



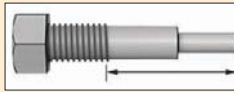
Straight Shank



Stepped Shank



Tapered Shank



Insertion Length



Stem Length

Choosing the Right Thermowell

SHANK TYPE

Straight

Consistent thickness throughout their length. Commonly used for general applications.

Stepped

Smallest diameter tip, and deliver fast response times.

Tapered

Diameter decreases gradually along their length. Durable and commonly used in high velocities.

MATERIAL

Stainless steel is the most widely used thermowell material. Stainless steel is heat- and corrosion-resistant. Low-lead compliant brass thermowells are used for contact with potable water.



**Stepped Shank
20JN92**



**Straight Shank
61VD60**



**Temp. Regulators
and Duct Sensors
6CUF3**

Process Connec.	For Thermometer Thread Connection	For Stem Length	For Stem Diameter	Insertion Length	Neck Extension	Item No.	
General Purpose Stepped-Shank Threaded Thermowells							
304 Stainless Steel							
1/2 in MNPT	1/2 in NPSM	2 1/2 in	1/4 in	2 1/2 in	1 3/4 in	24C512	
	1/2 in NPSM	4 in	1/4 in	4 in	1 3/4 in	24C513	
	1/2 in NPSM	6 in	1/4 in	6 in	1 3/4 in	24C514	
	1/2 in NPSM	9 in	1/4 in	9 in	1 3/4 in	24C515	
	1/2 in NPSM	12 in	1/4 in	12 in	1 3/4 in	24C516	
	1/2 in NPSM	15 in	1/4 in	15 in	1 3/4 in	24C517	
	1/2 in NPSM	18 in	1/4 in	18 in	1 3/4 in	24C518	
	1 1/4"-18 UNEF	3 1/2 in	1 9/32 in	3 1/2 in	1 3/4 in	24C507	
	1 1/4"-18 UNEF	6 in	1 9/32 in	6 in	1 3/4 in	24C508	
	3/4 in MNPT	3/8"-18 UNF	2 1 5/16 in	2 9/64 in	2 1 5/16 in	1 1/16 in	24C479
1/2 in NPSM		2 1/2 in	1/4 in	2 1/2 in	1 3/4 in	24C461	
1/2 in NPSM		4 in	1/4 in	4 in	1 3/4 in	24C462	
1/2 in NPSM		6 3/8 in	1/4 in	4 1/2 in	1 3/4 in	24C463	
1/2 in NPSM		9 in	1/4 in	9 in	1 3/4 in	24C464	
1/2 in NPSM		12 in	1/4 in	12 in	1 3/4 in	24C465	
1/2 in NPSM		18 in	1/4 in	18 in	1 3/4 in	24C467	
1 1/4"-18 UNEF		3 1/2 in	1 9/32 in	3 1/2 in	1 3/4 in	24C450	
1 1/4"-18 UNEF		6 in	1 9/32 in	6 in	1 3/4 in	24C451	
1 1/4"-18 UNEF		6 in	1 9/32 in	6 in	4 1/4 in	24C482	
1/2 in MNPT	1 1/4"-18 UNEF	8 in	1 9/32 in	8 in	4 1/4 in	24C483	
	1 1/4"-18 UNEF	12 in	1 9/32 in	12 in	4 1/4 in	24C484	
	1 1/4"-18 UNEF	18 in	1 9/32 in	18 in	1 3/4 in	24C454	
	1 1/4"-18 UNEF	18 in	1 9/32 in	18 in	4 3/4 in	24C485	
	3/4 in MNPT	1/2 in NPT	3 9/64 in	3 9/64 in	2 in	2 1 1/32 in	20JN91
		1/2 in NPT	9 3/2 in	9 3/2 in	1 2 1/2 in	1 6 1/64 in	20JN92
		1/2 in NPT	9 3/2 in	9 3/2 in	1 3 9/64 in	1 6 1/64 in	20JN93
		1/2 in NPT	9 3/2 in	9 3/2 in	5 1/64 in	1 6 1/64 in	20JN94
		5/8"-18 UNF	7 1/6 in	7 1/6 in	1 2 3/32 in	2 1/2 in	56LM45
		3/4"-16 UNF	1 1/8 in	1 1/8 in	1 1/4 in	1 2 1/32 in	20JN65
1/2 in NPSM		18 in	1/4 in	18 in	4 3/4 in	24C505	
3/4"-16 UNF		1 7/8 in	1 7/8 in	1 1/4 in	1 2 1/32 in	20JN66	
1 1/4 in UNEF		3 1/2 in	7/16 in	2 1/2 in	4 1 1/32 in	20JN84	
1 1/4 in UNEF		3 1/2 in	7/16 in	1 3/4 in	4 1/4 in	38VL16	
1 in MNPT	1 1/4"-18 UNEF	6 in	1 9/32 in	6 in	4 1/4 in	24C487	
