

Head Type RTDs

Standard Head

Select Basic Model Code

SH3	-	D1	A	0
①		②	③	④

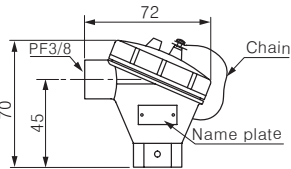
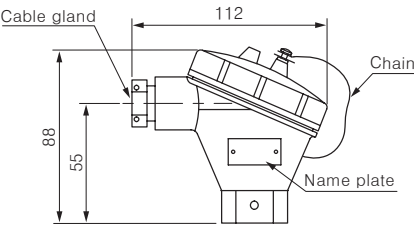
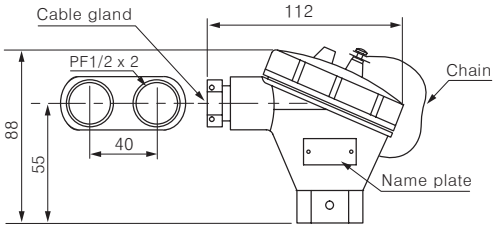
Item		Descriptions			
① Temperature sensor type		SH3	Head type RTD		
② Head type (Head material wireway standard)	Small standard head	C8	Aluminum PF3/8		
	Middle standard head	D1	Aluminum PF1/2	E2	Cast iron PF3/4
		D2	Aluminum PF3/4	F1	Stainless steel PF1/2
		E1	Cast iron PF1/2	F2	Stainless steel PF3/4
	Middle 2-port standard head	G1	Aluminum PF1/2×2		
③ Tube type		A	Standard	K	Nipple Union
		B	Slide Screwed	L	Compression Fitting
		C	Upper Slide Screwed	M	Flanged
		F	Nipple Screwed	N	Slide Flanged
		G	Screwed	P	Metal Support Flanged
		H	Metal Support Screwed		
④ Tube material※1		0	Metal	S	Metal (spring load)

※ Do NOT combine the tube type and tube material arbitrarily. Refer to the "Select Tube" description.

※ 1. For detailed tube material, refer to the "Detailed specification" at "Ordering Code" description.

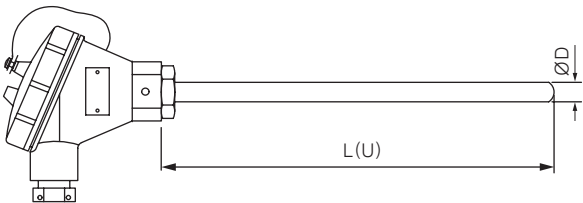
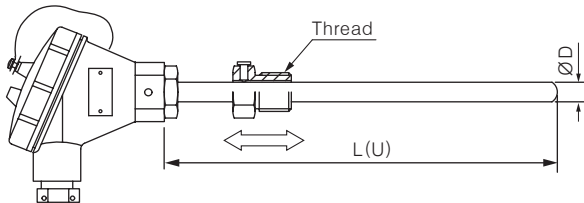
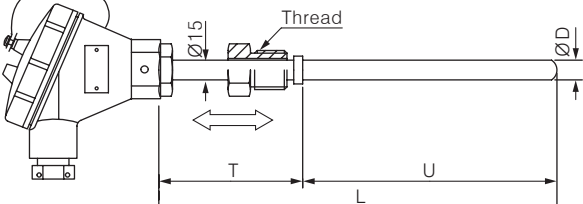
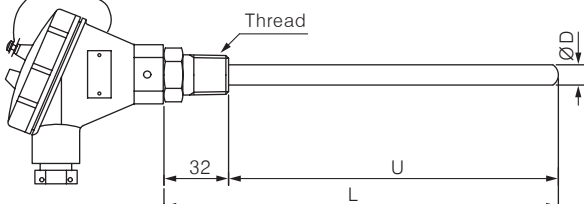
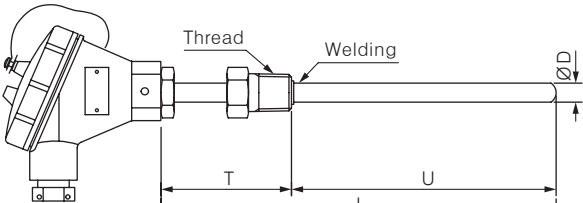
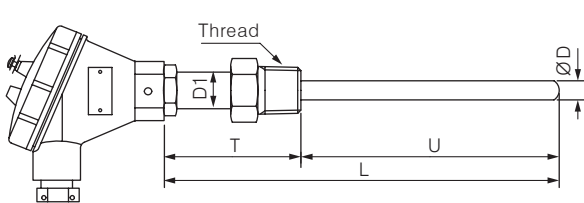
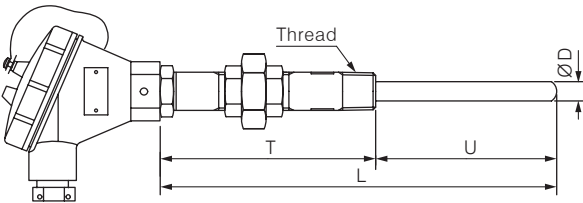
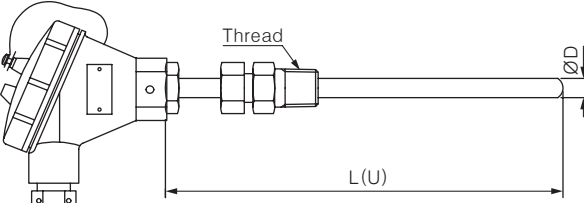
Select Head

