

Head Type Sheath RTDs
Standard Head

■ Select Basic Model Code

SH4	-	D1	A	0
①		②	③	④

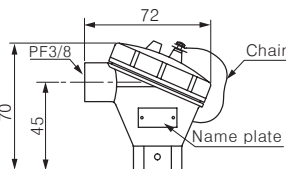
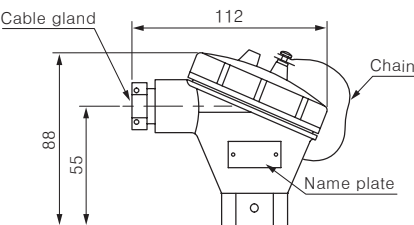
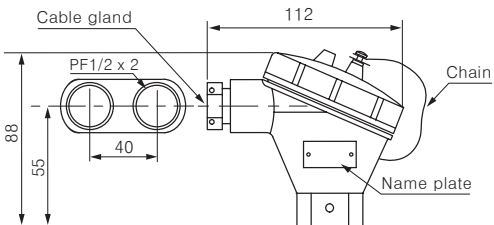
Item		Descriptions			
① Temperature sensor type		SH4	Head type Sheath RTD		
② Head type (Head material wireway standard)	Small standard head	C8	Aluminum PF3/8		
	Middle standard head	D1	Aluminum PF1/2	E2	Cast iron PF3/4
		D2	Aluminum PF3/4	F1	Stainless steel PF1/2
		E1	Cast iron PF1/2	F2	Stainless steel PF3/4
	Middle 2-port standard head	G1	Aluminum PF1/2×2		
③ Sheath type		A	Standard	H	Metal Support Screwed
		B	Slide Screwed	K	Nipple Union
		C	Upper Slide Screwed	L	Compression Fitting
		E	Metal Support	M	Flanged
		F	Nipple Screwed	N	Slide Flanged
		G	Screwed	P	Metal Support Flanged
④ Sheath material※1		0	Metal	S	Metal (spring load)

※ Do NOT combine the sheath type and sheath material arbitrarily. Refer to the "Select Sheath" description.

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

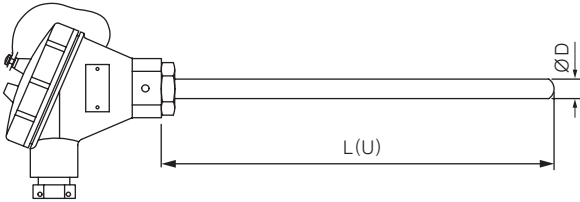
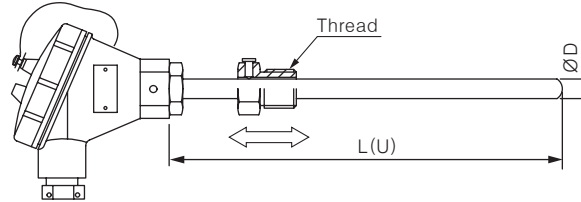
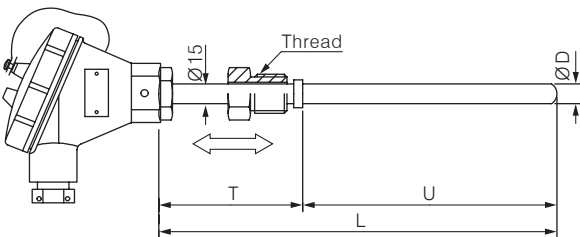
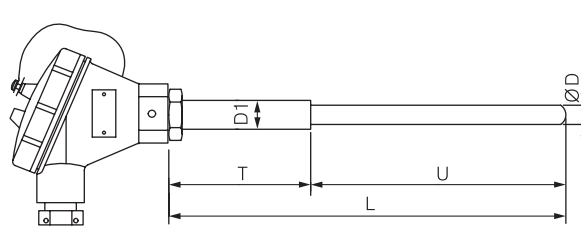
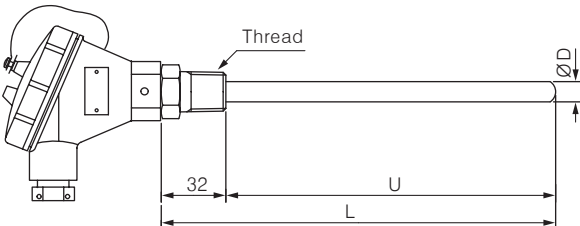
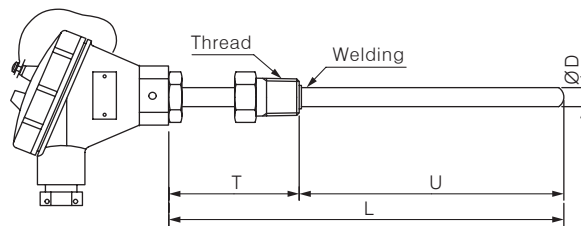
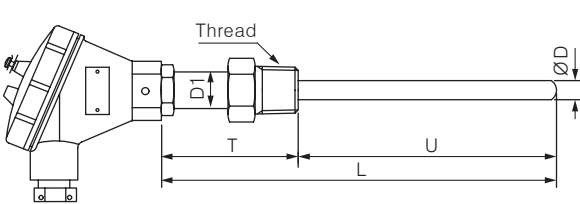
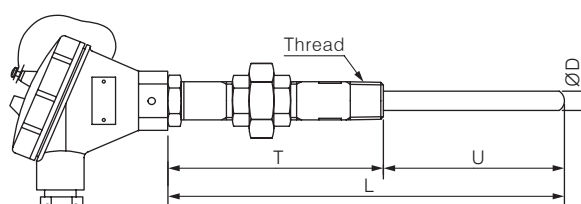
■ Select Head

