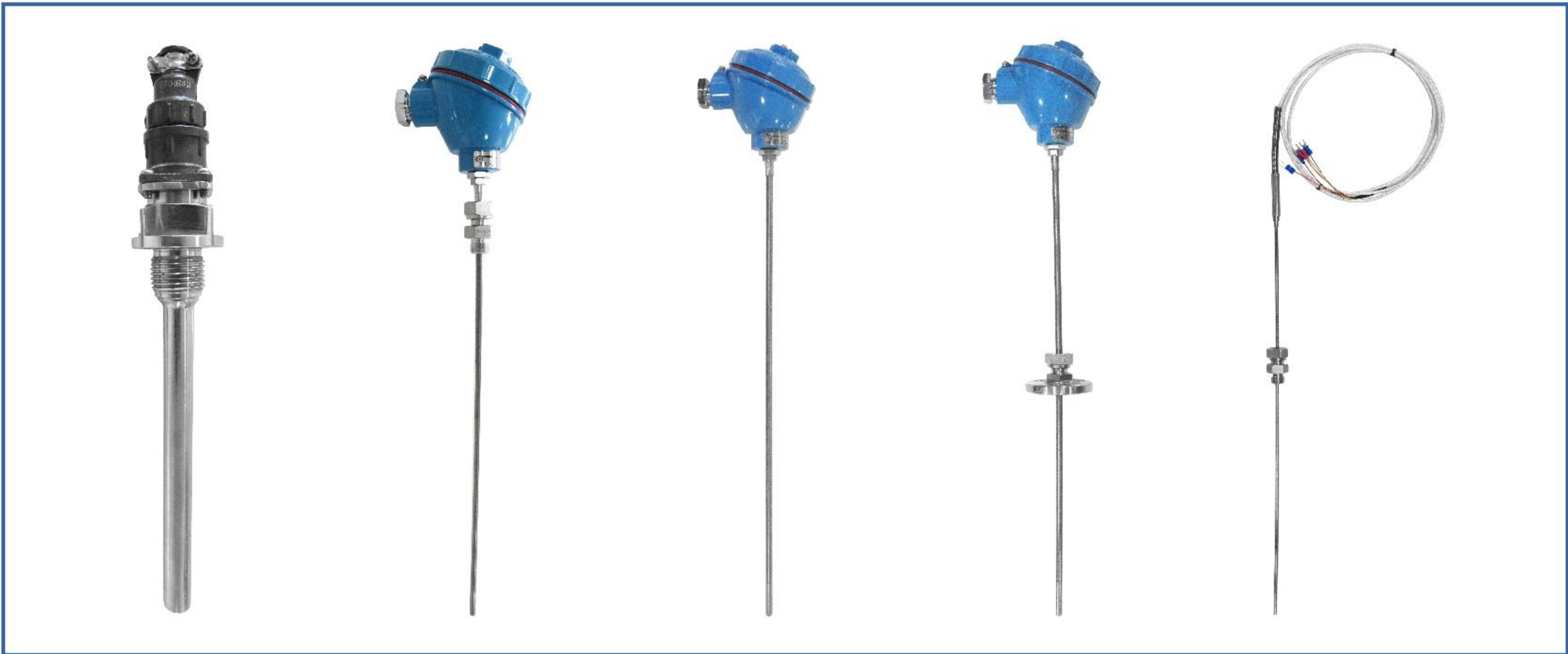


铠装热电阻

Armoured 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温度。

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

铠装热电阻是利用物质在温度变化时，其电阻也随着发生变化的特征来测量温度的。当阻值变化时，工作仪表便显示出阻值所对应的温度值。

Armoured 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.

