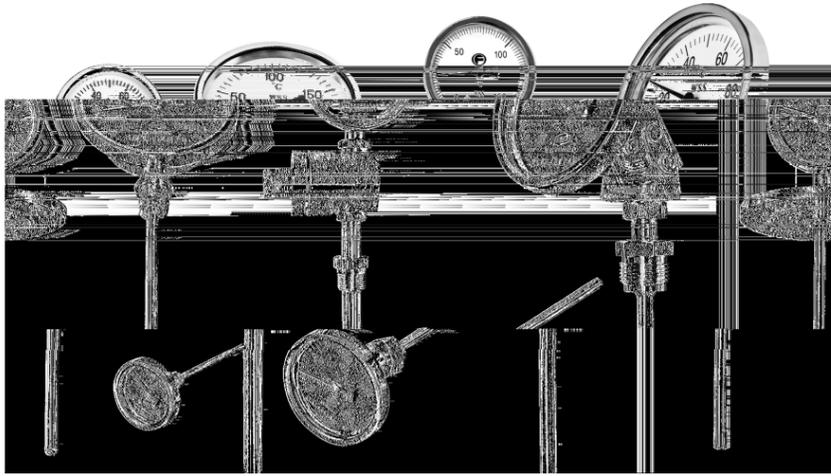


The bimetallic thermometer is a on site measurement instrument suitable for measuring middle and high temperature, and can be used to measure directly the temperature of gasses and liquids. Compared with glass thermometer, it is featured with no mercury harmness, distinct reading, strong and durable and other advantages. Our company produces multipurpose bimetallic thermometers. The types and models are complete. The quality is high and reliable. It can be used widely in industry, agriculture, national defence and scientific research etc.



Bimetallic thermometer (hereafter referred to as simply thermometer) is a coiling thermal bimetal temperature sensor. One end is fixed inside the protective sleeve (fixed end) and another end (free end) is connected at a fine axle. The axle end is equipped with a needle. When the temperature changes, the free end of the temperature sensor rotates, hereupon, the fine axle moves the needle. The dial plate indicates the temperature change. The steering drive mechanism in the straight meter moves the needle. The meter housing is made of steel plate, cast aluminium alloy and stainless steel. For the head of the adjustable angle thermometer, by means of corrugated pipe, angle mechanism and other parts, the angle can be adjusted freely from the angle type to straight type, or from the straight type to angle type.

The electric contact bimetallic thermometer is added with electrical contacts, adjusting devices, outlet box etc. When the temperature fluctuates, at the moment when the needle (moving contact) and the pre-established temperature control contact (upper limit or lower limit) are connected or disconnected, the relay or the contactor in the control circuit moves, thereby, realizing automatic temperature control or protection.

## WSS Series bimetallic thermometers

The profile and installing dimensions

WSS-301 302 401 402 501 502 411 412 511 512 profile and installing dimensions(See fig.1、fig.2 and table 2、table 3)

