

Sphons & Thermowells



ROKE

Valves ,Fittings and Tubing

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Sphons

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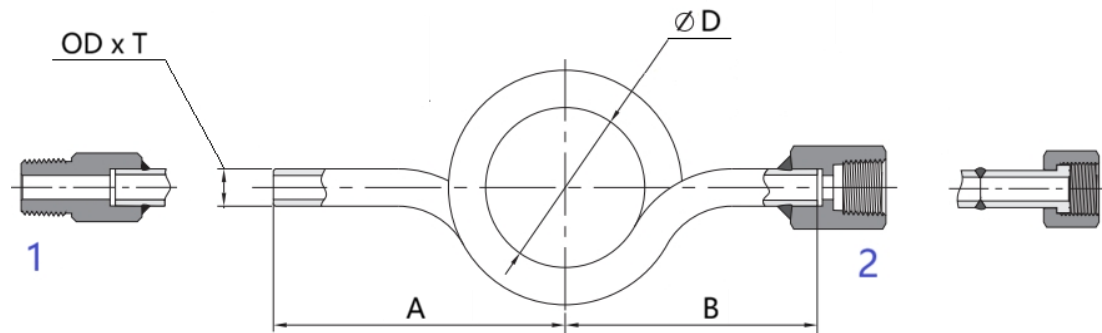
Sphons

Features

- ◉ Max Working pressure: 6000 psig (414 bar).
- ◉ Maximum working temperature: 850 °F (454 °C).
- ◉ Standard materials are 316 SS and 304 SS, other materials are available upon request.

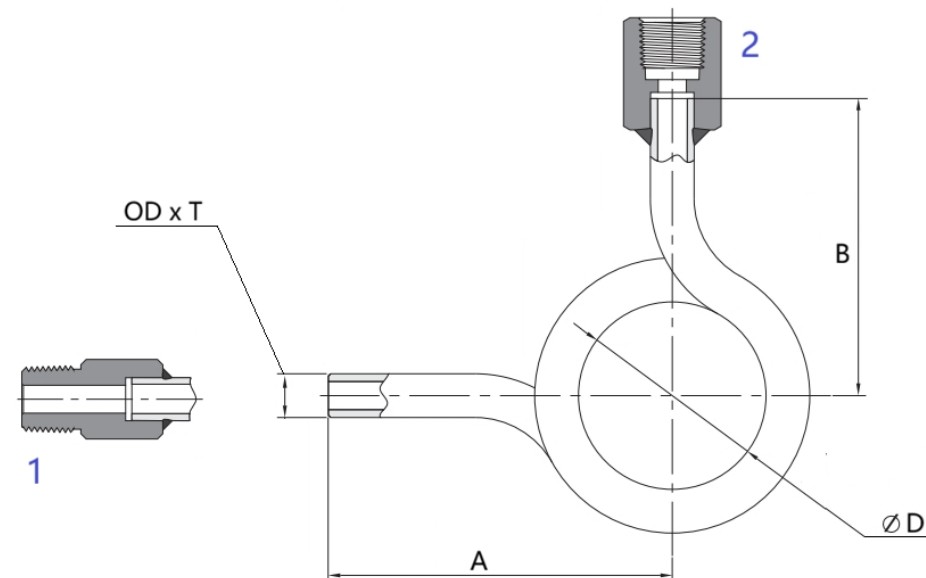
Types and Dimensions

1. SWS Series



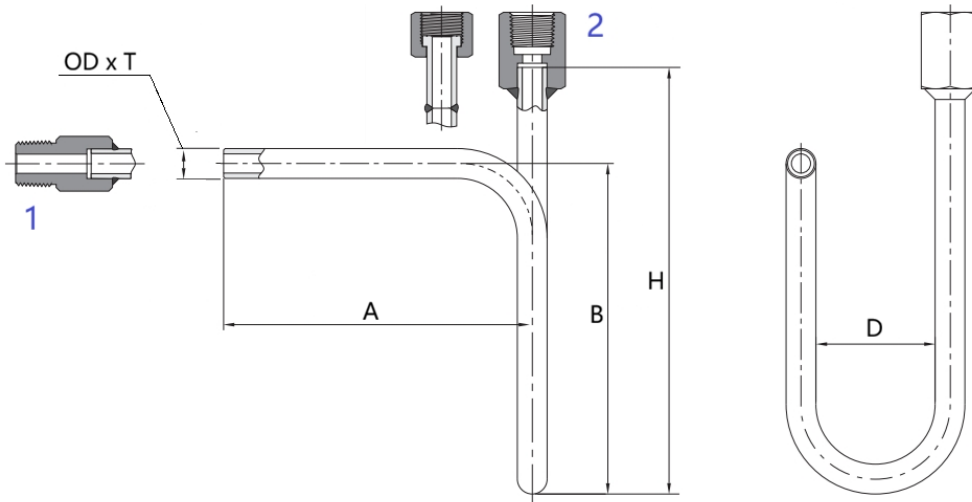
No.	OD x T	D	A	B	Working pressure
1	14 x 1.5	60	110	95	3000 psig (207 bar)
2	14 x 2.5	60	110	95	6000 psig (414 bar)

2. LWS Series



No.	OD x T	D	A	B	Working pressure
1	14 x 1.5	60	110	95	3000 psig (207 bar)
2	14 x 2.5	60	110	95	6000 psig (414 bar)

3. UWS Series



No.	OD x T	D	A	B	H	Working pressure
1	14 x 1.5	56	110	155	200	3000 psig (207 bar)
2	14 x 2.5	56	110	155	200	6000 psig (414 bar)

Ordering Information

Add the material designator as prefix to the basic ordering number (SS for 316 SS, S4 for 304 SS)

Add the work pressure code as suffix to the basic ordering number (-3 for 3000 psig, -6 for 6000 psig)

