## Bar stock thermowell with flange connection

Model : A610, A611, A612, A623

Spec. sheet no. AD06-03

CRN

A610 Series 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. These types are most common bar type, and these are installed onto the process line by attaching a flange. It is useful in the process line where a high pressure and a fast current exist. A623 is manufactured with a Full Penetration welding procedure so it can be used in a high pressure gas line.



## **Standard features**

### Selection of thermowell

#### Material

In general, the thermowell material chosen for the installation is governed mainly by the corrosion condition the themowell 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 Almost any installation of the thread or other connection means (Designated as "U") is the insertion length. Almost any installation of a stand

#### Tapered or straight type

Tapered type thermowells provide greater stiffness for the same sensitivity. The higher strength to weight ratio gives these thermowells higher natural frequency than for equivalent length straight type thermowells, thus permitting operation at higher fluid velocity.

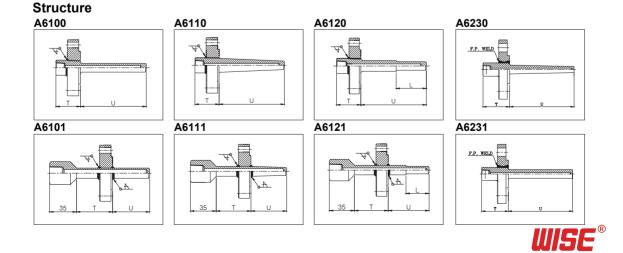
#### Bore size

Almost any installation uses several type of temperature measuring instruments.

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

#### Option

Wake frequency calculations in accordance with ASME PTC 19.3 WISE Inc. offers this as an engineering service.



## Main order

# **Ordering information**

1. Base	e model					5. Tip o	outer diam	eter / Bo	ore s	ize (n	ım)		
A6100	Straight bar	stock (Flan	ged conn	ection)		A0	14 / 7	C0	17 /	7	D1	1	9/9
A6101	Straight bar	stock				A1	14 / 9	C1	17 /	9	D2	1	9 / 10
	(Flanged cor	nnection wit	h extens	ion)		B0	16 / 7	C2	17 /	10	D3	1	9 / 12
A6110	Tapered bar	stock (Flan	ged conr	nection)		B1	16 / 9	C3	17 /	12	D4	2	1 / 10
A6111	Tapered bar	stock				B2	16 / 10	D0	19 /	7			
	(Flanged cor	nnection wit	h extens	ion)		6. Flan	ge size						
A6120	Stepped bar	stock (Flar	iged coni	nection)		A(1)	½" (15A)	Е	1½'	" (40A)	) <b>H</b>	3	" (80A)
A6121	Stepped bar stock					B(1)	¾" (20A)	F		50A)	, I		" (100A)
	(Flanged connection with extension)					C	1" (25A)	G	```	" (65A)			Other
A6230	Tapered bar stock (F.P welding)					D	1¼" (32A)				_		
A6231	Straight bar stock (F.P welding)					7.0	. ,	- 41 4					
2. Mate	erial of well						ess conne	ction ty			D40 5		
AX	S25C	M	<b>(</b> Titan	ium		DA	PN10 RF						900 RTJ
BX	304SS	N2		alum clad		DB	PN16 RF						3 1,500 R
CX	316SS	0)				AE	AE B16.5 class 150 FF AX B16.5 class 1						
DX	304L SS	PX		A182F316 304SS + PTFE lining			B16.5 class						2,500 R
EX	316L SS	Q)	5			AD AH	B16.5 class B16.5 class			AY KN	10K FF		s 2,500 R
FX	310E 33	R)		304L SS + PTFE coating			B16.5 clas			KL	10K FF		
GX	321SS	SX		SS + PTFE	0	AF AG	B16.5 clas				10K RF		
НХ	446SS	TX		oy-800	coating	AG DI	PN25 RF	S 300 RF			20K FF		
IX	A182F304	VX		•		AJ	B16.5 clas	600 PE			20K FF		
JX	Inconel 600	W				AJ	B16.5 clas				20K RF		
кх	Hastelloy-C	YX				AN	B16.5 clas				20K KF PN40 F		
LX	Monel	23		2F321		AV	B16.5 clas			zz	Other	NI I	
		ZX											
	lot available f	or flange					rtion lengt	h ("U")	leng	th (mr	n)		
ſ	V code is not a	available fo	r A611, A	4612		0	80	6	350		0		800
3. Mate	erial of flang	е				1	100	7	400		E		900
AX	S25C	M	<b>(</b> Titan	ium		2	150	8	450		F		1,000
ВΧ	304SS	N	C Tanta	alum clad		3	200	A	500		Z	2	Other
СХ	316SS	0)	<b>K</b> A182	2F316		4	250	В	600				
DX	304L SS	PX	3045	S + PTFE	lining	5	300	С	700				
EX	316L SS QX 316SS + PTFE lining				lining	Note : Please choose a code of next higher length if applicable length is not.							
FX	310SS <b>RX</b> 304L SS + PTFE coating		coating	Actual length shall be specified.									
GX	321SS	SX	316L	SS + PTFE	coating	9 "T" I	ength (mm	n)	·				
HX	446SS	ТХ	Incol	oy-800				•,					
IX	A182F304	VX				0 1	45 50 bolow						
JX	Inconel 600	W				1 2	50 below 50 above						
KX	Hastelloy-C	YX					SU above Actual leng	th shall t	oe sp	ecified	I.		
LX	Monel	23		2F321		10. Op	-	,	19				
		ZX	Othe	rs									
	Not available f		r A611 A	612		0	None						
N code is not available for A611, A612 4. Internal connection						<ol> <li>Plug and chain (304SS)</li> <li>Plug and chain (316SS)</li> </ol>							
		1011				2	0	•	<b>5</b> 5)				
0	1⁄2" NPT					5	Velocity co		l				
-	½" PT     6     Velocity color with plug and chain       ½" PF     Note : Actual length shall be specified.												
1						Note	: Actual leng	jth shall b	be sp	ecitied	l.		
2	1⁄2" PF					]					7		
	2	3 <b>BX</b>	4 0	5 <b>A0</b>	6 <b>A(1)</b>	7 DB	8	9		10 <b>1</b>	Sam	nle	