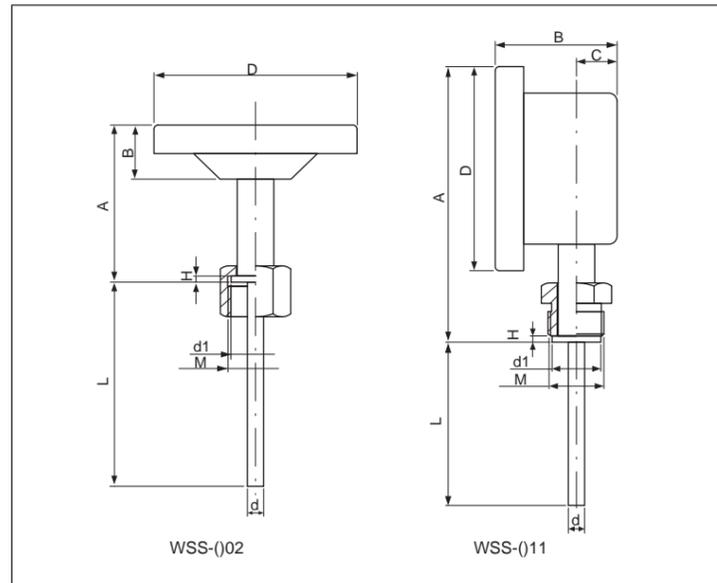


Fig. 1

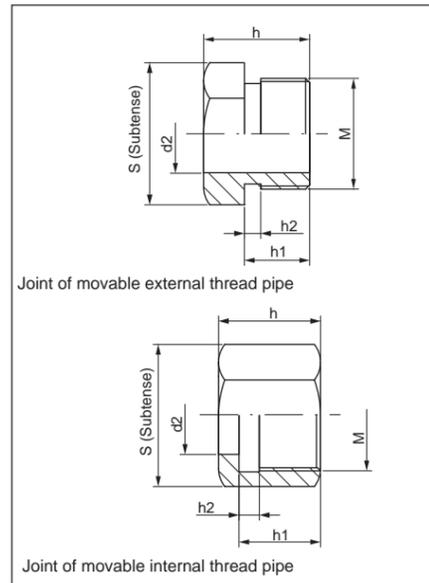


Fig.2

Model	D	A	B	C	M	d	d1	H	L
WSS-301	60	51	20	-	M16 x 1.5	6	14	2	See table 1 the insert length
WSS-302									
WSS-401	100	73	26.5	-	M27X2	8	24	3	
WSS-402									
WSS-501	150	77	30.5	-	M27X2	10	24	3	
WSS-502									
WSS-411	100	134	64	20	M27X2	12	-	-	
WSS-412									
WSS-511	150	183	68	-	M27X2	12	-	-	
WSS-512									

Installation mode	M	S	h	h1	h2	d2
Joint of movable external thread pipe	M16 x 1.5	20	20	12	3	9.5
Joint of movable internal thread pipe	M27 x 2	30	26	16	4	17.5
Joint of movable external thread pipe	M16 x 1.5	20	20	15	3	9.5
Joint of movable internal thread pipe	M27 x 2	30	25	20	5	17.5

WSS - 301A 311A 401A 411A 501A 511A 302A 312A 402A 412A 502A 512A profile and installing dimensions(See fig.2、fig.3、fig.4 and table 3、table 4)

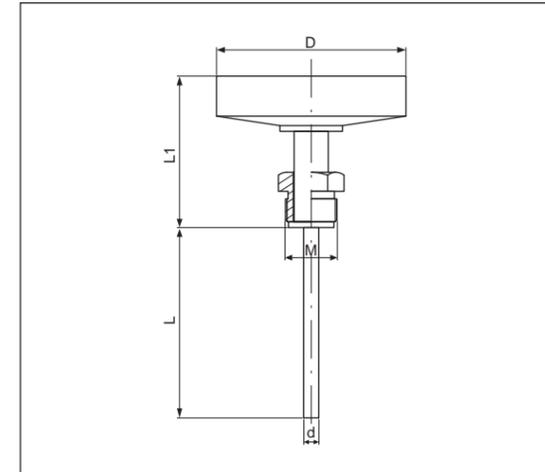


Fig.3

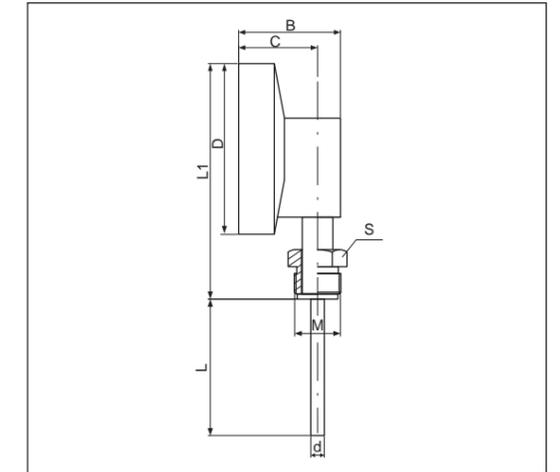


Fig.4

Model	D	d	B	C	L	L1	S	M
WSS-301A	60	6	-	-	See table 1 the insert length	61	20	M16 x 1.5
WSS-302A			47	35				
WSS-311A						-		
WSS-312A			60	14				
WSS-401A	100	8				-	-	81
WSS-402A			-	-		-		
WSS-411A							60	14
WSS-412A			-	-		-		
WSS-501A	150	12					-	-
WSS-502A			-	-		-		
WSS-511A					65		18	-
WSS-512A			-	-		-		

WSS - 461A 462A profile and installing dimensions(See fig.2、fig.5 and table 3、table5)

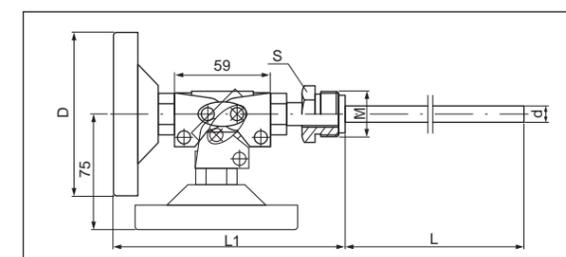


Fig.5

Model	D	M	S	d	L	L1
WSS - 462A	100	M27 x 2	30	ø10	See table 1 the insert length	165
WSS - 461A				ø12		