Cock End 1	Process End 2	SWS Series	LWS Series	UWS Series
1/4 NPT Male	1/2 NPT Female	-SWS-MN4-FN8-	-LWS-MN4-FN8-	-UWS-MN4-FN8-
1/2 NPT Male	1/2 NPT Female	-SWS-MN8-FN8-	-LWS-MN8-FN8-	-UWS-MN8-FN8-
1/4 NPT Female	1/2 NPT Female	-SWS-FN4-FN8-	-LWS-FN4-FN8-	-UWS-FN4-FN8-
1/2 NPT Female	1/2 NPT Female	-SWS-FN8-FN8-	-LWS-FN8-FN8-	-UWS-FN8-FN8-
1/4 ISO Parallel Male	1/2 NPT Female	-SWS-MG4-FN8-	-LWS-MG4-FN8-	-UWS-MG4-FN8-
1/2 ISO Parallel Male	1/2 NPT Female	-SWS-MG8-FN8-	-LWS-MG8-FN8-	-UWS-MG8-FN8-
1/4 ISO Parallel Female	1/2 ISO Parallel Female	-SWS-FG4-FN8-	-LWS-FG4-FN8-	-UWS-FG4-FN8-
1/2 ISO Parallel Female	1/2 ISO Parallel Female	-SWS-FG8-FN8-	-LWS-FG8-FN8-	-UWS-FG8-FN8-
M14*1.5 Male	1/2 NPT Female	-SWS-MM14-FN8-	-LWS-MM14-FN8-	-UWS-MM14-FN8-
M20*1.5 Male	1/2 NPT Female	-SWS-MM20-FN8-	-LWS-MM20-FN8-	-UWS-MM20-FN8-
M14*1.5 Male	M20*1.5 Female	-SWS-MM14-FM20-	-LWS-MM14-FM20-	-UWS-MM14-FM20-
M20*1.5 Male	M20*1.5 Female	-SWS-MM20-FM20-	-LWS-MM20-FM20-	-UWS-MM20-FM20-
M14*1.5 Male	Rotating M20*1.5 Female	-SWS-MM14-FMS20-	-LWS-MM14-FMS20-	-UWS-MM14-FMS20-
M20*1.5 Male	Rotating M20*1.5 Female	-SWS-MM20-FMS20-	-LWS-MM20-FMS20-	-UWS-MM20-FMS20-
M14*1.5 Female	Rotating 1/2 ISO Paralle Female	-SWS-FM14-FGS8-	-LWS-FM14-FGS8-	-UWS-FM14-FGS8-
M20*1.5 Female	Rotating 1/2 ISO Paralle Female	-SWS-FM20-FGS8-	-LWS-FM20-FGS8-	-UWS-FM20-FGS8-
Ø 14*1.5 Tube	M20*1.5 Female	-SWS-MT14-FM20-3	-LWS-MT14-FM20-3	-UWS-MT14-FM20-3
Ø 14*2.5 Tube	M20*1.5 Female	-SWS-MT14-FM20-6	-LWS-MT14-FM20-6	-UWS-MT14-FM20-6
Ø 14*1.5 Tube	Ø 14*1.5 Tube	-SWS-MT14-MT14-3	-LWS-MT14-MT14-3	-UWS-MT14-MT14-3
Ø 14*2.5 Tube	Ø 14*2.5 Tube	-SWS-MT14-MT14-6	-LWS-MT14-MT14-6	-UWS-MT14-MT14-6

Thermowells

Features

- ROKE thermowells provide reliable heat-transmission performance under high temperature, high pressure, and corrosive conditions.
- Rugged mechanical construction ensures resistance to distortion under sharp temperature fluctuation conditions.
- Straight, stepped, and tapered shank designs are available.
- Standard instrument connection is 1/2 NPT, other connections are available on request.
- Materials include 316 SS, 304 SS, 321 SS, F91, F92, 316H SS, carbon steel, brass, titanium, alloy C-276 and alloy 400.

Velocity Ratings

When selecting a thermowell, take maximum fluid velocity rating into consideration to avoid failure due to resonance vibration, as well as connection type, insertion length, and bore diameter.

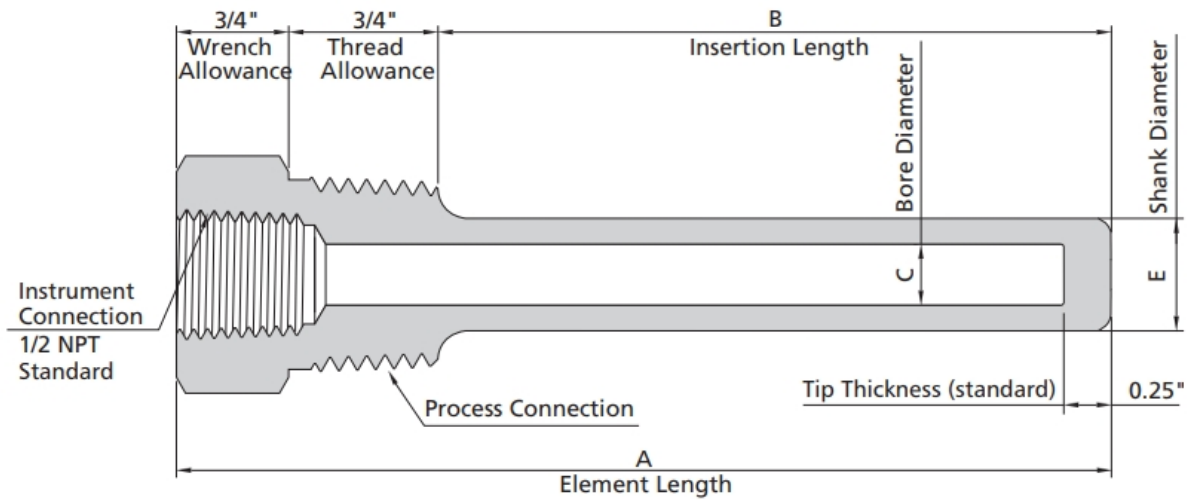
Please refer to the table below for the maximum fluid velocities:

Maximum Fluid Velocities (ft/sec)

Shank Style	Root Dia	Material	Immersion Length							
			2.5"	4.5"	7.5"	10.5"	13.5"	16.5"	19.5"	22"
Straight	Any	316/304SS	360/349	199	71.9	36.6	21.2	14.8	10.7	8.0
		Monel	316/320	178/189	68.1	34.8	20.8	14.0	10.0	7.5
		Carbon Steel	260/326	144/192	69.5	35.4	20.5	14.3	10.3	7.7
		Brass	145/290	80/150	48/54.1	27.6	16.7	11.1	8.0	6.0
Stepped	3/4	316/304SS	148/300	99.3/128	46.4	23.6	14.3	9.6	6.9	5.1
		Monel	118/261	79.8/112	40.6	20.7	12.4	8.3	6.1	4.5
		Carbon Steel	106/290	71.2/123	42.7/45	22.8	13.8	9.3	6.7	4.9
		Brass	59.3/207	39.8/89	23.9/32.3	16.4	9.9	6.6	4.8	3.6
	7/8	316/304SS	148/300	117/148	53.5	27.2	16.5	11.0	7.9	5.9
		Monel	118/261	99.3/128	46.7	23.7	14.4	9.5	6.9	5.1
		Carbon Steel	106/290	84.3/143	51.6/50.6	26.2	15.9	10.6	7.6	5.7
		Brass	59.3/207	47.6/102	37/28	18.8	11.4	7.6	5.6	4.1
Tapered	Any	316/304SS	350/483	208/272	97.3	49.7	30.4	20.3	14.5	10.7
		Monel	300/396	167/214	77.5	39.2	23.8	16.0	10.3	7.7
		Carbon Steel	270/410	150/249	90.3	45.6	27.8	18.5	13.2	9.8