Select head material and wireway standard.

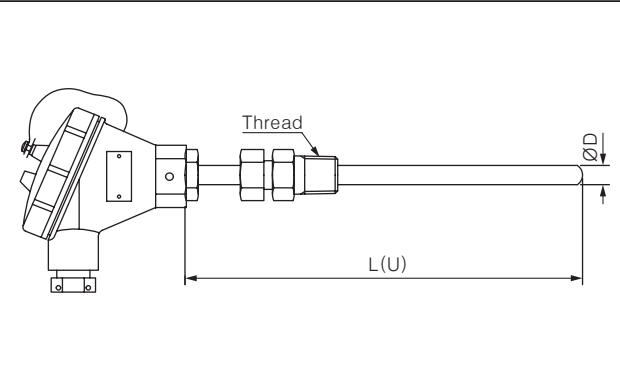
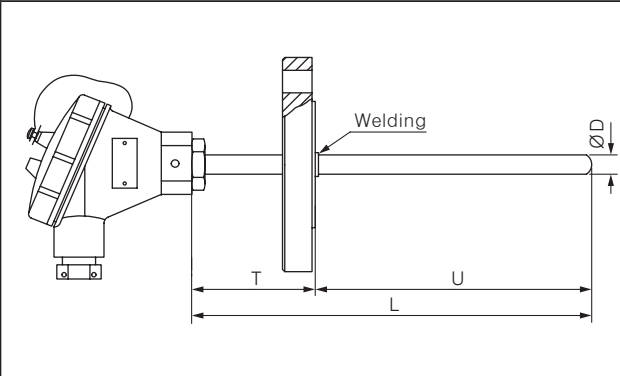
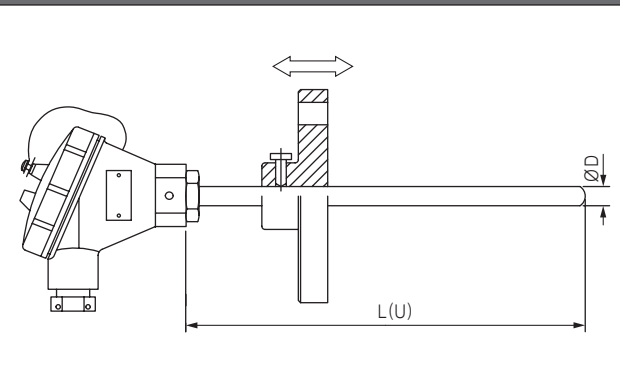
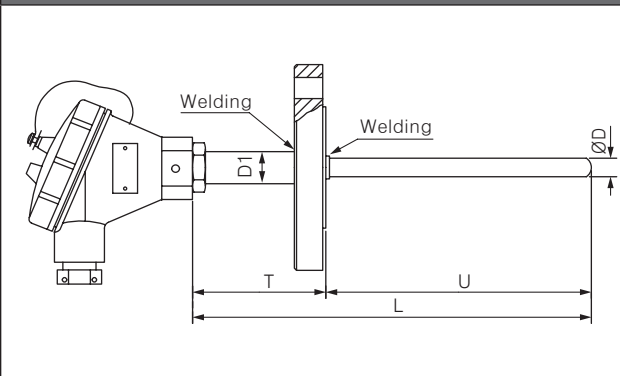
Small standard head	Middle standard head	Middle 2-port standard head
		
