

Operation and Media Data

The calculation program is based on various media data. If you request a calculation for a medium which is not in our database, we will contact you. Usually a calculation for water and air is sufficient.

The maximum operating temperature for which we can calculate the thermowell ratings is limited by the available strength data.

The strength data were determined for the different materials up to an adequate temperature limit.

The thermowell calculation can be realized up to this limit only, even if you inquire in fact for a higher operating temperature.

➤	Medium	
➤	Temperature [°C]	
➤	Pressure [MPa]	
➤	Flow rate [m/s]	

Thermowell Data¹⁾

The specification of data marked by an arrow is indispensable for the calculation.

The figure ❶ indicates thermowells with thread connection, the figure ❷ thermowells for welding and those with flange connection.

We will add the data for the dimensions of the outside diameter according to our standards.

➤	Thermowell model	
➤	Material	
➤	Inside diameter [mm]	d1
	Outside diameter [mm]	F1
		F2
		F3
➤	Total length [mm]	L
❶➤	Length up to sealing face [mm]	U1
❶➤	Process connection	∅ E
❷➤	Length of the conical part [mm]	U
❷➤	Thermometer connection	∅ N

Diagrams of Thermowell Rating

(Please mark the desired diagram.)

<input type="checkbox"/> Stress diagram according to DIN 43772 <input type="checkbox"/> Diagram of the permissible operating pressure in dependence on the temperature <input type="checkbox"/> Diagram of the permissible flow rate in dependence on the length of the thermowell

¹⁾ according to our data sheets 8310, 8311, 8312, 8320

