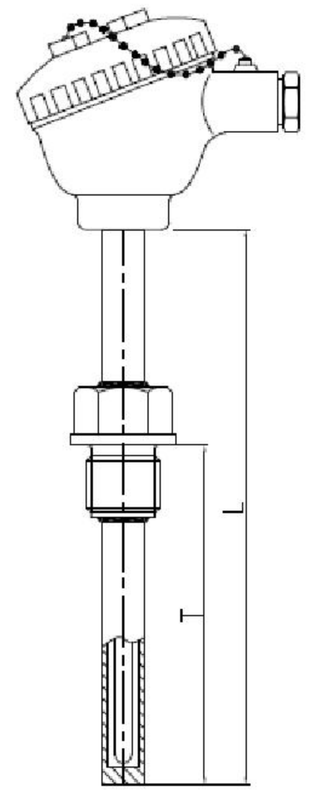
结构示意图
Structure diagram



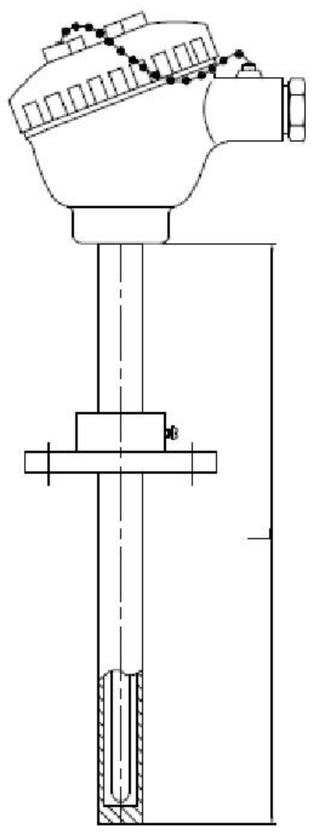
WZP-130(非金属保护管)
Non-metallic protective tube



