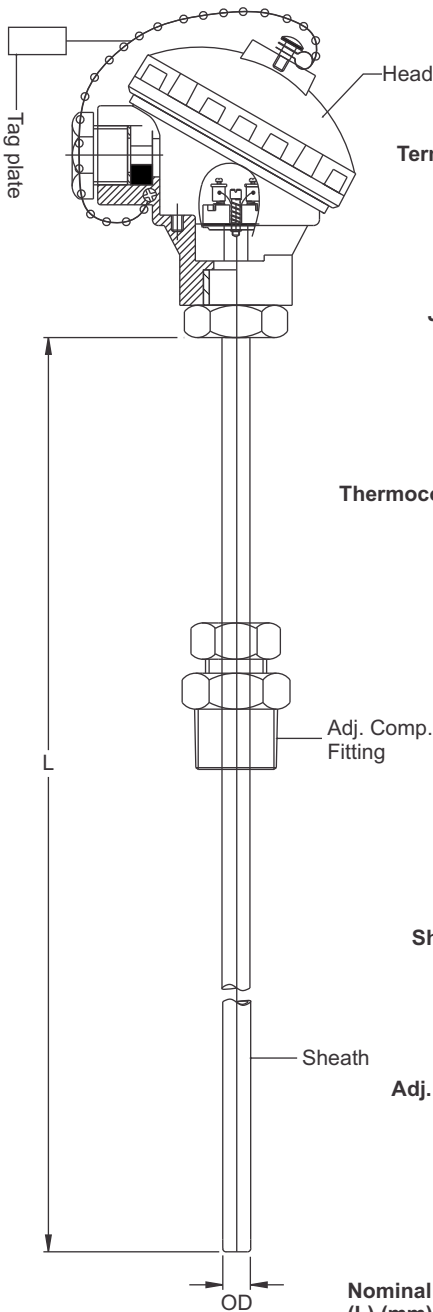


# THERMOCOUPLE WITH HEAD

**T - 101**



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1 & 2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex.;	If <b>Simplex</b> - K, <b>Duplex</b> - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5
3	Ø3
4.5	Ø4.5
6	Ø6
8	Ø8
Other	Consult Factory

Sheath Material

316	SS316
310	SS310
600	Inconel-600
Other	Consult Factory

Adj. Comp. Fitting

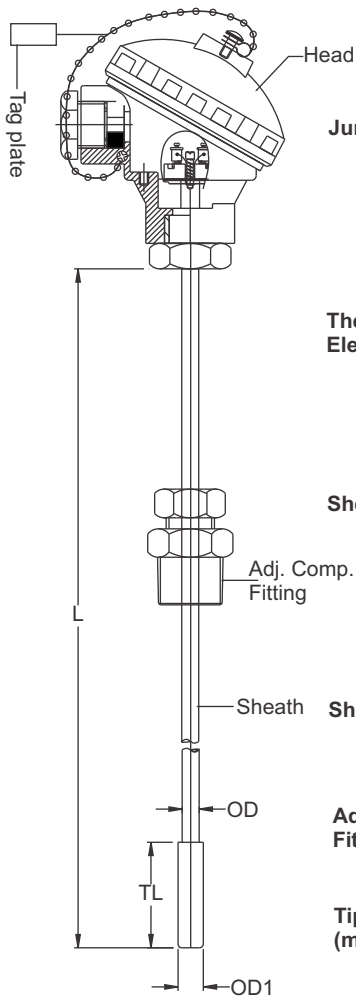
Threads	1/4"
	1/2"
B.S.P. / N.P.T.	3/8"
	3/4"
	1"
	1 1/4"
	1 1/2"
	2"

Nominal Length of T/C (L) (mm)

M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory
N/A	Not Applicable

# THERMOCOUPLE WITH HEAD & TIP ASSEMBLY

T-103



Termination Style

C	Connection Head IP- 67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Adj. Comp. Fitting

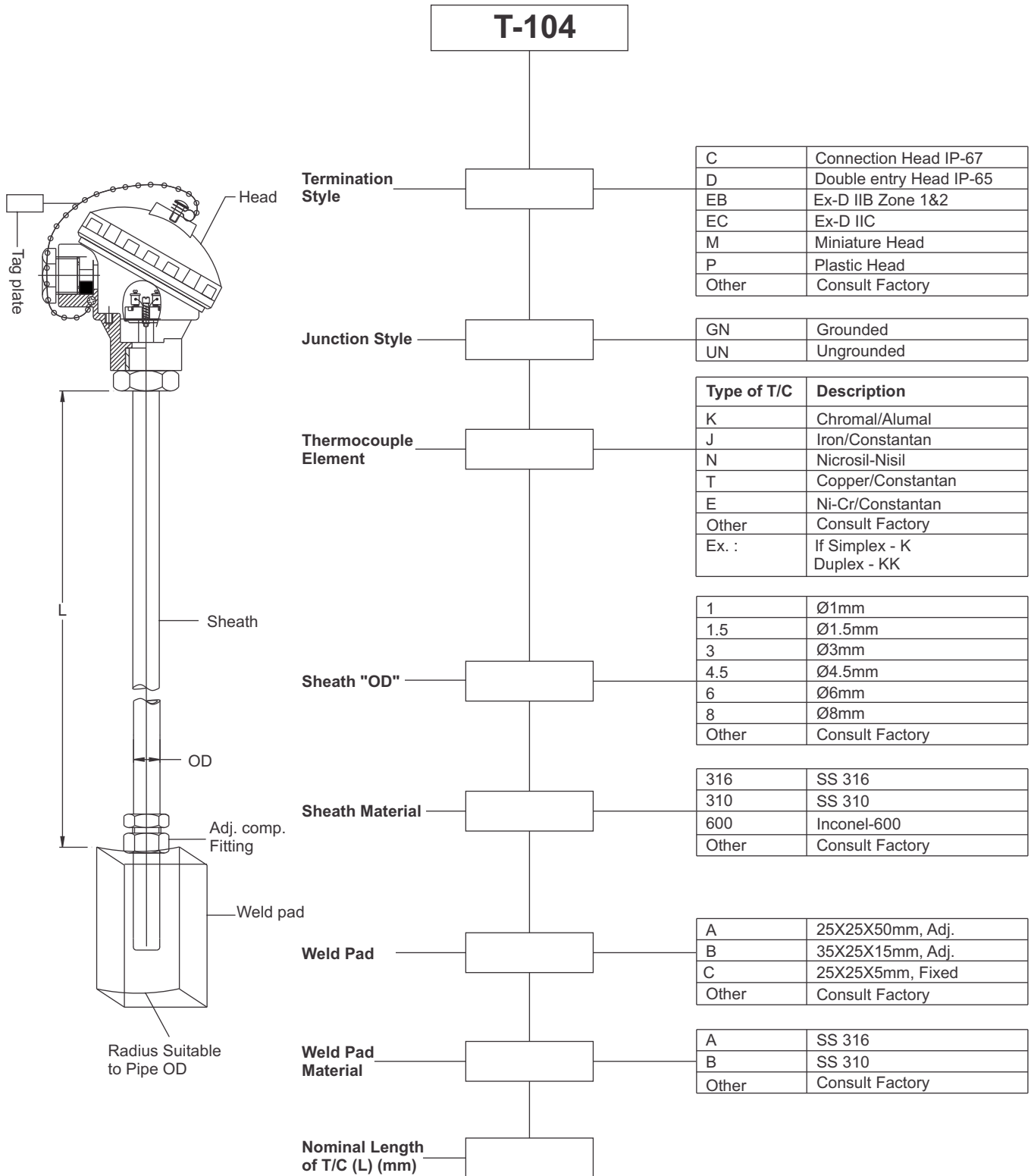
Threads	1/4"
	1/2"
	3/8"
	3/4"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
	M-Thread
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory
N/A	Not Applicable

Tip Length "T.L." (mm)

Tip Dia "OD1"

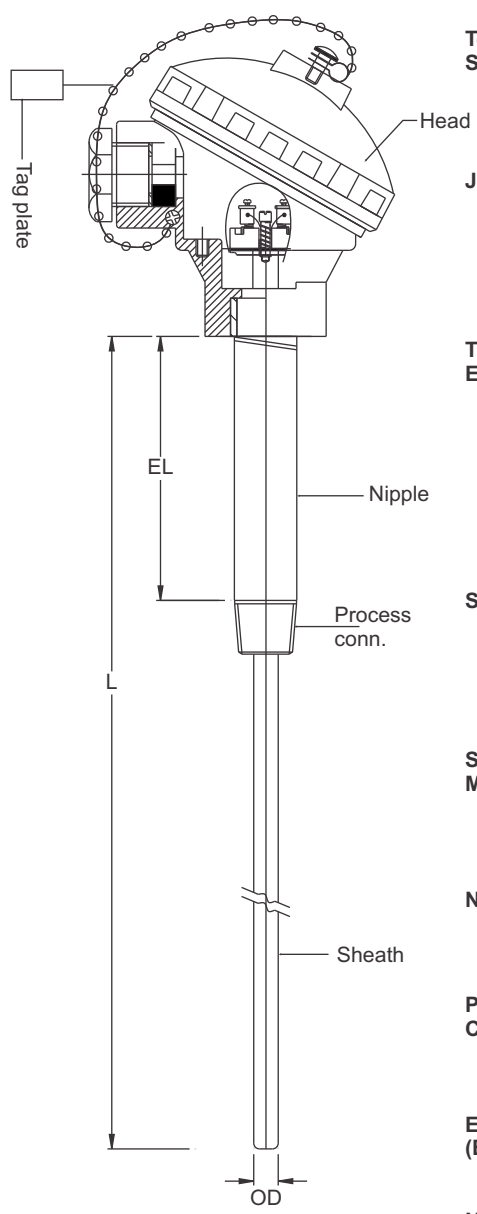
Nominal Length of T/C (L) (mm)

# THERMOCOUPLE WITH HEAD & WELD PAD



# THERMOCOUPLE WITH NIPPLE

T-105



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Nipple

1/2" SCH 80	OD X ID: 21.3 X 13.8mm
Other	Consult Factory

Process Connection

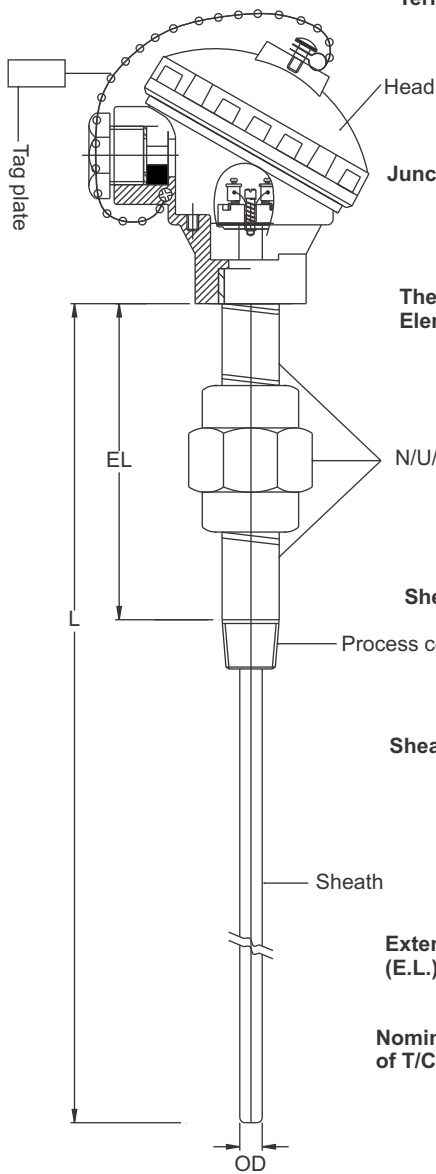
Threads	1/2" BSP
	1/2" NPT
Other	Consult Factory

Extension Length (E.L.) (mm)

Nominal Length of T/C (L) (mm)

# THERMOCOUPLE WITH NIPPLE UNION NIPPLE

T-106



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Process Connection

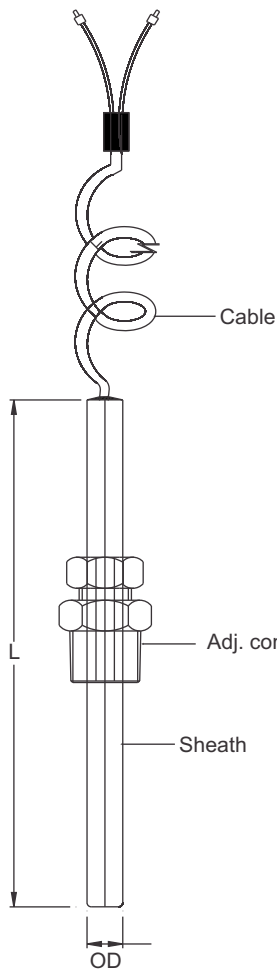
Threads	1/2" BSP 1/2" NPT
Other	Consult Factory

Extension Length (E.L.) (mm)

Nominal Length of T/C (L) (mm)

# THERMOCOUPLE WITH CABLE (MINERAL INSULATED)

T-200



Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath Diameter "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Nominal Length of T/C (L) (mm)

Junction Style

GN	Grounded
UN	Ungrounded

Adj. Comp. Fitting

Threads	1/4"
	1/2"
	3/8"
	3/4"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
	M-Thread
Other	Consult Factory
N/A	Not Applicable

Type of Cable

A	Teflon/Teflon Insulated Flexible Cable
B	Teflon Insulated & SS Braided Flexible Cable
C	FG/FG Insulated Flexible Cable
D	PVC/PVC Insulated Flexible Cable
E	FG/FG/Insulated/SS Braided
Other	Consult Factory

Cable Length (mm)

# THERMOCOUPLE WITH CABLE AND FITTING

**T-201**

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Nominal Length of T/C (L) (mm)

