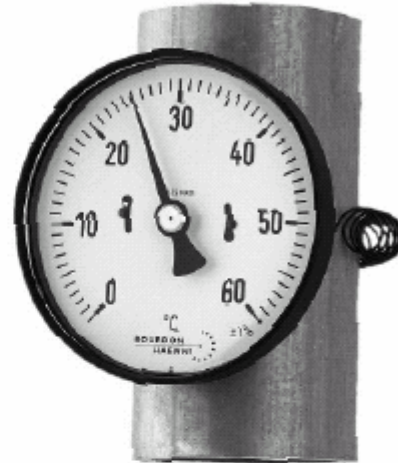




## Bimetal pipe Mounting Thermometers TBA Ø 72

|                          |  |                    |
|--------------------------|--|--------------------|
| <b>Application</b>       | For temperature measurement on pipes   |                    |
| <b>Temperature range</b> | 0 ... 120°C<br>0 ... 60°C<br>-20 ... 40°C  |                    |
| <b>Accuracy</b>          | ± 1% of full scale <sup>1)</sup>   |                    |
| <b>Case</b>              | Black synthetic material,<br>heat resistant, max. 110°C  |                    |
| <b>Dial</b>              | White aluminium,<br>black graduation,<br>DIN 16 109 (NS 80), 16 128<br>Graduation according to<br>catalogue sheet T0.305 |                    |
| <b>Zero adjustment</b>   | At the back of the case, ± 4°C   |                    |
| <b>Pointer</b>           | Aluminium, anodized in black   |                    |
| <b>Window</b>            | Synthetic material   |                    |
| <b>Mounting</b>          | Spring, for pipes 1...5"   |                    |
| <b>Fitting position</b>  | Any, revolving mounting flange   |                    |
| <b>Order No.</b>         | 0 ... 120°C  | TBA 72/112.111/20T |
|                          | 0 ... 60°C   | TBA 72/112.111/11T |
|                          | -20 ... 40°C   | TBA 72/112.111/52T |



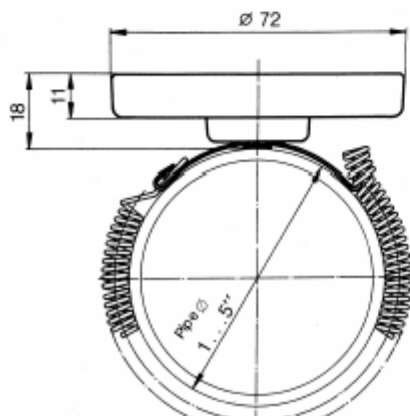
**Note:**  
1) Test condition: bright steel pipe Ø 48 medium: water, alcohol for temperature less than 0°C

### Mounting

The Pipe Thermometer TBA 72 can be mounted with the attached spring to pipes of diameter sizes 1 ... 5" in any possible angle or position. The mounting bracket has been designed to

give optimum transmission of the heat from the pipe to the measuring instrument and allows exact measurement without heat transmission paste.

### Dimension





## Bimetal Thermometers TB-FIX Ø 80 - 100

|                          |   |
|--------------------------|---|
| <b>Application</b>       | For temperature measurements of liquids and gases in pipes with max. Ø 2 inches which are insulated |
| <b>Temperature range</b> | -20 ... 160°C   |
| <b>Accuracy</b>          | According DIN 16203 Cl. 1 (see mounting instructions)   |
| <b>Dial</b>              | white, graduations black<br>DIN 16109, 16128.<br>For graduation marking and layout, see T0.305      |
| <b>Pointer</b>           | Aluminium alloy black, resemb. DIN 16099  |
| <b>Zero adjustment</b>   | At the back of the case   |
| <b>Window</b>            | Normal glass  |
| <b>Protection</b>        | IP 50 DIN 40050   |
| <b>Accessories</b>       | Base and hose clamp   |