Material : Aluminum	Material : Aluminum, Cast iron, Stainless steel	Material : Aluminum
■ SH4-C8 □□	■ SH4-D1 □□ ■ SH4-D2 □□ ■ SH4-E1 □□ ■ SH4-E2 □□ ■ SH4-F1 □□ ■ SH4-F2 □□	■ SH4-G1 □□

■ Select Sheath

Select sheath type and material.

Standard : SH4-□□ A0	Slide Screwed : SH4-□□ B0
	
Upper Slide Screwed : SH4-□□ C0	Metal Support : SH4-□□ E0
	
Nipple Screwed : SH4-□□ F0	Screwed : SH4-□□ G0
	
Metal Support Screwed : SH4-□□ H0 -□□ HS (spring load)	Nipple Union : SH4-□□ K0 -□□ KS (spring load)
	

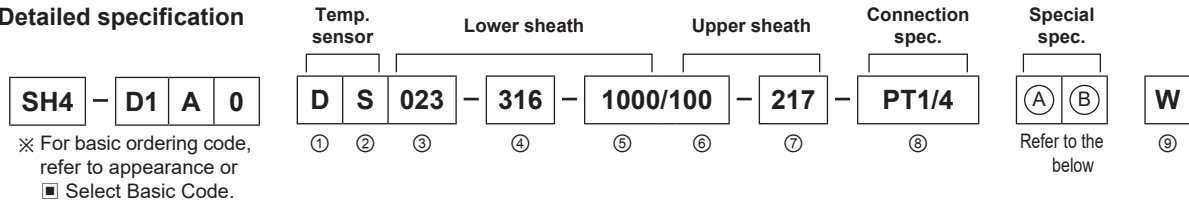
SH4 Series

<p>Compression Fitting : SH4-□□ L0</p>  <p>The diagram shows a side view of the SH4-□□ L0 compression fitting. It consists of a main body with a flange on the left and a threaded section on the right. The threaded section is labeled "Thread". The length of the main body is indicated as L(U). The diameter of the main body is indicated as ØD.</p>	<p>Flanged : SH4-□□ M0</p>  <p>The diagram shows a side view of the SH4-□□ M0 flanged fitting. It consists of a main body with a flange on the left and a welded section on the right. The welded section is labeled "Welding". The length of the main body is indicated as L(U). The diameter of the main body is indicated as ØD. The thickness of the flange is indicated as T.</p>
<p>Slide Flanged : SH4-□□ N0</p>  <p>The diagram shows a side view of the SH4-□□ N0 slide flanged fitting. It consists of a main body with a flange on the left and a slide flange on the right. The slide flange is indicated by a double-headed arrow. The length of the main body is indicated as L(U). The diameter of the main body is indicated as ØD.</p>	<p>Metal Support Flanged : SH4-□□ P0</p>  <p>The diagram shows a side view of the SH4-□□ P0 metal support flanged fitting. It consists of a main body with a flange on the left and a welded section on the right. The welded section is labeled "Welding". The length of the main body is indicated as L(U). The diameter of the main body is indicated as ØD. The thickness of the flange is indicated as T. The diameter of the flange is indicated as D1.</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 Sheath thickness (ØD) ※1		023	Ø2.3	080	Ø8.0				
		032	Ø3.2	095	Ø9.5				
		048	Ø4.8	127	Ø12.7				
		064	Ø6.4						
④ Sheath material		316	316SS						
⑤ Lower sheath length (U) (mm)			Write directly (below 9999mm)						
⑥ Upper sheath length (T) (mm) ※2, ※3	Metal	080	80mm	150	150mm				
		100	100mm	300	300mm				
		120	120mm						
⑦ Upper sheath 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, Ø2.3 is not available.

