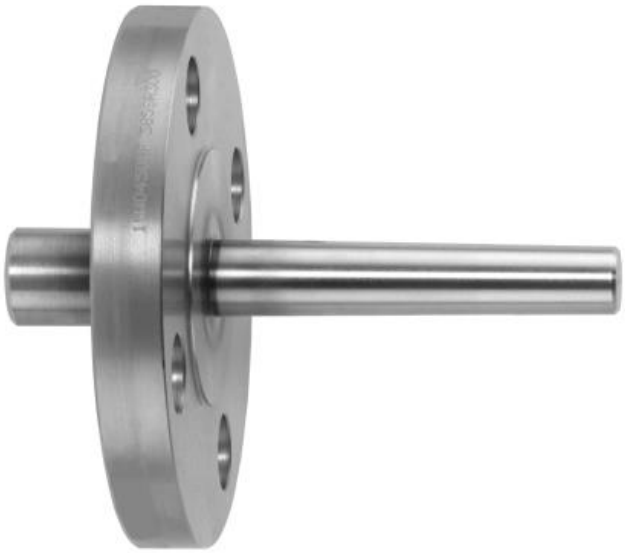
Flanged Thermowells
Model SF, RF and HF

According ANSI/ASME or DIN 43772



Features

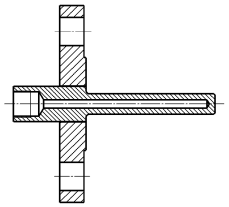
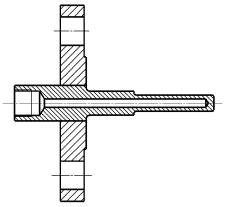
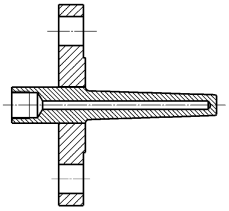
- Solid bore construction
- Materials according ISO 15156/NACE MR 01-75
- Selection of materials
- Standard and customer specifications
- DIN and ANSI/ASME process connections

Ratings

DIN up to PN100
ANSI/ASME up to 2500 lb/sq. in.

Applications

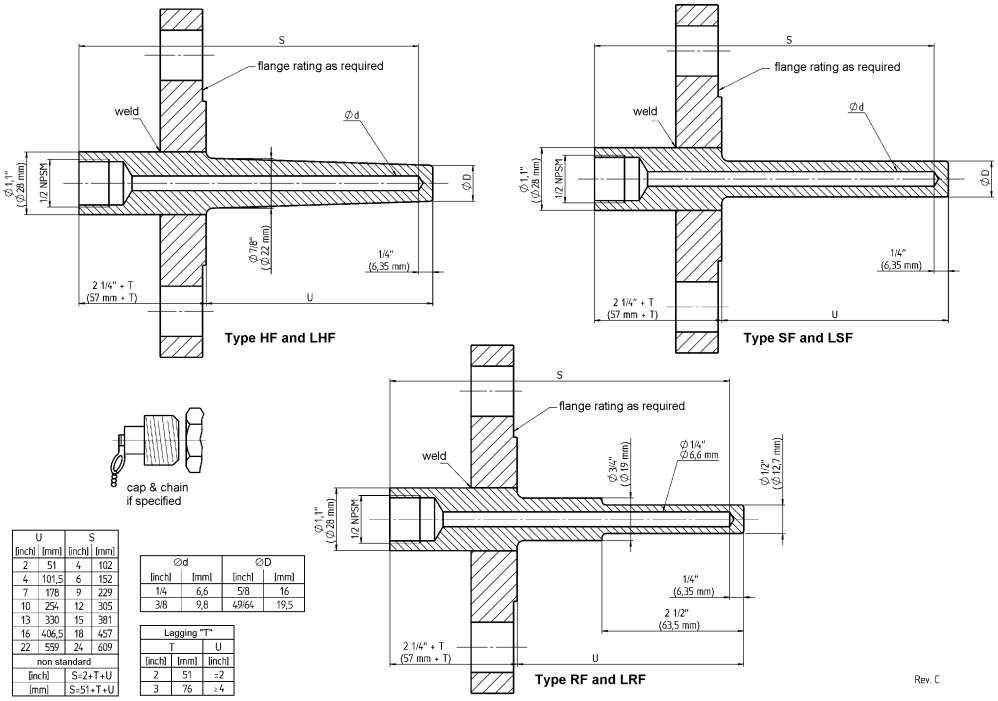
Chemical and petrochemical industry
Machine and apparatus construction
Food and beverage industry
Pulp and paper industry