### Selection chart

| System design   | Standard | TBHA xxx / xxx.xxx |
|---|----------|--------------------|
| <b>Nominal size</b>                                       |          |                    |
| NS 80   |          | 80                 |
| NS 100  |          | 100                |
| <b>Case and ring</b>                                      |          |                    |
| Stainless steel 1.4301, brush finished                    |          | 2                  |
| <b>Structural shape</b>                                   |          |                    |
| Direct mounting   |          | 1                  |
| <b>Immersion tube outlet</b>                              |          |                    |
| Center back   |          | 2                  |
| <b>Indicator</b>  |          |                    |
| Standard  |          | 1                  |
| <b>Immersion tube / diameter / material</b>               |          |                    |
| 8 mm, stainless steel 1.4571 (standard)                   |          | 6                  |
| <b>Immersion tube / installed length <math>l_T</math></b> |          |                    |
| 55 mm (fit to s = 30–50 mm)                               |          | 1                  |
| 75 mm (fit to s = 50–70 mm)                               |          | 2                  |
| 95 mm (fit to s = 70–90 mm)                               |          | 3                  |
| 115 mm (fit to s = 90–110 mm)                             |          | 4                  |

### Range

| Order number | Range °C   |
|--------------|------------|
| 52 T*        | -20 ... 40 |
| 11 T         | 0 ... 60   |
| 27 T         | 0 ... 80   |
| 12 T         | 0 ... 100  |
| 20 T         | 0 ... 120  |
| 13 T*        | 0 ... 160  |

\* on request

See page 2 for accessories



### Selection Chart for Installation accessories

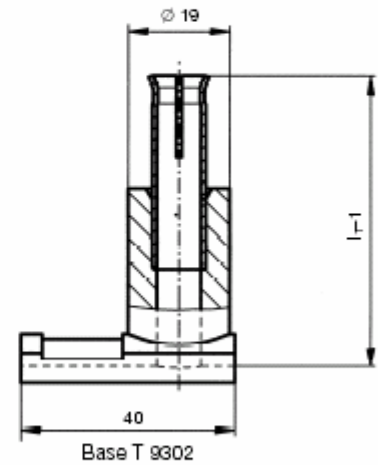
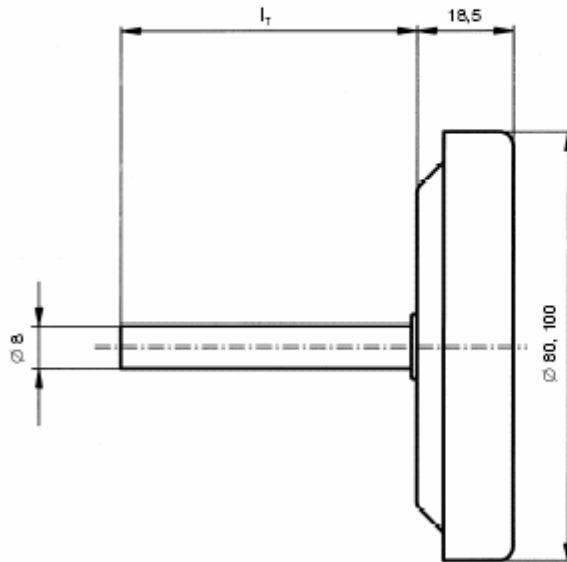
#### Base for insulating material thickness s:

|           |              |             |
|-----------|--------------|-------------|
| 30- 50 mm | Order number | T 9302.0000 |
| 50- 70 mm | Order number | T 9302.0001 |
| 70- 90 mm | Order number | T 9302.0002 |
| 90-110 mm | Order number | T 9302.0003 |

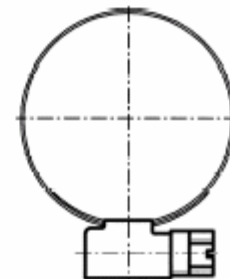
#### Hose clamp for pipe diameter D: DIN 3017

|                        |              |             |
|------------------------|--------------|-------------|
| 27-42 mm (¾-1¼ inches) | Order number | A 8476.0000 |
| 42-60 mm (1¼-2 inches) | Order number | A 8476.0001 |

### Dimensions



Base T 9302



Hose clamp A 8476

### Mounting instructions