Junction Style

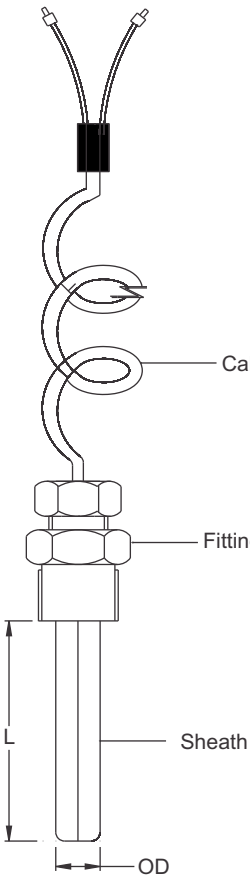
Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
	M-Thread
Other	Consult Factory

Fitting

Type of Cable

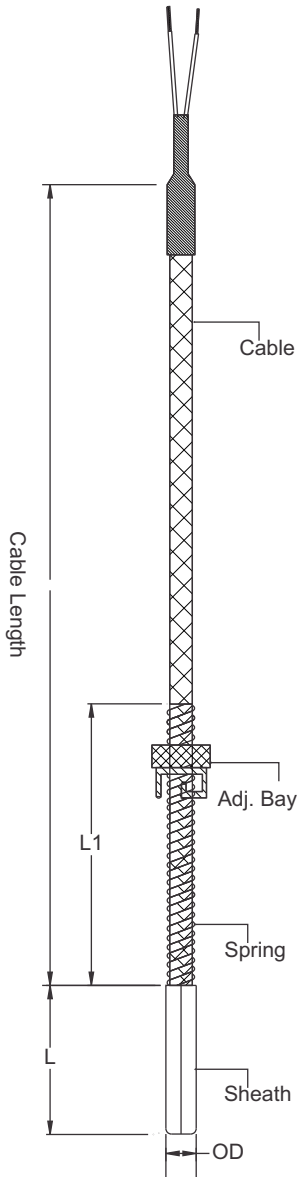
A	Teflon/Teflon Insulated Flexible Cable
B	Teflon Insulated & SS Braided Flexible Cable
C	FG/FG Insulated Flexible Cable
D	PVC/PVC Insulated Flexible Cable
E	FG/FG/Insulated/SS Braided
Other	Consult Factory

Cable Length (mm)



# THERMOCOUPLE WITH BAYONET & CABLE

T-203



Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Spring Length "L1" (mm)

Nominal Length of T/C (L) (mm)

Type of Cable

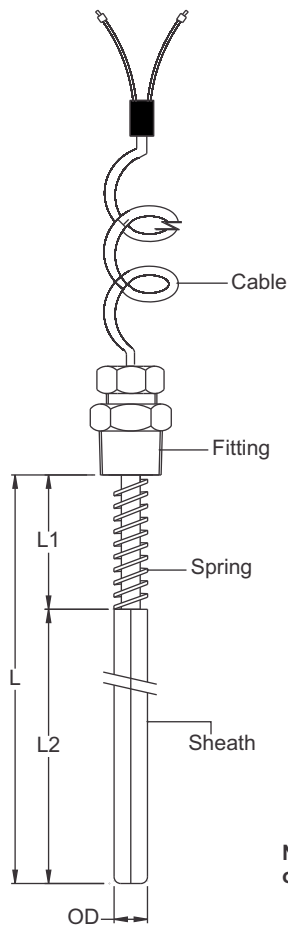
A	Teflon/Teflon Insulated Flexible Cable
B	Teflon Insulated & SS Braided Flexible Cable
C	FG/FG Insulated Flexible Cable
D	PVC/PVC Insulated Flexible Cable
E	FG/FG/Insulated/SS Braided
Other	Consult Factory

Cable Length (mm)



# THERMOCOUPLE WITH CABLE & FITTING (SPRING LOADED)

**T-204**



Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Fitting

Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
	M-Thread
Other	Consult Factory

Spring Length "L1" (mm)

Inset Length "L2" (mm)

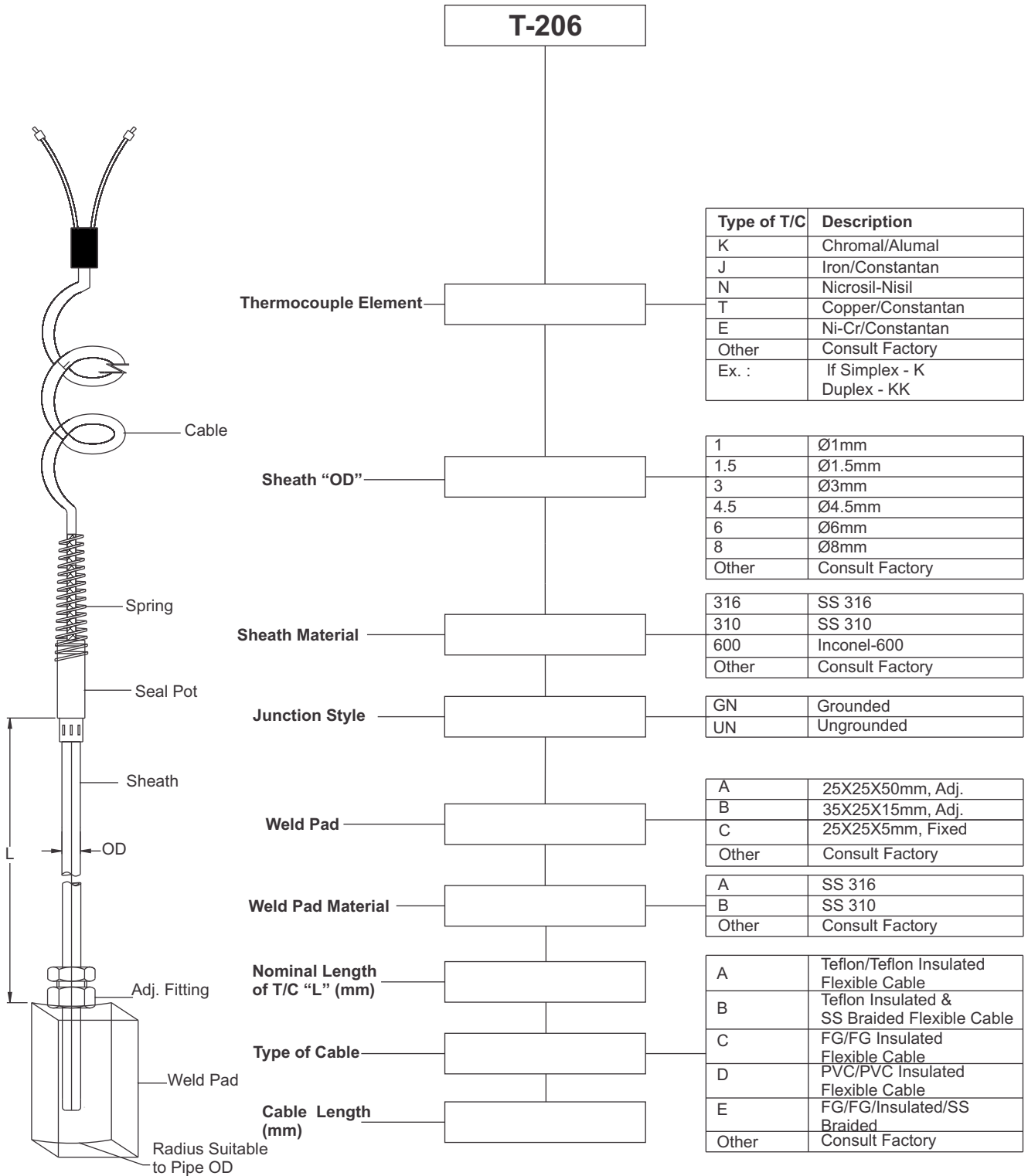
Nominal Length of T/C "L" (mm)

Type of Cable

A	Teflon/Teflon Insulated Flexible Cable
B	Teflon Insulated & SS Braided Flexible Cable
C	FG/FG Insulated Flexible Cable
D	PVC/PVC Insulated Flexible Cable
E	FG/FG/Insulated/SS Braided
Other	Consult Factory

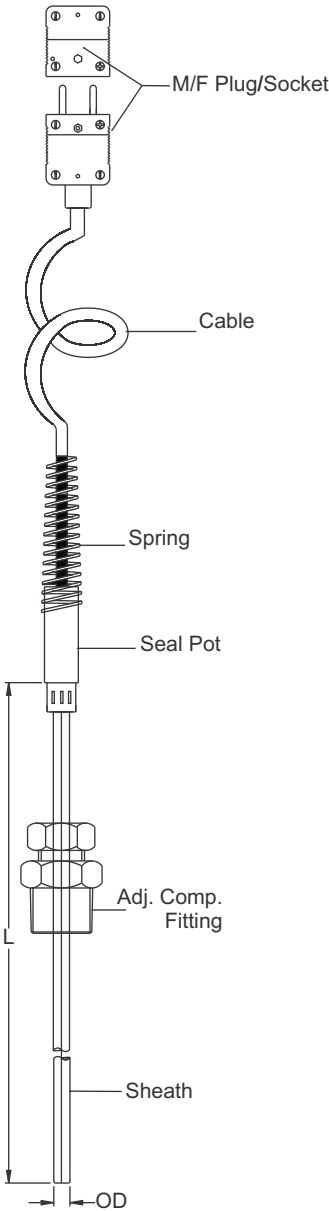
Cable Length

# THERMOCOUPLE WITH WELD PAD & CABLE



# THERMOCOUPLE WITH CABLE & CONNECTOR

T-271



Termination Style

A	Standard Plug / Socket
B	Miniature Plug / Socket
Other	Consult Factory

Junction Style

A	Grounded
B	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Fitting

Threads	1/4"
	1/2"
	3/8"
	3/4"
	1"
	2"
B.S.P. / N.P.T.	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory
N/A	Not Applicable

Nominal Length of T/C (L) (mm)

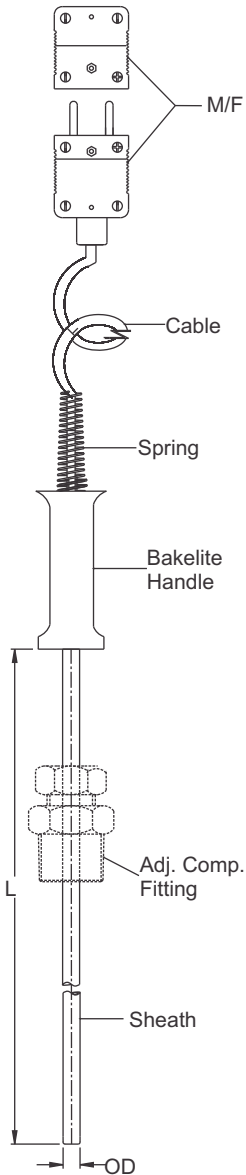
Type of Cable

A	Teflon/Teflon Insulated Flexible Cable
B	Teflon Insulated & SS Braided Flexible Cable
C	FG/FG Insulated Flexible Cable
D	PVC/PVC Insulated Flexible Cable
E	FG/FG/Insulated/SS Braided
Other	Consult Factory

Cable Length (mm)

# THERMOCOUPLE (PROBE) WITH CABLE & CONNECTOR

T-272



Termination Style

A	Standard Plug / Socket
B	Miniature Plug / Socket
Other	Consult Factory

Junction Style

A	Grounded
B	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Fitting

Threads	1/4"
	1/2"
	3/8"
	3/4"
	1"
	2"
B.S.P. / N.P.T.	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory
N/A	Not Applicable

Nominal Length of T/C (L) (mm)

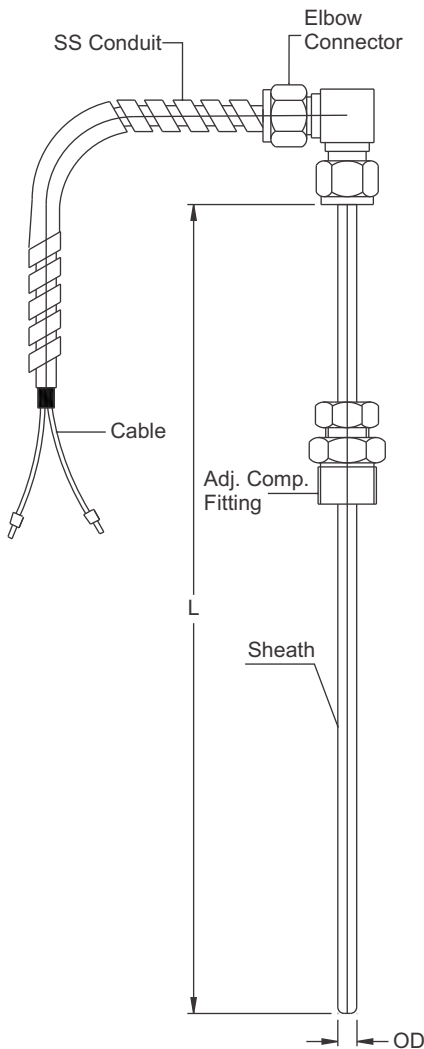
Type of Cable

A	Teflon/Teflon Insulated Flexible Cable
B	Teflon Insulated & SS Braided Flexible Cable
C	FG/FG Insulated Flexible Cable
D	PVC/PVC Insulated Flexible Cable
E	FG/FG/Insulated/SS Braided
Other	Consult Factory

Cable Length (mm)

# THERMOCOUPLE EXHAUST GAS

**T-273**



**Thermocouple Element**

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

**Sheath "OD"**

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

**Sheath Material**

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

**Junction Style**

GN	Grounded
UN	Ungrounded

**Fitting**

Threads	1/4"	
	1/2"	
	3/8"	
	3/4"	
	1"	
	1 1/4"	
B.S.P. / N.P.T.	1 1/2"	
	2"	
	M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
	Other	Consult Factory

