

PRODUCT CATALOG

Thermowells

FTW01 & FTW02

PRODUCT RANGE

FTW01

Screwed bar-stock

FTW02

Flanged pipe & bar stock

Configuration guidance only. Final geometry and documentation are governed by approved order documents and the nameplate.

PRODUCT VISUALS



FTW01

Screwed bar-stock thermowells



FTW02

Flanged pipe-and-bar-stock thermowells

Two series

Screwed and flanged construction routes.

Configuration fields

Profile, connection, bore, material and insertion data.

Order authority

Final configuration is governed by approved order documentation.

PRODUCT FAMILY

Two construction routes. One clear selection path.

The FTW01 and FTW02 series provide two installation-interface approaches for temperature-measurement assemblies. Select the series first, then complete the configuration using the connection, material, bore and length fields in this catalog.

FTW01 | Bar Stock (Screwed)

A solid bar-stock thermowell installed using a threaded process connection. The catalog lists straight, reduced-tip and tapered profile options.

SEE PAGES 04–06



FTW02 | Pipe & Bar Stock (Flanged)

A flanged thermowell built from pipe and bar stock for longer-length requirements, installed with a bolted flanged process connection.

SEE PAGES 07–09



AT A GLANCE

Series	Construction / entry	Core catalog options	Order input
FTW01	Solid bar stock; threaded process connection	Straight, reduced-tip, partial-taper and full-taper profiles	Specify required selection fields
FTW02	Pipe and bar stock; bolted flanged process connection	Flange, facing, bore, shank material and insertion length	Specify insertion length in mm

01

Select the series

Choose the threaded FTW01 or flanged FTW02 configuration route.

02

Define the interface

Identify instrument and process connection requirements.

03

Complete order review

Confirm ordered material, bore, geometry and length details.

PRODUCT PURPOSE

A protective interface for temperature-measurement assemblies.

A thermowell provides the process-side interface for a temperature-sensing element. The series and configuration must be aligned with the instrument connection, process connection and project selection requirements.



PRODUCT CONTEXT

Temperature-measurement interfaces require clear configuration inputs.

Define the sensor interface, thermowell series and process connection for order review.

Reference product photograph — visual context only. Final configuration is governed by approved order documentation.

Catalog compatibility overview

- FTW01 is suitable for RTDs, thermocouples, mechanical thermometers and digital thermometers.
- FTW02 is suitable for the same instrument types where longer lengths are required.

Instrument fit must be confirmed against the approved order documentation.

Selection information to provide

- Series, profile and process-connection requirement.
- Instrument connection, material and bore selection.
- Insertion length and project-specific application requirements.

CATALOG NAVIGATION

FTW01

Overview

FTW01

Profiles & order data

FTW02

Overview & profile

FTW02

Order data & RFQ

FTW01 | BAR STOCK (SCREWED)

Solid bar stock. Threaded process entry.

FTW01 thermowells use solid bar-stock construction with a threaded process connection. Thermowell design review shall reference ASME PTC 19.3 TW where required by application and approved order documentation.

01

Instrument compatibility

Catalog options include RTDs, thermocouples, mechanical thermometers and digital thermometers.

02

Profile choice

Select straight, straight reduced tip, partial taper or full taper according to the ordered configuration.

03

Catalog fields

Choose material, instrument connection, process connection and bore diameter from the listed FTW01 selection data.

FTW01 | PRODUCT IMAGE



Screwed bar-stock thermowells

Product image for visual context.

PROCESS ENTRY

Threaded

PROFILE OPTIONS

S / R / P / F

Profile terminology: page 05 | Order data: page 06

Construction

Solid bar-stock construction with a threaded process connection.

Profile forms

Straight, straight reduced tip, partial taper and full taper options are listed for this series.

Design basis

Design review reference: ASME PTC 19.3 TW, where required by application.

CONFIGURATION TERMINOLOGY

FTW01 profile options and reference fields.

FTW01 offers four profile terms. The modules below provide configuration terminology only; no reconstructed product geometry or dimensional drawing is shown.

S | Straight

Catalog profile term: straight. Final geometry is defined by approved order documentation.