偶丝直径材料

Thermocouple wire diameter material

偶丝形式 Thermocouple wire form	单支式 Single branch type	双支 Double branch	3支 Three branch
套管直径 Sleeve diameter	Φ3, Φ4, Φ5, Φ6, Φ8	Φ3, Φ4, Φ5, Φ6, Φ8	Φ6, Φ8
套管材质 Sleeve material	06Cr19Ni10、022Cr17Ni12Mo2、06Cr18Ni11Ti		

产品特点

Product Features

- 热响应时间少，减小动态误差；
- 直径小，长度不受限制；
- 测量精确度高；
- 进口薄膜电阻元件，性能可靠稳定；
- 接线盒防护等级：IP65，IP66。
- Less thermal response time, reducing dynamic errors.
- Bendable mounting for use.
- Large measuring range.
- High mechanical strength, good pressure resistance.
- Junction box protection level IP65, IP66.

技术参数

Technical Parameter

产品执行标准：IEC60751、GB/T30121。
Executive Standard of the Product: IEC60751 and GB/T30121.

允差等级

Tolerance level

分度号 Graduation	允差等级 Tolerance level	有效温度范围 (°C) Effective temperature range		允差 (°C) Tolerance
PT100	AA	-200 ~ 500	0~150	$\pm(0.10+0.0017 t)$
	A	-150 ~ 450	-30~300	$\pm(0.15+0.002 t)$
	B	-196~600	-50~500	$\pm(0.30+0.005 t)$