TW series

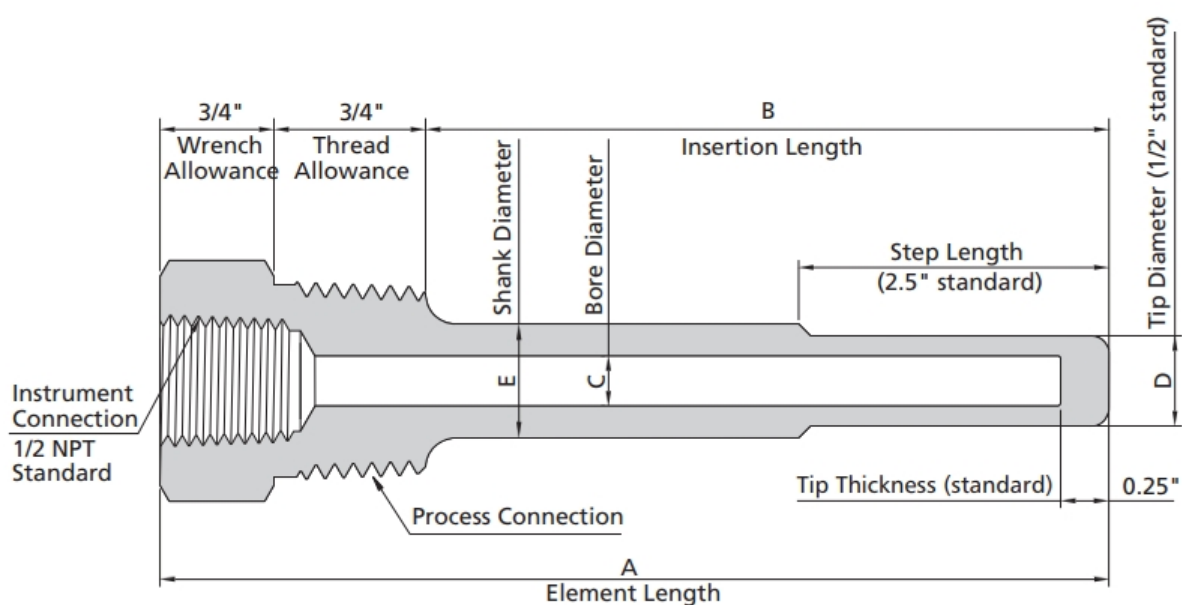
Straight



Dimensions

Ordering Number	Instrument Connection	Process Connection	Dimension, in. (mm)			
			A	B	C	E
-TW-ST-FN12-4-4	1/2 NPT Standard	3/4 NPT	4.0 (101.6)	2.5 (63.5)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN12-6-4			6.0 (152.4)	4.5 (114.3)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN12-9-4			9.0 (228.6)	7.5 (190.5)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN12-12-4			12.0 (304.8)	10.5 (266.7)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN12-15-4			15.0 (381)	13.5 (342.9)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN12-18-4			18.0 (457.2)	16.5 (419.1)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN12-24-4			24.0 (609.6)	22.5 (571.5)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN12-6-5		1 NPT	6.0 (152.4)	4.5 (114.3)	0.41 (10.5)	0.75 (19.0)
-TW-ST-FN12-9-5			9.0 (228.6)	7.5 (190.5)	0.41 (10.5)	0.75 (19.0)
-TW-ST-FN16-4-4			4.0 (101.6)	2.5 (63.5)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN16-6-4			6.0 (152.4)	4.5 (114.3)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN16-9-4			9.0 (228.6)	7.5 (190.5)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN16-12-4			12.0 (304.8)	10.5 (266.7)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN16-15-4			15.0 (381)	13.5 (342.9)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN16-18-4			18.0 (457.2)	16.5 (419.1)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN16-24-4			24.0 (609.6)	22.5 (571.5)	0.39 (9.8)	0.75 (19.0)
-TW-ST-FN16-6-5			6.0 (152.4)	4.5 (114.3)	0.41 (10.5)	0.75 (19.0)
-TW-ST-FN16-9-7			9.0 (228.6)	7.5 (190.5)	0.66 (16.6)	1.06 (27.0)

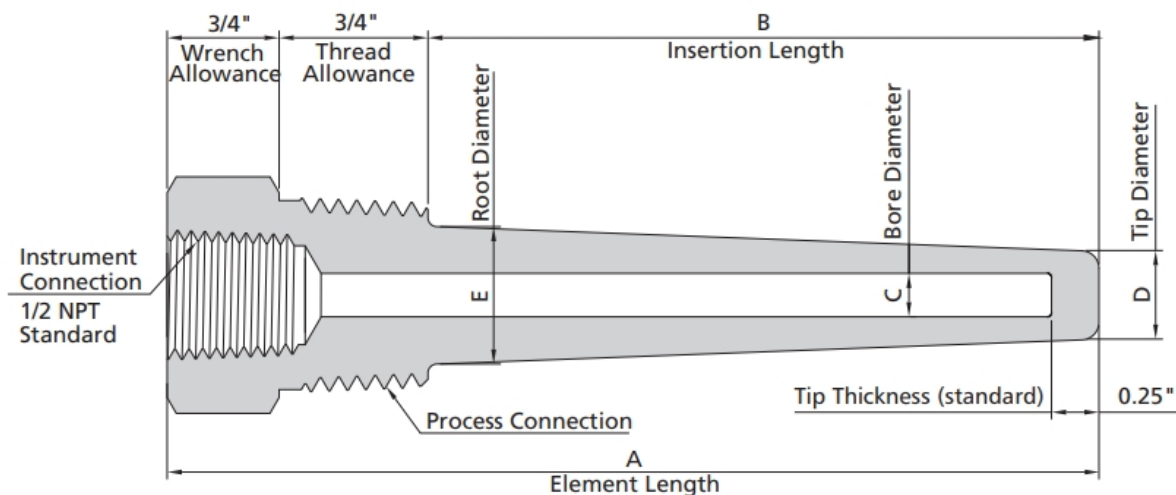
Stepped



Dimensions

Ordering Number	Instrument Connection	Process Connection	Dimension, in. (mm)			
			A	B	C	E
-TW-SP-FN8-4-3	1/2 NPT Standard	1/2 NPT	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.63 (16.0)
-TW-SP-FN8-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.63 (16.0)
-TW-SP-FN8-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.63 (16.0)
-TW-SP-FN8-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.63 (16.0)
-TW-SP-FN8-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.63 (16.0)
-TW-SP-FN8-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.63 (16.0)
-TW-SP-FN8-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.63 (16.0)
-TW-SP-FN12-4-3		3/4 NPT	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)
-TW-SP-FN12-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)
-TW-SP-FN12-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)
-TW-SP-FN12-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)
-TW-SP-FN12-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)
-TW-SP-FN12-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)
-TW-SP-FN12-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)
-TW-SP-FN16-4-3		1 NPT	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.88 (22.3)
-TW-SP-FN16-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.88 (22.3)
-TW-SP-FN16-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.88 (22.3)
-TW-SP-FN16-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.88 (22.3)
-TW-SP-FN16-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.88 (22.3)
-TW-SP-FN16-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.88 (22.3)
-TW-SP-FN16-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.88 (22.3)