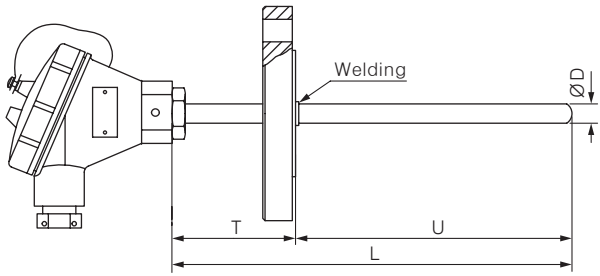
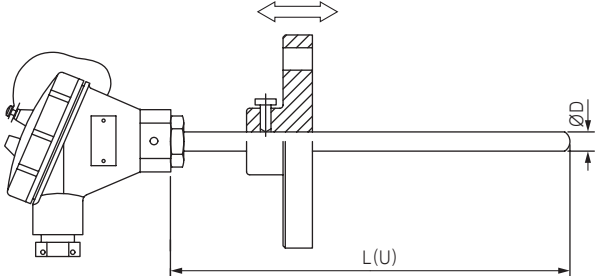
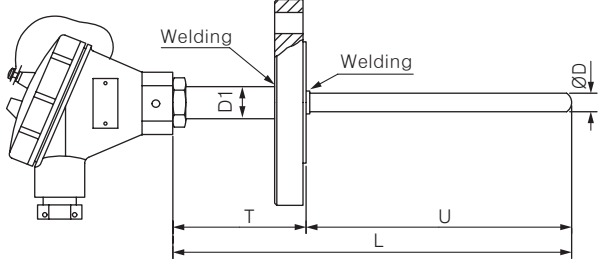
Select head material and wireway standard.

Small standard head	Middle standard head	Middle 2-port standard head
		
Material : Aluminum	Material : Aluminum, Cast iron, Stainless steel	Material : Aluminum
■ SH3-C8 □□	■ SH3-D1 □□ ■ SH3-D2 □□ ■ SH3-E1 □□ ■ SH3-E2 □□ ■ SH3-F1 □□ ■ SH3-F2 □□	■ SH3-G1 □□

Select Tube

Select tube type and material.