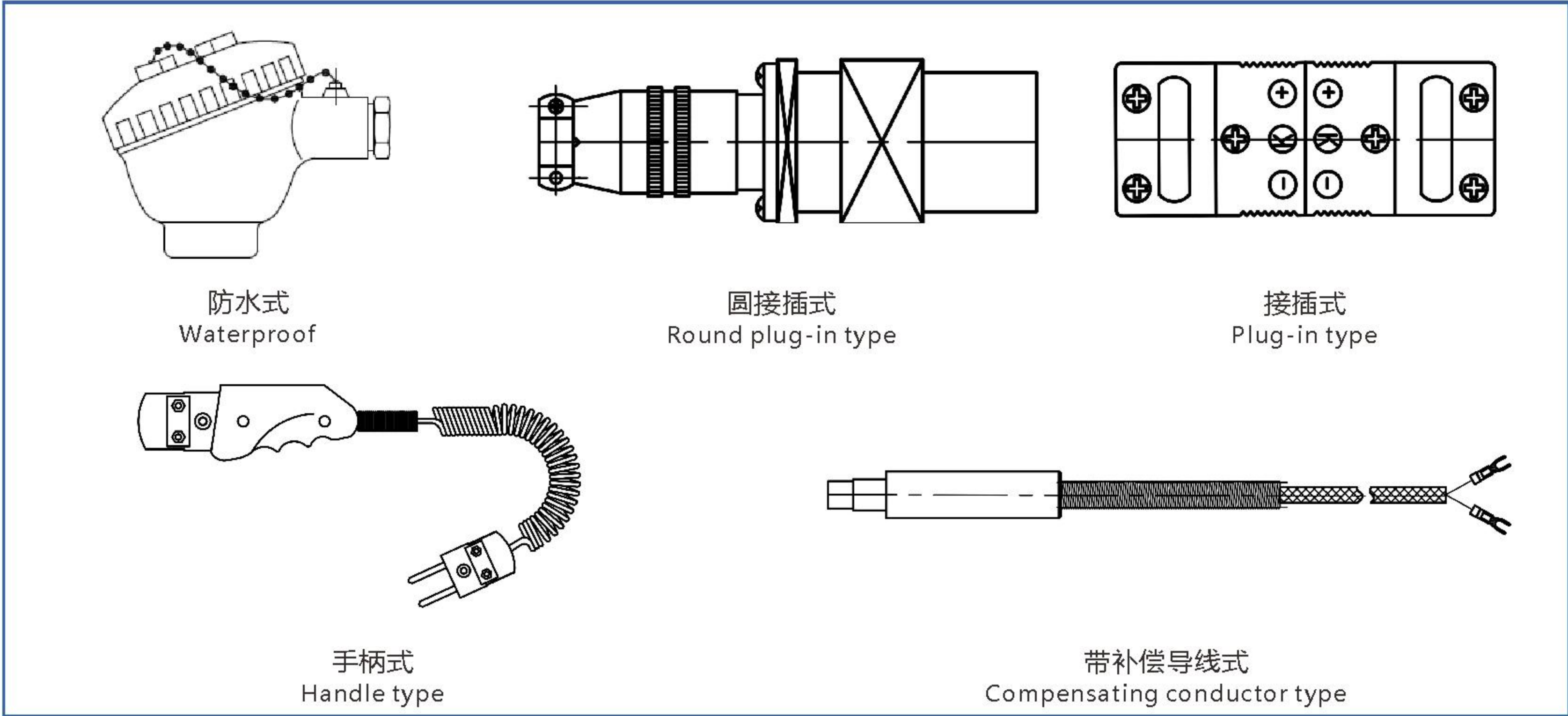
热响应时间

Thermal response time

套管直径 Sleeve Diameter	热响应时间 (s) Thermal Response Time
Φ3	≤3
Φ4	≤5
Φ5	≤8
Φ6	≤12
Φ8	≤15

接线盒形式

Terminal box type



