

TECHLINE MANUFACTURING COMPANY THERMOWELL CATALOG



www.techlinemfg.com

TECHLINE MANUFACTURING THERMOWELL CATALOG

QUALITY, SERVICE, AND DELIVERY

We have been supplying quality thermowells to a wide range of process industries for more than a decade. The selection of thermowells that you see in the following pages represents a fraction of the standard designs that we have supplied and are perhaps the most commonly used in a variety of industries including food & beverage and pharmaceuticals.

The very nature of thermowells lend themselves to custom designs, and we invite our customers to send us drawings of their requirements. We strive to give you a competitive quotation within 24 hours if you can provide us all the necessary data on our inquiry sheet.

All of our thermowells can be provided with material certification if required. We work in a wide variety of metals, and in general we can provide 72 hours service for our standard materials such as Brass, 304 Stainless Steel, and 316 Stainless Steel. In addition we are also very competitive in Carbon Steel, Hastelloy, Alloy 20, Titanium, Monel and Inconel.

FIVE YEAR WARRANTY

All of our thermowells are sold with a five year warranty on material and workmanship, which is detailed in our standard quotation, and is also supplied with each shipment.

OUR STANDARD MANUFACTURING TOLERANCES

LENGTHS

$\pm 1/16"$ on all lengths 12" (30 cm) or less.
 $\pm 1/8"$ on lengths over 12" (30 cm) or more.

Thermowells 30" (75cm) long and over will be drilled through and heliarc welded, if solid bore is specified.

O.D. TOLERANCES

Fractional: $\pm 0.015"$
Decimal: $\pm 0.005"$ when 000 places
 $\pm 0.010"$ when 00 places

BORE I.D.

+ 0.005
- 0.003

END THICKNESS

Drill bottom $1/4"$ to bottom, $\pm 1/16"$,
 $3/16"$ minimum

CONCENTRICITY OF BORE

$\pm 10\%$ of minimum wall thickness

EXTERNAL FINISH

16 - 32 Ra is standard
Other finishes available upon request.

LAGGING EXTENSION

If Hex material is available, Hex is left unturned.

MALE THREADS (NPT)

± 1 turn on thread gauge

FEMALE THREADS

$1/2"$ NPSM Standard
 $1/2"$ NPT and other threads available as an option.

ENDS OF WELL

Break corners, no burrs.

IDENTIFICATION

Material code will be stamped or engraved on the thermowell.

FLANGED WELLS

Manufactured in accordance with ANSI B16.5
Raised face, serrated is standard. DIN and JIS flanges available.

WELDS

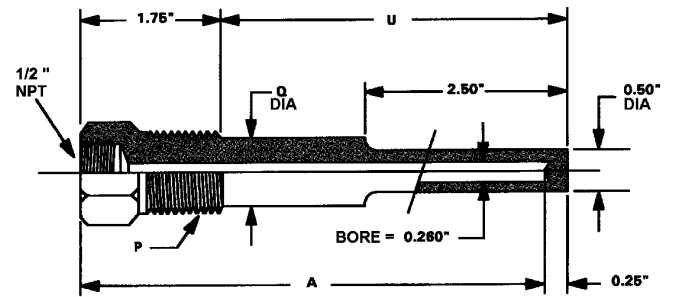
Full penetration welds are standard.

MODEL No. 2080

STANDARD THERMOWELL WITH FLANGED CONNECTION 1/4" ELEMENT (0.260" BORE)

Model numbers shown are based on 316SS material.