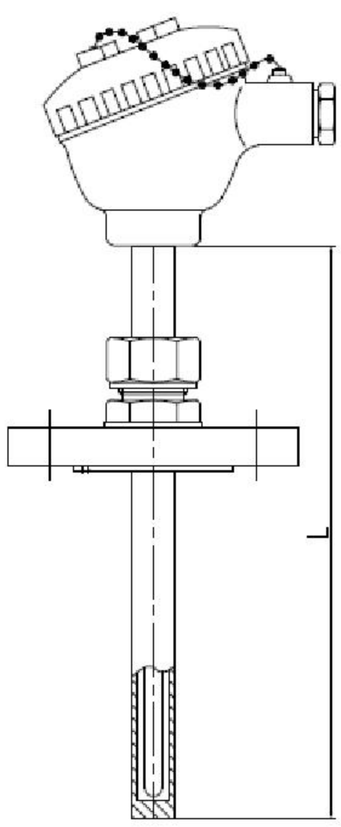
WZP-130



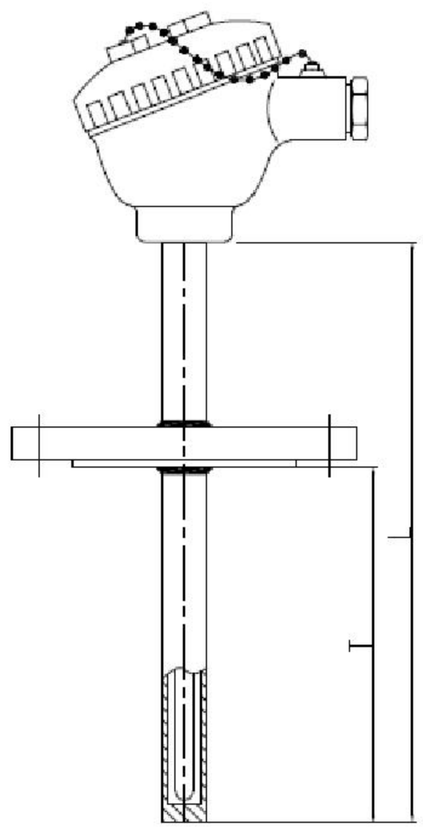
WZP-230



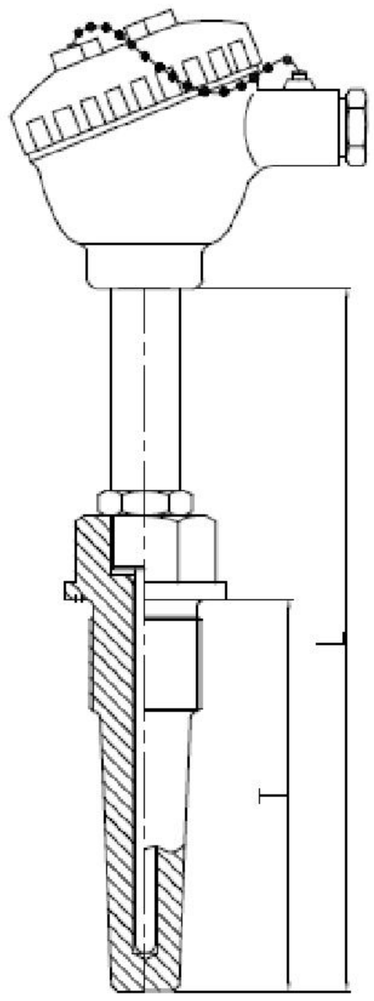
WZP-330



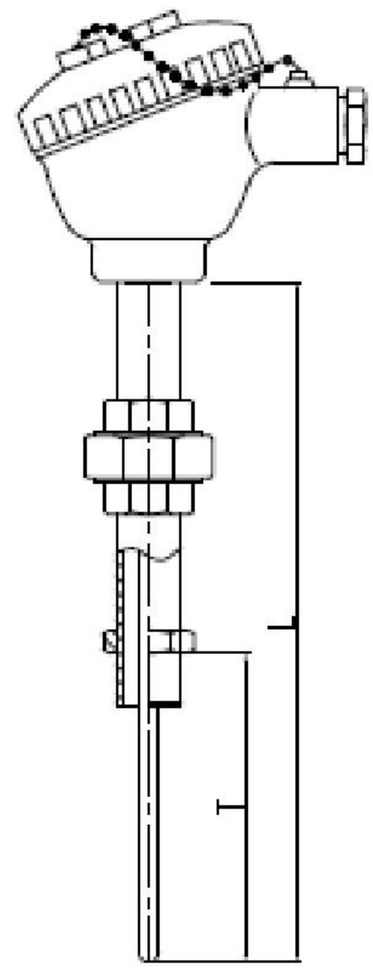
WZP-330（活动卡套法兰）
Adjustable ferrule flange