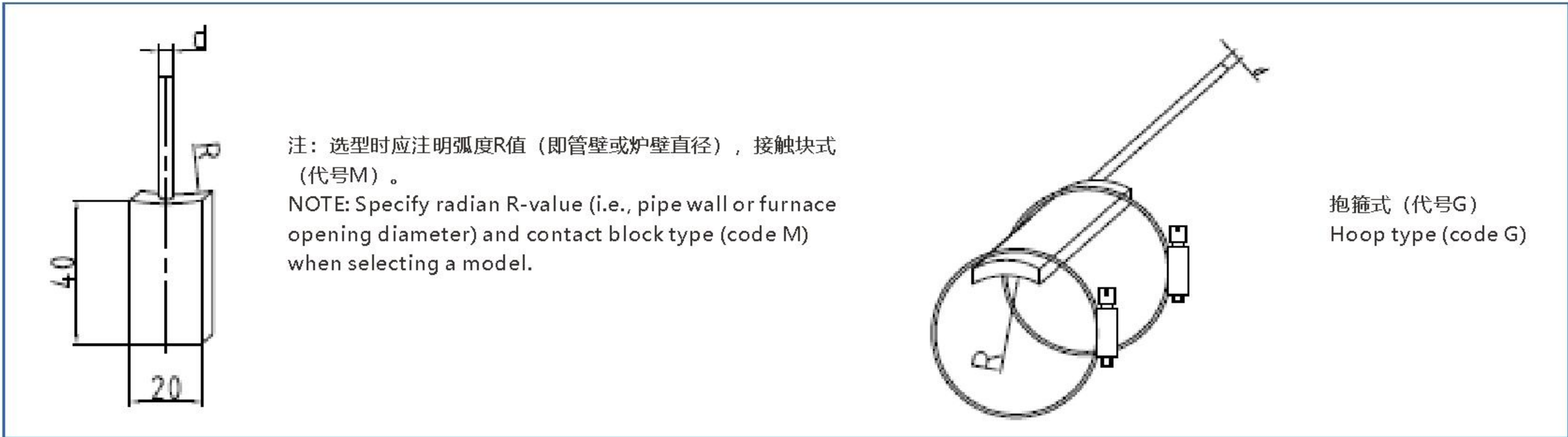
安全固定装置

Safety fixtures

名称 Name	2: 固定螺纹 Fixed thread	3: 活动卡套螺纹 Adjustable ferrule thread	4: 固定法兰 Fixed flange	5: 活动卡套法兰 Adjustable ferrule flange
外形 Shape				