Tapered

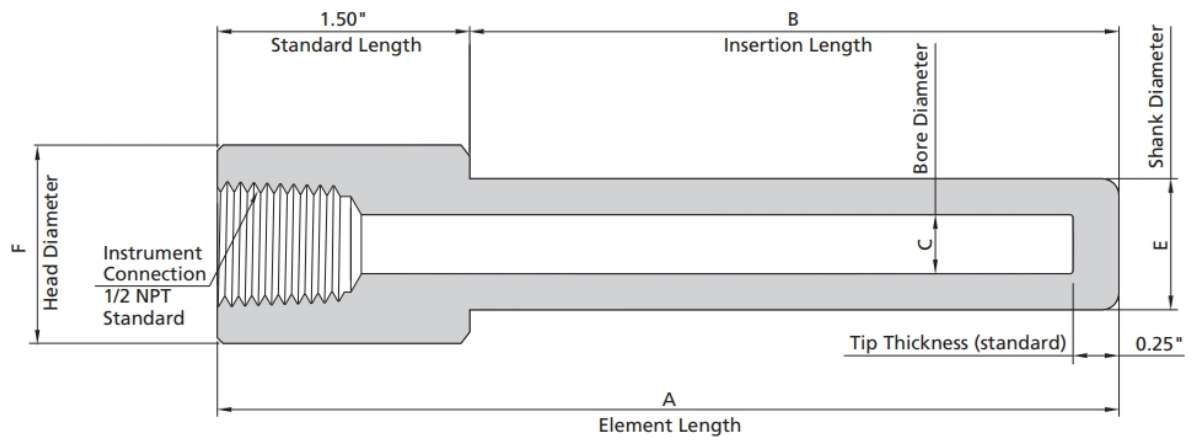


Dimensions

Ordering Number	Instrument Connection	Process Connection	Dimension, in. (mm)				
			A	B	C	D	E
-TW-TP-FN12-4-3	1/2 NPT Standard	3/4 NPT	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.63 (16.0)	0.88 (22.3)
-TW-TP-FN12-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.63 (16.0)	0.88 (22.3)
-TW-TP-FN12-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.63 (16.0)	0.88 (22.3)
-TW-TP-FN12-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.63 (16.0)	0.88 (22.3)
-TW-TP-FN12-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.63 (16.0)	0.88 (22.3)
-TW-TP-FN12-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.63 (16.0)	0.88 (22.3)
-TW-TP-FN12-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.63 (16.0)	0.88 (22.3)
-TW-TP-FN12-4-4		3/4 NPT	4.0 (101.6)	2.5 (63.5)	0.39 (9.8)	0.75 (19.0)	0.88 (22.3)
-TW-TP-FN12-6-4			6.0 (152.4)	4.5 (114.3)	0.39 (9.8)	0.75 (19.0)	0.88 (22.3)
-TW-TP-FN12-9-4			9.0 (228.6)	7.5 (190.5)	0.39 (9.8)	0.75 (19.0)	0.88 (22.3)
-TW-TP-FN12-12-4			12.0 (304.8)	10.5 (266.7)	0.39 (9.8)	0.75 (19.0)	0.88 (22.3)
-TW-TP-FN12-15-4			15.0 (381)	13.5 (342.9)	0.39 (9.8)	0.75 (19.0)	0.88 (22.3)
-TW-TP-FN12-18-4			18.0 (457.2)	16.5 (419.1)	0.39 (9.8)	0.75 (19.0)	0.88 (22.3)
-TW-TP-FN12-24-4			24.0 (609.6)	22.5 (571.5)	0.39 (9.8)	0.75 (19.0)	0.88 (22.3)
-TW-TP-FN16-4-3		1 NPT	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.63 (16.0)	1.06 (27.0)
-TW-TP-FN16-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.63 (16.0)	1.06 (27.0)
-TW-TP-FN16-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.63 (16.0)	1.06 (27.0)
-TW-TP-FN16-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.63 (16.0)	1.06 (27.0)
-TW-TP-FN16-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.63 (16.0)	1.06 (27.0)
-TW-TP-FN16-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.63 (16.0)	1.06 (27.0)
-TW-TP-FN16-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.63 (16.0)	1.06 (27.0)
-TW-TP-FN16-4-4		1 NPT	4.0 (101.6)	2.5 (63.5)	0.39 (9.8)	0.75 (19.0)	1.06 (27.0)
-TW-TP-FN16-6-4			6.0 (152.4)	4.5 (114.3)	0.39 (9.8)	0.75 (19.0)	1.06 (27.0)
-TW-TP-FN16-9-4			9.0 (228.6)	7.5 (190.5)	0.39 (9.8)	0.75 (19.0)	1.06 (27.0)
-TW-TP-FN16-12-4			12.0 (304.8)	10.5 (266.7)	0.39 (9.8)	0.75 (19.0)	1.06 (27.0)
-TW-TP-FN16-15-4			15.0 (381)	13.5 (342.9)	0.39 (9.8)	0.75 (19.0)	1.06 (27.0)
-TW-TP-FN16-18-4			18.0 (457.2)	16.5 (419.1)	0.39 (9.8)	0.75 (19.0)	1.06 (27.0)
-TW-TP-FN16-24-4			24.0 (609.6)	22.5 (571.5)	0.39 (9.8)	0.75 (19.0)	1.06 (27.0)