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

※ 3. Sheath 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	Standard, Class B	A	Class A		
Ⓑ : Sheath 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

SH4	—	J1	A	0
①		②	③	④

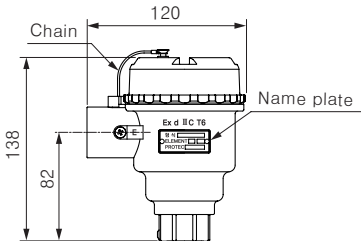
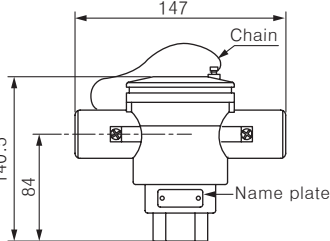
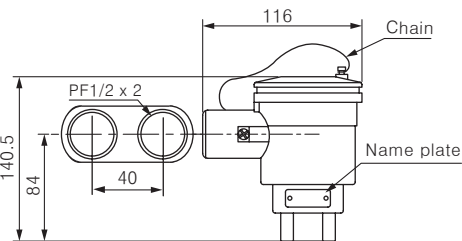
Item		Descriptions			
① Temperature sensor type		SH4	Head type Sheath RTD		
② Head type (Head material wireway standard)	Middle explosion-proof head	H1	Aluminum PF1/2	I1	Stainless steel PF1/2
		H2	Aluminum PF3/4	I2	Stainless steel PF3/4
	Bidirectional explosion-proof head	J1	Aluminum PF1/2×2	J3	Aluminum PF1/2, PF3/4
		J2	Aluminum PF3/4×2		
	Middle 2-port explosion-proof head	K1	Aluminum PF1/2×2		
③ Sheath type		A	Standard	H	Metal Support Screwed
		B	Slide Screwed	K	Nipple Union
		C	Upper Slide Screwed	L	Compression Fitting
		E	Metal Support	M	Flanged
		F	Nipple Screwed	N	Slide Flanged
		G	Screwed	P	Metal Support Flanged
④ Sheath material※1		0	Metal	S	Metal (spring load)

※ Do NOT combine the sheath type and sheath material arbitrarily. Refer to the "Select Sheath" description.

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

Select Head

Select head material and wireway standard.

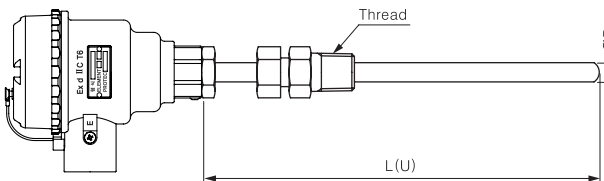
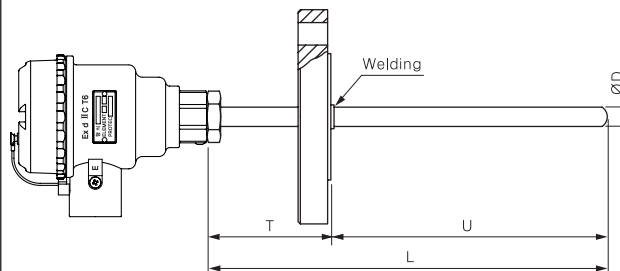
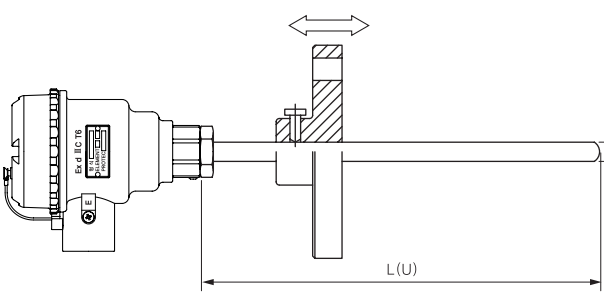
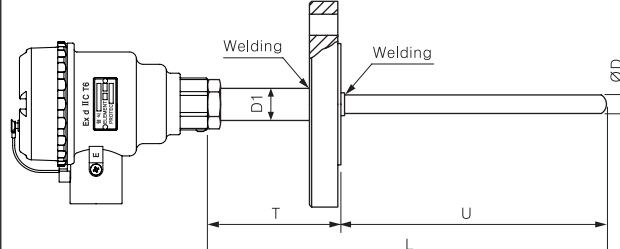
Middle explosion-proof head	Bidirectional explosion-proof head	Middle 2-port explosion-proof head
 <p>Material : Aluminum, Stainless steel</p> <ul style="list-style-type: none">■ SH4-H1 □□■ SH4-H2 □□■ SH4-I1 □□■ SH4-I2 □□	 <p>Material : Aluminum</p> <ul style="list-style-type: none">■ SH4-J1 □□■ SH4-J2 □□■ SH4-J3 □□	 <p>Material : Aluminum</p> <ul style="list-style-type: none">■ SH4-K1 □□

Select Sheath

Select sheath type and material.