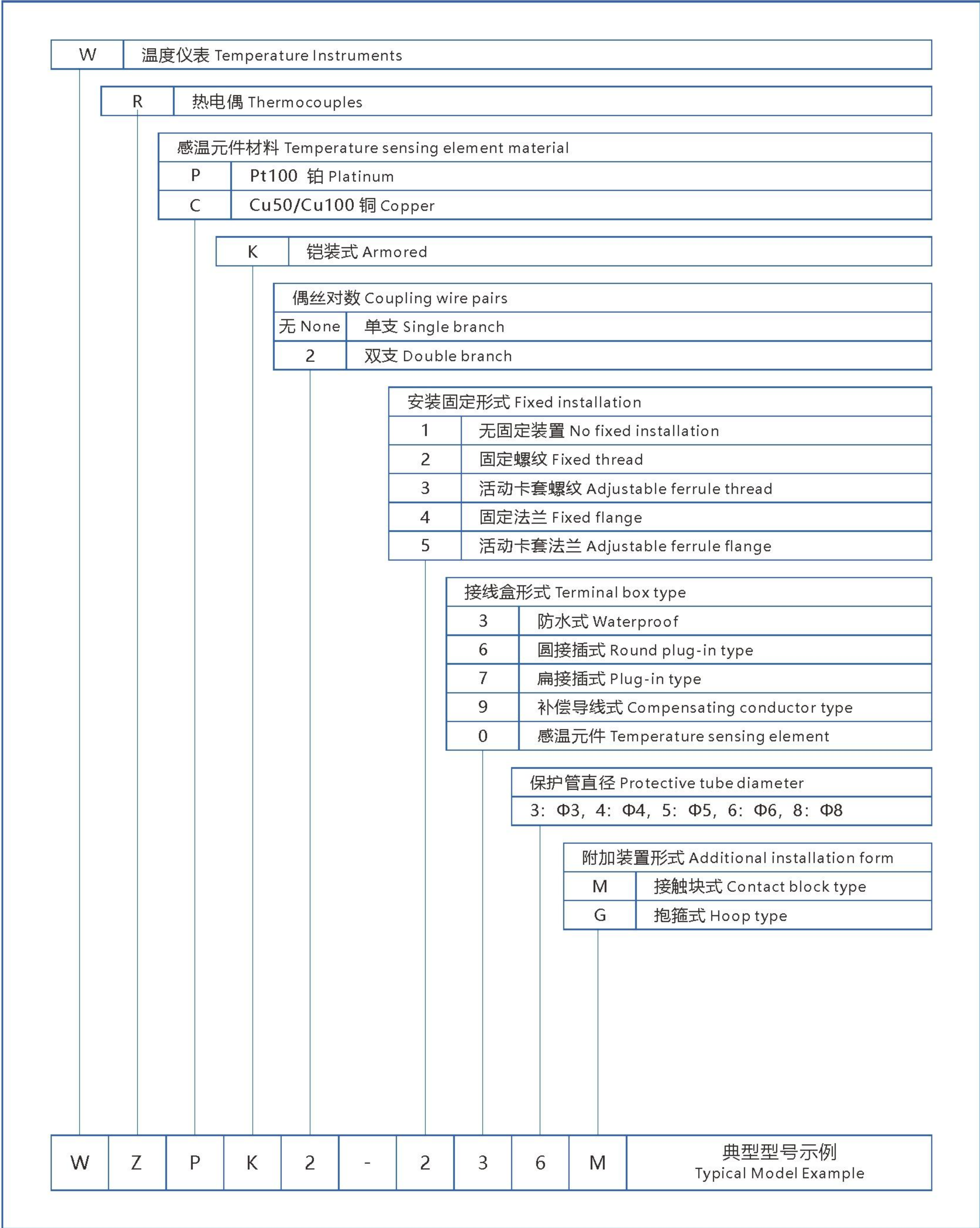
附加安装形式

Additional installation form



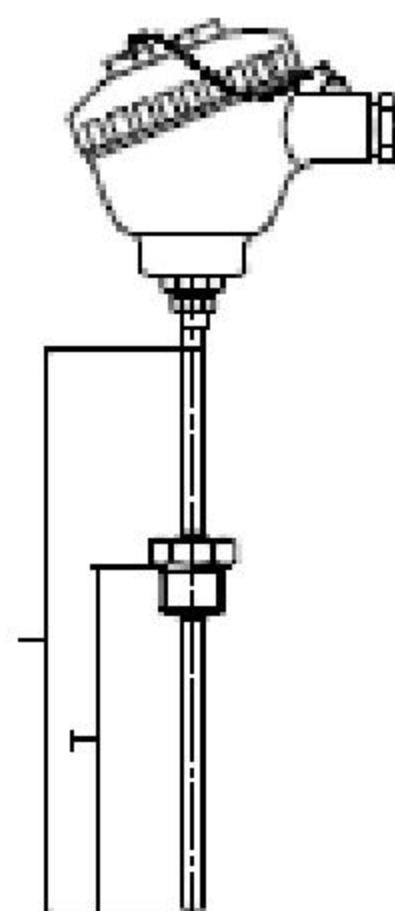
型号命名方法

Model Naming Method

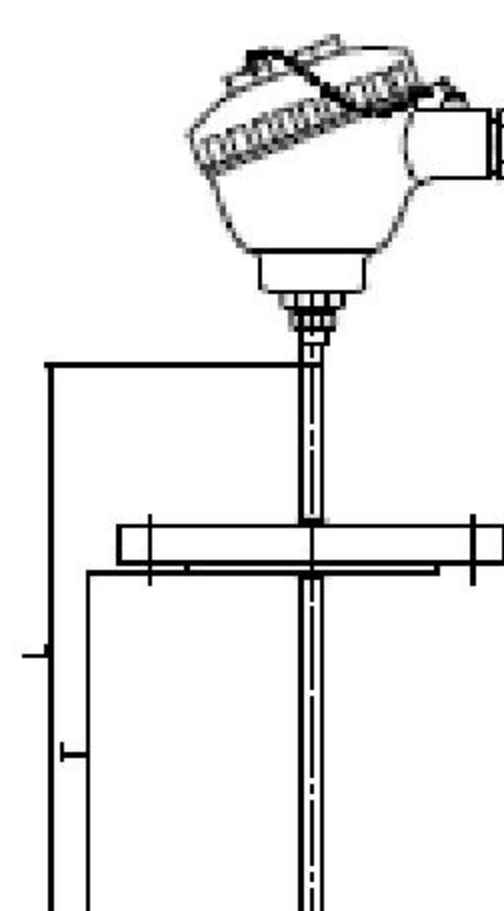