Technical specification	SF	LSF	RF	LRF	HF	LHF
Solid bore design						
	Shank solid bore, flange welded on shank standard. Optional one piece design, built up design or to customer specification					
Construction shank	Straight		Stepped		Tapered	
Lagging	No	Yes	No	Yes	No	Yes
Standard lengths	3" (75 mm), others on request					
Standard U-length in inch	2	4	7	10	13	16	22
in mm	51	101,5	178	254	330	406,5	559
	Optional to customer specification					
Bore diameter in inch	0,260	0,385 [1]				
in mm	6,6	8,5 [1]	9,8 [1]	10,5 [1]		
	Others on request, see coding table					
Pressure rating	Depending on flange rating					
Process connection						
DIN						
Size	DN25, DN40, DN50, DN80, DN100, others on request					
Pressure class	PN10, PN16, PN25, PN40, PN64, PN100, others on request					
ANSI/ASME						
Size in inch	1, 1½, 2, 3, 4, others on request					
Pressure class in lb/sq. in.	150, 300, 600, 900, 1500, 2500					
Facing	R (raised face), F (flat face) [1], J (ring joint type)					
	Other forms, connections or standards are available on request					
Instrument connection	½ NPSM female standard, optional ½ NPT female or G ½ female					
Material	Stainless steel 304 (1.4301), 304L (1.4306), 316 (1.4401), 316L (1.4404), 316Ti (1.4571) Monel, Hastelloy B, Hastelloy C, Inconel, Tantalum, Duplex, Nickel Other materials or coatings on request					
Certifications & tests	Material certificate DIN EN 10 204 3.1, Hydrostatic test, dye penetration test, X-ray, Hardness test, ISO 15156/NACE certificate, stress calculation according to ASME Power Test Code 19.3 or Design Memo No. T/115					
Accessories, options	Thermometers, Pt-100, thermocouples					

[1] not for types RF and LRF

[1] only for < 2500 lb/sq. in. and < 3"

General dimensions in inch (mm)



U [inch]	U [mm]	S [inch]	S [mm]
2	51	4	102
4	101,5	6	152
7	178	9	229
10	254	12	305
13	330	15	381
16	406,5	18	457
22	559	24	609
non standard			
[inch]	S=2+T+U		
[mm]	S=51+T+U		

Ød [inch]	Ød [mm]	ØD [inch]	ØD [mm]
1/4	6,6	5/8	16
3/8	9,8	49/64	19,5

Lagging "T"		
T [inch]	T [mm]	U [inch]
2	51	=2
3	76	≥4

Order information

Process connection	U-length	Instrument connection	Lagging	Shank type	Bore diameter	Material [1]	Flange facing	Pressure rating	Options
(10) 1" **(DN25)** DN25 **(15)** 1 ½" **(DN40)** DN40 **(20)** 2" **(DN50)** DN50 **(30)** 3" **(DN80)** DN80 **(40)** 4" **(DN100)** DN100 others on request	**Inch dimension** **(0200)** 2" **(0400)** 4" **(0700)** 7" **(1000)** 10" **(1300)** 13" **(1600)** 16" **(2200)** 22" **MM dimension (... mm)** length in mm others on request	**All connections are female** **(=)** ½ NPSM **(2)** ½ NPT **(51)** G ½ others on request	**(=)** No lagging **(L)** With lagging (standard 3" (75mm), other lengths to be specified in [inch] or [mm])	**(HF)** Standard with Welded Flange Tapered Shank **(SF)** Welded Flange Straight Shank **(RF)** Welded Flange Stepped Shank (only bore 0,260 (6,6mm)) other construction such as: Solid machined, built up and to customer specification on request	**Inch dimensions** **(260)** 0,260" (6,6 mm) **(385)** 0,385" [1] (9,8 mm) others on request **MM dimension (... mm)** standard 6,6 mm 8,5 mm [1] 9,8 mm [1] 10,5 mm [1] [1] not for type SM, LSM, RT and LRT others on request	**(C)** 304 (1.4301) **(CL)** 304L (1.4306) **(S)** 316 (1.4401) **(SL)** 316L (1.4404) **(M)** Monel **(H)** Hastelloy C **(N)** Nickel **(J)** Duplex [1] flange material is the same as the shank material unless specified with code (FL.), see options others on request	**ANSI Flange** **(R)** Raised face **(F)** Flat face [1] **(J)** Ring joint type [1] only for **< 2500 lbs and < 3"** **DIN flange** the flange facing depends on the process connection (nominal size and nominal pressure) others on request	**ANSI Flange** **150** **300** **600** **900** **1500** **2500** **DIN flange** **PN10** **PN16** **PN25** **PN40** **PN64** **PN100**	**(NF)** Tagging stamped **(2)** Cap & chain stainless steel **(BP)** Buffed and polished **(FL.)** Specify flange as per material code (e.g. FLM flange material Monel) **(CD5)** NACE certificate **(W2)** Dye penetration test **(MQ)** PMI test **(YR…)** X-ray photo **Material certificates acc. DIN EN 10 204** **(CD2)** 2.2 **(C3)** 3.1 **Hydrostatic internal pressure test** **(W9)** 100 bar 1 min. **(W4)** To customer specification

Order example

Process connection	Type	U-length	Instrument connection	Lagging	Shank type	Bore diameter	Material	Flange facing	Pressure rating	Options
10	W	0400	=	L	HF	260	SL	R	150	X NF

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