**Nominal Length of T/C (L) (mm)**

**Cable With Conduit Length (mm)**

**Type of Cable**

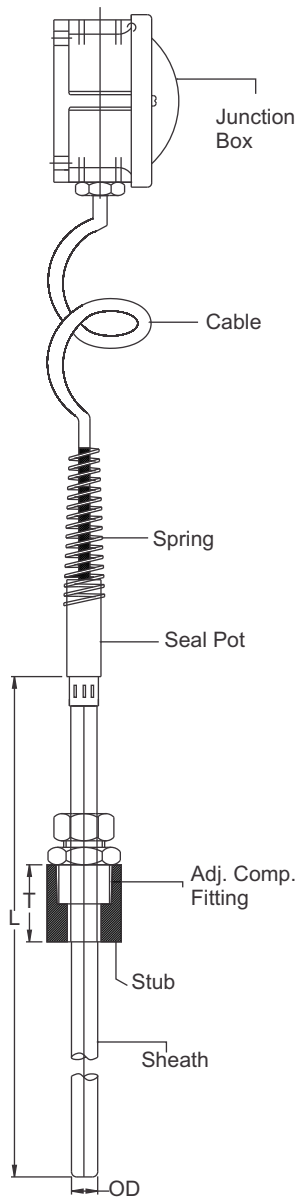
A	Teflon/Teflon Insulated Flexible Cable
B	Teflon Insulated & SS Braided Flexible Cable
C	FG/FG Insulated Flexible Cable
D	PVC/PVC Insulated Flexible Cable
E	FG/FG/Insulated/SS Braided
Other	Consult Factory

**Cable Length (mm)**

# THERMOCOUPLE WITH JUNCTION BOX & ADJUSTABLE COMPENSATION FITTING WITH STUB

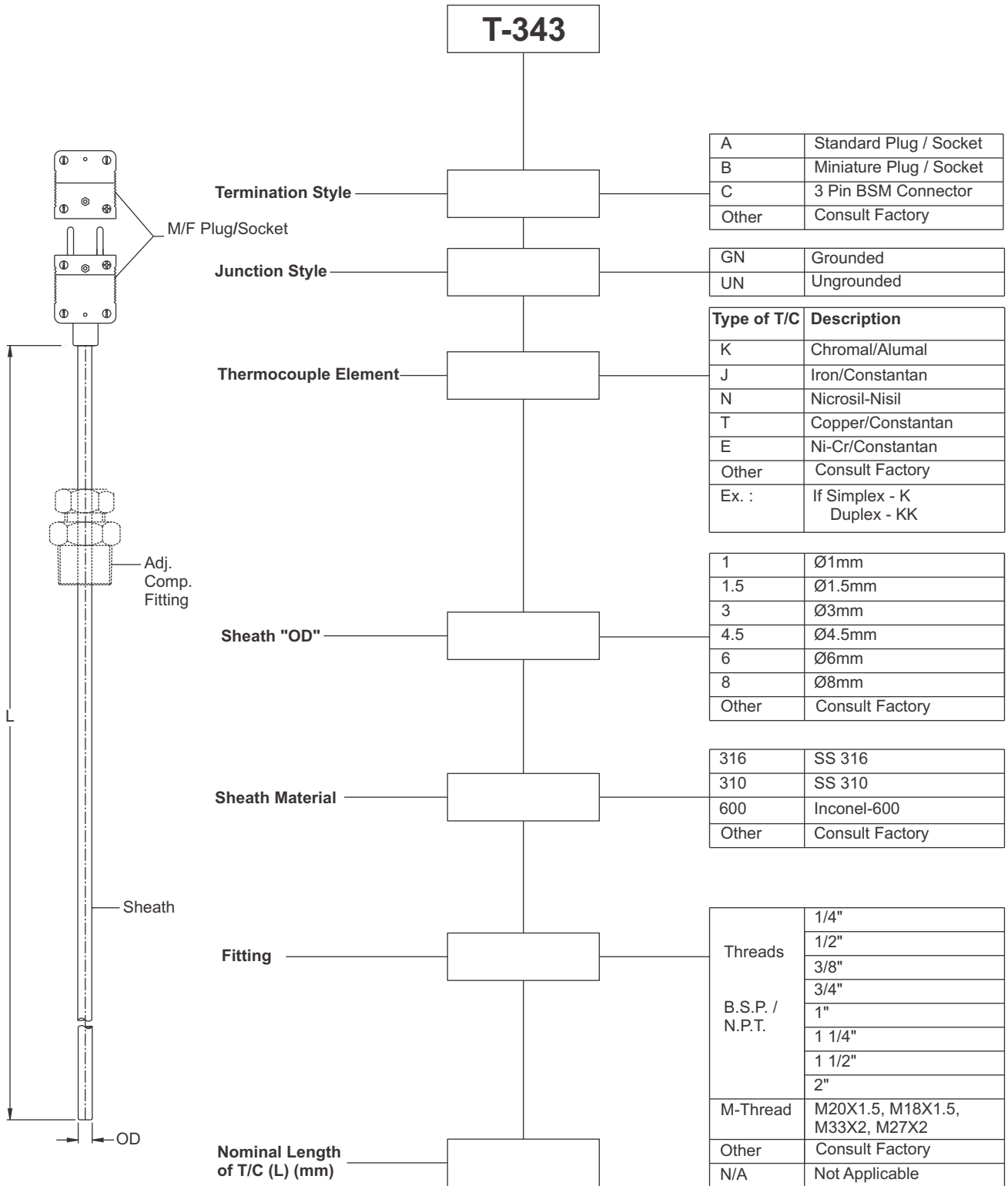
A

**T-274**



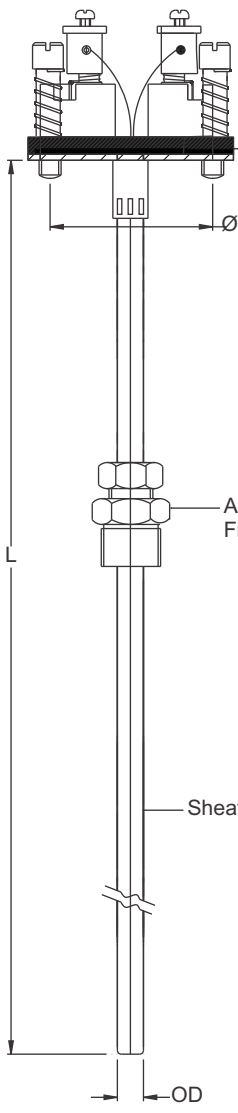
<b>Termination Style</b>	<input type="text"/>	J	Junction Box																
		Other	Consult Factory																
<b>Junction Style</b>	<input type="text"/>	GN	Grounded																
		UN	Ungrounded																
<b>Thermocouple Element</b>	<input type="text"/>	<table border="1"> <thead> <tr> <th>Type of T/C</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>Chromal/Alumal</td> </tr> <tr> <td>J</td> <td>Iron/Constantan</td> </tr> <tr> <td>N</td> <td>Nicrosil-Nisil</td> </tr> <tr> <td>T</td> <td>Copper/Constantan</td> </tr> <tr> <td>E</td> <td>Ni-Cr/Constantan</td> </tr> <tr> <td>Other</td> <td>Consult Factory</td> </tr> <tr> <td>Ex. :</td> <td>If Simplex - K Duplex - KK</td> </tr> </tbody> </table>		Type of T/C	Description	K	Chromal/Alumal	J	Iron/Constantan	N	Nicrosil-Nisil	T	Copper/Constantan	E	Ni-Cr/Constantan	Other	Consult Factory	Ex. :	If Simplex - K Duplex - KK
Type of T/C	Description																		
K	Chromal/Alumal																		
J	Iron/Constantan																		
N	Nicrosil-Nisil																		
T	Copper/Constantan																		
E	Ni-Cr/Constantan																		
Other	Consult Factory																		
Ex. :	If Simplex - K Duplex - KK																		
<b>Sheath "OD"</b>	<input type="text"/>	<table border="1"> <tbody> <tr> <td>1</td> <td>Ø1mm</td> </tr> <tr> <td>1.5</td> <td>Ø1.5mm</td> </tr> <tr> <td>3</td> <td>Ø3mm</td> </tr> <tr> <td>4.5</td> <td>Ø4.5mm</td> </tr> <tr> <td>6</td> <td>Ø6mm</td> </tr> <tr> <td>8</td> <td>Ø8mm</td> </tr> <tr> <td>Other</td> <td>Consult Factory</td> </tr> </tbody> </table>		1	Ø1mm	1.5	Ø1.5mm	3	Ø3mm	4.5	Ø4.5mm	6	Ø6mm	8	Ø8mm	Other	Consult Factory		
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6	Ø6mm																		
8	Ø8mm																		
Other	Consult Factory																		
<b>Sheath Material</b>	<input type="text"/>	<table border="1"> <tbody> <tr> <td>316</td> <td>SS 316</td> </tr> <tr> <td>310</td> <td>SS 310</td> </tr> <tr> <td>600</td> <td>Inconel-600</td> </tr> <tr> <td>Other</td> <td>Consult Factory</td> </tr> </tbody> </table>		316	SS 316	310	SS 310	600	Inconel-600	Other	Consult Factory								
316	SS 316																		
310	SS 310																		
600	Inconel-600																		
Other	Consult Factory																		
<b>Process Conn.</b>	<input type="text"/>	<table border="1"> <tbody> <tr> <td rowspan="7">Threads</td> <td>1/4"</td> </tr> <tr> <td>1/2"</td> </tr> <tr> <td>3/8"</td> </tr> <tr> <td>3/4"</td> </tr> <tr> <td>1"</td> </tr> <tr> <td>1 1/4"</td> </tr> <tr> <td>1 1/2"</td> </tr> <tr> <td rowspan="3">B.S.P. / N.P.T.</td> <td>2"</td> </tr> <tr> <td>M-Thread</td> <td>M20X1.5, M18X1.5, M33X2, M27X2</td> </tr> <tr> <td>Other</td> <td>Consult Factory</td> </tr> </tbody> </table>		Threads	1/4"	1/2"	3/8"	3/4"	1"	1 1/4"	1 1/2"	B.S.P. / N.P.T.	2"	M-Thread	M20X1.5, M18X1.5, M33X2, M27X2	Other	Consult Factory		
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B.S.P. / N.P.T.	2"																		
	M-Thread	M20X1.5, M18X1.5, M33X2, M27X2																	
	Other	Consult Factory																	
<b>Stub Length "T" (mm)</b>	<input type="text"/>																		
<b>Nominal Length of T/C (L) (mm)</b>	<input type="text"/>																		
<b>Type of Cable</b>	<input type="text"/>	<table border="1"> <tbody> <tr> <td>A</td> <td>Teflon/Teflon Insulated Flexible Cable</td> </tr> <tr> <td>B</td> <td>Teflon Insulated &amp; SS Braided Flexible Cable</td> </tr> <tr> <td>C</td> <td>FG/FG Insulated Flexible Cable</td> </tr> <tr> <td>D</td> <td>PVC/PVC Insulated Flexible Cable</td> </tr> <tr> <td>E</td> <td>FG/FG/Insulated/SS Braided</td> </tr> <tr> <td>Other</td> <td>Consult Factory</td> </tr> </tbody> </table>		A	Teflon/Teflon Insulated Flexible Cable	B	Teflon Insulated & SS Braided Flexible Cable	C	FG/FG Insulated Flexible Cable	D	PVC/PVC Insulated Flexible Cable	E	FG/FG/Insulated/SS Braided	Other	Consult Factory				
A	Teflon/Teflon Insulated Flexible Cable																		
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C	FG/FG Insulated Flexible Cable																		
D	PVC/PVC Insulated Flexible Cable																		
E	FG/FG/Insulated/SS Braided																		
Other	Consult Factory																		
<b>Cable Length (mm)</b>	<input type="text"/>																		

# THERMOCOUPLE WITH CONNECTOR



# THERMOCOUPLE INSET

**T-344**



**Termination Style** 

A	Terminal & Ceramic Block (Spring Loaded)
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**Junction Style** 

GN	Grounded
UN	Ungrounded

**Thermocouple Element** 

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

**Sheath "OD"** 

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

**Sheath Material** 

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

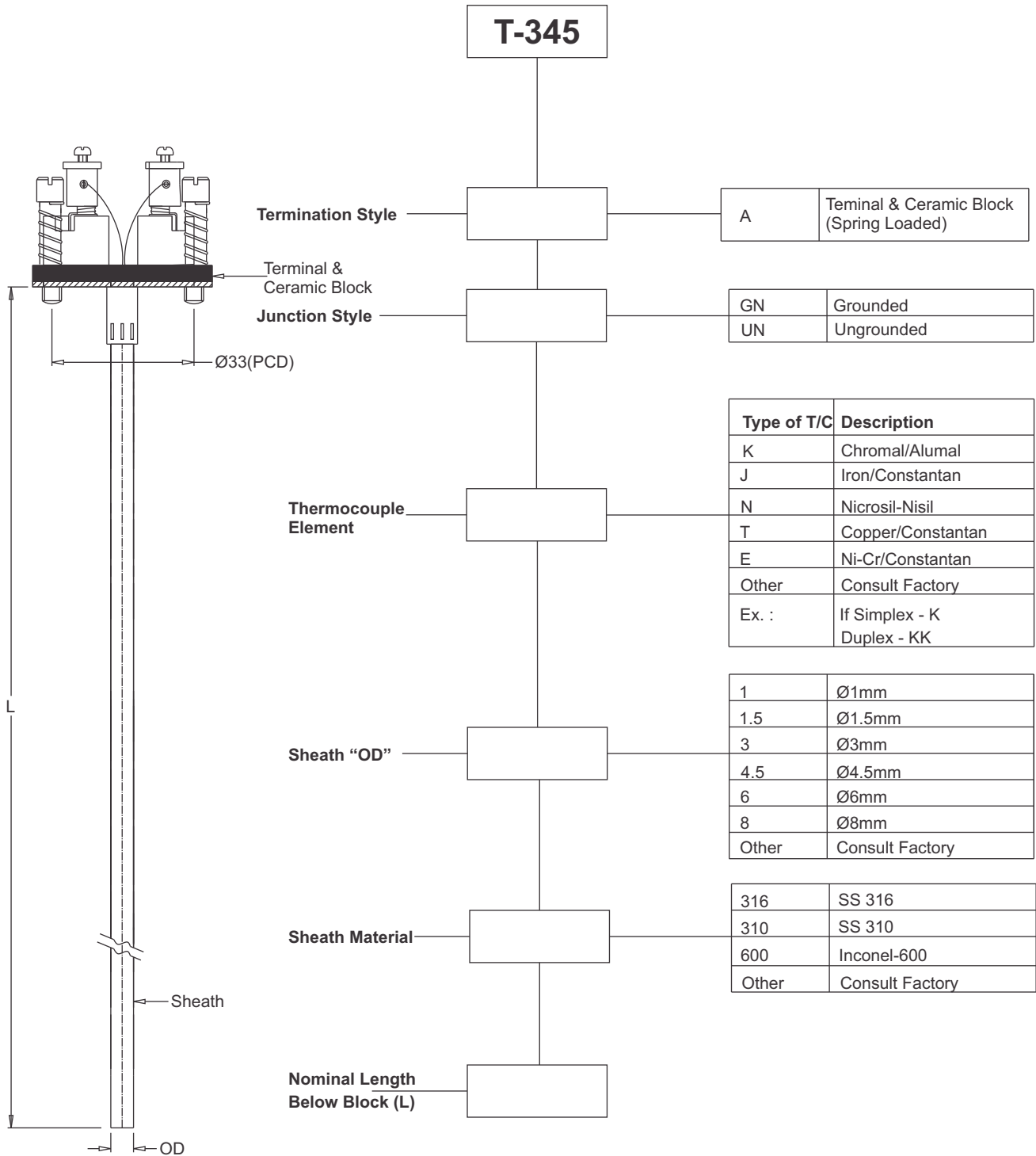
**Fitting** 

Threads	1/4"
	1/2"
	3/8"
	3/4"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
	M-Thread
Other	Consult Factory
N/A	Not Applicable

