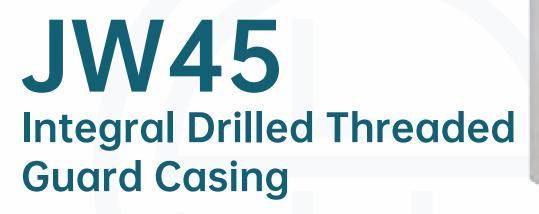
The selection is detailed on page 4



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 anticorrosion, 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 JW45 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, the series is suitable for heavy load applications in the chemical industry, process technology and equipment manufacturing.

Product application

Chemical industry Process technology Instrument making Suitable for large process load applications

Functional characteristics

According to DIN 43772 Various thread standards, wall thickness, length optional



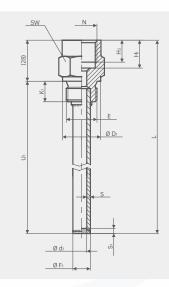
Technical parameter

Hot sleeve material	Stainless steel 1.4	Stainless steel 1.4571 or copper alloy					
Process connection	External thread G	External thread G1/2B, G 3/4 B male thread					
Thermometer connection	G1/2, G3/4 female	G1/2, G3/4 female thread					
Hole size	According to DIN 43772 version: Ø7mm, Ø9mm, Ø11mm						
	The design is similar to DIN 43772, but with fast response: Ø6.2 mm, Ø8.2 mm, Ø8.5 mm, Ø10.2 mm						
Insertion length U1	82, 142, 182, 232, 382 mm						
Overall length	The installation length is U1+28mm						
Maximum process temperature,	Load diagram DIN 43772						
process pressure depends	Protective casing	dimension					
	design	Materials					
	Process condition	Velocity of flow					
		Dielectric density					
Options	Other sizes and materials						

Size mm

legend:

- Process connection Е
- H1 Hole depth of internal thread
- Length of internal thread H2
- Length of external thread Overall length K1
- L
- Ν Connected thermometer
- S Wall thickness
- S1 Thickness of soldering iron head
- SW plane
- U1 Insertion length
- Ød1 Hole size
- Ø D1 Seal ring diameter
- Ø F1 Thermometer tube outer diameter



Material	Size mm												Weight kg	
	Е	N	Ø d1	Ø D1	Ø F1	H1	H2	K1	S	S1	SW	U1=82mm	U1=382mm	
Stainless	G1/2 B	G1/2	7	26	12	19	15	14	2.5	3.5	27	0.15	0.33	
steel 1.4571	G1/2 B	G1/2	9	26	14	19	15	14	2.5	3.5	27	0.15	0.36	
	G1/2 B	G1/2	11	26	14	19	15	14	1.5	2.5	27	0.12	0.28	
	G1/2 B	G1/2	6.2	26	8	19	15	14	0.9	1	27	0.12	0.18	
	G1/2 B	G1/2	8.2	26	10	19	15	14	0.9	1	27	0.12	0.18	
	G1/2 B	G1/2	10.2	26	12	19	15	14	0.9	1	27	0.12	0.19	
	G3/4 B	G1/2	7	32	12	19	15	16	2.5	3.5	32	0.24	0.42	
	G3/4 B	G1/2	9	32	14	19	15	16	2.5	3.5	32	0.24	0.45	
	G3/4 B	G1/2	11	32	14	19	15	16	1.5	2.5	32	0.22	0.37	
	G3/4 B	G1/2	6.2	32	8	19	15	16	0.9	1	32	0.21	0.27	



Size mm

Material	Size mm												Weight kg	
	E	Ν	Ø d1	Ø D1	Ø F1	H1	H2	K1	S	S1	SW	U1=82mm	U1=382mm	
Stainless	G3/4 B	G1/2	8.2	32	10	19	15	16	0.9	1	32	0.21	0.27	
steel 1.4571	G3/4 B	G1/2	10.2	32	12	19	15	16	0.9	1	32	0.21	0.28	
	G3/4 B	G3/4	7	32	12	22	17	16	2.5	3.5	32	0.20	0.38	
	G3/4 B	G3/4	9	32	14	22	17	16	2.5	3.5	32	0.20	0.41	
	G3/4 B	G3/4	11	32	14	22	17	16	1.5	2.5	32	0.18	0.33	
	G3/4 B	G3/4	6.2	32	8	22	17	16	0.9	1	32	0.17	0.23	
	G3/4 B	G3/4	8.2	32	10	22	17	16	0.9	1	32	0.17	0.23	
	G3/4 B	G3/4	10.2	32	12	22	17	16	0.9	1	32	0.17	0.24	
Copper	G1/2 B	G1/2	8.5	26	10	19	15	14	0.75	0.75	27	0.11	0.18	
alloy	G3/4 B	G1/2	8.5	32	10	19	15	16	0.75	0.75	32	0.23	0.29	

Appropriate insertion length - mechanical dial type thermometer

Connection type	Rod length I1				
S ¹⁾ , 3, 4, 5	L1 = L-10mm or L1=U1+18mm				
2	L1 = L-30mm or L1=U1-2mm				

1) Not suitable for use thermometer protection tube inner diameter Ø6.2 mm (tube 8 x 0.9 mm), Ø8.2 mm (tube 10 x 0.9 mm) and 10.2 mm (tube 12 x 0.9 mm)

Appropriate insertion length - mechanical glass thermometer

Connection type	Rod length I ₁				
E	L1 = L-10mm or L1=U1+18mm				





						-						
1.Mat	1.Material S 304SS											
		L	316L									
T() Other materials												
	2.Instrument interface A G1/2 Internal				nterna	l thread	thread					
	specification	ı	В	1/2NP	T Interi	nal thre	ad					
C M20*1.5 Inter					1.5 Inte	ernal thr	nal thread					
			D	M27*	1.5 Inte	ernal thr	read					
			T()				ications					
	3	Field con		G	G1/2	a op oon						
		ecificatio		H	1/2NF	т						
				1	M20*							
				J	M27*1.5							
				M Unthreaded T() Other thread specifications								
				T()		100	I specifications					
		4.In	4.Insertion length mm N									
					0	200						
					Ρ	300						
					Q	400						
					R	500						
5.Sheath diameter mm			T()	Other size								
			neter 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							

JW45-Selection composition Selection example JW45 S / A / G

Instructions:

It indicates that the material of JW45 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; Rodeweig temperature instruments meet key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;