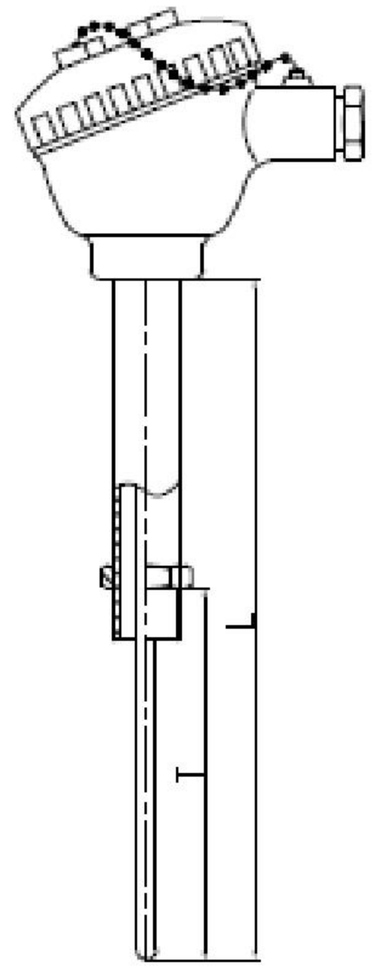
WZP-430



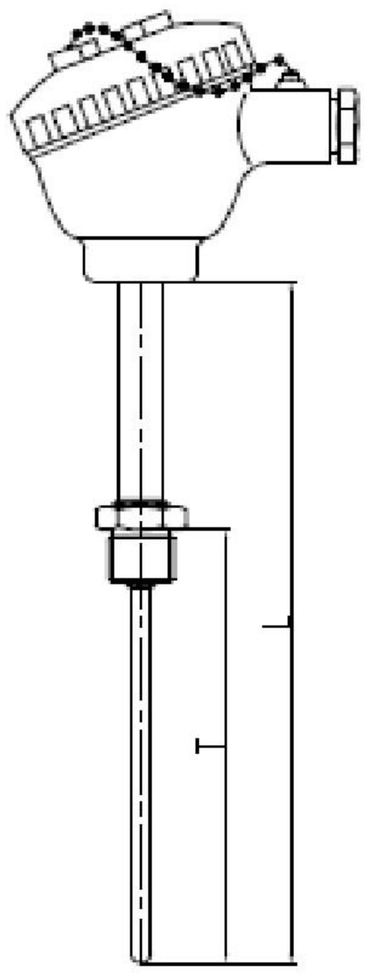
WZP-630



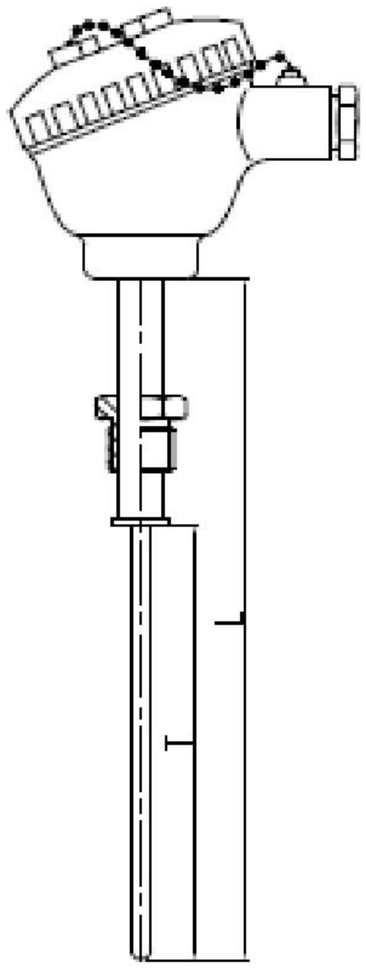
WZP-53



WZP-73

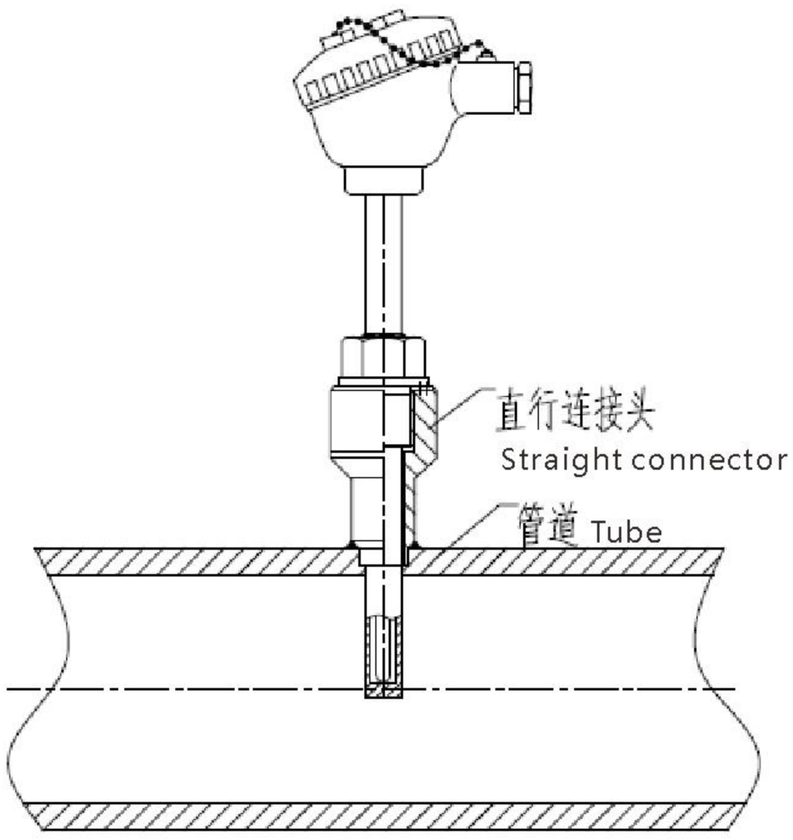


WZP-83

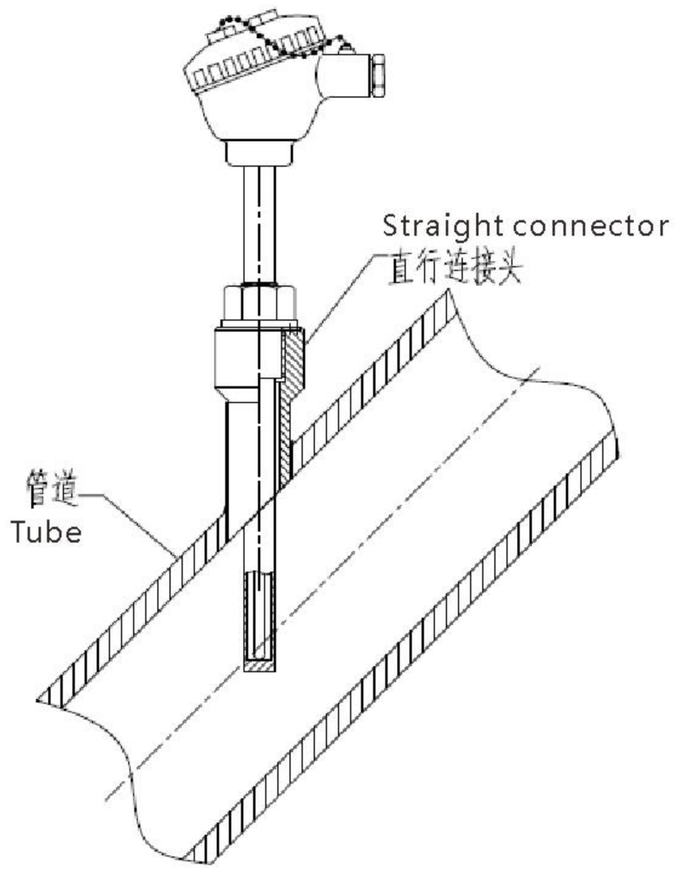


WZP-93（活动螺纹）
Fixed thread

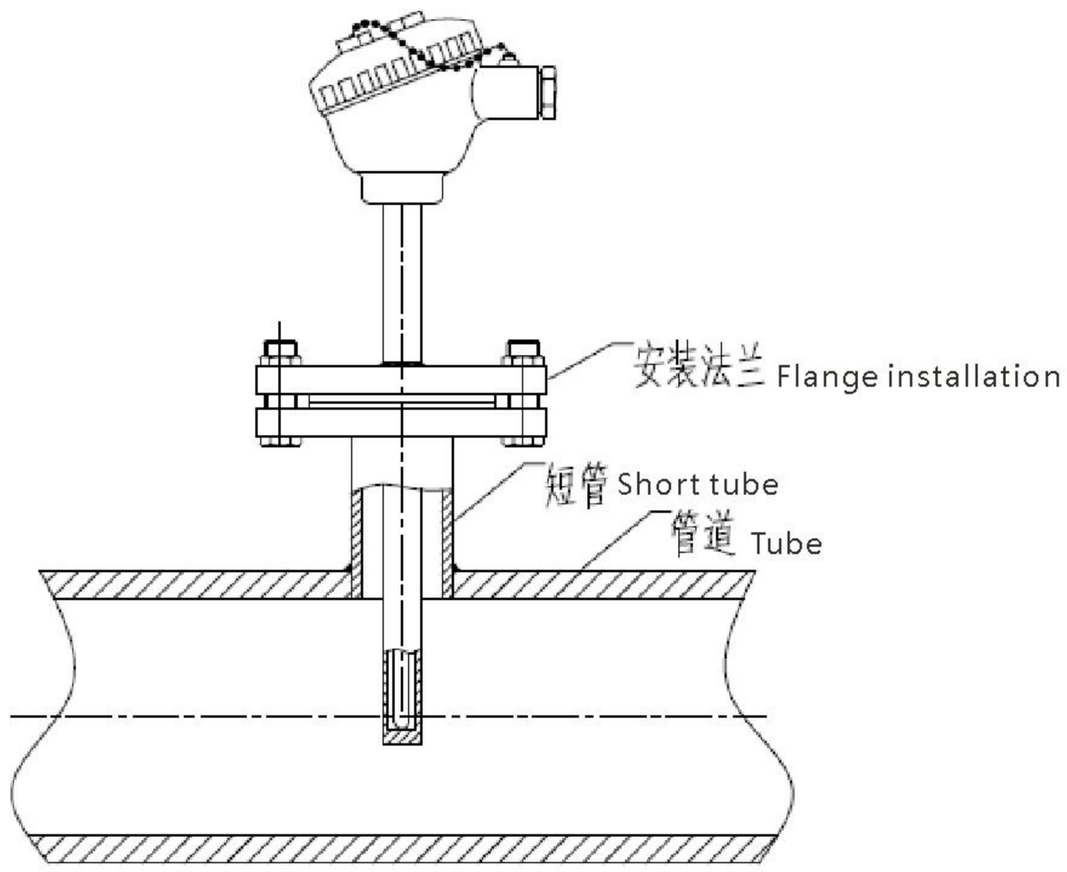
安装形式
Installation form



垂直管道安装