TS series

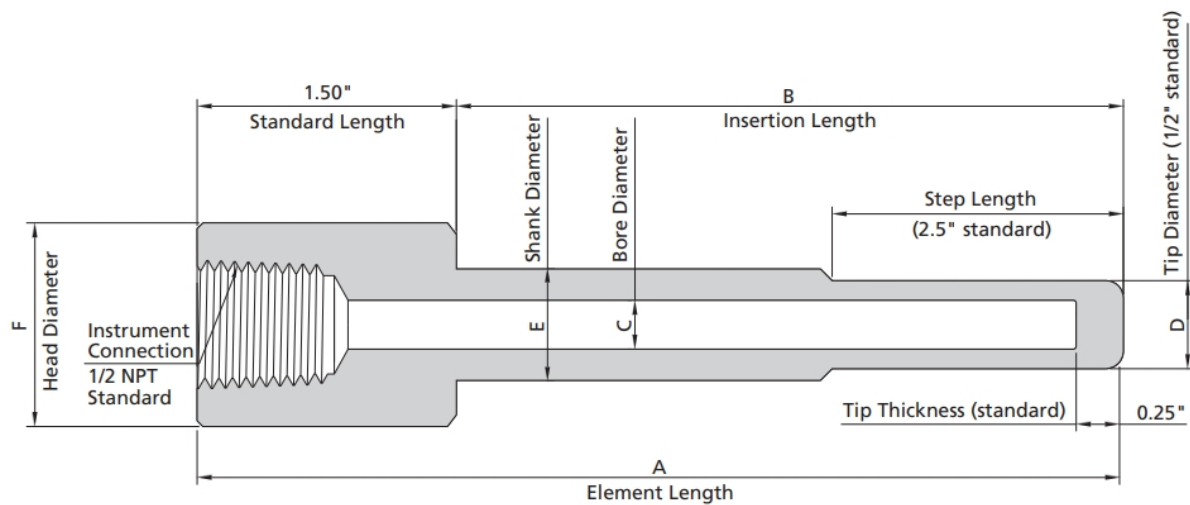
Straight



Dimensions

Ordering Number	Instrument Connection	Dimension, in. (mm)				
		A	B	C	E	F
-TS-ST-4-3-8	1/2 NPT Standard	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-ST-6-3-8		6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-ST-9-3-8		9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-ST-12-3-8		12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-ST-15-3-8		15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-ST-18-3-8		18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-ST-24-3-8		24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-ST-4-3-9	1/2 NPT Standard	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-ST-6-3-9		6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-ST-9-3-9		9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-ST-12-3-9		12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-ST-15-3-9		15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-ST-18-3-9		18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-ST-24-3-9		24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)

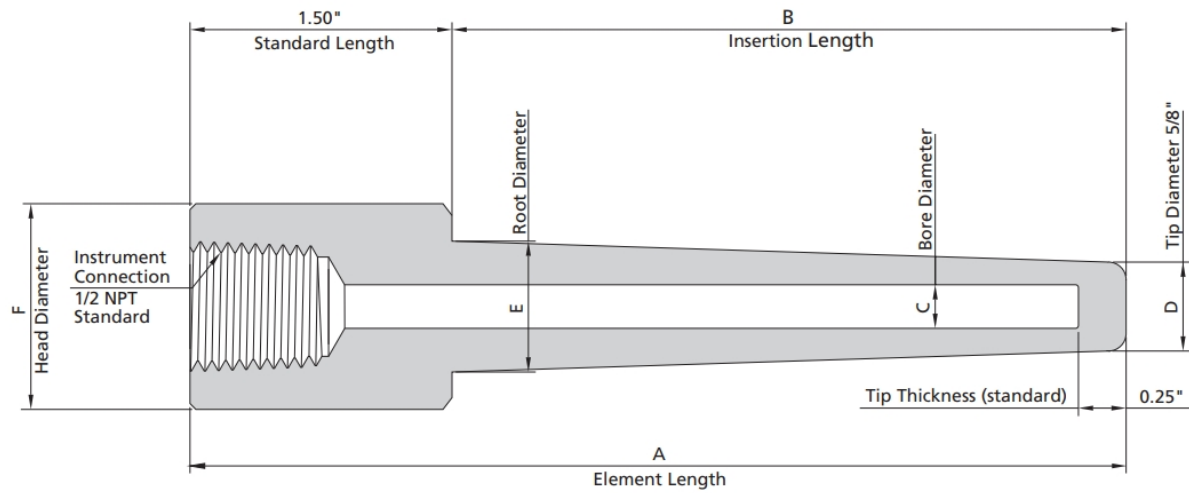
Stepped



Dimensions

Ordering Number	Instrument Connection	Dimension, in. (mm)				
		A	B	C	E	F
-TS-SP-4-3-8	1/2 NPT Standard	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-SP-6-3-8		6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-SP-9-3-8		9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-SP-12-3-8		12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-SP-15-3-8		15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-SP-18-3-8		18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-SP-24-3-8		24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-SP-4-3-9	1/2 NPT Standard	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-SP-6-3-9		6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-SP-9-3-9		9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-SP-12-3-9		12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-SP-15-3-9		15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-SP-18-3-9		18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)
-TS-SP-24-3-9		24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.88 (22.3)	1.32 (33.5)