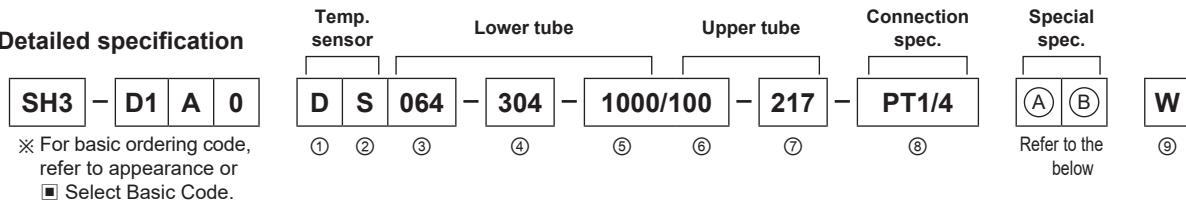
<p>Standard : SH3-□□A0</p> 	<p>Slide Screwed : SH3-□□B0</p> 
<p>Upper Slide Screwed : SH3-□□C0</p> 	<p>Nipple Screwed : SH3-□□F0</p> 
<p>Screwed : SH3-□□G0</p> 	<p>Metal Support Screwed : SH3-□□H0 -□□HS (spring load)</p> 
<p>Nipple Union : SH3-□□K0 -□□KS (spring load)</p> 	<p>Compression Fitting : SH3-□□L0</p> 

Flanged : SH3-□□ M0	Slide Flanged : SH3-□□ N0
 <p>Diagram illustrating the Flanged configuration (SH3-□□ M0). The diagram shows a motorized actuator connected to a horizontal shaft. The shaft is welded to a vertical flange. Dimensions are labeled: T (distance from actuator to flange), L (distance from flange to end of shaft), U (total distance from actuator to end of shaft), and ØD (shaft diameter). The word "Welding" is indicated at the connection point.</p>	 <p>Diagram illustrating the Slide Flanged configuration (SH3-□□ N0). The diagram shows a motorized actuator connected to a horizontal shaft. The shaft is welded to a vertical flange. Dimensions are labeled: L(U) (distance from actuator to end of shaft), and ØD (shaft diameter). A double-headed arrow indicates sliding motion. The word "Welding" is indicated at the connection point.</p>
Metal Support Flanged : SH3-□□ P0	
 <p>Diagram illustrating the Metal Support Flanged configuration (SH3-□□ P0). The diagram shows a motorized actuator connected to a horizontal shaft. The shaft is welded to a vertical flange. Dimensions are labeled: T (distance from actuator to flange), L (distance from flange to end of shaft), U (total distance from actuator to end of shaft), and ØD (shaft diameter). The word "Welding" is indicated at the connection point.</p>	

■ Ordering Code

Order code is basic model code + detailed specification + special specification.

■ Detailed specification



Item		Descriptions							
① Temperature sensor		D	DPT100			P	JPt100		
② Sensor elements		S	Single			D	Double		
③ Tube thickness (ØD) ※ ¹		064	Ø6.4			150	Ø15		
		080	Ø8.0			173	Ø17.3		
		100	Ø10			220	Ø22		
		120	Ø12			270	Ø27		
		138	Ø13.8						
④ Tube material		304	304SS			316	316SS		
		36L	316LSS						
⑤ Tube lower length (U) (mm)			Write directly (below 9999mm)						
⑥ Tube upper length (T) (mm) ※ ² , ※ ³	Metal	080	80mm			150	150mm		
		100	100mm			300	300mm		
		120	120mm						
⑦ Tube upper thickness (ØD1) ※ ⁴		217	Ø21.7			150	Ø15		
		272	Ø27.2						
⑧ Connection spec.	Screw spec.		Write the code referring F-88 to F-89 page of Reference.						
			Write the ordering code + flange material referring F-90 to F-93 page of Reference.						
	Flange spec.	※ Flange material							
		304	304SS	316	316SS	36L	316LSS	310	310SS
		446	446SS	50C	50Co-30Cr	INC	Inconel 600		
⑨ Set ordering		W	The last code should be adding "W" for ordering as a set with thermo well.						

※ 1. In case of double sensor elements, Ø6.4 is not available.

※ 2. In case of non-upper length tube (A0, B0, F0, L0, N0), write the code as "XXX".

※ 3. Tube type is union: only 120mm, 150mm, 300mm available

※ 4. The upper thickness Ø15 of tube (sheath) is available only for tube type "C0".

