

The selection is detailed on page 3



JW35

Threaded Guard Casing

The role of the protective tube

For measuring media with corrosive, high temperature, high pressure, explosive, easy to burn and other risk factors, the thermometer can not be directly contacted, that is, first weld the threaded installation sleeve or flange installation sleeve in the pipeline or container, and then install the bimetal thermometer in it, then the role of the protective tube will appear. General bimetal thermometers are equipped with protective sleeves, in order to protect the temperature measuring element inside, but also for easy maintenance. It can effectively protect the normal work of bimetal thermometers, and can also be used for special occasions such as anti-corrosion, high pressure and high flow rate, and has a certain auxiliary role for the accuracy of measurement results.

Product description

The sheath is an important component in all temperature measurement applications, isolating the measurement process from the surrounding environment, not only to protect the environment and workers, but also to separate aggressive, high-pressure, high-flow media from the temperature sensor body, so that users can also change the thermometer during the work process. The sheath is available in a variety of designs and materials to meet all application requirements.

Interface type and basic manufacturing process are important design option elements. Under normal circumstances, we mainly divide the sheath into threaded type, welded in type and flange type. In addition, the sheath can also be divided into two types of assembly and integral. The assembled jacket is made of pipe and ends are welded with bottom components. The integral sheath is machined from bar material.

The JW35 series of assembled threaded or sold-in sheathing is suitable for a wide range of electronic and mechanical thermometers manufactured by Rodwig. Designed according to DIN 43772, this series of jackets is suitable for small to medium process load applications and is the first choice for applications in the chemical industry, process technology and equipment manufacturing.

Functional characteristics

According to DIN 43772
 JW35-2 Type: Type 2 (straight)
 JW35-3 Type: Type 3 (cone)
 JW35-4 Type: Type 2G (straight)
 JW35-5: Type: Type 3G (cone)
 Various thread standards, wall thickness, length optional
 JW35-3, JW35-5: Fast response design

Product application

Chemical industry
 Process technology
 Instrument making
 Suitable for small to medium process load applications



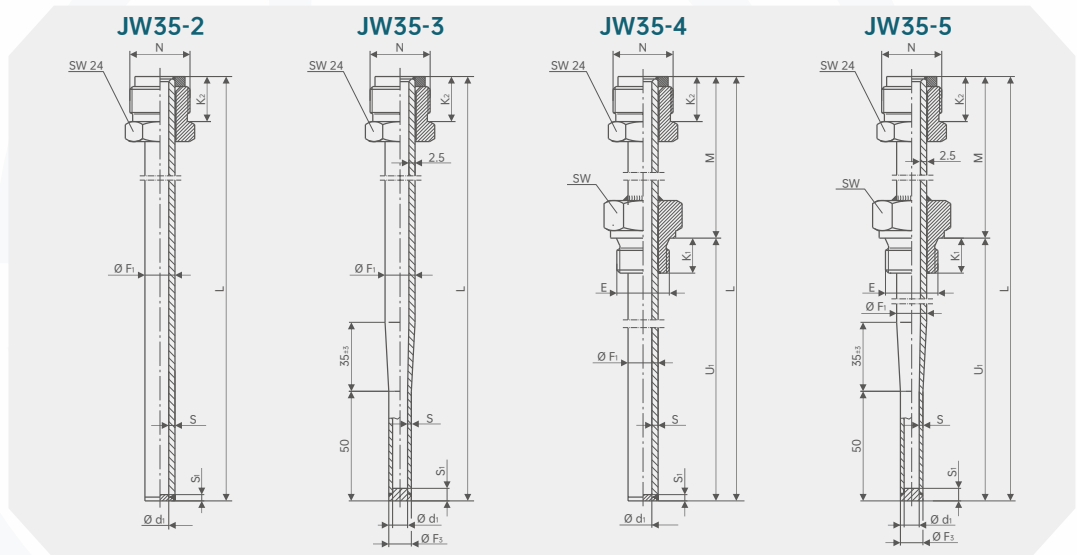
Technical parameter

Hot sleeve material	Stainless Steel 1.4571	
Process connection	External thread G1/2B, G1B, M20 x 1.5, 1/2NPT assembly/welded thread	
Thermometer connection	M24 x 1.5 Lock nut	
Hole size	Ø6.1 mm, Ø7 mm, Ø9 mm	
Insertion length U1	According to DIN 43772 or customer requirements	
Overall length	JW35: Insert length U1 + 147mm	
Maximum process temperature, process pressure depends		
■ Load diagram DIN 43772	Hot sleeve design	dimension
		Materials
	Process condition	Velocity of flow Dielectric density
Options	Other sizes and materials	

Size mm

Legend:

- E Process connection
- K1 Length of external thread
- L Overall length
- M Neck length (Min. 60mm)
- U1 Insertion length
- N Connected thermometer
- Ø d1 Cylinder diameter
- Ø F1 Hot tube diameter
- S Wall thickness
- S1 Thickness of soldering iron head



Size mm					weight kg
Ø d1	Ø F1	S	S1	N	L=305 mm
7	11	2	3	G1/2B, G1B, M20×1.5, 1/2NPT	0.23
7	12	2.5	3.5	G1/2B, G1B, M20×1.5, 1/2NPT	0.35
9	14	2.5	3.5	G1/2B, G1B, M20×1.5, 1/2NPT	0.23
6.1	12	2.5	5	G1/2B, G1B, M20×1.5, 1/2NPT	0.23

Length of applicable probe rod for mechanical pointer thermometers

Connection type	Rod length l ₁
S, 3, 4, 5	L1 = L-10mm or L1=U1+M-10mm
	L1 = L-30mm or L1=U1+M-30mm

JW35-Selection composition

Selection example **JW35**

S / **A** / **G** / **N** / **S**

1.Material	S	304SS
	L	316L
	T()	Other materials
2.Instrument interface specification	A	G1/2 Internal thread
	B	1/2NPT Internal thread
	C	M20*1.5 Internal thread
	D	M27*1.5 Internal thread
	T()	Other thread specifications
3.Field connection specification	G	G1/2
	H	1/2NPT
	I	M20*1.5
	J	M27*1.5
	M	Unthreaded
	T()	Other thread specifications
4.Insertion length mm	N	100
	O	200
	P	300
	Q	400
	R	500
	T()	Other size
5.Sheath diameter mm	S	10 (Suitable for 8MM probe rod)
	V	12 (Suitable for 10MM probe rod)
	U	14 (Suitable for 12MM probe rod)
	T()	Other inner diameter dimensions

Instructions:

It indicates that the material of JW35 threaded protective sleeve is 304 stainless steel, the instrument interface specification is G1/2 internal thread, the field connection specification is G1/2, the insertion length is 100mm, and the inner diameter of the sheath is 10mm.

Product certification

Compliance and approval; Rodewig temperature instruments meet key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;