结构示意图

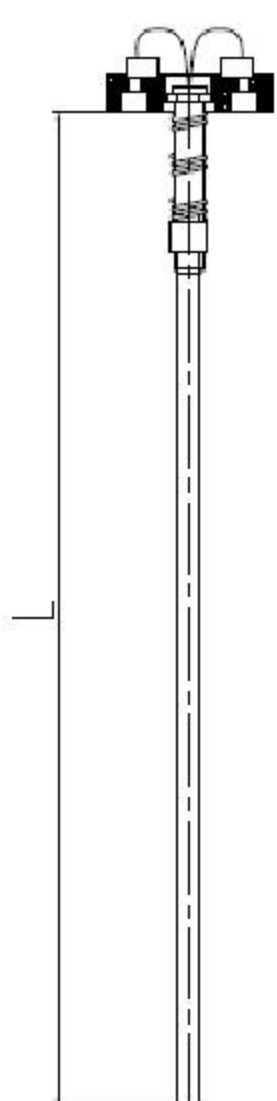
Structure diagram



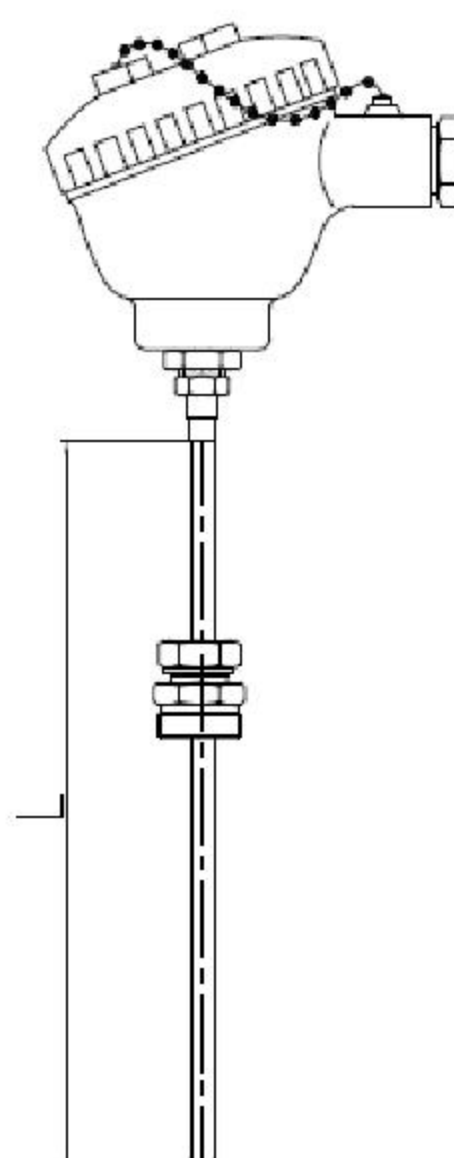
WRNK-235 (固定螺纹)
Fixed thread



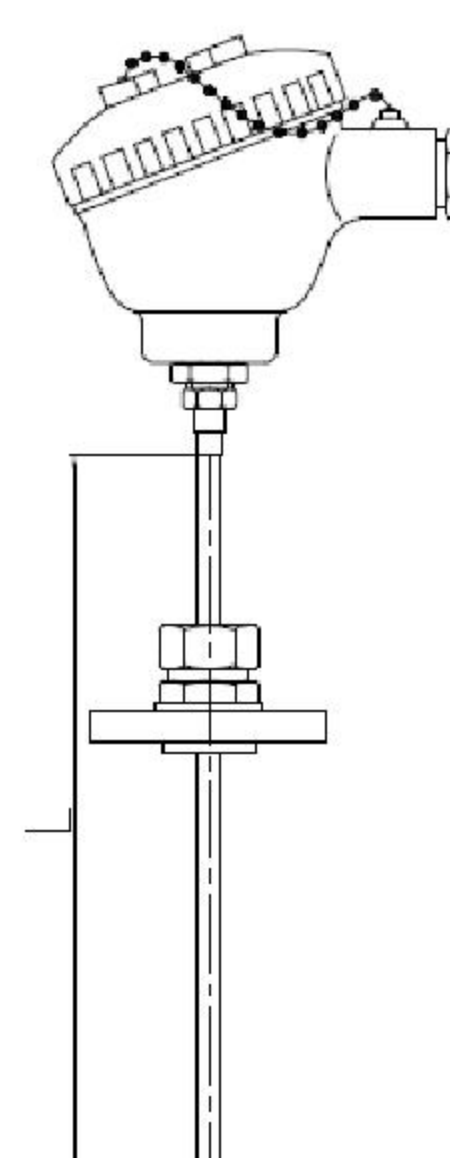