■ Special specifications

(A) : Element level	B	Class B (standard)	A	Class A
(B) : Tube surface treatment	N	None	T	Teflon coating
			L	Teflon lining

※ Special specifications is required infrequently in industrial site. Before ordering special specifications, please contact Autonics at first.

Explosion-proof Head

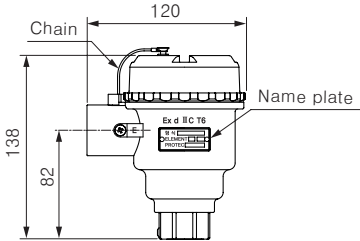
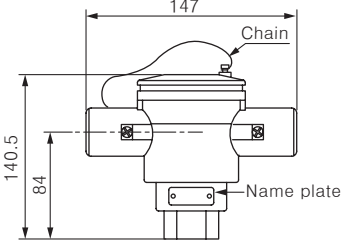
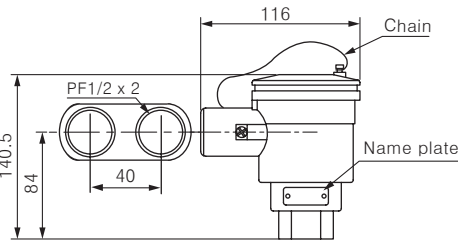
Select Basic Model Code

SH3		-	J1	A	0
①			②	③	④
Item		Descriptions			
① Temperature sensor type		SH3	Head type RTD		
② Head type (Head material wireway standard)	Middle explosion-proof head	H1	Aluminum PF1/2	I1	Stainless steel PF1/2
		H2	Aluminum PF3/4	I2	Stainless steel PF3/4
	Bidirectional explosion-proof head	J1	Aluminum PF1/2×2	J3	Aluminum PF1/2, PF3/4
		J2	Aluminum PF3/4×2		
	Middle 2-port explosion-proof head	K1	Aluminum PF1/2×2		
③ Tube type		A	Standard	K	Nipple Union
		B	Slide Screwed	L	Compression Fitting
		C	Upper Slide Screwed	M	Flanged
		F	Nipple Screwed	N	Slide Flanged
		G	Screwed	P	Metal Support Flanged
		H	Metal Support Screwed		
④ Tube material※1		0	Metal		

※ Do NOT combine the tube type and tube material arbitrarily. Refer to the "Select Tube" description.
※ 1. For detailed tube material, refer to the "Detailed specification" at "Ordering Code" description.

Select Head

Select head material and wireway standard.

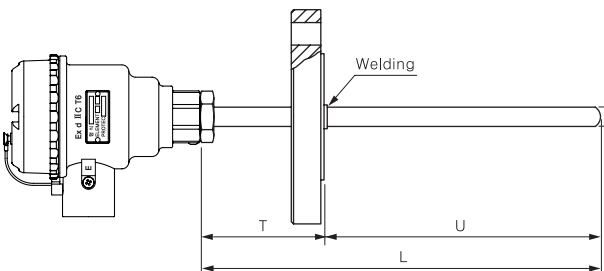
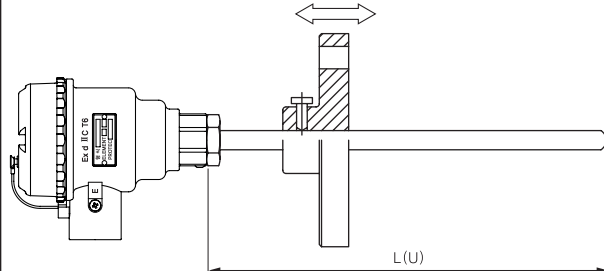
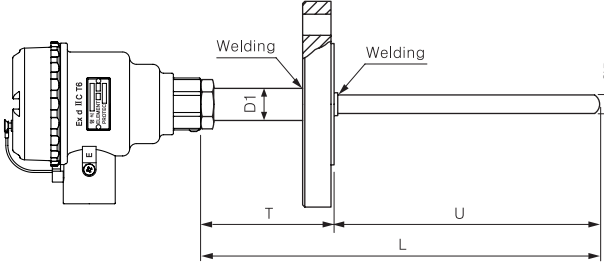
Middle explosion-proof head	Bidirectional explosion-proof head	Middle 2-port explosion-proof head
 <p>Material : Aluminum, Stainless steel</p> <ul style="list-style-type: none">■ SH3-H1 □□■ SH3-H2 □□■ SH3-I1 □□■ SH3-I2 □□	 <p>Material : Aluminum</p> <ul style="list-style-type: none">■ SH3-J1 □□■ SH3-J2 □□■ SH3-J3 □□	 <p>Material : Aluminum</p> <ul style="list-style-type: none">■ SH3-K1 □□

Select Tube

Select tube type and material.

