THERMOWELLS TYPE TF-TFL-BF-BFL

Standard materials St. Steel AlSI36, Hastelloy C - Max. Temperature 600 °C - Threads and Flanged Connections

THREMOWELLS

Thermowells are used for any type of plants in order to protect every temperature gauge (thercouples, thermoresistances, bulbs of thermometers from corrosive substances, hight flow speed and mechanical efforts; they are indispensable to permit the removal of the gauge while the line in whichthey are installed is in use.

DESIGN FEATURES

TYPE: IF from pipe with threated connection from pipe with flanged connection

BF from bar stock with threated connection

BFL from bar stock with flanged connection

MATERIALS: Stainless Steel AISI 316.

Other materials on request.

INSTRUMENT CONNECTION: (f) female thread G1/2 - 1/2NPT: (f)

PROCESS CONNECTION: (F) male thread or flange

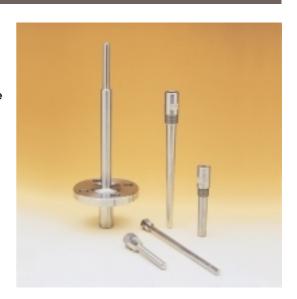
IMMERSION: (1) lenght on request

It is the part immersed in the fluid; it is placed between the connection

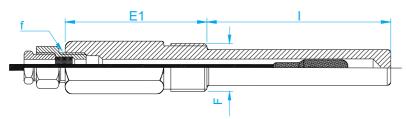
at the process (thread or flange) and the end of the stem.

EXTENSION: (E1) specify as option Part of the thermowell between the fixing key and the connection to

Part of the thermowell between the fixing key and the connection to the process; it has the porpouse to distance the thermometers from the process especially with hight temperatures.



BF 1/2G DN20PN100 250 mm E110 BF Instrument connection Process connection Immersion lenght



Special executions are available on request or drawings

ATTENTION

Extension (if necessary)

- When choosing the thermowell, it is necessary to forsee that thelenghT
 of sensible part of the gauge (bulb) is always shorter then the immersion
 length, so that the sensible part is completely immersed in the process fluid.
- When installing the gauge make sure that thermic exchangebetween the thermowell and the sensible part of the thermometer(bulb) is warranted by the filling of the air film with mineral oils, metallic powders, etc..

RATINGS For fluid speed up to 50 m/s

| Material | Max. Temperature °C | | | | | |
|----------------|------------------------|-----|-----|-----|-----|--|
| AISI 316 | 100 | 300 | 400 | 500 | 600 | |
| Туре | Max. pressure bar | | | | | |
| From pipes | 70 | 60 | 50 | 45 | 40 | |
| From bar stock | 160 | 150 | 130 | 100 | 60 | |

THERMOWELLS TYPE TF-TFL-BF-BFL

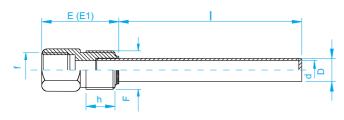
Standard materials St. Steel AISI36, Hastelloy C - Max. Temperature 600 °C - Threads and Flanged Connections

THERMOWELLS FROM PIPE TF - TFL

Pipe Dimensions Instrument connection Immersion D x d 14 x 12 mm f G ½"F - ½"NPT F

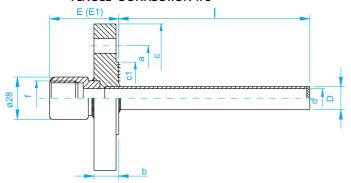
I on request

THREADED CONNECTION TF



| F | [mm] | | | | |
|---------|------|----|-----|--|--|
| Г | h | Ш | E1 | | |
| G 1/2 | 20 | 45 | 100 | | |
| G 3/4 | 20 | 45 | 100 | | |
| G 1 | 25 | 45 | 100 | | |
| 1/2 NPT | 20 | 45 | 100 | | |
| 3/4 NPT | 20 | 45 | 100 | | |
| 1 NPT | 25 | 45 | 100 | | |

FLNGED CONNECTION TFL



| Туре | | [mm] | | | | | | |
|---------------------|---|------|----|-----|----|----|-----|--|
| | | а | b | С | с1 | E | E1 | |
| UNI 2223 2229 | DN20 PN40 | 75 | 18 | 105 | 58 | 50 | 100 | |
| | DN25 PN40 | 85 | 18 | 115 | 68 | 50 | 100 | |
| | DN40 PN40 | 110 | 18 | 150 | 88 | 50 | 100 | |
| ANSI B 16.5 | 1/2" 150 RF | 60,5 | 11 | 89 | 35 | 50 | 100 | |
| | 1" 150 RF | 79 | 15 | 108 | 51 | 50 | 100 | |
| | 1 ¹ / _{2"} " 150 RF | 98,5 | 18 | 127 | 73 | 50 | 100 | |

THERMOWELLS FROM BAR STOCK BF - BFL

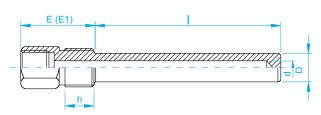
Dimensions

Instrument connection

Immersion

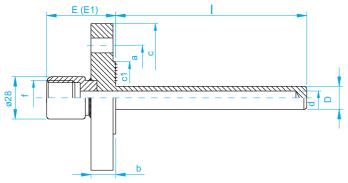
I On request

THREADED CONNECTION BF



| F | [mm] | | | | | |
|---------|------|----|-----|--|--|--|
| Г | h | Е | E1 | | | |
| G 1/2 | 20 | 45 | 100 | | | |
| G 3/4 | 20 | 45 | 100 | | | |
| G 1 | 25 | 45 | 100 | | | |
| 1/2 NPT | 20 | 45 | 100 | | | |
| 3/4 NPT | 20 | 45 | 100 | | | |
| 1 NPT | 25 | 45 | 100 | | | |

FLANGED CONNECTION BFL



| Туре | | [mm] | | | | | |
|---------------------|--|------|----|-----|----|----|-----|
| | | а | b | С | c1 | Е | E1 |
| UNI 2223 2229 | DN20 PN100 | 90 | 22 | 130 | 58 | 50 | 100 |
| | DN25 PN100 | 100 | 24 | 140 | 65 | 50 | 100 |
| | DN40 PN100 | 125 | 26 | 170 | 85 | 50 | 100 |
| ANSI B 16.5 | 1/2" 1500 RF | 82,5 | 23 | 120 | 35 | 50 | 100 |
| | 1" 1500 RF | 101 | 29 | 150 | 51 | 50 | 100 |
| | 1 ¹ / _{2"} 1500 RF | 124 | 32 | 178 | 73 | 50 | 100 |