R | Reduced tip

Catalog profile term: straight reduced tip. Final geometry is defined by approved order documentation.

P | Partial taper

Catalog profile term: partial taper. Final geometry is defined by approved order documentation.

F | Full taper

Catalog profile term: full taper. Final geometry is defined by approved order documentation.

Reference field labels

A	Finished head size
B	Instrument connection
C	Process connection
D	Bore diameter
E	Tip thickness
F / G	Major / minor diameter
H	Extension length
U	Insertion length
RL / LT	Reduced-tip / taper length

Engineering-reference note

Final installation arrangement, weld details and geometry are determined by approved project drawings and order documentation.

Use the approved order drawing and nameplate for final engineering reference.

HOW TO ORDER

FTW01 selection data.

Use the selection fields below to describe the required FTW01 configuration. The code structure is provided for catalog communication; final compatibility is subject to application and order review.

Example selection structure: **FTW01 – S – LM – 4BF – 4BM – B**

Field	Code / option	Catalog selection
Type	S / R / P / F	Straight; straight reduced tip; partial taper; full taper
Material	LQ	Carbon Steel
Material	LP / LM / LN	AISI 304 SS / AISI 316 SS / AISI 316L SS
Material	EN / EO / LO / ER	AISI 321 SS / AISI 310 SS / AISI 316Ti SS / AISI 304L SS
Material	LR / LS / LT	Hastelloy B / Hastelloy C / Monel
Material	LU / ES / ET / EU	Inconel 600 / Inconel 625 / Incoloy 800 / Incoloy 825
Material	LV / LW / LX / LY / LZ / EV	Titanium / Tantalum / Nickel / AISI 446 / Alloy 20 / Kanthal
Instrument connection	3BF / 4BF / 5BF	3/8 in / 1/2 in / 3/4 in BSP(F)
Instrument connection	31F / 41F / 51F	3/8 in / 1/2 in / 3/4 in NPT(F)
Process connection C	4BM / 5BM / 6BM	1/2 in / 3/4 in / 1 in BSP(M)
Process connection C	4NM / 5NM / 6NM	1/2 in / 3/4 in / 1 in NPT(M)
Bore D	B / D / F / G	7 mm / 9 mm / 11 mm / 13 mm

Other materials are available on request, subject to application review.

FTW02 | PIPE & BAR STOCK (FLANGED)

Flanged construction for longer-length requirements.

FTW02 thermowells use pipe-and-bar-stock construction with a bolted flanged connection for longer-length requirements.

01

Flanged process entry

FTW02 uses a bolted flanged process connection.

02

Welded flange area

The catalog defines full-penetration welding at the flange area as a product feature.

03

Instrument compatibility

Catalog options include RTDs, thermocouples, mechanical thermometers and digital thermometers for this series.

FTW02 | PRODUCT IMAGE



Flanged pipe-and-bar-stock thermowell

Product image for visual context.

PROCESS ENTRY

Flanged

LENGTH INPUT

U in mm

Profile terminology: page 08 | Order data: page 09

Applications listed

Chemical plants, petrochemical plants, engineering plants, onshore and offshore process industries.

Connection range

Flange type, flange size and rating, facing type and finish are order-selection fields.

Length input

Specify required insertion length U in millimetres.

CONFIGURATION REFERENCE

FTW02 reference fields and order inputs.

This page lists configuration-field terminology without reconstructing a thermowell profile or implying final ordered geometry.

REFERENCE PRODUCT PHOTOGRAPH



Visual context only; not an approved GA drawing or final configuration.

Reference field labels

A	Finished head size
B	Instrument connection
C	Flange
D	Bore diameter of tail bar stock
E	Tip thickness
F / G	Major / minor diameter
H	Extension length
I	Length of pipe
LT	Taper length of tail bar stock
U	Insertion length

Installed process interface

FTW02 uses a flanged process interface. The ordered flange size, rating, facing and finish must be stated in the configuration.

Configuration note

Final welded construction, dimensions, pressure boundary details and accessories are governed by the approved order documentation, applicable drawings and nameplate.

HOW TO ORDER

FTW02 selection data.

Specify the listed connection, material, flange and geometry fields for the required FTW02 configuration. The final selection must be confirmed against the approved order data sheet.