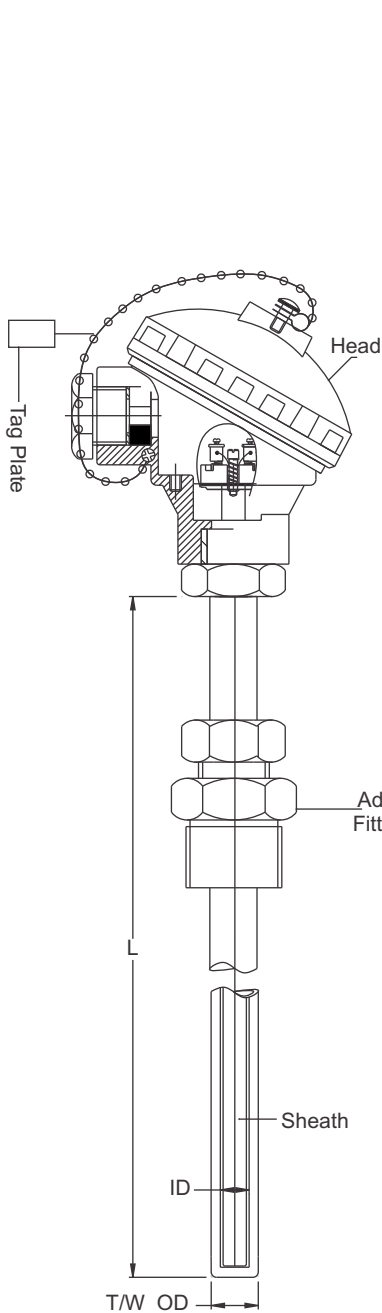
**Nominal Length of T/C Below TCB (L) (mm)**



# THERMOCOUPLE WITH INSET



# THERMOCOUPLE WITH THERMOWELL



**T-501**

Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath Diameter "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Thermowell "OD" (mm)

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS- 446
Other	Consult Factory

Thermowell "ID" (mm)

Thermowell Material

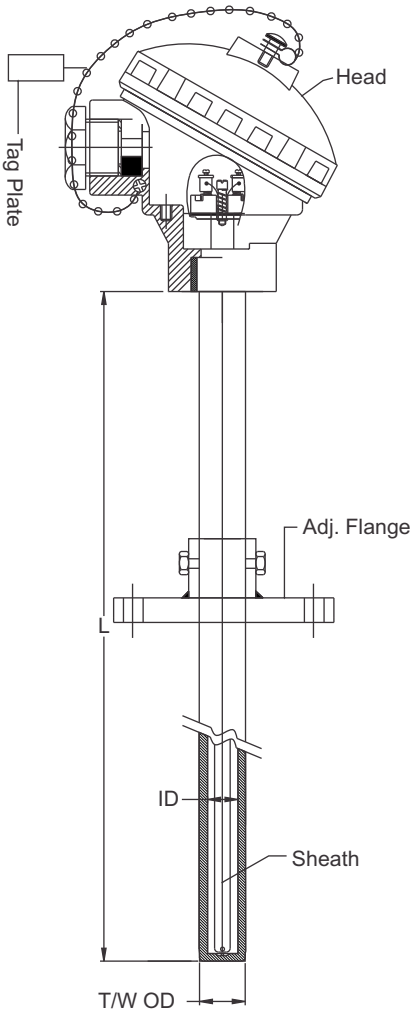
Threads	1/4"	
	1/2"	
	3/8"	
	3/4"	
	1"	
	1 1/4"	
B.S.P. / N.P.T.	1 1/2"	
	2"	
	M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
	Other	Consult Factory
N/A	Not Applicable	

Fitting

Nominal Length of T/C "L" (mm)

# THERMOCOUPLE WITH THERMOWELL & ADJUSTABLE FLANGE

**T-502**



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Thermowell "OD" (mm)

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS- 446
Other	Consult Factory

Thermowell "ID" (mm)

Thermowell Material

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS- 446
Other	Consult Factory

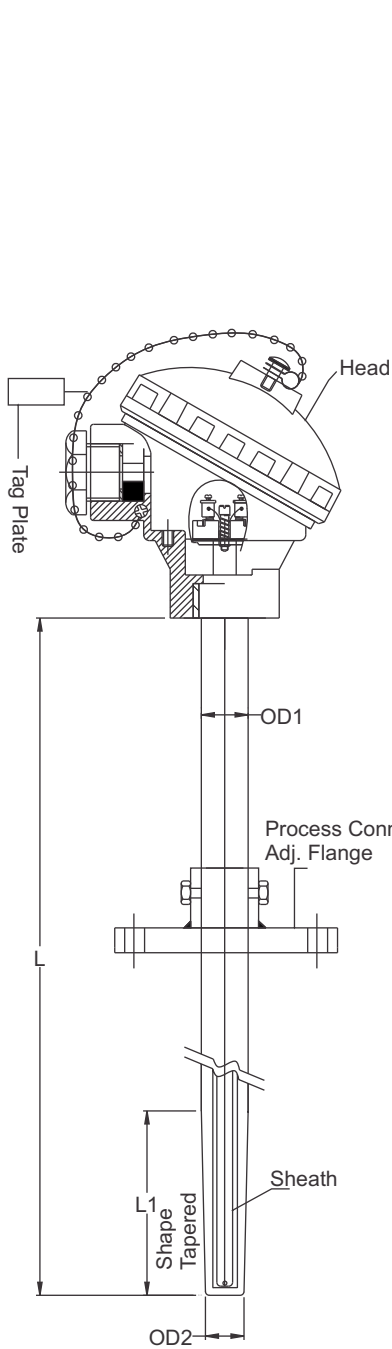
Process Conn.

Flange material

316	SS 316
310	SS 310
304	SS 304
C S	Cast Steel
Other	Consult Factory

Nominal Length of T/C "L" (mm)

# THERMOCOUPLE WITH TAPER THERMOWELL & ADJUSTABLE FLANGE



**T-503**

Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Thermowell OD1 (mm)

Thermowell OD2 (mm)

Thermowell "ID" (mm)

Outer Sheath Material

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS- 446
Other	Consult Factory

Flange Material

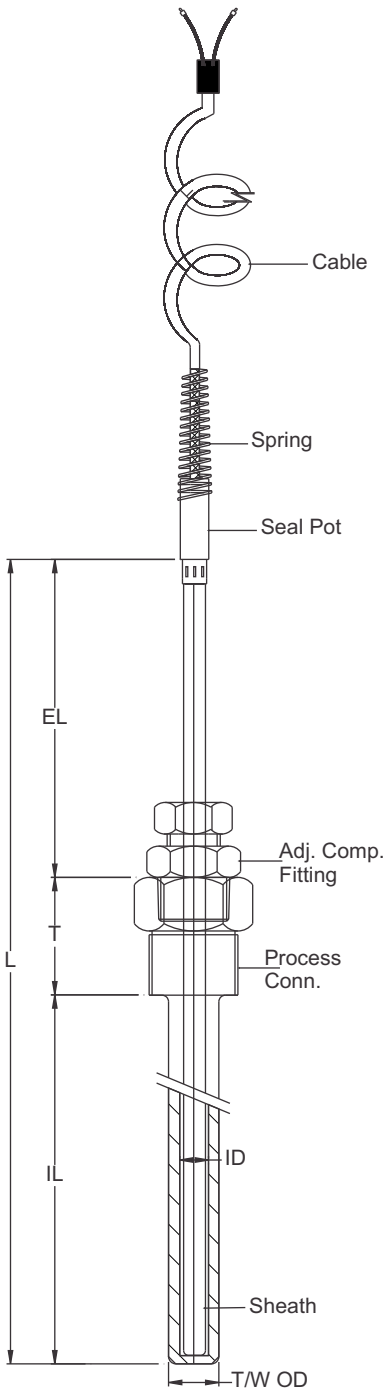
316	SS 316
310	SS 310
304	SS 304
C S	Cast Steel
Other	Consult Factory

Taper Length (L1) (mm)

Nominal Length of T/C "L" (mm)

# THERMOCOUPLE WITH STRAIGHT THERMOWELL ADJUSTABLE COMPENSATION FITTING & CABLE

**T-504**



Thermocouple Element

Sheath "OD"

Sheath Material

Junction Style

Thermowell "OD" (mm)

Thermowell ID (mm)

Thermowell Material

Process Connection

Adj. Comp. Fitting

Length of "T" (mm)

Insertion Length (I.L.) (mm)

Extention Length (E.L.) (mm)

Nominal Length of T/C (L) (mm)

Type of Cable

Cable Length (inMtr.)

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

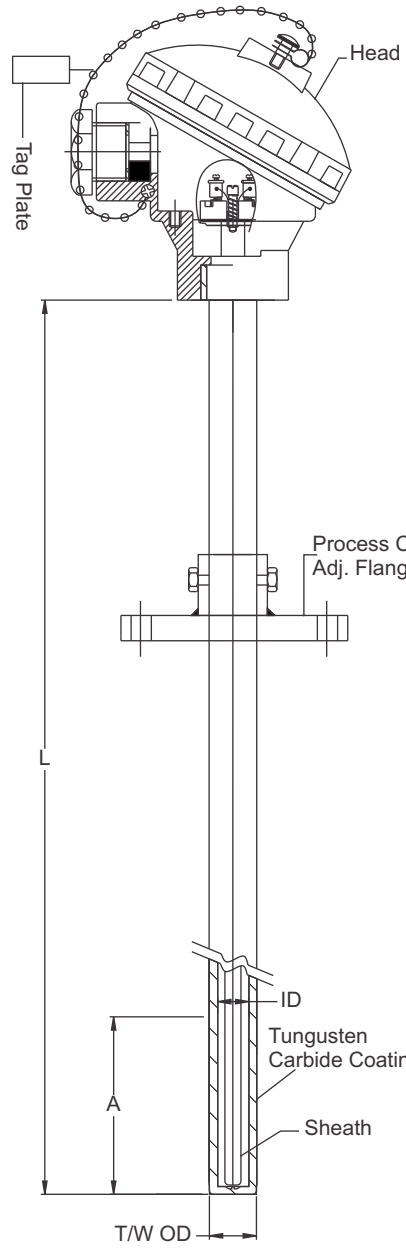
316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

Threads	1/4"
	1/2"
	3/8"
	3/4"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
	M-Thread
Other	Consult Factory

A	Teflon/Teflon Insulated Flexible Cable
B	Teflon Insulated & SS Braided Flexible Cable
C	FG/FG Insulated Flexible Cable
D	PVC/PVC Insulated Flexible Cable
E	FG/FG/Insulated/SS Braided
Other	Consult Factory

# THERMOCOUPLE WITH THERMOWELL & COATING

T-506



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Thermowell OD (mm)

316	SS 316
310	SS 310
304	SS 304

Thermowell ID (mm)

600	Inconel-600
800	Inconel-800
446	HRS- 446
Other	Consult Factory

Thermowell Material

316	SS 316
310	SS 310
304	SS 304
C S	Cast Steel
Other	Consult Factory

Flange material

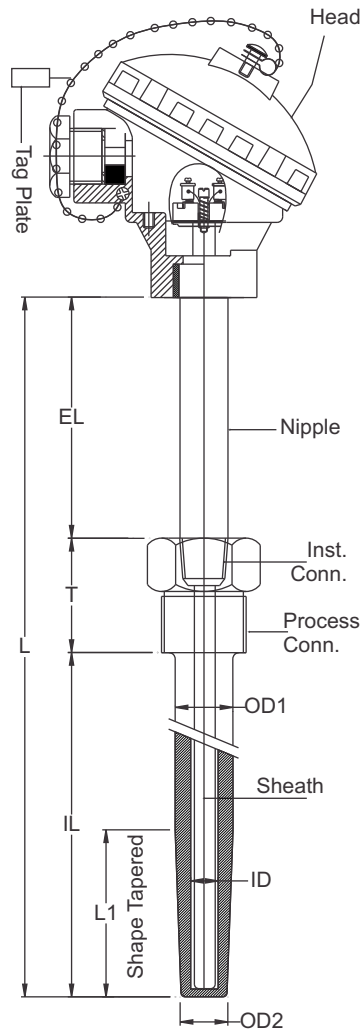
316	SS 316
310	SS 310
304	SS 304

Nominal Length of T/C "L" (mm)

C S	Cast Steel
Other	Consult Factory

# THERMOCOUPLE WITH NIPPLE & TAPER THERMOWELL

## T-650



Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell OD1 (mm)

Thermowell OD2 (mm)

Thermowell ID (mm)

Nipple

Length of "T" (mm)

Process Conn.