<div>Standard : SH3-□□ A0</div> <div></div>	<div>Slide Screwed : SH3- □□ B0</div> <div></div>
<div>Upper Slide Screwed : SH3-□□ C0</div> <div></div>	<div>Nipple Screwed : SH3-□□ F0</div> <div></div>
<div>Screwed : SH3-□□ G0</div> <div></div>	<div>Metal Support Screwed : SH3-□□ H0</div> <div></div>
<div>Nipple Union : SH3-□□ K0</div> <div></div>	<div>Compression Fitting : SH3-□□ L0</div> <div></div>

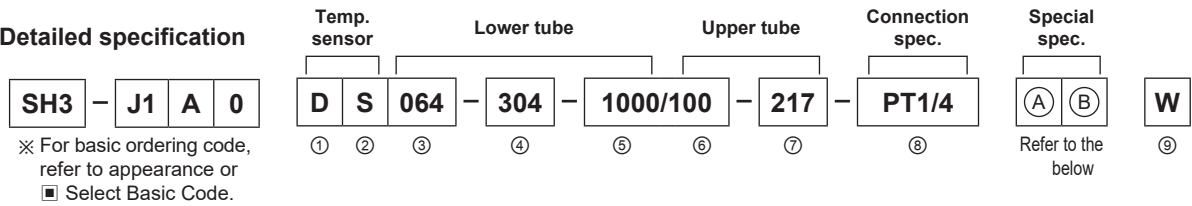
SH3 Series

<p>Flanged : SH3-□□ M0</p> 	<p>Slide Flanged : SH3-□□ N0</p> 
<p>Metal Support Flanged : SH3-□□ P0</p> 	

■ Ordering Code

Order code is basic model code + detailed specification + special specification.

■ Detailed specification



Item		Descriptions							
① Temperature sensor		D	DPT100			P	JPt100		
② Sensor elements		S	Single			D	Double		
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		120	Ø12			270	Ø27		
		138	Ø13.8						
④ Tube material		304	304SS			316	316SS		
		36L	316LSS						
⑤ Tube lower length (U) (mm)			Write directly (below 9999mm)						
⑥ Tube upper length (T) (mm) ※ ² , ※ ³	Metal	080	80mm			150	150mm		
		100	100mm			300	300mm		
		120	120mm						
⑦ Tube upper thickness (ØD1) ※ ⁴		217	Ø21.7			150	Ø15		
		272	Ø27.2						
⑧ Connection spec.	Screw spec.		Write the code referring F-88 to F-89 page of Reference.						
			Write the ordering code + flange material referring F-90 to F-93 page of Reference.						
	Flange spec.	※ Flange material							
		304	304SS	316	316SS	36L	316LSS	310	310SS
		446	446SS	50C	50Co-30Cr	INC	Inconel 600		
⑨ Set ordering		W	The last code should be adding "W" for ordering as a set with thermo well.						

※ 1. In case of double sensor elements, Ø6.4 is not available.

※ 2. In case of non-upper length tube (A0, B0, F0, L0, N0), write the code as "XXX".

※ 3. Tube type is union: only 120mm, 150mm, 300mm available

※ 4. The upper thickness Ø15 of tube (sheath) is available only for tube type "C0".

■ Special specifications

Ⓐ : Element level	B	Class B (standard)	A	Class A		
Ⓑ : Tube surface treatment	N	None	T	Teflon coating	L	Teflon lining

※ Special specifications is required infrequently in industrial site. Before ordering special specifications, please contact Autonics at first.