Field	Code / option	Catalog selection
Basic model	FTW02	Thermowells built from pipe and bar stock with flanged connection
Flange & stub material	LM / LN / LP	AISI 316 SS / AISI 316L SS / AISI 304 SS
Flange & stub material	EN / LQ / LT	AISI 321 SS / Carbon Steel / Monel
Flange & stub material	LS / LV / LU	Hastelloy C / Titanium / Inconel 600
Instrument connection	4BF / 5BF / 6BF	1/2 in / 3/4 in / 1 in BSP(F)
Instrument connection	4NF / 5NF / 6NF	1/2 in / 3/4 in / 1 in NPT(F)
Flange type	1 / 2	Blind flange / SORF flange
Flange C	Specify	Flange size and rating
Flange facing type	R / F / J	Raised face / flat face / ring type joint
Flange finish	1	125 AARH (standard)
Bore diameter	B / D / F / G	7 mm / 9 mm / 11 mm / 13 mm
Shank material	LM / LN / LO	AISI 316 SS / AISI 316L SS / AISI 316Ti SS
Shank material	EN / EO / LS	AISI 321 SS / AISI 310 SS / Hastelloy C
Shank material	ES / LT / LU	Inconel 625 / Monel / Inconel 600
Insertion length U	Specify	Insertion length in mm

Other materials are available on request, subject to application review.

ORDER REVIEW

Structure the selection before engineering review.

This page brings the catalog's confirmed option groups into one review sequence. It does not determine material suitability, ratings, dimensions or service performance; those matters remain subject to application review and the approved order documentation.

FTW01 selection sequence

- A Profile**
Choose S, R, P or F.
- B Material**
Select one of the catalog-listed material codes, or request another material.
- C Interfaces**
Specify instrument and threaded process connection.
- D Bore**
Choose 7 mm, 9 mm, 11 mm or 13 mm as listed.

FTW02 selection sequence

- A Material route**
Define flange/stub material and shank material.
- B Interfaces**
Specify instrument connection and flanged process connection.
- C Flange fields**
State type, size and rating, facing type and finish.
- D Geometry**
Choose bore and state insertion length U in mm.

CONNECTION VOCABULARY

Connection group	Catalog use	Available catalog selections
FTW01 instrument	BSP(F) / NPT(F)	3/8 in, 1/2 in and 3/4 in options
FTW01 process	BSP(M) / NPT(M)	1/2 in, 3/4 in and 1 in options
FTW02 instrument	BSP(F) / NPT(F)	1/2 in, 3/4 in and 1 in options
FTW02 process	Flanged	Flange type, size & rating, facing type and finish are selection fields

SELECTION SUPPORT

Provide a complete request for review.

The following information lets Globe United align the requested thermowell configuration with the applicable order documentation. Supply project-specific requirements wherever they govern the selection.

Configuration information

Product series	FTW01 or FTW02
Profile / construction	FTW01 profile or FTW02 flanged pipe-and-bar-stock configuration
Instrument interface	Instrument connection and measurement-element requirements
Process interface	Threaded connection or flange requirements, as applicable
Bore	Required catalog bore selection
Insertion length	Specify U in mm where applicable

Project information

Materials	Required catalog material selection or project-specified requirement
Flange details	Type, size & rating, facing type and finish for FTW02
Duty data	Provide relevant application data and project operating requirements for review
Applicable documents	Customer specification, data sheet, drawings and inspection requirements
Quantity	Required quantity and delivery documentation needs
Special requirements	Any additional accessories, marking or project requirements

GOVERNING DOCUMENTATION

Final configuration, materials, dimensions, limits and accessories are governed by the approved order documentation, applicable drawings and nameplate. Product selection remains subject to application review.

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CONTACT

Let's configure the right interface.

For thermowell product and configuration support, provide the relevant series, connection, material and application requirements for review.

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WEBwww.globeunitedae.com**PRODUCT GOVERNANCE**

Configured to the order. Documented for the application.

This catalog provides thermowell series scope and configuration guidance for customer review. It is a configuration guide only. Final configuration, materials, dimensions, limits and accessories are governed by the approved order documentation, applicable drawings and nameplate.