WRNK-435 (固定法兰)
Fixed flange



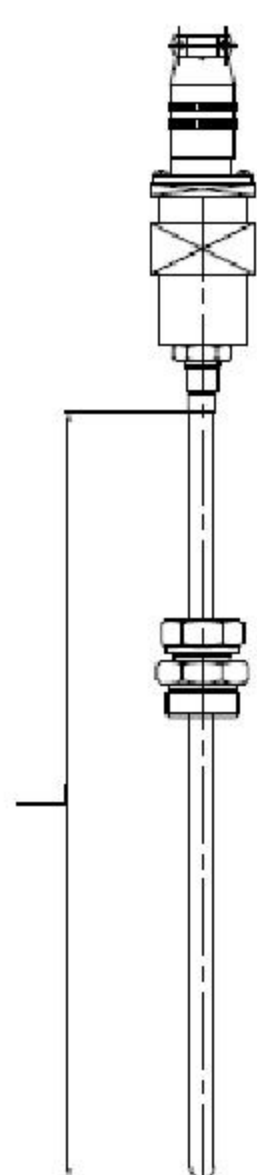
WZPK-010



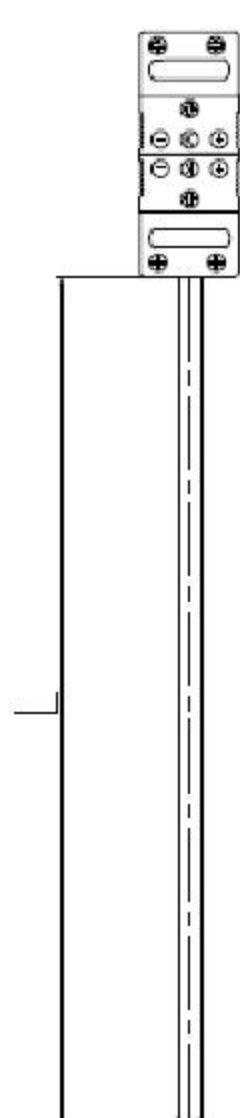
WRNK-335 (活动卡套螺纹)
Adjustable ferrule thread



