

# Bar stock thermowell with thread connection

## Model : A600 series

Spec. sheet no. AD06-01

### Service intended

Temperature sensors or indicating type temperature gauges are not directly inserted into the process pipe, unless these are used to measure the outside temperature of process pipe, instead, these are used with thermowells. By using thermowells, sensors and gauges will not interfere with the process line operation, and the users are able to perform the maintenance procedure of the process line more easily. A600 series are seamless round bar type thermowell, and does not contain any welded area by processing the internal area of the round bar. It is designed to be installed onto the process line by using screw created on the thermowell, and normally used in the process line where the pressure and the current exist.



### Standard features

#### Selection of thermowell

##### ■ Material

In general, the thermowell material chosen for the installation is governed mainly by the corrosion condition the thermowell will face. Recommended material for various services are given in the corrosion table. Occasionally, the material consideration is one of strength rather than corrosion. For example, a stainless steel thermowell may be required for a high pressure water service where otherwise a brass thermowell would be satisfactory from a corrosion standpoint.

##### ■ Insertion

The distance from the end of the well to the underside of the thread or other connection means (Designated as "U") is the insertion length.

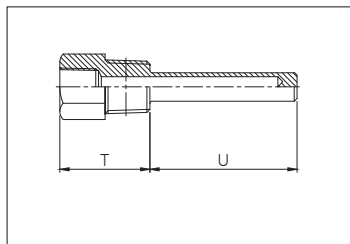
##### ■ Bore size

Almost any installation uses several type of temperature measuring instruments.

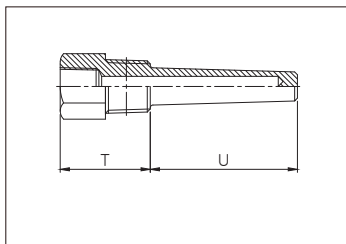
The selection of a standard bore diameter can produce extreme flexibility within the plant.

### Structure

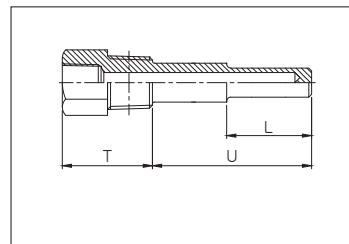
A6000



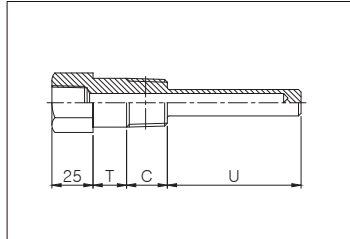
A6010



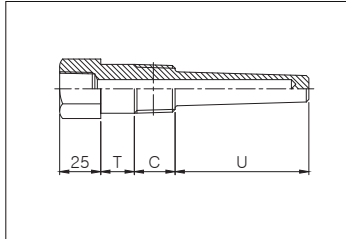
A6020



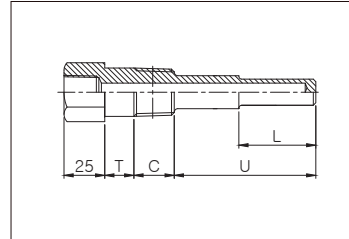
A6001



A6011



A6021



**1. Base model**

<b>A6000</b>	Straight bar stock
<b>A6001</b>	Straight bar stock with extension
<b>A6010</b>	Tapered bar stock
<b>A6011</b>	Tapered bar stock with extension
<b>A6020</b>	Stepped bar stock
<b>A6021</b>	Stepped bar stock with extension

**2. Material of well and material of flange**

<b>AXXX</b>	S25C	<b>NXXX</b>	Tantalum clad
<b>BXXX</b>	304SS	<b>OXXX</b>	A182F316
<b>CXXX</b>	316SS	<b>PXXX</b>	304SS + PTFE lining
<b>DXXX</b>	304L SS	<b>QXXX</b>	316SS + PTFE lining
<b>EXXX</b>	316L SS	<b>RXXX</b>	304L SS + PTFE coating
<b>FXXX</b>	310SS	<b>SXXX</b>	316L SS + PTFE coating
<b>GXXX</b>	321SS	<b>TXXX</b>	Incoloy-800
<b>HXXX</b>	446SS	<b>UXXX</b>	SSA-S
<b>IXXX</b>	A182F304	<b>WXXX</b>	A105
<b>JXXX</b>	Inconel 600	<b>XXXX</b>	GK-Sic
<b>KXXX</b>	Hastelloy-C	<b>YXXX</b>	A182F11
<b>LXXX</b>	Monel	<b>ZXXX</b>	Others
<b>MXXX</b>	Titanium		

Note : Not available for A601 and A602

**3. Internal connection**

<b>0</b>	½" NPT	<b>3</b>	¾" NPT
<b>1</b>	½" PT	<b>4</b>	¾" PF
<b>2</b>	½" PF	<b>5</b>	¾" PT

**4. Tip outer diameter / Bore size (mm)**

<b>A0</b>	14 / 7	<b>C2</b>	17 / 10
<b>A1</b>	14 / 9	<b>C3</b>	17 / 12
<b>B0</b>	16 / 7	<b>D0</b>	19 / 7
<b>B1</b>	16 / 9	<b>D1</b>	19 / 9
<b>B2</b>	16 / 10	<b>D2</b>	19 / 10
<b>C0</b>	17 / 7	<b>D3</b>	19 / 12
<b>C1</b>	17 / 9	<b>D4</b>	21 / 10

**5. Process connection size**

<b>A</b>	½"
<b>B</b>	¾"
<b>C</b>	1"
<b>D</b>	1¼"
<b>E</b>	1½"

**6. Process connection type**

<b>AA</b>	NPT
<b>AB</b>	PT
<b>PF</b>	PF

**7. Insertion length ("U") length (mm)**

<b>0</b>	80	<b>8</b>	450
<b>1</b>	100	<b>A</b>	500
<b>2</b>	150	<b>B</b>	600
<b>3</b>	200	<b>C</b>	700
<b>4</b>	250	<b>D</b>	800
<b>5</b>	300	<b>E</b>	900
<b>6</b>	350	<b>F</b>	1,000
<b>7</b>	400	<b>Z</b>	Other

Note : Please choose a code of next higher length if applicable length is not.  
Actual length shall be specified.

**8. Option**

<b>0</b>	45 mm
<b>1</b>	Plug and chain (304SS)
<b>2</b>	Plug and chain (316SS)

Note : Actual length shall be specified.

1	2	3	4	5	6	7	8
A6000	AXXX	3	A0	A	AA	1	1

Sample  
ordering code