Inst. Connection

Insertion Length (I.L.) (mm)

Tapered Length (L1) (mm)

Extension Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

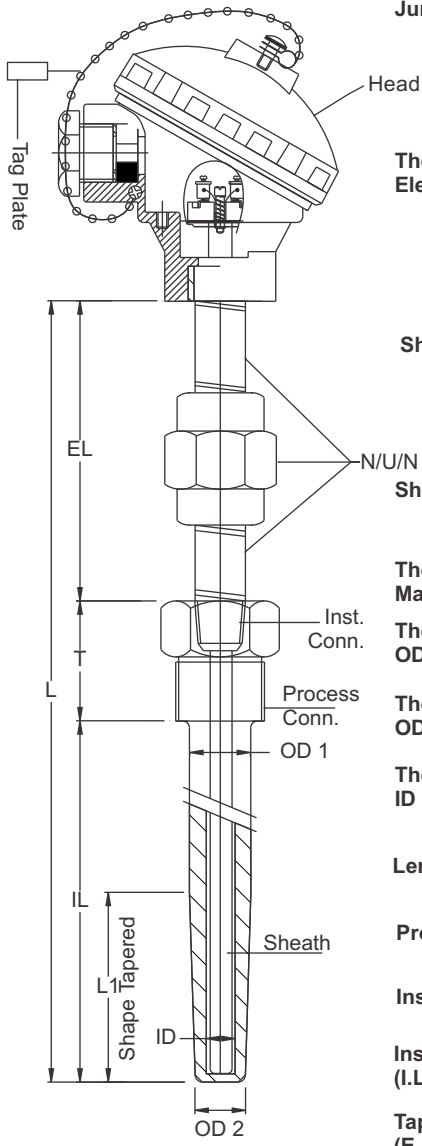
316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
	M-Thread
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
	Other

# THERMOCOUPLE WITH N/U/N & TAPER THERMOWELL

**T-651**



Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell OD1 (mm)

Thermowell OD2 (mm)

Thermowell ID (mm)

Length of "T" (mm)

Process Conn.

Inst. Conn.

Insertion Length (I.L.) (mm)

Taper Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

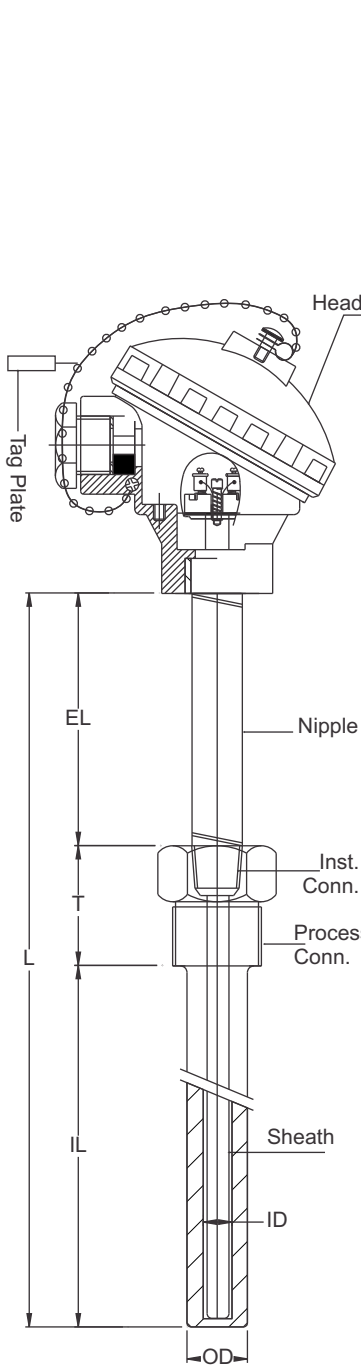
316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory



# THERMOCOUPLE WITH NIPPLE & STRAIGHT THERMOWELL



**T-652**

Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell OD1 (mm)

Thermowell OD2 (mm)

Thermowell ID (mm)

Length of "T" (mm)

Process Conn.

Inst. Conn.

Insertion Length (I.L.) (mm)

Extension Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory
GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

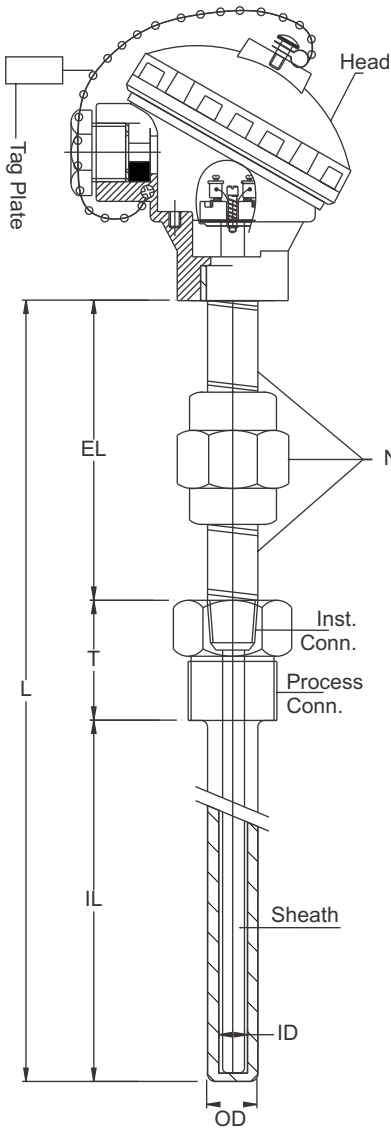
316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
B.S.P. / N.P.T.	1 1/4"
	1 1/2"
	2"
	M-Thread
Other	M20X1.5, M18X1.5, M33X2, M27X2 Consult Factory

# THERMOCOUPLE WITH N/U/N & STRAIGHT THERMOWELL

**T-653**



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Thermowell OD (mm)

316	SS 316
310	SS 310

Thermowell ID (mm)

304	SS 304
600	Inconel-600

Thermowell Material

800	Inconel-800
446	HRS-446
Other	Consult Factory

Nipple

A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Length of "T" (mm)

Process Conn.

Threads	1/4"
	1/2"
	3/4"
	3/8"
B.S.P. / N.P.T.	1"
	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

Inst. Conn.

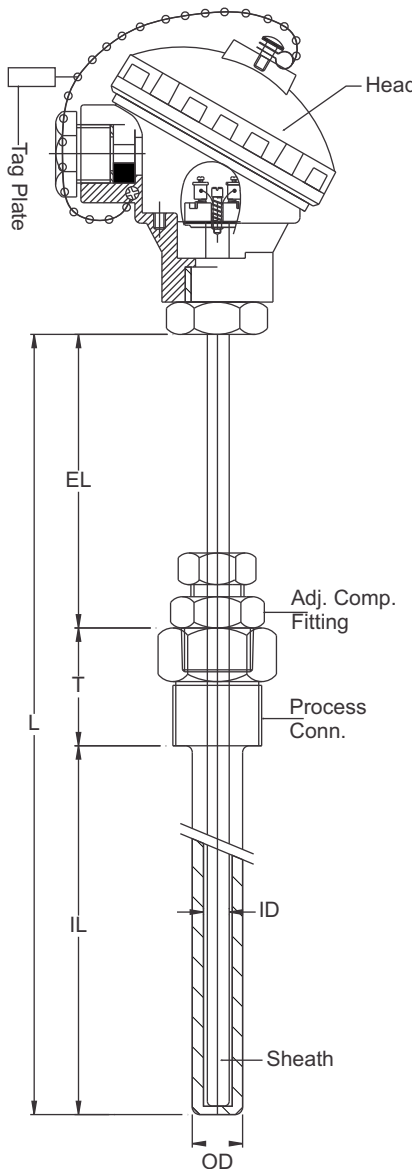
Insertion Length (I.L.) (mm)

Extension Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

# THERMOCOUPLE WITH STRAIGHT THERMOWELL & ADJUSTABLE COMPENSATION FITTING

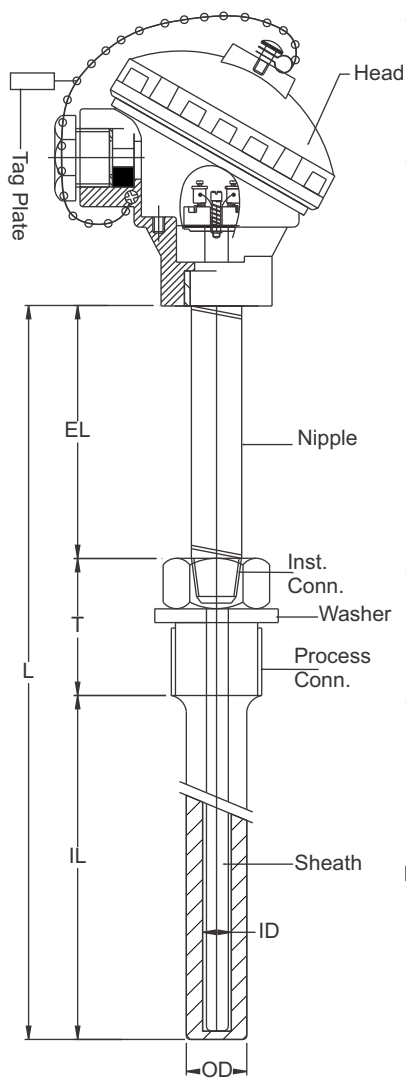
**T-654**



<b>Termination Style</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>C</td><td>Connection Head IP-67</td></tr> <tr><td>D</td><td>Double entry Head IP-65</td></tr> <tr><td>EB</td><td>Ex-D IIB Zone 1&amp;2</td></tr> <tr><td>EC</td><td>Ex-D IIC</td></tr> <tr><td>M</td><td>Miniature Head</td></tr> <tr><td>P</td><td>Plastic Head</td></tr> <tr><td>Other</td><td>Consult Factory</td></tr> </table>	C	Connection Head IP-67	D	Double entry Head IP-65	EB	Ex-D IIB Zone 1&2	EC	Ex-D IIC	M	Miniature Head	P	Plastic Head	Other	Consult Factory						
C	Connection Head IP-67																						
D	Double entry Head IP-65																						
EB	Ex-D IIB Zone 1&2																						
EC	Ex-D IIC																						
M	Miniature Head																						
P	Plastic Head																						
Other	Consult Factory																						
<b>Junction Style</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>GN</td><td>Grounded Rounded Tip</td></tr> <tr><td>UN</td><td>Ungrounded Rounded Tip</td></tr> </table>	GN	Grounded Rounded Tip	UN	Ungrounded Rounded Tip																
GN	Grounded Rounded Tip																						
UN	Ungrounded Rounded Tip																						
<b>Thermocouple Element</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of T/C</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>K</td><td>Chromal/Alumal</td></tr> <tr><td>J</td><td>Iron/Constantan</td></tr> <tr><td>N</td><td>Nicrosil-Nisil</td></tr> <tr><td>T</td><td>Copper/Constantan</td></tr> <tr><td>E</td><td>Ni-Cr/Constantan</td></tr> <tr><td>Other</td><td>Consult Factory</td></tr> <tr><td>Ex. :</td><td>If Simplex - K Duplex - KK</td></tr> </tbody> </table>	Type of T/C	Description	K	Chromal/Alumal	J	Iron/Constantan	N	Nicrosil-Nisil	T	Copper/Constantan	E	Ni-Cr/Constantan	Other	Consult Factory	Ex. :	If Simplex - K Duplex - KK				
Type of T/C	Description																						
K	Chromal/Alumal																						
J	Iron/Constantan																						
N	Nicrosil-Nisil																						
T	Copper/Constantan																						
E	Ni-Cr/Constantan																						
Other	Consult Factory																						
Ex. :	If Simplex - K Duplex - KK																						
<b>Sheath "OD"</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1</td><td>Ø1mm</td></tr> <tr><td>1.5</td><td>Ø1.5mm</td></tr> <tr><td>3</td><td>Ø3mm</td></tr> <tr><td>4.5</td><td>Ø4.5mm</td></tr> <tr><td>6</td><td>Ø6mm</td></tr> <tr><td>8</td><td>Ø8mm</td></tr> </table>	1	Ø1mm	1.5	Ø1.5mm	3	Ø3mm	4.5	Ø4.5mm	6	Ø6mm	8	Ø8mm								
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1.5	Ø1.5mm																						
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8	Ø8mm																						
<b>Sheath Material</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>316</td><td>SS 316</td></tr> <tr><td>310</td><td>SS 310</td></tr> <tr><td>600</td><td>Inconel-600</td></tr> <tr><td>Other</td><td>Consult Factory</td></tr> </table>	316	SS 316	310	SS 310	600	Inconel-600	Other	Consult Factory												
316	SS 316																						
310	SS 310																						
600	Inconel-600																						
Other	Consult Factory																						
<b>Thermowell Material</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>316</td><td>SS 316</td></tr> <tr><td>310</td><td>SS 310</td></tr> <tr><td>304</td><td>SS 304</td></tr> <tr><td>600</td><td>Inconel-600</td></tr> <tr><td>800</td><td>Inconel-800</td></tr> <tr><td>446</td><td>HRS-446</td></tr> <tr><td>Other</td><td>Consult Factory</td></tr> </table>	316	SS 316	310	SS 310	304	SS 304	600	Inconel-600	800	Inconel-800	446	HRS-446	Other	Consult Factory						
316	SS 316																						
310	SS 310																						
304	SS 304																						
600	Inconel-600																						
800	Inconel-800																						
446	HRS-446																						
Other	Consult Factory																						
<b>Thermowell OD (mm)</b>																							
<b>Thermowell ID (mm)</b>																							
<b>Process Conn.</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Threads</td><td>1/4"</td></tr> <tr><td></td><td>1/2"</td></tr> <tr><td></td><td>3/4"</td></tr> <tr><td></td><td>3/8"</td></tr> <tr><td></td><td>1"</td></tr> <tr><td>B.S.P. / N.P.T.</td><td>1 1/4"</td></tr> <tr><td></td><td>1 1/2"</td></tr> <tr><td></td><td>2"</td></tr> <tr><td>M-Thread</td><td>M20X1.5, M18X1.5, M33X2, M27X2</td></tr> <tr><td>Other</td><td>Consult Factory</td></tr> </table>	Threads	1/4"		1/2"		3/4"		3/8"		1"	B.S.P. / N.P.T.	1 1/4"		1 1/2"		2"	M-Thread	M20X1.5, M18X1.5, M33X2, M27X2	Other	Consult Factory
Threads	1/4"																						
	1/2"																						
	3/4"																						
	3/8"																						
	1"																						
B.S.P. / N.P.T.	1 1/4"																						
	1 1/2"																						
	2"																						
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2																						
Other	Consult Factory																						
<b>Length of "T" (mm)</b>																							
<b>Inst. Conn.</b>																							
<b>Insertion Length (I.L.) (mm)</b>																							
<b>Extention Length (E.L.) (mm)</b>																							
<b>Nominal Length of T/C "L" (mm)</b>																							