EXTERNAL THREAD "P"	MODEL NUMBER	SENSOR LENGTH "A"	INSERTION LENGTH "U"	SHANK DIA "Q"
1/2" NPT	2080 22 -U 2 1/2	4	2 1/2	1/2
	2080 23 -U 4 1/2	6	4 1/2	5/8
	2080 24 -U 7 1/2	9	7 1/2	5/8
	2080 25 -U 10 1/2	12	10 1/2	5/8
	2080 26 -U 13 1/2	15	13 1/2	5/8
	2080 27 -U 16 1/2	18	16 1/2	5/8
	2080 28 -U 22 1/2	24	22 1/2	5/8
3/4" NPT	2080 29 -U 2 1/2	4	2 1/2	3/4
	2080 30 -U 4 1/2	6	4 1/2	3/4
	2080 31 -U 7 1/2	9	7 1/2	3/4
	2080 32 -U 10 1/2	12	10 1/2	3/4
	2080 33 -U 13 1/2	15	13 1/2	3/4
	2080 34 -U 16 1/2	18	16 1/2	3/4
	2080 35 -U 22 1/2	24	22 1/2	3/4
1" NPT	2080 36 -U 2 1/2	4	2 1/2	7/8
	2080 37 -U 4 1/2	6	4 1/2	7/8
	2080 38 -U 7 1/2	9	7 1/2	7/8
	2080 39 -U 10 1/2	12	10 1/2	7/8
	2080 40 -U 13 1/2	15	13 1/2	7/8
	2080 41 -U 16 1/2	18	16 1/2	7/8
	2080 42 -U 22 1/2	24	22 1/2	7/8



COMMENTS:

1. Cap and chain supplied as an option.
2. Specify any special finishes.
3. Standard well is stepped as shown to 0.5" O.D. except U = 2 1/2".
4. Straight shank supplied as an option.

MODEL No. 2086

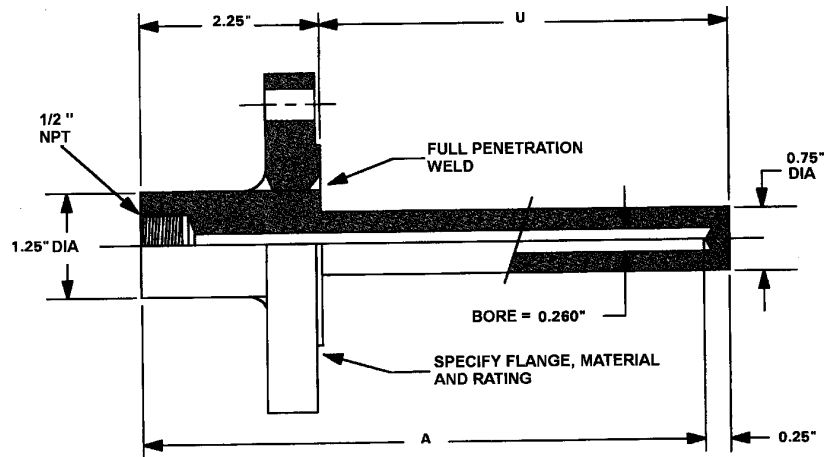
STANDARD THERMOWELL WITH FLANGED CONNECTION 1/4" ELEMENT (0.260" BORE)

Model numbers shown are based on 316SS material. 150# RF flange type shown.

MODEL NUMBER	SENSOR LENGTH "A"	INSERTION LENGTH "U"
2086 29 -U 2	4	2
2086 30 -U 4	6	4
2086 31 -U 7	9	7
2086 32 -U 10	12	10
2086 33 -U 13	15	13
2086 34 -U 16	18	16
2086 35 -U 22	24	22

COMMENTS:

1. Cap and chain supplied as an option
2. Specify any special finishes.
3. Stepped shanks available upon request.
4. 300# Rf flange type available.\
5. 1 1/2" 150# and 300# flange type available upon request.



MODEL No. 2086-HD

HEAVY DUTY THERMOWELLS

1/4" ELEMENT (0.260" BORE)

MODEL NUMBER	SENSOR LENGTH "A"	INSERTION LENGTH "U"	SHANK DIA "Q"
2086-HD 29 -U 2	4	2	See Note 3
2086-HD 30 -U 4	6	4	
2086-HD 31 -U 7	9	7	
2086-HD 32 -U 10	12	10	
2086-HD 33 -U 13	15	13	
2086-HD 34 -U 16	18	16	
2086-HD 35 -U 22	24	22	

COMMENTS:

1. Cap and chain supplied as an option.
2. Specify any special finishes.
3. 1" flange & smaller, Q = 7/8, up to U = 10
1 1/2" flange & smaller, Q = 1 1/6, for U > 10

