

## Process connector CLEANadapt KSF

**FOOD**

### Simplified clamps for adjustable depth or non-contact temperature measurement „Clamp & Play“ – Easy & sealed adaptation

With the CLEANadapt KSF installation system, a **temperature sensor without thread** is fastened either in a weld-in sleeve or in a weld-in thermowell. By means of a compression fitting this is easy to realize, without dead space. By tightening the clamp screw, a cone-shaped **PEEK sealing ring without elastomers** provides a reliable seal up to an **operating pressure of 10 bar**.

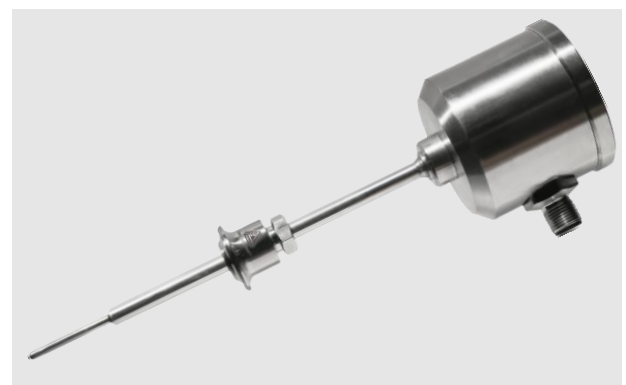
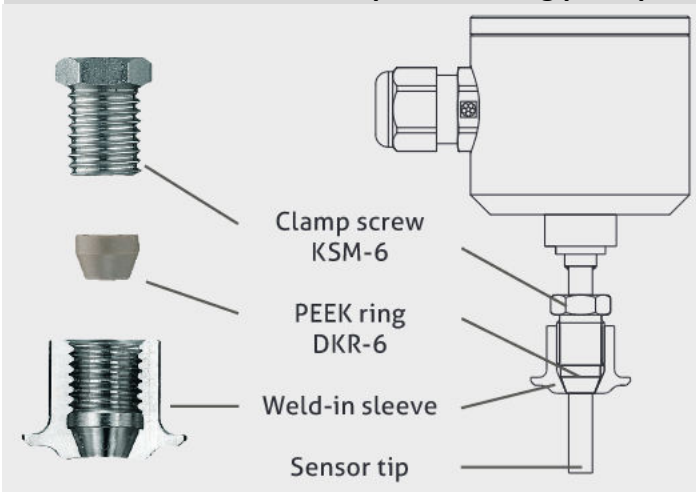
- **Thermowell option:** a ball socket with integrated thermowell is **permanently welded into tanks or pipes**. The slim probe tip of the sensor is inserted into this thermowell and is therefore **not in contact with the medium**. The sensor can thus be removed for **recalibration or replacement** at any time without opening the process, i.e. **without downtime of the plant**.

- **Welding sleeve option:** A collar sleeve or ball sleeve is **welded into tanks or pipes**. The probe tip of the sensor can now be fastened in this sleeve **with adjustable depth, in contact with the medium**, by means of a **compression fitting**. This makes it possible to change the immersion depth at any time or to use **one probe length for different nominal pipe diameters**.

#### Available Temperature sensors




- TFP-06 / TFP-49 / TFP-69 / TFP-169 / TFP-189
- Accuracy class: A | 1/3B | 1/10B
- Options: 2x Pt100 | LCD display | transmitter

#### Schematic of the CLEANadapt KSF sealing principle






The easy clamp connection for every application, in all pipes and tanks

**TFP Temperature sensor** (Details see respective product information)

	Type	Head Ø	Pt100	Transmitter available	Electrical connection	Probe length in mm (Special lengths on request)
	TFP-49	55 mm	✓	✓	M12 plug PG cable gland	50...250
	TFP-49.2	55 mm	✓ (2x)	-	M12 plug PG cable gland	20...500
	TFP-69	55 mm	✓ (2x)	✓ (2x)	M12 plug	20...500
	TFP-169	18 mm	✓	✓	M12 plug	50...250
	TFP-189	18 mm	✓	-	PVC Fixed cable	50...250
	TFP-189.2	18 mm	✓ (2x)	-	PVC Fixed cable PTFE Fixed cable	20...500
	TFP-06	6 mm (no head)	✓	-	PVC Fixed cable	50...250
	TFP-06-IP68	6 mm (no head)	✓	-	PTFE Fixed cable Protection class IP68	50...250

**Thermowells / Weld-in sleeves** (Details see product information)

**Material:** Stainless steel 1.4404 (316L), Option: 1.4435 with 3.1 certificate

	Type	Application	Sleeve length	For probe length
	ESH-KM12	Thermowell in ball shape for sloped weld fixation in pipes, pipe knees and tanks <b>For probe diameter Ø6mm</b>	85 mm 150 mm 230 mm 400 mm	From 100 mm From 165 mm From 245 mm From 415 mm
	ESH-KM12-6	Thermowell in ball shape for sloped weld fixation in pipes, pipe knees and tanks <b>For probe diameter Ø4mm</b>	85 mm 150 mm 230 mm 400 mm	From 100 mm From 165 mm From 245 mm From 415 mm
	EMK-25/76	Weld-in collar sleeve for pipes and tanks	17 mm	Adjustable depth
	KEV-25/76	Weld-in ball sleeve for sloped weld fixation in pipes, pipe knees and tanks	17 mm	Adjustable depth