Tapered

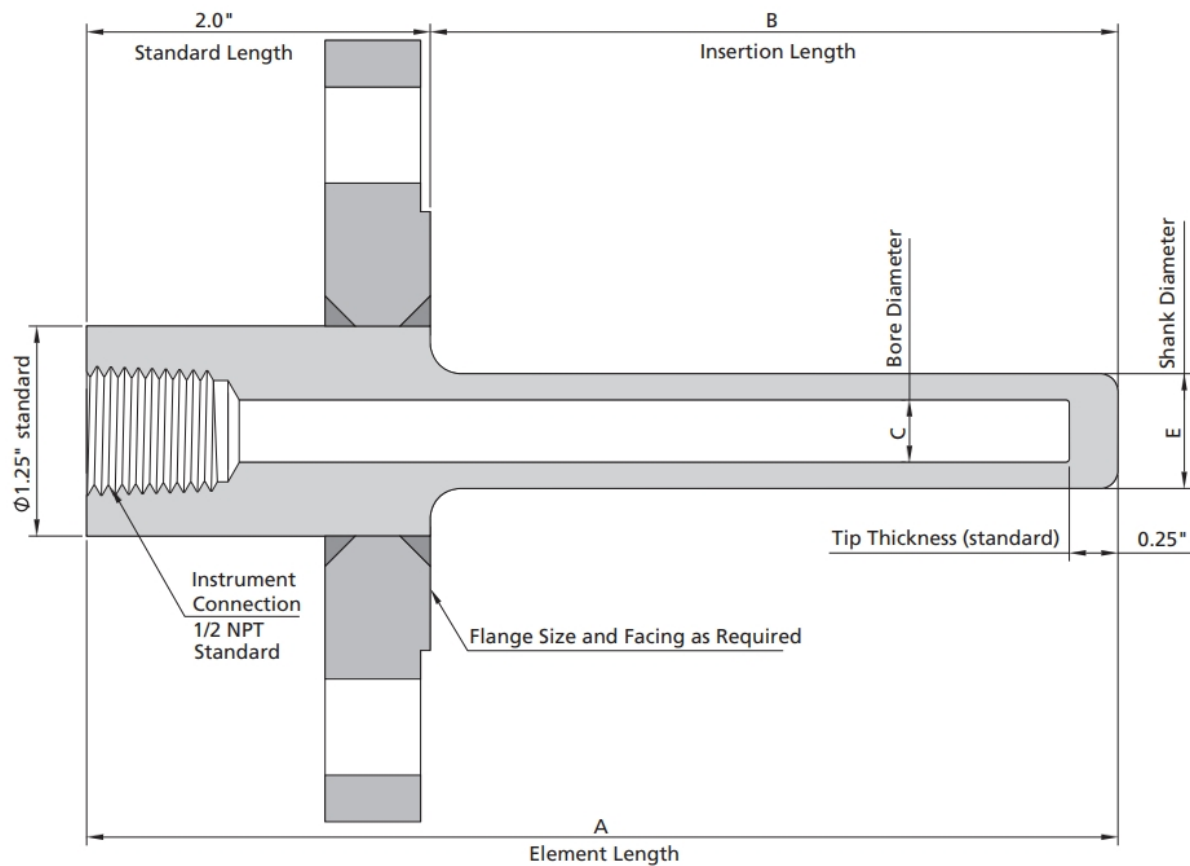


Dimensions

Ordering Number	Instrument Connection	Dimension, in. (mm)				
		A	B	C	E	F
-TS-TP-4-3-8	1/2 NPT Standard	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-TP-6-3-8		6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-TP-9-3-8		9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-TP-12-3-8		12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-TP-15-3-8		15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-TP-18-3-8		18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-TP-24-3-8		24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)	1.06 (27.0)
-TS-TP-4-3-10	1/2 NPT Standard	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	1.06 (27.0)	1.32 (33.5)
-TS-TP-6-3-10		6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	1.06 (27.0)	1.32 (33.5)
-TS-TP-9-3-10		9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	1.06 (27.0)	1.32 (33.5)
-TS-TP-12-3-10		12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	1.06 (27.0)	1.32 (33.5)
-TS-TP-15-3-10		15.0 (381)	13.5 (342.9)	0.26 (6.6)	1.06 (27.0)	1.32 (33.5)
-TS-TP-18-3-10		18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	1.06 (27.0)	1.32 (33.5)
-TS-TP-24-3-10		24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	1.06 (27.0)	1.32 (33.5)

TF series

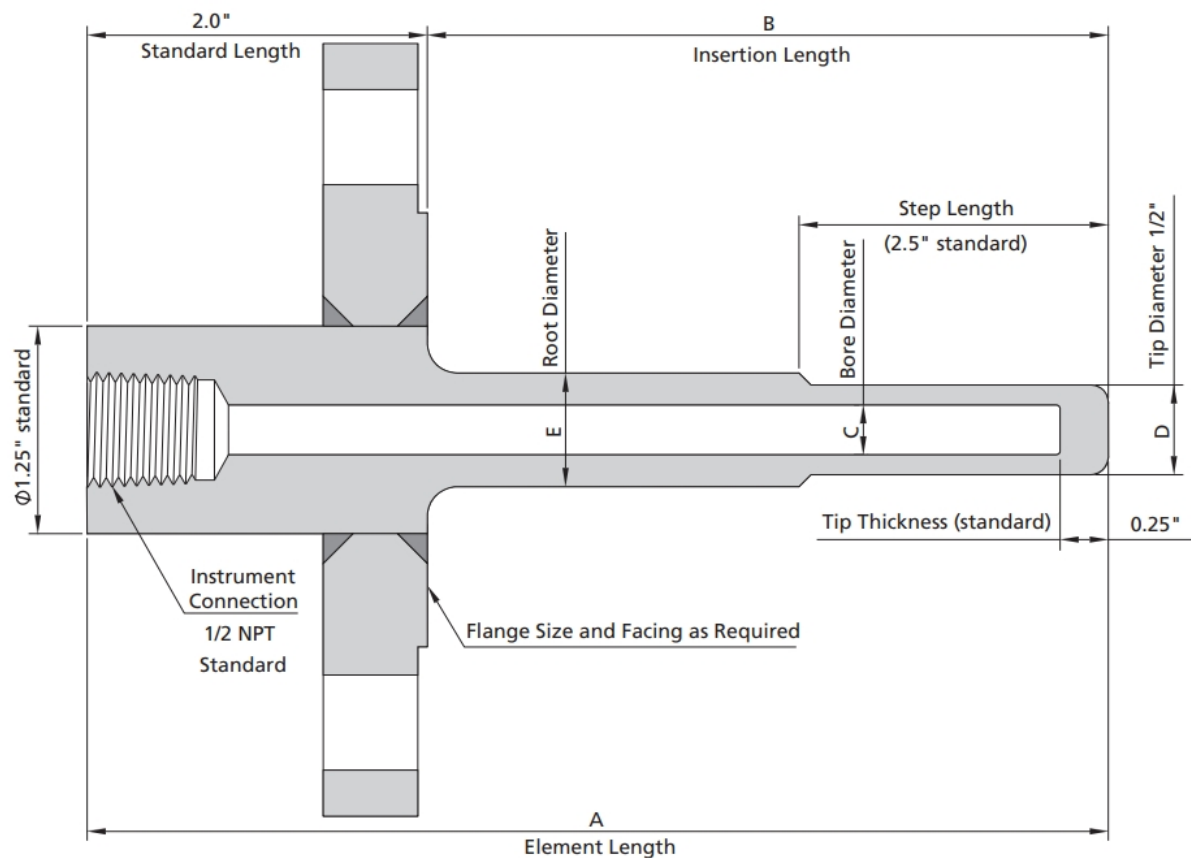
Straight



Dimensions

Ordering Number	Instrument Connection	Process Connection	Dimension, in. (mm)			
			A	B	C	E
-TF-ST-F16-4-3	1/2 NPT Standard	1 Flange Raised Face ANSI Class 150	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)
-TF-ST-F16-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)
-TF-ST-F16-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)
-TF-ST-F16-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)
-TF-ST-F16-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)
-TF-ST-F16-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)
-TF-ST-F16-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)
-TF-ST-F16-4-4	1/2 NPT Standard	1 Flange Raised Face ANSI Class 150	4.0 (101.6)	2.5 (63.5)	0.39 (9.8)	0.88 (22.3)
-TF-ST-F16-6-4			6.0 (152.4)	4.5 (114.3)	0.39 (9.8)	0.88 (22.3)
-TF-ST-F16-9-4			9.0 (228.6)	7.5 (190.5)	0.39 (9.8)	0.88 (22.3)
-TF-ST-F16-12-4			12.0 (304.8)	10.5 (266.7)	0.39 (9.8)	0.88 (22.3)
-TF-ST-F16-15-4			15.0 (381)	13.5 (342.9)	0.39 (9.8)	0.88 (22.3)
-TF-ST-F16-18-4			18.0 (457.2)	16.5 (419.1)	0.39 (9.8)	0.88 (22.3)
-TF-ST-F16-24-4			24.0 (609.6)	22.5 (571.5)	0.39 (9.8)	0.88 (22.3)

