

Flanged Type Thermowell

General Description

Flanged type thermowells are precision components manufactured to the highest standard from bar or forgings, to serve as protective devices for primary sensing elements of all types.

A wide range of possible products are available. Conditions of pressure, temperature and corrosion resistance govern the size, shape and selection of materials to ensure optimum dependability system response and accuracy.



Standard Specification Overview

Stem Outdiameter

A wide variety of tube or pipe sizes In a variety of schedules subject to requirements and process conditions.

Material

A wide range of materials are available including 304, 316, 321 stainless steel, 446 Cr-Fe, Carbon Steel, Chromium Steels, Hastelloy C22, C276 and X, Incoloy 800, Inconel 600, Monel 600 and Titanum.

Instrument Connection

Female in NPT. PT. PF or other thread forms.

Process Connection

Connection to the pipe or vessel may be by means of flange All sizes and pressure ratings are available to DIN, BS, ANSI/ASME and KS, JIS or other standards. Flanged connections are now the petrochemical standard for all applications.

Ordering Information for Thermowell

F PF 1/2" A<					● = Standard Products	▲ = Available	NA = No	t Availabl
## Bar-stock Flange Type F	Model	Description						
WF End close tube Flange Type Code Internal thread WV WS W F PF 1/2" A A A T PT 1/2" A A A N NPT 1/2" A A A X Others A A A X Others ANSI / ASME A A K KS / JIS DIN B B B Code Flange Size ANSI / ASME KS / JIS DIN DN 25 B	WV	Vanstone Type	(Made of whole	e round bar without an	y welding process)			
F PF 1/2"	WS	Bar-stock Flar	nge Type					
F PF 1/2" A<	WF	End close tube	Flange Type					
T PT1/2"	Code	Internal threa	d			WV	WS	WF
N NPT 1/2" X Others A A A A A A A A A A A A A A A A A A A	F	PF 1/2"				_	A	A
X	T	PT 1/2"				A	A	A
Code Standard Type A ANSI / ASME K KS / JIS N Code Flange Size ANSI / ASME KS / JIS DIN	N	NPT 1/2"				•	•	•
A ANSI/ASME K KS/JIS D DIN Code Flange Size ANSI/ASME KS/JIS DIN J 1" 25 A DN 25 R 11/2" 40 A DN 40 T 2" 50 A DN 50 V 21/2" W 3" 80 A DN 80 X Others Code Flange Rating ANSI/ASME KS/JIS DIN 2 Class 150 10 K PN 10 3 PN 16 4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 X Others Code Process Connection Style RF RFSF [125-250 AARH]	Х	Others				A	A	A
K	Code	Standard Type						
D DIN Code Flange Size ANSI / ASME KS / JIS DIN J 1" 25 A DN 25 R 1 1/2" 40 A DN 40 T 2" 50 A DN 50 V 2 1/2" - - W 3" 80 A DN 80 X Others Code Flange Rating FRASI / ASME KS / JIS DIN 2 Class 150 10 K PN 10 3 - - PN 16 4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 - - X Others WV WS W FF FF FF A A A RF RFSF (125-250 AARH) A	Α	ANSI / ASME						
Code Flange Size ANSI / ASME KS / JIS DIN J 1" 25 A DN 25 R 1 1/2" 40 A DN 40 T 2" 50 A DN 50 V 2 1/2" - - W 3" 80 A DN 80 X Others V Code Flange Rating ANSI / ASME KS / JIS DIN 2 Class 150 10 K PN 10 V V S 3 - - PN 16 V Class 300 20 K PN 25 V S S S S A	K	KS/JIS						
ANSI / ASME KS / JIS DIN J 1" 25 A DN 25 R 11/2" 40 A DN 40 T 2" 50 A DN 50 V 21/2"	D	DIN						
T	Code	Flange Size						
R 11/2" 40 A DN 40 T 2" 50 A DN 50 V 21/2" W 3" 80 A DN 80 X Others Code Flange Rating		ANSI / ASME	KS/JIS	DIN				
T 2" 50 A DN 50 V 21/2" W 3" 80 A DN 80 X Others Code Flange Rating	J	1"	25 A	DN 25				
V 2 1/2" - - W 3" 80 A DN 80 X Others - - Code Flange Rating ANSI / ASME KS / JIS DIN 2 Class 150 10 K PN 10 3 - - PN 16 4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 - - X Others WW WS W RF RFSF [125~250 AARH] A A A FF FF FF A A A X Others A A <t< td=""><td>R</td><td>1 1/2"</td><td>40 A</td><td>DN 40</td><td></td><td></td><td></td><td></td></t<>	R	1 1/2"	40 A	DN 40				
W 3" 80 A DN 80 X Others Code Flange Rating ANSI / ASME KS / JIS DIN S	T	2"	50 A	DN 50				