# THERMOCOUPLE WITH NIPPLE & STRAIGHT THERMOWELL

## T-655



**Termination Style**

**Junction Style**

**Thermocouple Element**

**Sheath "OD"**

**Sheath Material**

**Thermowell Material**

**Thermowell OD (mm)**

**Thermowell ID (mm)**

**Nipple**

**Length of "T" (mm)**

**Process Conn.**

**Inst. Conn.**

**Insertion Length (I.L.) (mm)**

**Extension Length (E.L.) (mm)**

**Nominal Length of T/C "L" (mm)**

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

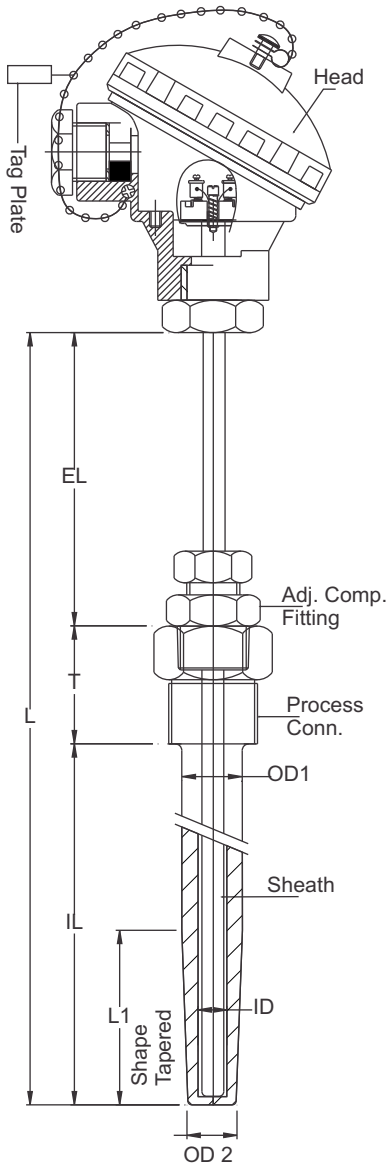
316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
B.S.P. / N.P.T.	1 1/4"
	1 1/2"
	2"
	M-Thread
Other	Consult Factory

# THERMOCOUPLE WITH TAPERED THERMOWELL & ADJUSTABLE COMPENSATION FITTING



**T-656**

**Termination Style**

**Junction Style**

**Thermocouple Element**

**Sheath "OD"**

**Sheath Material**

**Thermowell Material**

**Thermowell OD1 (mm)**

**Od2 (mm)**

**ID (mm)**

**Length of "T" (mm)**

**Process Conn.**

**Adj. Comp. Fitting**

**Insertion Length (I.L.)(mm)**

**Tapered Length (L1)(mm)**

**Extention Length (E.L.)(mm)**

**Nominal Length of T/C "L"(mm)**

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

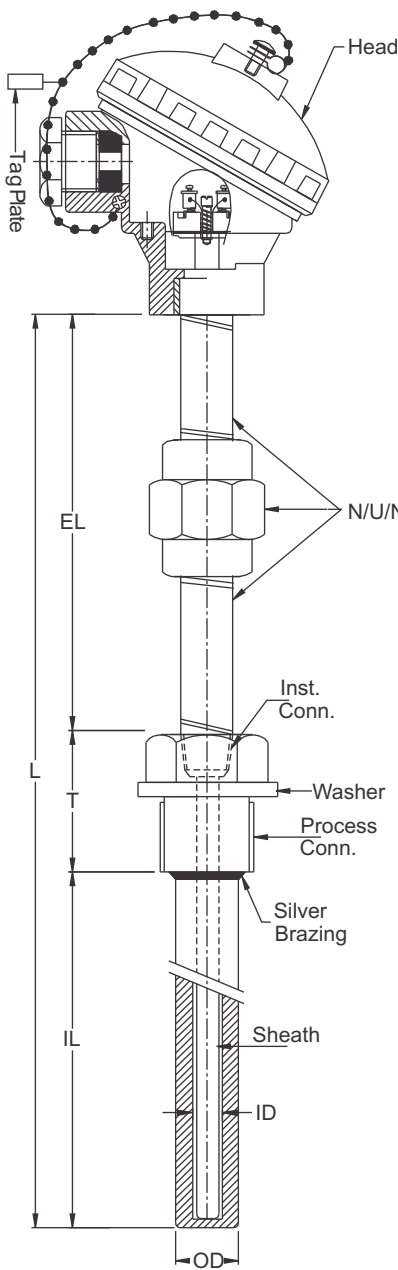
1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

Threads	1/4"
	1/2"
	3/4"
	3/8"
B.S.P. / N.P.T.	1"
	1 1/4"
	1 1/2"
	2"
	M-Thread
Other	Consult Factory

# THERMOCOUPLE WITH SOLID SINTERED TUNGSTEN CARBIDE THERMOWELL



**T-657**

Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell OD (mm)

Thermowell ID (mm)

N/U/N

Length of "T" (mm)

Process Conn.

Inst. Conn.

Insertion Length (I.L.) (mm)

Extension Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory
GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

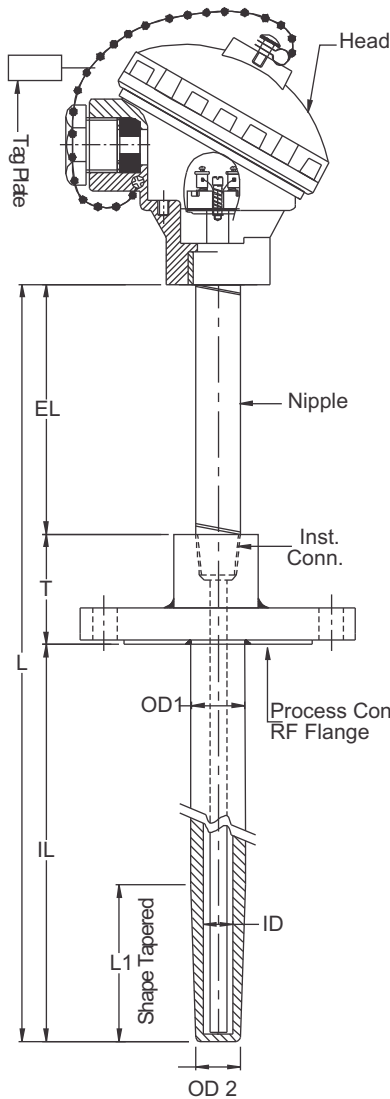
Solid Sintered Tungsten Carbide

A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
B.S.P. / N.P.T.	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

# THERMOCOUPLE WITH NIPPLE & FLANGE THERMOWELL TAPER

## T- 726



Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell OD (mm)

Thermowell ID (mm)

Nipple

Length of "T" (mm)

Process Conn.

Flange Material

Inst. Conn.

Insertion Length (I.L.)(mm)

Extension Length (E.L.)(mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

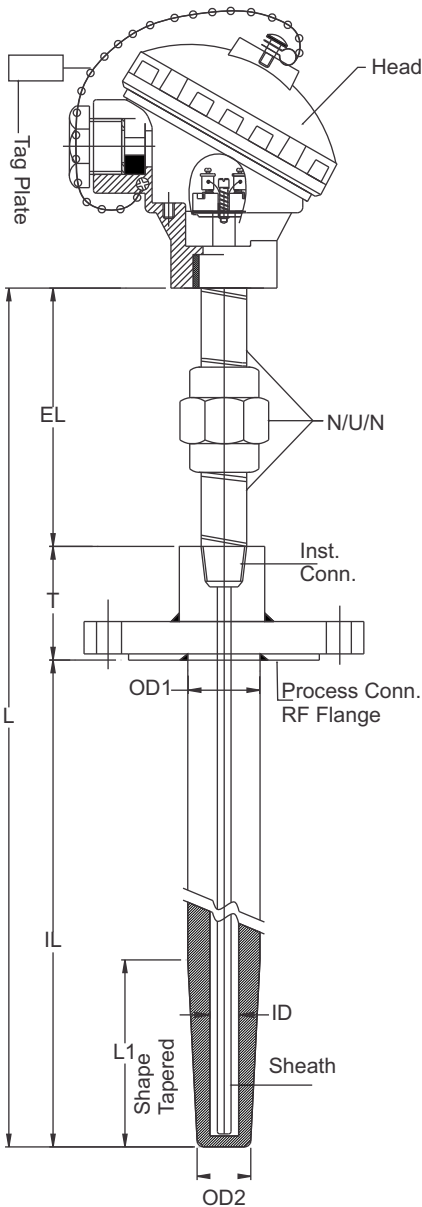
A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
# 400	1"
# 400	1 1/2"
# 600	1 1/4"
	2"
Other	Consult Factory

Threads	1/4"	
	1/2"	
	3/4"	
	3/8"	
	1"	
	1 1/4"	
B.S.P. / N.P.T.	1 1/2"	
	2"	
	M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
	Other	Consult Factory

# THERMOCOUPLE WITH N/U/N & FLANGE THERMOWELL TAPER

T-727



**Termination Style**

**Junction Style**

**Thermocouple Element**

**Sheath "OD"**

**Sheath Material**

**Thermowell Material**

**Thermowell OD1 (mm)**

**Thermowell OD2 (mm)**

**ID (mm)**

**N/U/N**

**Length of "T" (mm)**

**Process Conn.**

**Flange Material**

**Inst. Conn.**

**Insertion Length (I.L.) (mm)**

**Extension Length (E.L.) (mm)**

**Nominal Length of T/C "L" (mm)**

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

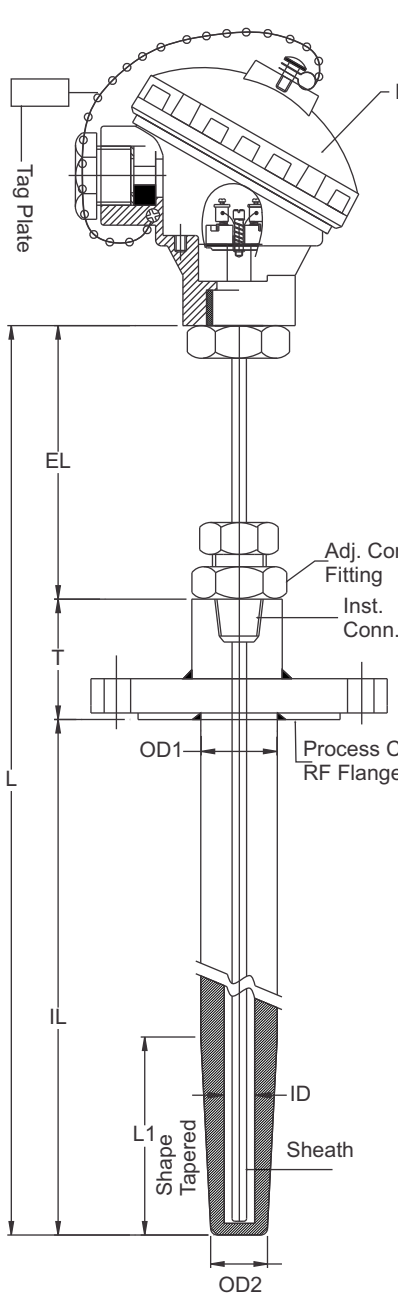
Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
# 400	1"
# 600	1 1/2"
	1 1/4"
	2"
Other	Consult Factory

	1/4"
	1/2"
	3/4"
	3/8"
B.S.P. / N.P.T.	1"
	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory



# THERMOCOUPLE WITH FLANGE THERMOWELL TAPERED & ADJUSTABLE COMPENSATION FITTING

## T-728



**Termination Style**

**Junction Style**

**Thermocouple Element**

**Sheath "OD"**

**Sheath Material**

**Thermowell Material**

**Thermowell OD1 (mm)**

**Od2 (mm)**

**ID (mm)**

**Length of "T" (mm)**

**Process Conn.**

**Flange Material**

**Inst. Connection**

**Adj. Comp. Fitting**

**Insertion Length (I.L.) (mm)**

**Extension Length (E.L.) (mm)**

**Nominal Length of T/C "L" (mm)**

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

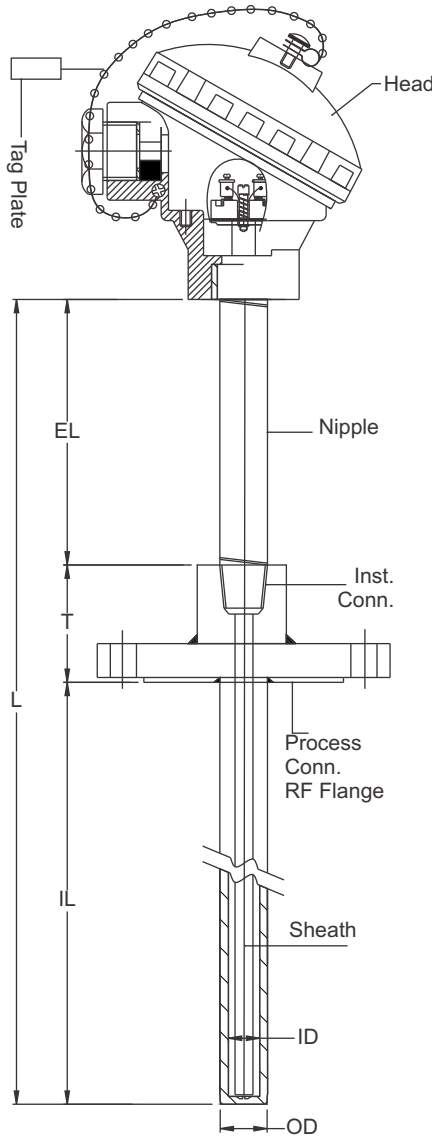
316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
# 400	1"
# 600	1 1/2"
	1 1/4"
	2"
Other	Consult Factory