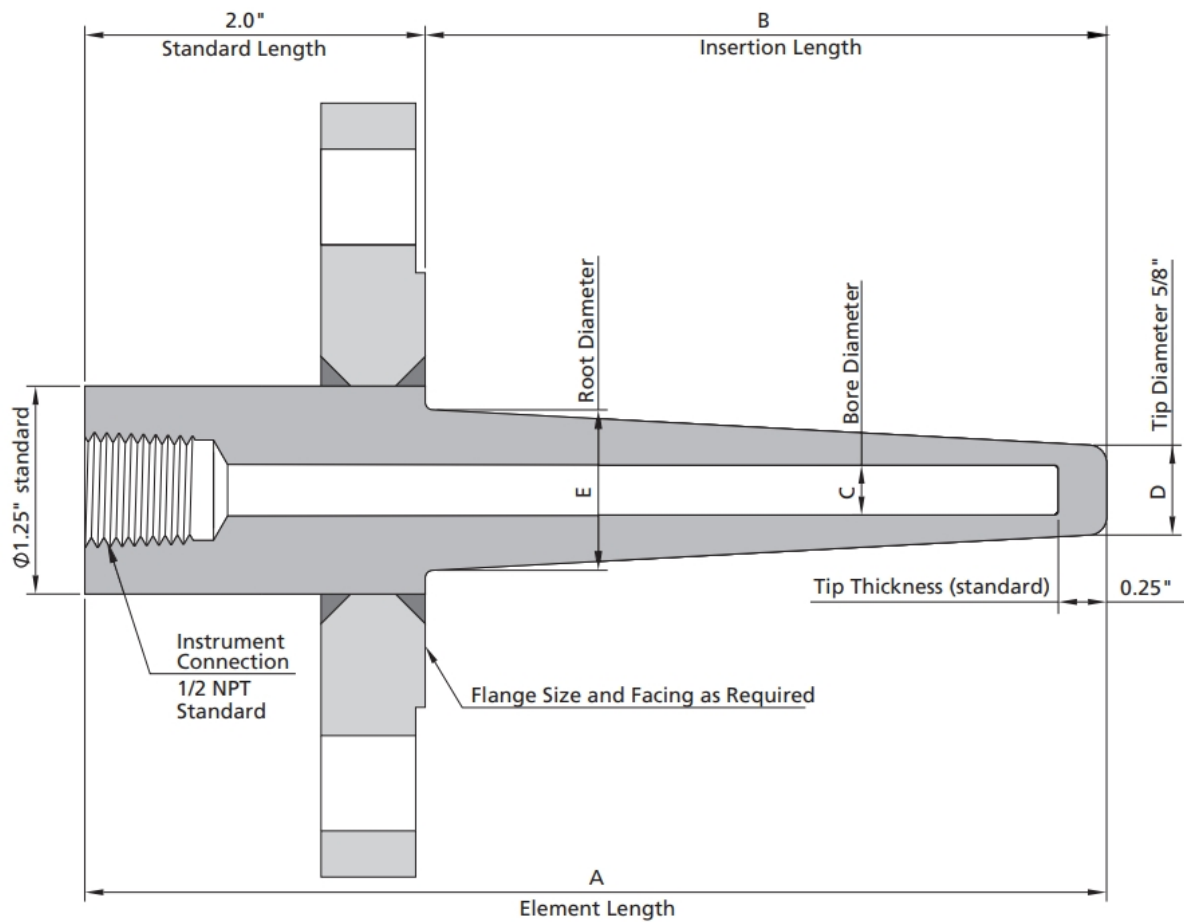
Stepped



Dimensions

Ordering Number	Instrument Connection	Process Connection	Dimension, in. (mm)			
			A	B	C	E
-TF-SP-F16-4-3	1/2 NPT Standard	1 Flange Raised Face ANSI Class 150	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F16-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F16-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F16-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F16-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F16-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F16-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F24-4-3	1/2 NPT Standard	1 1/2 Flange Raised Face ANSI Class 150	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F24-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F24-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F24-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F24-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F24-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)
-TF-SP-F24-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)

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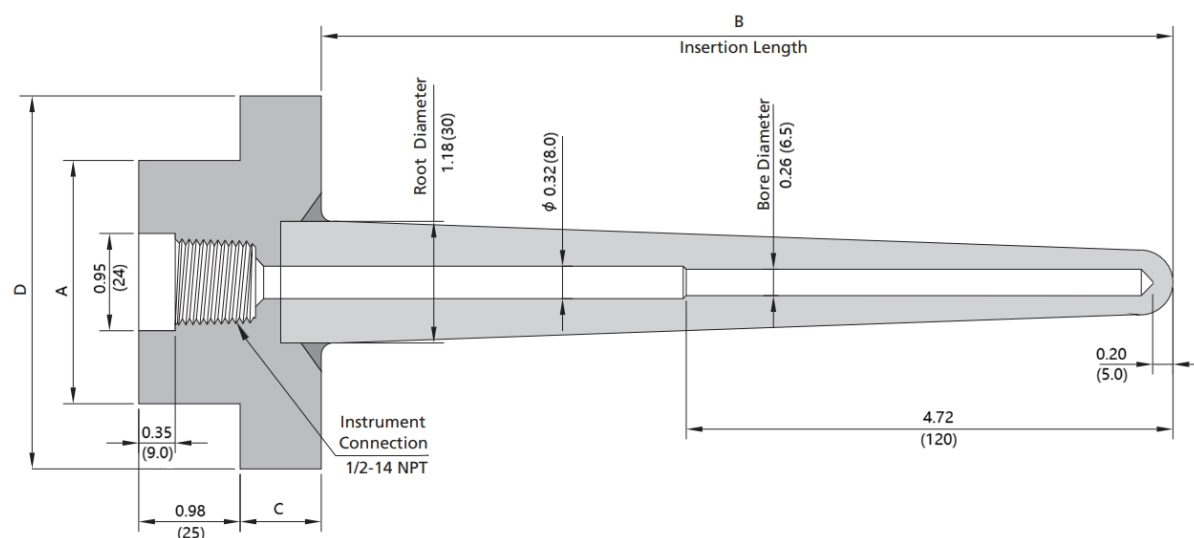