X Others Code Flange Rating ANSI / ASME KS / JIS DIN 2 Class 150 10 K PN 10 3 - PN 16 4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 X Others Code Process Connection Style WV WS W RF RFSF (125~250 AARH) A A A A A A A A A A A A A A A A A A A	V	2 1/2"	-	-				
Code Flange Rating ANSI / ASME KS / JIS DIN 2 Class 150 10 K PN 10 3 - - PN 16 4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 - - X Others WV WS W Code Process Connection Style WV WS W RF RFSF (125~250 AARH) A A A X Others A A A	W	3"	80 A	DN 80				
ANSI / ASME KS / JIS DIN 2 Class 150 10 K PN 10 3 PN 16 4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 X Others Code Process Connection Style RF RFSF (125~250 AARH)	Χ	Others						
2 Class 150 10 K PN 10 3 PN 16 4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 X Others Code Process Connection Style RF RFSF (125~250 AARH) FF FF RJ RTJ X Others Code Flange Meterial 4S 304 SS 6S 316/316L SS 4 A A	Code	Flange Rating						
3 PN 16 4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 X Others Code Process Connection Style RF RFSF (125~250 AARH) FF FF RJ RJ RTJ A A A X Others Code Flange Meterial 4S 304 SS 6S 316/316L SS 4 A A A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A		ANSI / ASME	KS/JIS	DIN				
4 Class 300 20 K PN 25 5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 - - X Others WV WS W RF RFSF (125~250 AARH) A A A FF FF A A A RJ RTJ A A A X Others A A A Code Flange Meterial WV WS W 4S 304 SS A A A 6S 316/316L SS A A A 4L 304 L A A A	2	Class 150	10 K	PN 10				
5 Class 600 30 K PN 40 6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 - - X Others WV WS W RF RFSF (125~250 AARH) A A A FF FF A A A RJ RTJ A A A X Others A A A 4S 304 SS A A A 6S 316/316L SS B Code	3	-	-	PN 16				
6 Class 900 40 K - 7 Class 1500 65 K - 8 Class 2500 X Others Code Process Connection Style RF RFSF (125~250 AARH) FF FF RJ RTJ X Others Code Flange Meterial 4S 304 SS 6S 316/316L SS 4 A A A A A A A A A A A A A A A A A A	4	Class 300	20 K	PN 25				
7 Class 1500 65 K - 8 Class 2500 X Others Code Process Connection Style RF RFSF (125~250 AARH) FF FF RJ RTJ X Others Code Flange Meterial 4S 304 SS 6S 316/316L SS 4L 304 L	5	Class 600	30 K	PN 40				
8 Class 2500 - - X Others Code Process Connection Style RF RFSF (125~250 AARH) A A FF FF A A A RJ RTJ A A A X Others A A A Code Flange Meterial WV WS W 4S 304 SS A A A 6S 316/316L SS Image: Control of the control	6	Class 900	40 K	-				
X Others Code Process Connection Style WV WS W RF RFSF (125~250 AARH) A A A FF FF A A A RJ RTJ A A A A X Others A A A A Code Flange Meterial WV WS W 4S 304 SS A A A 6S 316/316L SS • • • • 4L 304 L A A A A	7	Class 1500	65 K	-				
Code Process Connection Style WV WS W RF RFSF [125~250 AARH] A A A FF FF FF A A A RJ RTJ A A A A A X Others A A A A A A Code Flange Meterial WV WS W 4S 304 SS A A A A 6S 316/316L SS B B B B B 4L 304 L A A A A	8	Class 2500	-	-				
RF RFSF (125~250 AARH) FF FF RJ RTJ X Others Code Flange Meterial 4S 304 SS 6S 316/316L SS 4L 304 L	Χ	Others						
FF FF RJ RTJ X Others Code Flange Meterial 4S 304 SS 6S 316/316L SS 4L 304 L	Code	Process Conne	ection Style			WV	WS	WF
RJ RTJ A <td>RF</td> <td>RFSF (125~250</td> <td>AARH)</td> <td></td> <td></td> <td></td> <td>A</td> <td>A</td>	RF	RFSF (125~250	AARH)				A	A
X Others ▲ ▲ Code Flange Meterial WV WS W 4S 304 SS ▲ ▲ ▲ ▲ 6S 316/316L SS ● ● ● ● ● 4L 304 L ▲ ▲ ▲ ▲ ▲	FF	FF				A	A	A
Code Flange Meterial WV WS W 4S 304 SS ▲ ▲ ▲ 6S 316/316L SS ● ● ● 4L 304 L ▲ ▲ ▲	RJ	RTJ				A	A	A
4S 304 SS	Χ	Others				A	A	A
6S 316/316L SS	Code	Flange Meteria	al			WV	WS	WF
4L 304 L 🔺 🛕	4S	304 SS					A	A
	6S	316/316L SS				•	•	•
15 11005011	4L	304 L				A	A	A
6F A182F316 A	6F	A182F316				A	A	A

