## Vanstone type thermowell

#### Model: A640 series

Spec. sheet no. AD06-05

#### Service intended

Vanstone type thermowell is produced without any welding process by processing the whole round bar. Since it does not involve any welding process, it is used when high pressure, high velocity fluid and corrosive process media such as penetrating gas exist, and serving to isolate and protect from any leakage. The required flange is not standard and can be provided as an optional extra.



#### 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 woule 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.

Almost any installation of measuring instruments.

The selection of a standard property of the underside of the undersid

#### ■ 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.

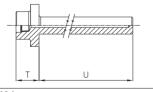
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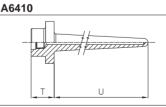
#### ■ Standard "T" length

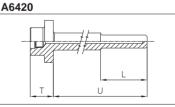
Well size 1½" or DN40 : 40 mm 2" or DN50 : 45 mm

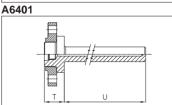
# A6400

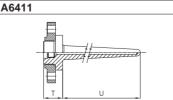
Structure

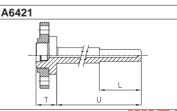














#### Main order

### **Ordering information**

#### 1. Base model

A6400 Straight bar stock

A6401 Straight bar stock with flange

A6410 Tapered bar stock

A6411 Tapered bar stock with flange

A6420 Stepped bar stock

A6421 Stepped bar stock with flange

#### 2. Material of well

вх	304SS	LX	Monel
CX	316SS	MX	Titanium
DX	304L SS	ОХ	A182F316
EX	316L SS	TX	Incoloy-800
FX	310SS	VX	A182F91
GX	321SS	WX	A105
IX	A182F304	YX	A182F11
JX	Inconel 600	23	A182F321
ΚX	Hastelloy-C	ZX	Others

#### 3. Material of flanged

вх	304SS	MX	Titanium
CX	316SS	ОХ	A182F316
DX	304L SS	TX	Incoloy-800
EX	316L SS	VX	A182F91
FX	310SS	WX	A105
GX	321SS	YX	A182F11
IX	A182F304	23	A182F321
JX	Inconel 600	ZX	Others
KX	Hastelloy-C	XX	Not applicable
LX	Monel		

#### 4. Internal connection

1/2" NPT 0

1/2" PT 1

1/2" PF 2

#### 5. Tip outer diameter / Bore size (mm)

			- (	,
Α	14/7	K	19 /	9
В	14/9	L	19 /	10
С	16/7	M	19 /	12
D	16/9	N	21 /	10
Е	16 / 10	0	14 /	8
F	17 / 7	Р	16 /	8
G	17 / 9	Q	17 /	8
Н	17 / 10	R	19 /	8
I	17 / 12	S	21 /	8
J	19/7			

#### 6. Stepped bore size (mm)

None

В 6.5 (Standard)

С Other

#### 7. Well size for flange

С 1"

Ε 11/2"

F 2"

z Other

#### 8. Flange class, sealing face

AC	B16.5 class 150 RF	DI	PN25 RF
AF	B16.5 class 300 RF	DO	PN40 RF
AJ	B16.5 class 600 RF	ΑV	B16.5 class 600 RTJ
AS	B16.5 class 900 RF	AW	B16.5 class 900 RTJ
ΑU	B16.5 class 2,500 RF	AX	B16.5 class 1,500 RTJ
	(Not available 1½" and DN)	AY	B16.5 class 2,500 RTJ
ΑT	B16.5 class 1,500 RF		(Not available 1½" and DN)
DA	PN10 RF	ZZ	Other
DB	PN16 RF	XX	None

#### 9. Insertion length ("U") length (mm)

0	80	6	350	D	800
1	100	7	400	Ε	900
2	150	8	450	F	1,000
3	200	Α	500	Z	Other
4	250	В	600		
5	300	С	700		

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

#### 10. Option

0 None

Plug and chain (304SS)

2 Plug and chain (316SS)

Note: Actual length shall be specified.

A6400

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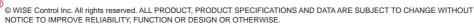






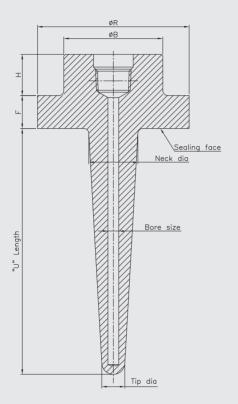


Sample ordering code

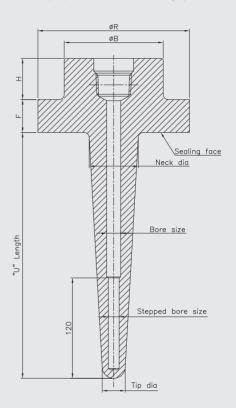


# Standard product drawing

# Straight bore type



# Stepped bore type



		1"	1 1/2"	2"
R		51	73	92
В		33	48	60
	F	15	15	20
Н	~ 150lb	25	25	25
	~ 300lb	30	35	35
	~ 600lb	30	35	40
	~ 1500lb	45	45	60
	~ 2500lb	50	65	70



## **Thermowell**