Dimensions

Ordering Number	Instrument Connection	Process Connection	Dimension, in. (mm)			
			A	B	C	E
-TF-TP-F16-4-3	1/2 NPT Standard	1 Flange Raised Face ANSI Class 150	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F16-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F16-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F16-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F16-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F16-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F16-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F24-4-3	1/2 NPT Standard	1 1/2 Flange Raised Face ANSI Class 150	4.0 (101.6)	2.5 (63.5)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F24-6-3			6.0 (152.4)	4.5 (114.3)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F24-9-3			9.0 (228.6)	7.5 (190.5)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F24-12-3			12.0 (304.8)	10.5 (266.7)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F24-15-3			15.0 (381)	13.5 (342.9)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F24-18-3			18.0 (457.2)	16.5 (419.1)	0.26 (6.6)	0.75 (19.0)
-TF-TP-F24-24-3			24.0 (609.6)	22.5 (571.5)	0.26 (6.6)	0.75 (19.0)

TJ series

Tapered



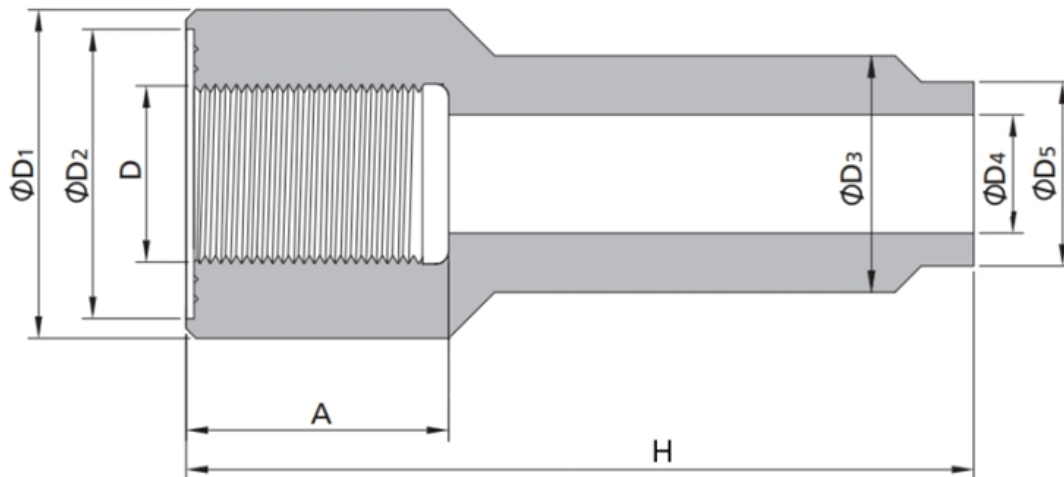
Dimensions

Ordering Number	Instrument Connection	Process Connection	Dimension, in. (mm)				Application Liquid flow rate is less than 8m/s; Gas flow rate is less than 40m/s
			A	B	C	D	
-TJ-TP-F24-8	1/2 NPT Standard	1 1/2 Flange Raised Face ANSI Class 300	1.89 (48.0)	8.46 (215)	0.59 (15.0)	2.87 (73.0)	Only apply to installation of pipeline
-TJ-TP-F24-9			1.89 (48.0)	9.44 (240)	0.59 (15.0)	2.87 (73.0)	
-TJ-TP-F24-11			1.89 (48.0)	11.42 (290)	0.59 (15.0)	2.87 (73.0)	
-TJ-TP-F24-13			1.89 (48.0)	13.38 (340)	0.59 (15.0)	2.87 (73.0)	Only apply to installation of equipment and vessel
-TJ-TP-F24-15			1.89 (48.0)	15.35 (390)	0.59 (15.0)	2.87 (73.0)	
-TJ-TP-F24-17			1.89 (48.0)	17.32 (440)	0.59 (15.0)	2.87 (73.0)	
-TJ-TP-F32-6	1/2 NPT Standard	2 Flange Raised Face	2.36 (60.0)	6.30 (160)	0.79 (20.0)	3.62 (92.0)	Only apply to installation of pipeline
-TJ-TP-F32-D		ANSI Class 300	2.36 (60.0)	Base on Design	0.79 (20.0)	3.62 (92.0)	Only apply to installation of equipment and vessel

BS Series

Features

- ◉ Working pressure up to: 1500 psig (104 bar)
- ◉ Solid bar stock boss
- ◉ Variety of end connections



Dimensions

Ordering Number	End Connection D	Dimension, in. (mm)						
		A	D1	D2	D3	D4	D5	L
-BS-FM12-2	M12*1.5	1.06	1.26	1.10	0.71	0.28	0.47	2.36 (60.0)
-BS-FM12-4	M12*1.5	(27.0)	(32.0)	(28.0)	(18.0)	(7.0)	(12.0)	4.72 (120)
-BS-FM16-2	M16*1.5	1.06	1.42	1.26	0.71	0.35	0.55	2.36 (60.0)
-BS-FM16-4	M16*1.5	(27.0)	(36.0)	(32.0)	(18.0)	(9.0)	(14.0)	4.72 (120)
-BS-FM27-6	M27*2	1.57	1.85	1.69	1.10	0.67	0.87	2.36 (60.0)
-BS-FM27-12	M27*2	(40.0)	(47.0)	(43.0)	(28.0)	(17.0)	(22.0)	4.72 (120)
-BS-FM27-8	M27*2	0.79	1.85	1.69	1.10	0.55	0.79	3.15 (80.0)
-BS-FM27-14	M27*2	(20.0)	(47.0)	(43.0)	(28.0)	(14.0)	(20.0)	5.51 (140)
-BS-FM33-6	M33*2	1.57 (40.0)	2.17 (55.0)	2.01 (51.0)	1.42 (36.0)	0.94 (24.0)	1.18 (30.0)	2.36 (60.0)
-BS-FG8-6	1/2 BSPP	1.38 (35.0)	1.54 (39.0)	1.38 (35.0)	1.06 (27.0)	0.63 (16.0)	0.83 (21.0)	2.36 (60.0)
-BS-FG12-6	3/4 BSPP	1.57 (40.0)	1.85 (47.0)	1.69 (43.0)	1.22 (31.0)	0.79 (20.0)	0.98 (25.0)	2.36 (60.0)
-BS-FG16-6	1 BSPP	1.77 (45.0)	2.17 (55.0)	2.01 (51.0)	1.61 (41.0)	1.18 (30.0)	1.38 (35.0)	2.36 (60.0)

1. The boss with H in brackets shall be used for the thermometer with movable male thread (such as bimetal therm).
2. When the boss is used for bimetal therm, the sealing slot shall not be processed.
3. The boss of M27 x 2 shall be used for T/C or RTD when A=40, used for bimetal therm when A=20.
4. The boss with H=120 or 140 shall be used for thermo-insulation objects.
5. Dimensions are for reference only and are subject to change.
6. Sizes and types listed are standard. Other sizes and types are available on request.

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