<div>Standard : SH4-□□ A0</div> <div></div>	<div>Slide Screwed : SH4-□□ B0</div> <div></div>
<div>Upper Slide Screwed : SH4-□□ C0</div> <div></div>	<div>Metal Support : SH4-□□ E0</div> <div></div>
<div>Nipple Screwed : SH4-□□ F0</div> <div></div>	<div>Screwed : SH4-□□ G0</div> <div></div>
<div>Metal Support Screwed : SH4-□□ H0</div> <div></div>	<div>Nipple Union : SH4-□□ K0</div> <div></div>

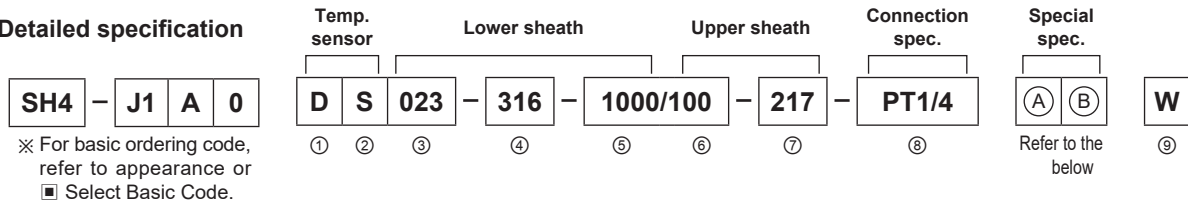
SH4 Series

<p>Compression Fitting : SH4-□□ L0</p>  <p>The diagram shows a side view of the SH4-□□ L0 compression fitting. It consists of a main body with a threaded section at the end. The length of the main body is labeled L(U). The diameter of the main body is labeled ØD. A label on the side of the main body reads "SH4 IC 78".</p>	<p>Flanged : SH4-□□ M0</p>  <p>The diagram shows a side view of the SH4-□□ M0 flanged fitting. It consists of a main body with a flange at the end. The length of the main body is labeled L. The length of the flange is labeled T. The diameter of the main body is labeled ØD. A label on the side of the main body reads "SH4 IC 78". The flange is attached to the main body via welding.</p>
<p>Slide Flanged : SH4-□□ N0</p>  <p>The diagram shows a side view of the SH4-□□ N0 slide flanged fitting. It consists of a main body with a flange at the end. The length of the main body is labeled L(U). The diameter of the main body is labeled ØD. A label on the side of the main body reads "SH4 IC 78". The flange is attached to the main body via a sliding mechanism, indicated by a double-headed arrow.</p>	<p>Metal Support Flanged : SH4-□□ P0</p>  <p>The diagram shows a side view of the SH4-□□ P0 metal support flanged fitting. It consists of a main body with a flange at the end. The length of the main body is labeled L. The length of the flange is labeled T. The diameter of the main body is labeled ØD. A label on the side of the main body reads "SH4 IC 78". The flange is attached to the main body via welding. The diameter of the flange is labeled D1.</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 Sheath thickness (ØD) ※1		023	Ø2.3			080	Ø8.0		
		032	Ø3.2			095	Ø9.5		
		048	Ø4.8			127	Ø12.7		
		064	Ø6.4						
④ Sheath material		316	316SS						
⑤ Lower sheath length (U) (mm)			Write directly (below 9999mm)						
⑥ Upper sheath length (T) (mm) ※2, ※3	Metal	080	80mm			150	150mm		
		100	100mm			300	300mm		
		120	120mm						
⑦ Upper sheath 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.						
	Flange spec.		Write the ordering code + flange material referring F-90 to F-93 page of Reference.						
		※ 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, Ø2.3 is not available.

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

※ 3. Sheath 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	Standard, Class B	A	Class A		
Ⓑ : Sheath 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.