



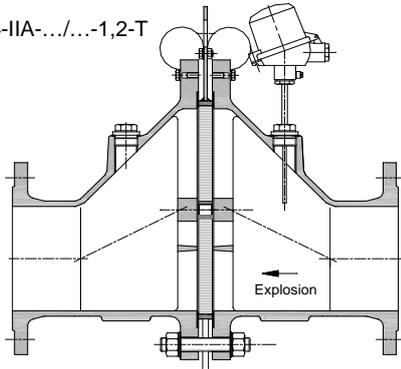
Temperature sensor (Resistance thermometer)

Application

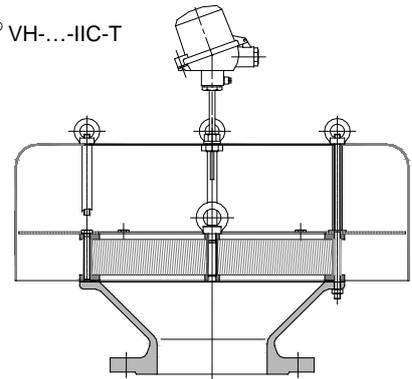
For monitoring the temperature on the flame arrester element on the unprotected side (side of ignition source), mainly where a flow of flammable mixture is present for longer time. This could be e.g. in pipes to flares, ovens, fans, recuperation or thermal recovery units. In case of a temperature rise a stabilized burn situation could be present. Then the thermometer has to give a signal which must be used to start emergency safety reactions (e.g. inerting, stoppage of flow etc.). The tripping temperature as low as possible, according to PTB recommendation $\leq 80 \text{ }^\circ\text{C}$ or 20 K above max. operating temperature. Additional protective measurements as per VdTÜV-guide line 967, §10.2.5 shall be installed.

Examples: Temperature monitoring for KITO® In-line deflagration- and detonation flame arresters

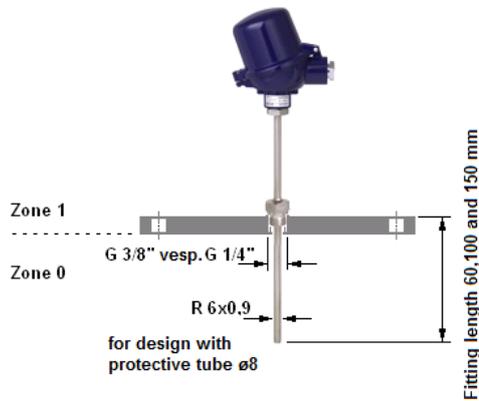
KITO® EFA-Det4-IIA-.../...-1,2-T



KITO® VH-...-IIC-T



Design



	standard	optionally
installation	screwed into armature housing -the required number, the installation length and the threaded connection depend on the type and nominal diameter-	
protection	Ex-i (ATEX) Gas, according to guideline 2014/34/EC TÜV 10 ATEX 555793X	
type	TR10-C [TR 201]	
sensor	1 Pt 100, class B (IEC 60751)	
wiring configuration	4-wire circuit	
connection head	BSZ-H, aluminum, high hinged cover	stainless steel, PA
protection tube	without	stainless steel(1.4571), Hastelloy C22 (2.4602)
certificate	-	test report 2.2 for metal wetted parts
Additional equipment	-	Digital Temperature-Transmitter T32 with HART®-Protocol, output signal 4 - 20 mA, 2-wire, intrinsically safe, suitable for SIL-applications, measuring range 0...+ 300 °C, configurable via software