

Filled System Thermometers (301T) Filled System Liquid Filled type Thermometers (305T)

Applications

- Corrosive, Non-corrosive media
- Chemical process, petroleum food industry
- Machine and plant engineering
- Piping, pressure vessels and industrial heating
- Varying ambient condition

Temperature Element

- Liquid Filled System (-30 ~ 300°C) / SAMA CLASS IB
- Gas Filled System (-200 ~ 700°C) / SAMA CLASS IIIB

Working Range

- Maximum scale value



Standard Specification Overview

Dial Size

- 75mm, 100mm, 125mm, 150mm

Reference Accuracy

- $\pm 2.0\%$ of Full Scale

Scale Ranges

- -200 ~ 0 ~ 700°C

* For more information, see the ordering information table.

Process Connection

- PT ("R" in ISO) 1/2", NPT 1/2"

Material

- Case : 304 SS
- Ring (Cover) : 304 SS
- Connection : 304 SS
- Stem : 304 SS
- Window : Glass
- Dial : White Aluminum with Black Graduations
- Pointer : Aluminum Alloy, Black Finished
- Liquid Filled : 305T (Silicone)

Degree Protection

- IP67

Optional Extra

- Test Report by Manufacturer
- Test Report by KOLAS (ILAC-MRA)
- 316 SS Case & Cover
- Stem Material (316 SS)
- OEM Service for a specific customer
- High Accuracy ($\pm 1.0\%$ of F.S.) Calibration

Special Notes

1. "0" adjustable : None

Ordering Information for 301T, 305T

● = Standard Products ▲ = Available NA = Not Available

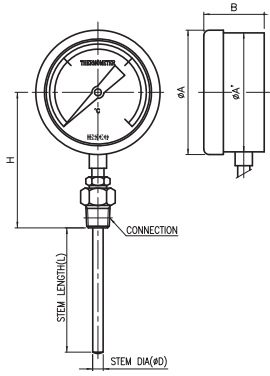
Model	Description	Case & Ring	Stem Material			
301T	Filled System Thermometers	304 SS	304 SS			
305T	Filled System Liquid Filled type Thermometers	304 SS	304 SS			
Code	Dial Size	Accuracy				
30	75mm	±2.0% of Full Scale				
40	100mm	±2.0% of Full Scale				
50	125mm	±2.0% of Full Scale				
60	150mm	±2.0% of Full Scale				
Code	Mounting Type	30	40	50	60	
A	Bottom Connection Stem Mounting	●	●	●	●	
B	Bottom Connection Remote Surface Mounting	●	●	●	●	
L	Lower Back Connection Stem Mounting	●	●	●	●	
J	Lower Back Connection Remote Flush Mounting	●	●	●	●	
K	Lower Back Connection Remote Bracket Mounting	●	●	●	●	
Code	Process Connection Style	30	40	50	60	
2	PT ("R" in ISO Standard)	●	●	●	●	
3	PF ("G" in ISO Standard)	▲	▲	▲	▲	
4	NPT	●	●	●	●	
0	Others	☞	☞	☞	☞	
Code	Process Connection Size	30	40	50	60	
D	3/8"	▲	▲	▲	▲	
F	1/2"	●	●	●	●	
H	3/4"	▲	▲	▲	▲	
Code	Range	30	40	50	60	
XXX	Refer to the Temperature Range Code Table	●	●	●	●	
Code	Capillary length	30	40	50	60	
00	None	●	●	●	●	
10	1M	●	●	●	●	
15	1.5M	●	●	●	●	
20	2M	●	●	●	●	
30	3M	●	●	●	●	
40	4M	●	●	●	●	
50	5M	●	●	●	●	
60	6M	●	●	●	●	
XX	Others (Recommend Max Length 10M)	☞	☞	☞	☞	
Code	Sensor (Stem) Outer Diameter	30	40	50	60	
M8	8.0 mm	●	●	●	●	
M1	10.0 mm	●	●	●	●	
M2	12.0mm	●	●	●	●	

Please request for other size of stem out Diameter.

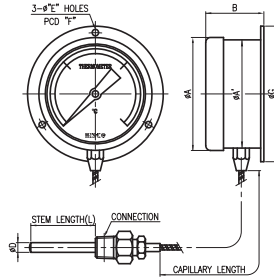
Code	Sensor (Stem) Length				
0075	75mm	0400	400mm	0750	750mm
0100	100mm	0450	450mm	0800	800mm
0150	150mm	0500	500mm	0850	850mm
0200	200mm	0550	550mm	0900	900mm
0250	250mm	0600	600mm	0950	950mm
0300	300mm	0650	650mm	1000	1000mm
0350	350mm	0700	700mm	XXXX	Other (specify the length in mm or inch)
Code	Applicable Accessory Options	30	40	50	60
W1	With Thermowell	▲	▲	▲	▲
J1	Swivel Nut	▲	▲	▲	▲
J2	Compression Fitting	▲	▲	▲	▲
J3	Adjustable Union	▲	▲	▲	▲
J4	Screw Union for 3/4"	▲	▲	▲	▲
J0	N/A	●	●	●	●
Code	Options	30	40	50	60
Test Reports					
T1	Test Report by Manufacturer	▲	▲	▲	▲
T2	Test Report by KOLAS (ILAC-MRA)	▲	▲	▲	▲
Material Option					
SM	Stem Material (316 SS)	▲	▲	▲	▲
S6	316 SS Case & Cover	▲	▲	▲	▲
Other Option					
OE	OEM Service for a specific customer	▲	▲	▲	▲
AC	High Accuracy ($\pm 1.0\%$ of F.S.) Calibration	▲	▲	▲	▲
Sample Model Selection : 301T40A2F117S10M10100J0					
* The standard specification and price are subject to change without prior notice					

Filled System Thermometers (301T, 305T)

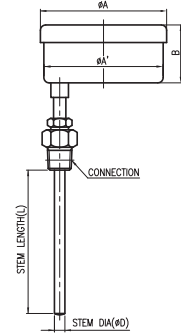
TYPE-A



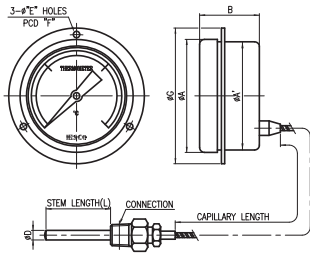
TYPE-B



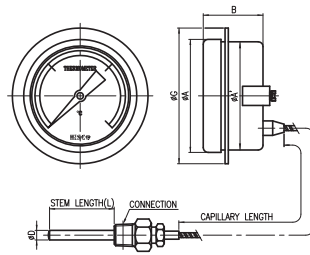
TYPE-L



TYPE-J



TYPE-K



(UNIT : mm)

Code	Dial Size	Available Code	A	A'	B	E	F	G	H
30	φ75	A,B,L,J,K	86	77	44	4.5	92	106	103
40	φ100	A,B,L,J,K	111	101	45	5.5	115	128	120
50	φ125	A,B,L,J,K	138	127	46	6.5	142	157	130
60	φ150	A,B,L,J,K	168	153	55	6.5	174	193	140

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