

# Refractory brick stopper

## In line with the WIKA refractory brick drilling system

### Model RS80

WIKA data sheet AC 80.24

#### Applications

- Prevents refractory brick from entering a TC82/TC83 Calitum® high-temperature thermocouple nozzle

#### Special features

- Prepares an accurate and flat refractory brick top surface ready for drilling
- Produces an accurate and smooth support face for the primary protection tube
- Refractory brick stopper in accurate position inside of the process nozzle, adjusted to the nozzle height



Refractory brick stopper, model RS80

#### Description

The refractory brick lining bottom face of a conventional 24/7 temperature monitoring technology must be even and flat before a hole can be drilled and a model TC82/TC83 Calitum® high-temperature thermocouple can be inserted. During installation of the refractory brick lining it's possible that excess material e.g. glue or brick gets into the process nozzle.

Any excess of glue or brick at the bottom of the process nozzle causes the face to be irregular. Furthermore, a contact surface that is not flat can lead to an off-centre and inclined position of the bore.

Such a surface will cause the diamond core drill bit to start the hole off-centre and then continue at an angle to the nozzle. Due to an inexactly executed hole, there is a possibility that the high-temperature thermocouple will be installed in an inclined position, which can lead to break the first process-side protection tube (primary protection tube) and secondary protection tube due to movement of refractory brick lining.

The WIKA refractory brick stopper keeps excess material out of the process nozzle. The protection will be realised via a sealing plate flush with the bottom of the process nozzle to reactor shell transition. Alternative preventive measures can't be used reliably to keep residues away.

The refractory brick stopper produces a smooth flat bottom face which allows an accurate and straight drill which is on the centre line of the process nozzle.

The primary protection tube is supported by the top face of the newly installed refractory brick. This makes sure that this protection tube can be installed into an accurate and correct position. It will be located on the centre line of the process nozzle. This also guarantees the correct distance to the process flange sealing face.

## Specifications

Specifications	
Flange size	ASME 2 ... 6" or DN 50 ... DN 175
Process nozzle ID	1.9 ... 6" [44 ... 170 mm]
Nozzle height	According to the configuration Usually 4 ... 6" [100 ... 150 mm]
Material	<ul style="list-style-type: none"><li>■ Stainless steel</li><li>■ "S" grün®</li><li>■ PVC</li></ul>

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