	1/4"
	1/2"
	3/4"
	3/8"
B.S.P. / N.P.T.	1"
	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

# THERMOCOUPLE WITH NIPPLE & STRAIGHT THERMOWELL

T-729



**Termination Style**

**Junction Style**

**Thermocouple Element**

**Sheath "OD"**

**Sheath Material**

**Thermowell Material**

**Thermowell OD (mm)**

**ID (mm)**

**Nipple**

**Length of "T" (mm)**

**Process Conn.**

**Flange Material**

**Inst. Conn.**

**Insertion Length (I.L.) (mm)**

**Extention Length (E.L.) (mm)**

**Nominal Length of T/C "L" (mm)**

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory
GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

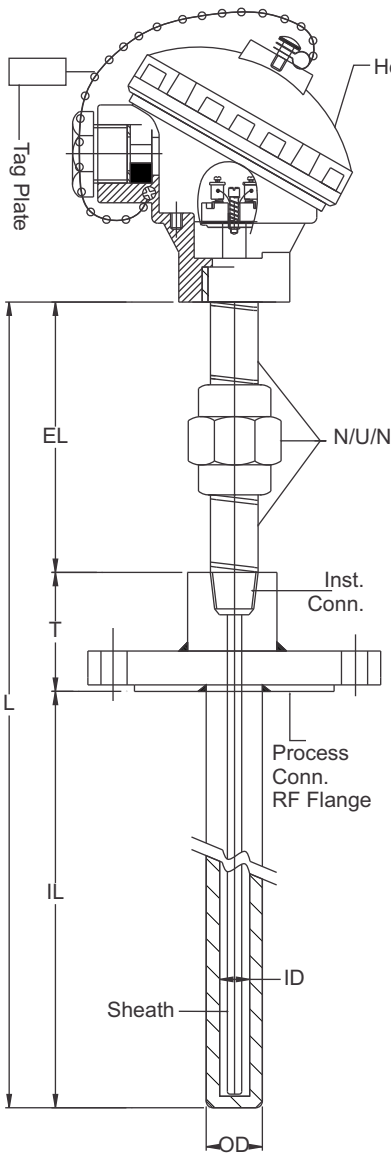
A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
# 400	1"
# 600	1 1/2"
	1 1/4"
	2"
Other	Consult Factory

	1/4"
	1/2"
	3/4"
	3/8"
B.S.P. / N.P.T.	1"
	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

# THERMOCOUPLE WITH N/U/N & STRAIGHT THERMOWELL

**T-730**



Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell OD (mm)

ID (mm)

N/U/N

Length of "T" (mm)

Process Conn.

Flange Material

Inst. Conn.

Insertion Length (I.L.) (mm)

Extention Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory
GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

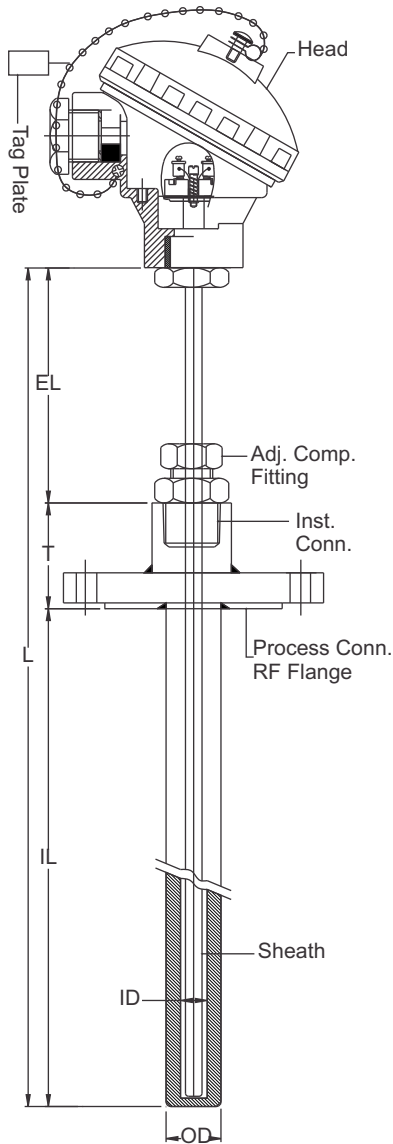
A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
# 400	1"
# 600	1 1/2"
	1 1/4"
	2"
Other	Consult Factory

	1/4"
	1/2"
	3/4"
	3/8"
B.S.P. / N.P.T.	1"
	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

# THERMOCOUPLE WITH STRAIGHT THERMOWELL & FITTING

T-731



Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell OD (mm)

ID (mm)

Length of "T" (mm)

Process Conn.

Flange Material

Inst. Conn.

Adj. Comp. Fitting

Insertion Length (I.L.) (mm)

Extention Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory
GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

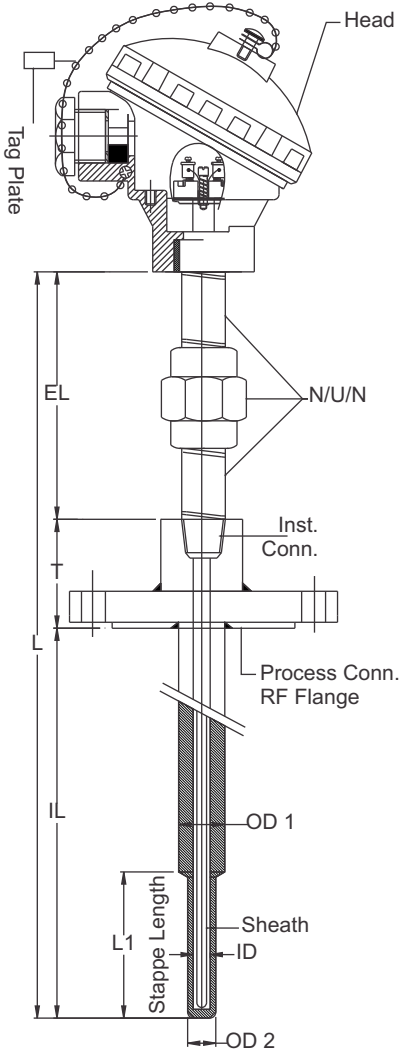
316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
# 400	1"
# 600	1 1/2"
	1 1/4"
	2"
Other	Consult Factory

1/4"	Threads
1/2"	
3/4"	
3/8"	
1"	
1"	B.S.P. / N.P.T.
1 1/4"	
1 1/2"	
2"	
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

# THERMOCOUPLE WITH N/U/N & STEPPED THERMOWELL

## T-732



Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell OD (mm)

ID (mm)

N/U/N

Length of "T" (mm)

Process Conn.

Flange Material

Inst. Conn.

Tip Length (T.L.) (mm)

Insertion Length (I.L.) (mm)

Extension Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

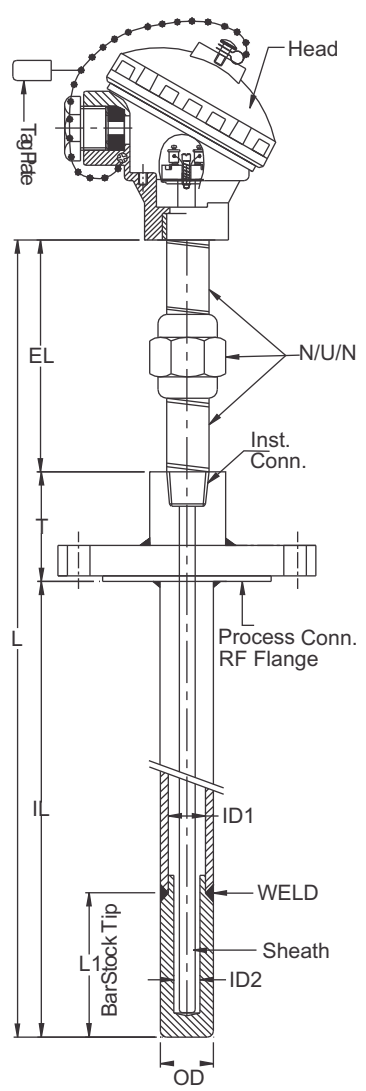
A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
# 400	1"
# 600	1 1/2"
	1 1/4"
	2"
Other	Consult Factory

	1/4"
	1/2"
	3/4"
	3/8"
B.S.P. / N.P.T.	1"
	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

# THERMOCOUPLE WITH BUILT UP FABRICATED THERMOWELL

## T-733



Termination Style

Junction Style

Thermocouple Element

Sheath "OD"

Sheath Material

Thermowell Material

Thermowell Od1 (mm)

Thermowell Od2 (mm)

ID (mm)

N/U/N

Length of "T" (mm)

Process Conn.

Flange Material

Inst. Conn.

Insertion Length (I.L.) (mm)

Extention Length (E.L.) (mm)

Nominal Length of T/C "L" (mm)

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

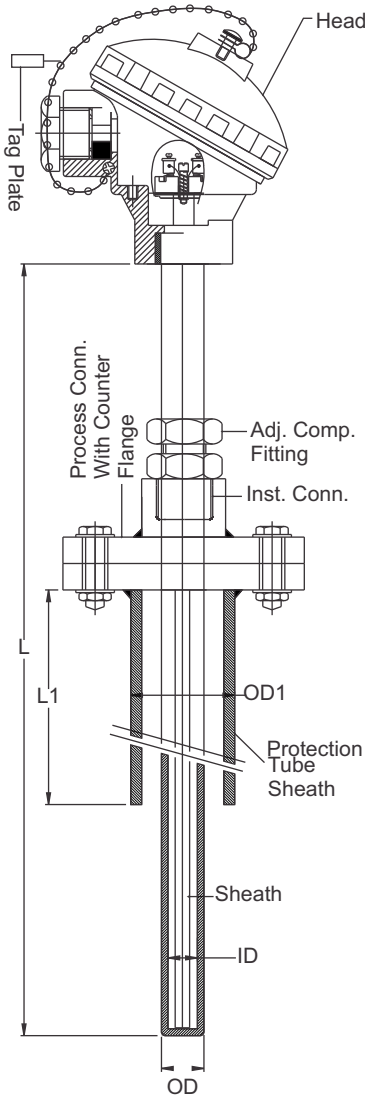
316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

A	1/2" SCH 80
B	1/2" SCH 40
Other	Consult Factory

Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
	1"
# 400	1 1/2"
# 600	1 1/4"
	2"
Other	Consult Factory

Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
B.S.P. / N.P.T.	1 1/4"
	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

# THERMOCOUPLE WITH FLANGE N/U/N & STEPPED THERMOWELL



**T-734**

Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded Rounded Tip
UN	Ungrounded Rounded Tip

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Thermowell Material

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
446	HRS-446
Other	Consult Factory

Thermowell OD (mm)

ID (mm)

Protection Tube Material

Protection Tube OD(mm)

Length of "T" (mm)

Process Connection

Flange Material

Inst. Connection

Adj. Comp. Fitting

Tip Length (T.L.) (mm)

Protection Tube Length "L1"(mm)

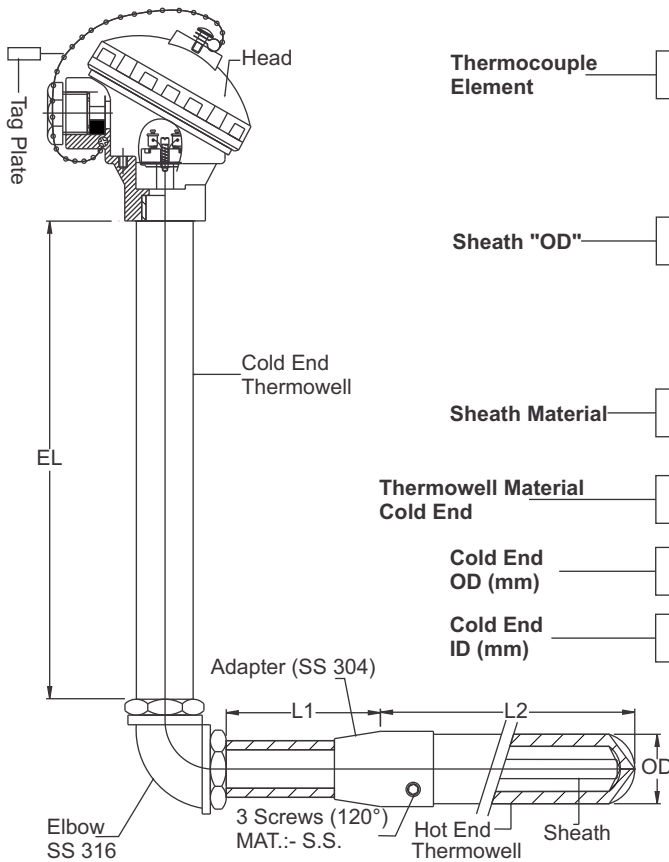
Nominal Length of T/C "L" (mm)