4F	A182 F304	A	A	A
MO	Monel	A	A	A
HC	Hastelloy C-276	A	A	A
IN	Inconel 600	A	A	A
IC	Incoloy 800	A	A	A
XX	Others	A	A	A
Code	Well Material	WV	WS	WF
4S	304 SS	A	A	•
6S	316/316L SS	•	•	•
4L	304L	A	A	A
МО	Monel	A	A	A
НС	Hastelloy C-276	A	A	A
IN	Inconel 600	A	A	•
IC	Incoloy 800	A	A	A
XX	Others	A	A	A
Code	"T" Lagging length (mm)	WV	WS	WF
45	45mm (STD)	•	•	•
50	50mm	A	A	A
55	55mm	A	A	A
75	75mm	A	A	A
XX	Others	A	A	A
Code	"U" Insertion Length (mm)	WV	WS	WF
0100	100mm	A	A	•
0150	150mm	A	A	A
0200	200mm	A	A	A
0250	250mm	A	A	A
0300	300mm	A	A	A
ZZZZ	Others	A	A	A
Code	Туре	WV	WS	WF
T	Tapered	•	•	•
S	Straight	A	A	•
Р	Stepped	A	A	A
Code	Bore diameter	WV	WS	WF
07	7mm	•	•	•
09	9mm	A	A	A
10	10mm	A	A	A
Χ	Others	A	A	A
Code	Tip diameter	WV	WS	WF
14	14	A	A	•
16	16	A	A	A
17	17	A	A	A
19	19	A	A	A
	Others			

Code	Root diameter	WV	WS	WF
14	14	A	A	A
16	16	A	A	A
17	17	A	A	A
19	19	A	A	A
20	20	A	A	A
21	21	A	A	A
23	23	A	A	A
25	25	A	A	A
XS	Others	A	A	A
Code	Option	WV	WC	WF
0	None	•	•	•
Α	Chain & Plug (304 SS)	A	A	A
В	Chain & Plug (316 SS)	A	A	A
L	PTFE Lining	A	A	A
Р	PTFE Coating	A	A	A
T	Tantalum Clad	A	A	A
С	Stellite coating	A	A	A
В	Buffing # 300	A	A	A
Н	Helium leak test	A	A	A
D	Dye penetration test	A	A	A
Χ	X-Ray Inspection	A	A	A
Р	hydrastatic pressure test	A	A	A
М	Macro test	A	A	A
FP	Full Penetration Welding	A	A	A
BS	Both Side Welding	A	A	A

Sample Model Selection: WSFJ15RFSSSS450250T0743

* The standard specification and price are subject to change without prior notice