WRNK-535 (活动卡套法兰)
Adjustable ferrule flange



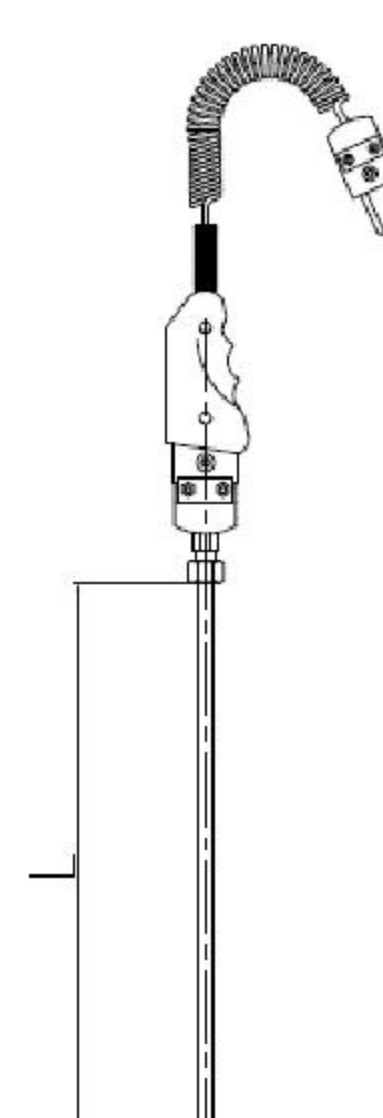
WZPK-365



WZPK-275



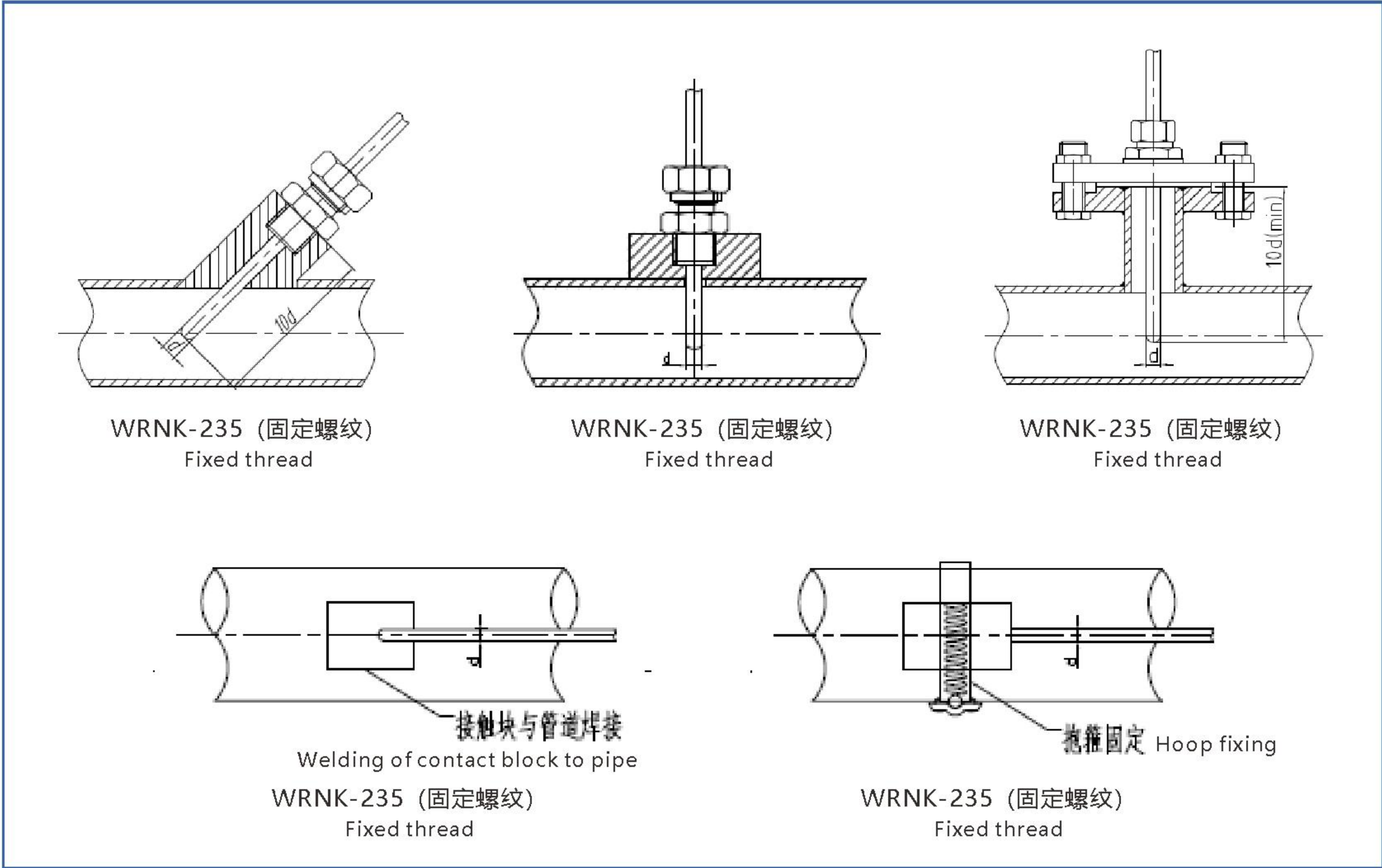
WZPK-295



WZPK-185

安装形式

Installation form



选型须知

Selection Instructions

- 型号;
- 分度号;
- 精度等级;
- 安装固定形式;
- 保护管材质;
- 长度或插入深度。

例：铠装热电偶，PT100，A级，固定卡套螺纹，保护管GH3030，长度450mm，插入深度300mm，WZPK-236，L*I=450*300，A级，保护管GH3030。

Model.
 Graduation number.
 Accuracy level.
 Installation and fixation form.
 Protective tube material.
 Length or insertion depth.
 Example: Armored thermocouple, PT100, Class I, fixed ferrule thread, protective tube GH3030, length 450mm, insertion depth 300mm, WZPK-236, L*I=450*300, Class I, protective tube GH3030.