Flange Rating	Flange Size
# 150	1/2"
# 300	3/4"
# 400	1"
# 600	1 1/2"
	1 1/4"
	2"
Other	Consult Factory

Threads	1/4"
	1/2"
	3/4"
	3/8"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory

# THERMOCOUPLE FOR MOLTEN ALUMINIUM ("L" SHAPE)

**T-950**



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

6	Ø6mm
8	Ø8mm

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Thermowell Material Cold End

316	SS 316
310	SS 310
304	SS 304
600	Inconel-600
800	Inconel-800
Other	Consult Factory

Cold End OD (mm)

Cold End ID (mm)

Thermowell Material Hot End

CS	Cast Iron
SN	Silicon Nitride
Other	Consult Factory

Hot End OD (mm)

Hot End ID (mm)

Legth "L1" (mm)

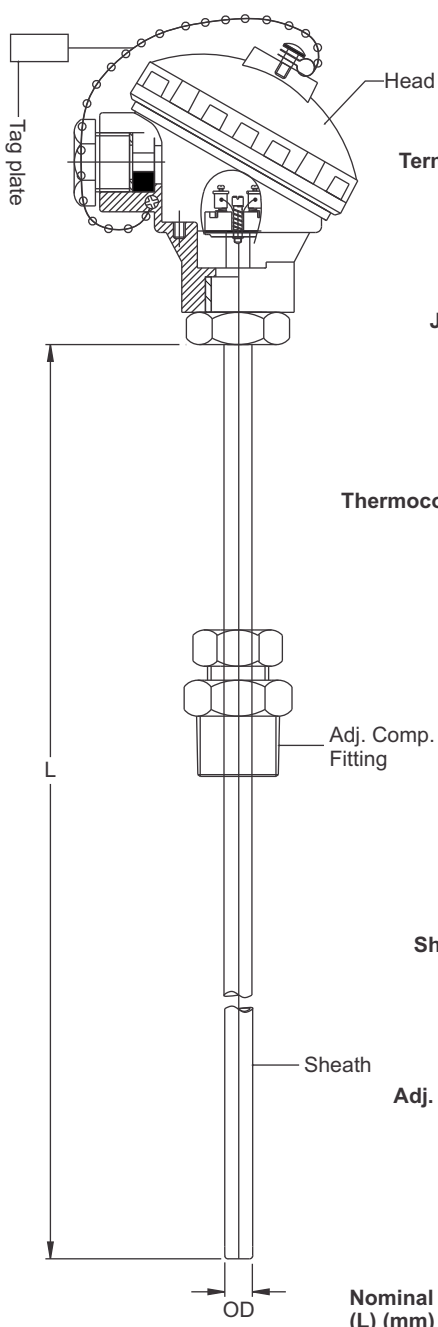
Legth "L2" (mm)

Nominal Legth of T/C "L" (mm)



# THERMOCOUPLE WITH HEAD

**T - 101**



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1 & 2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex.;	If <b>Simplex</b> - K, <b>Duplex</b> - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5
3	Ø3
4.5	Ø4.5
6	Ø6
8	Ø8
Other	Consult Factory

Sheath Material

316	SS316
310	SS310
600	Inconel-600
Other	Consult Factory

Adj. Comp. Fitting

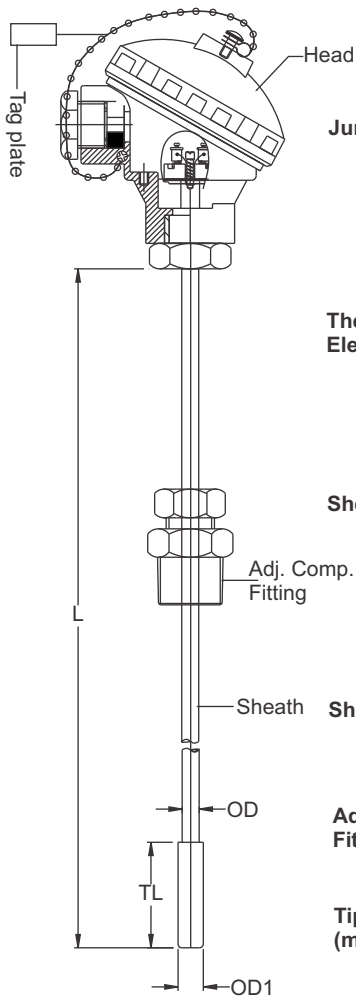
Threads	1/4"
	1/2"
B.S.P. / N.P.T.	3/8"
	3/4"
	1"
	1 1/4"
	1 1/2"
	2"

Nominal Length of T/C (L) (mm)

M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory
N/A	Not Applicable

# THERMOCOUPLE WITH HEAD & TIP ASSEMBLY

T-103



Termination Style

C	Connection Head IP- 67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Adj. Comp. Fitting

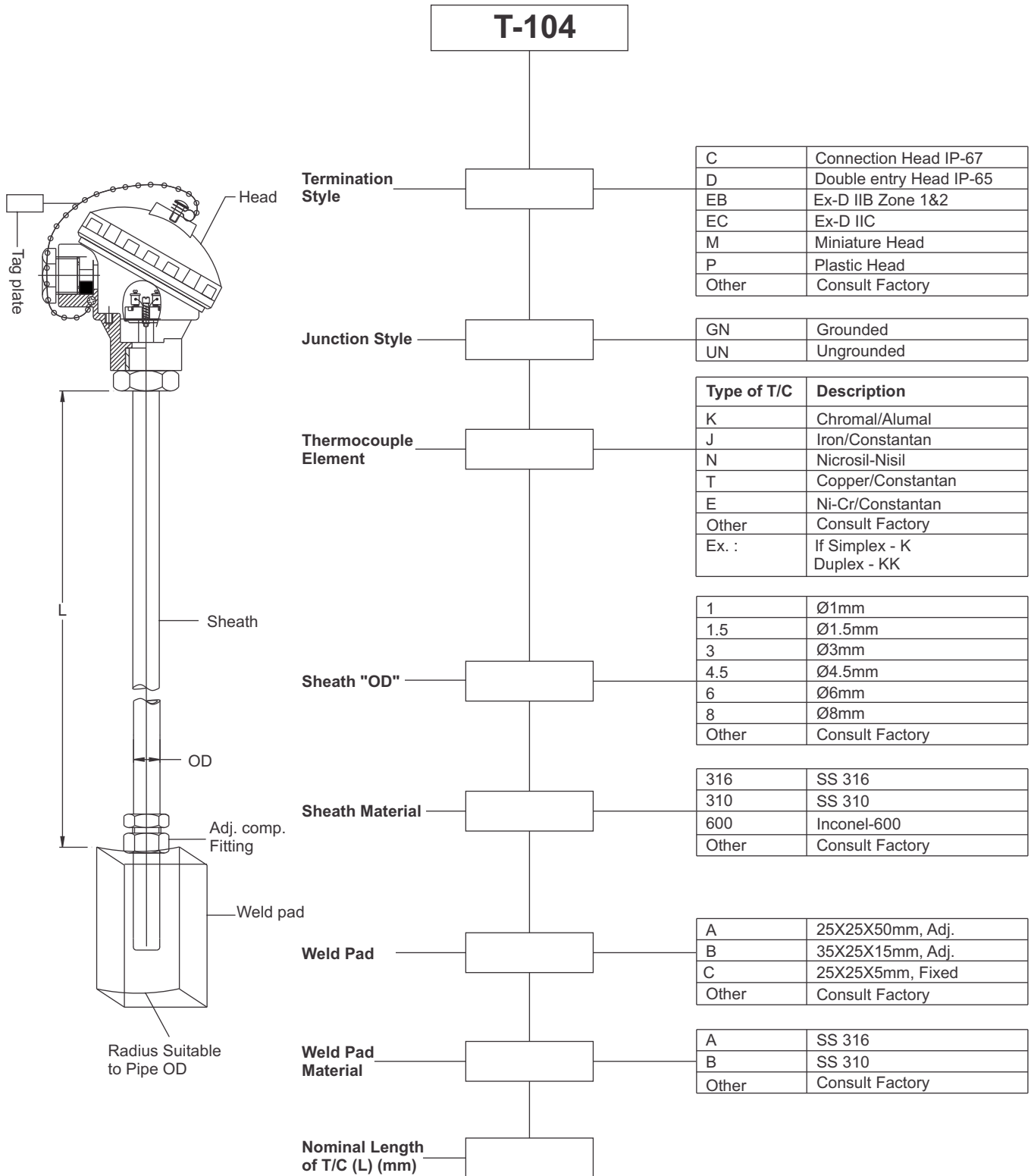
Threads	1/4"
	1/2"
	3/8"
	3/4"
	1"
	1 1/4"
B.S.P. / N.P.T.	1 1/2"
	2"
	M-Thread
M-Thread	M20X1.5, M18X1.5, M33X2, M27X2
Other	Consult Factory
N/A	Not Applicable

Tip Length "T.L." (mm)

Tip Dia "OD1"

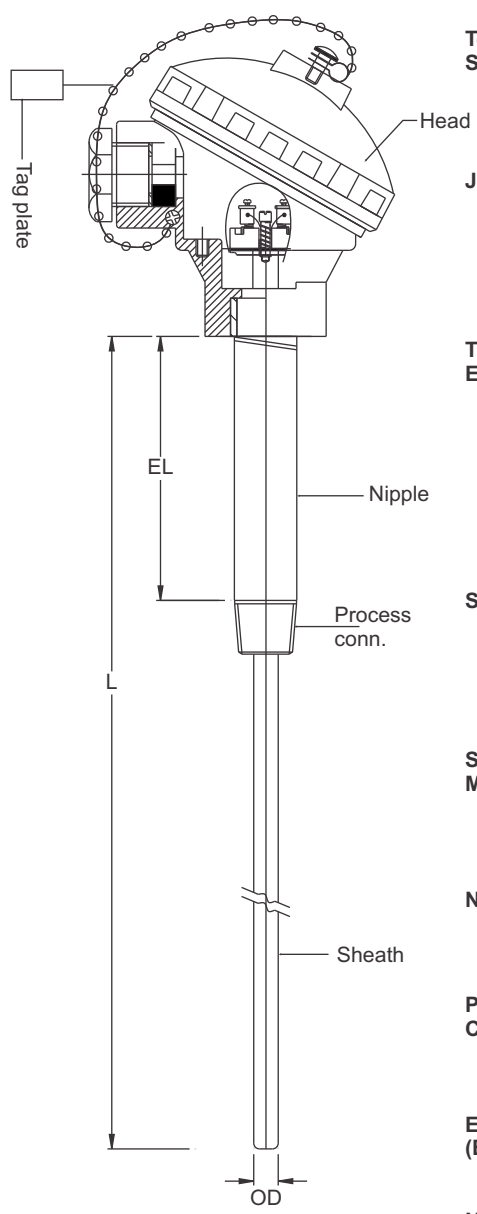
Nominal Length of T/C (L) (mm)

# THERMOCOUPLE WITH HEAD & WELD PAD



# THERMOCOUPLE WITH NIPPLE

T-105



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Nipple

1/2" SCH 80	OD X ID: 21.3 X 13.8mm
Other	Consult Factory

Process Connection

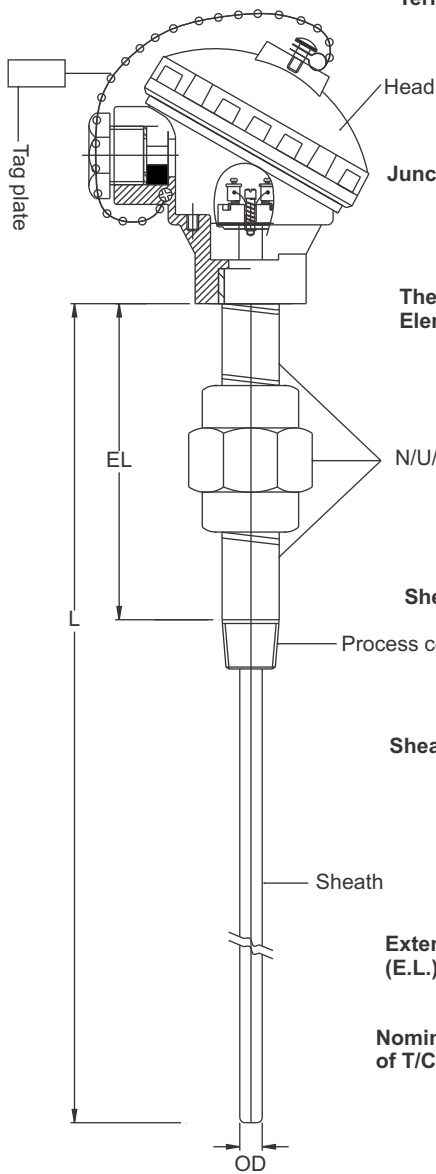
Threads	1/2" BSP
	1/2" NPT
Other	Consult Factory

Extension Length (E.L.) (mm)

Nominal Length of T/C (L) (mm)

# THERMOCOUPLE WITH NIPPLE UNION NIPPLE

T-106



Termination Style

C	Connection Head IP-67
D	Double entry Head IP-65
EB	Ex-D IIB Zone 1&2
EC	Ex-D IIC
M	Miniature Head
P	Plastic Head
Other	Consult Factory

Junction Style

GN	Grounded
UN	Ungrounded

Thermocouple Element

Type of T/C	Description
K	Chromal/Alumal
J	Iron/Constantan
N	Nicrosil-Nisil
T	Copper/Constantan
E	Ni-Cr/Constantan
Other	Consult Factory
Ex. :	If Simplex - K Duplex - KK

Sheath "OD"

1	Ø1mm
1.5	Ø1.5mm
3	Ø3mm
4.5	Ø4.5mm
6	Ø6mm
8	Ø8mm
Other	Consult Factory

Sheath Material

316	SS 316
310	SS 310
600	Inconel-600
Other	Consult Factory

Process Connection

Threads	1/2" BSP 1/2" NPT
Other	Consult Factory

Extension Length (E.L.) (mm)

Nominal Length of T/C (L) (mm)