Product Information FLEXadapt ESF

FOOD

Build-In System G3/8" FLEXadapt ESF



Application / Specified Usage

- Safe temperature measuring in pipes and vessels without opening the process in connection with temperature sensor TSBF and TSMF with process connection M01 and M02
- Possibility of demounting the temperature sensor without opening the process and without electrical disconnection > avoiding downtime of the equipment at calibration and maintenance!
- · Perfectly suitable at small pipe diameters

Application Examples

- Flexible applicable for nearly every temperature measuring task in pipes and vessels
- Safe temperature measuring in hotsteam- and pressure pipes (enclosed process)
- · Monitoring of CIP-/SIP-cleaning

Hygienic Design / Process Connection

- · Hygienic and easy sterilizable installation by using Negele build-in system ESF
- · CIP-/SIP-cleaning up to 140 °C / 284 °F
- · Product contacting materials are compliant to FDA

Features

- · Short reaction time, very compact measure point
- Threaded thermowells ESF-G1/2" for CLEANadapt can be combined with many other standard adapters. Therefore they are suitable for each application and process connection (e.g. Tri-Clamp, dairy flange (DIN 11851), DRD, Varivent, BioControl...)
- · Quick and easy to install with an orbital welding machine
- Temperature sensors and build-in systems with pre-defined, concerted standard lengths, reducing the variety, economize costs for storage and simplify the maintenance.



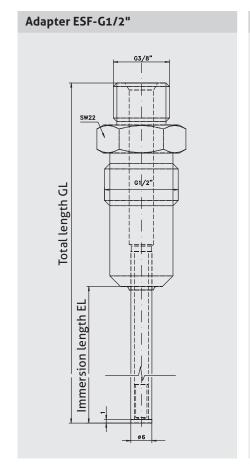
Reaction Time

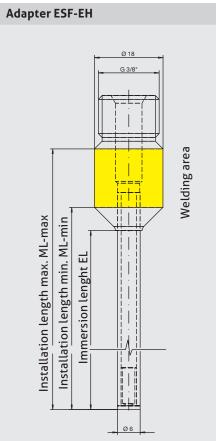


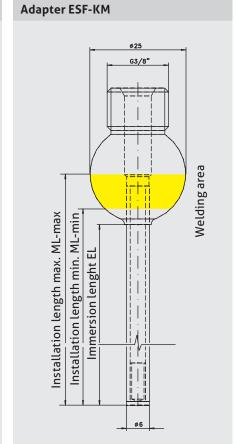
We recommend the use of heatconductive paste to reduce the reaction times about 50 % as mentioned!

Specification of Measure Point and Adapter					
Material	thermowell	stainless steel 1.4404 / AISI 316L			
Surface	wetted parts optional	$R_a \le 0.8 \ \mu m$ (not in welded areas) electro polished $R_a \le 0.6 \ \mu m$, $R_a \le 0.4 \ \mu m$			
Sensor Connection	thread	G3/8"			
Sealing Principle		weld-in thermowell			
Operating Pressure		50 bar / 725 psi max.			

Table Reaction Time for build-in Temperature Sensor	ESF-G1/2"-40	ESF-EH-125	ESF-KM-125
Medium temperature 90 °C / 194 °F			
t ₅₀	7.8 s	8.0 s	8.0 s
t ₉₀	21.1 s	24.0 s	24.0 s







Adapter ESF-G1/2"					
Type / Order Code		Immersion length EL	Total length GL	TSxF Process connection	TSxF Probe length
ESF-G1/2"-25	Threaded thermowell for installation into existing G1/2" CLEANadapt measure point	27 mm	85 mm	M01, M02	/ 083 /
ESF-G1/2"-40		41 mm	99 mm	M01, M02	/ 097 /
ESF-G1/2"-100		104 mm	162 mm	M01, M02	/ 160 /

Adapter ESF-EH					
Type / Order Code		Immersion length EL	Installation length ML	TSxF Process connection	TSxF Probe length
ESF-EH-50	Weld-in thermowell for retrofit mounting of clamp connection (Type: EMK-25/76 or KEV-25/76) or for mounting into pipes and vessels	50 mm	5671 mm	M01, M02	/ 083 /
ESF-EH-125		127 mm	133148 mm	M01, M02	/ 160 /

Adapter ESF-KM					
Type / Order Code		Immersion length EL	Installation length ML	TSxF Process connection	TSxF Probe length
ESF-KM-50	Weld-in thermowell with weld-in ball for mounting into pipe elbows or vessels	50 mm	5663 mm	M01, M02	/ 083 /
ESF-KM-125		127 mm	133140 mm	M01, M02	/ 160 /