	1 1/4"-18 UNEF	6 in	1 9/32 in	6 in	1 3/4 in	24C456	
	1 1/4 in UNEF	6 in	7/16 in	5 in	6 3/4 in	20JN85	
	1 1/4 in UNEF	6 in	7/16 in	2 1/2 in	6 3/4 in	38VL17	
	Stainless Steel	1 1/4"-18 NEF	3 1/2 in	1/2 in	2 1/2 in	1 9/16 in	6PE20
		1 1/4"-18 NEF	6 in	1/2 in	5 in	1 9/16 in	6PE21
	Heavy-Duty Tapered-Shank Threaded Thermowells						
	304 Stainless Steel						
	1/2 in MNPT	1/2 in NPSM	12 in	1/4 in	10 1/2 in	1 3/4 in	61VE27
		1/2 in NPSM	15 in	1/4 in	13 1/2 in	1 3/4 in	61VE30
1/2 in NPSM		18 in	1/4 in	16 1/2 in	1 3/4 in	61VE33	
1/2 in NPSM		24 in	1/4 in	22 1/2 in	1 3/4 in	61VE36	
3/4 in MNPT	1/2 in NPSM	12 in	1/4 in	10 1/2 in	1 3/4 in	61VE28	
	1/2 in NPSM	15 in	1/4 in	13 1/2 in	1 3/4 in	61VE31	
	1/2 in NPSM	18 in	1/4 in	16 1/2 in	1 3/4 in	61VE34	
	1/2 in NPSM	24 in	1/4 in	22 1/2 in	1 3/4 in	61VE37	
1 in MNPT	1/2 in NPSM	4 in	1/4 in	2 1/2 in	1 3/4 in	61VE38	
	1/2 in NPSM	9 in	1/4 in	7 1/2 in	1 3/4 in	61VE39	
	1/2 in NPSM	15 in	1/4 in	13 1/2 in	1 3/4 in	61VE29	
	1/2 in NPSM	18 in	1/4 in	16 1/2 in	1 3/4 in	61VE32	
Light-Duty Straight-Shank Threaded Thermowells	1/2 in NPSM	24 in	1/4 in	22 1/2 in	1 3/4 in	61VE35	
	Brass						
	1/2 in NPSM	1/4 in	1/2 in	1 3/8 in	3/8 in	61VD61	
	1/2 in NPSM	1/4 in	1/2 in	2 1/2 in	3/8 in	61VD60	
3/4 in MNPT	1 1/4"-18 UNF	9 5/8 in	9 5/8 in	3 1/2 in	3/4 in	61VD62	
	1 1/4"-18 UNF	9 5/8 in	9 5/8 in	1 3/4 in	3/4 in, 1 in	61VD63	
	1 1/4"-18 UNF	9 5/8 in	9 5/8 in	2 1/2 in	3/4 in	61VD64	
	1 1/4"-18 UNF	9 5/8 in	9 5/8 in	2 1/2 in	3/4 in, 2 1/2 in	61VD65	
Thermowells for Temperature Regulators & Duct Sensors							
Stainless Steel							
1/4 in MNPT	1/4 in NPT	9 in	1/2 in	9 in	—	6CUF3	
	1/4 in NPT	12 in	1/2 in	12 in	—	6CUF4	
1 in MNPT	1 in MNPT	13 3/8 in	9 5/8 in	10 1/2 in	2 1/2 in	3EJ7	
	1 in MNPT	15 3/8 in	1 in	12 1/2 in	3 1/8 in	3EJ9	

Thermowells

Protective metal tubes shield thermometers from environments exposed to harsh conditions like pressure, velocity, corrosion, and vibration. Thermowells contact the media, liquid, or gas being tested, while the thermometer's sensor reads the temperature safely through the thermowell walls.

General Purpose Stepped-Shank Threaded Thermowells have a reduced diameter at the tip compared to the base of the shank, allowing for a faster response time than other styles. Appropriate for use in most light and medium-duty applications without very high temperatures or pressures.

Heavy-Duty Tapered-Shank Threaded Thermowells are made for high-velocity applications.

Light-Duty Straight-Shank Threaded Thermowells are the same size along the immersion length, which creates the most resistance to the flow. A good option for light-duty conditions with lower velocity and/or pressure.

Thermowells for Temperature Regulators & Duct Sensors protect measuring equipment and ensure accurate readings are performed for HVAC systems. Sometimes called immersion wells, they are commonly used with hot water immersion controls.