Vertical pipeline installation



倾斜管道安装
Inclined pipeline installation



法兰安装
Flange installation

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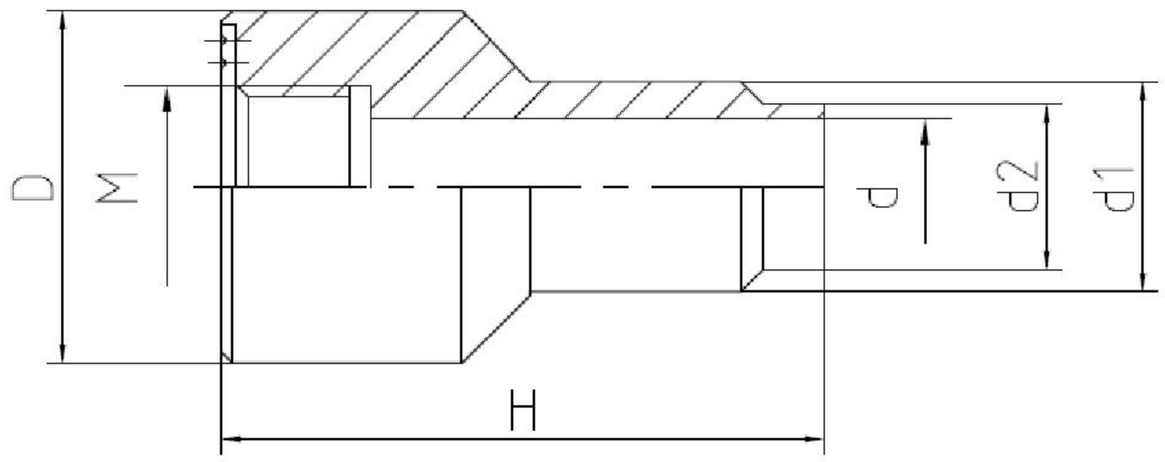
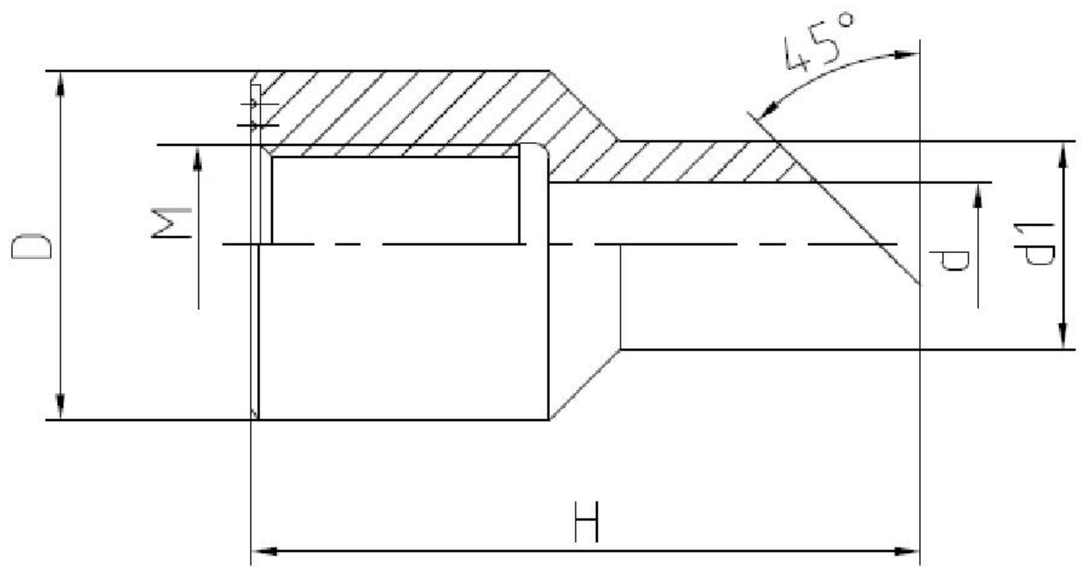
直行连接头

Straight connector



TH48□

代号 Code	M	D	d	d1	d2	H
TH48A	M12x1.5	Φ32	Φ7	Φ18	Φ12	60，120
TH48B	M16x1.5	Φ34	Φ10	Φ24	Φ14	80
TH48C	M20x1.5	Φ39	Φ10	Φ26	Φ14	60
TH48D	M27x2	Φ47	Φ22	Φ32	Φ26	60
TH48E	M33x2	Φ55	Φ22	Φ36	Φ26	120
TH48F	NPT1/2	Φ39	Φ16	Φ27	Φ21	60，120
TH48G	NPT3/4	Φ47	Φ20	Φ31	Φ25	
TH48H	NPT1	Φ47	Φ30	Φ41	Φ35	



TH49□

代号 Code	M	D	d	d1	H
TH49A	M27x2	Φ47	Φ18	Φ28	90
TH49B	M33x2	Φ55	Φ24	Φ36	150
TH49C	NPT1/2	Φ39	Φ16	Φ27	90
TH49D	NPT3/4	Φ47	Φ20	Φ31	90
TH49E	NPT1	Φ47	Φ30	Φ41	150