







- Independent of mains power supply due to thermo-electric safeguarding
- Available with contact switch for ignition with electrode
- Control valve S11T..R15 suitable for gas inlet pressures up to 1.5 bar

Pilot burners ZTA, ZT 40 and ZTI 55

- Flame monitoring using a thermocouple, and in the case of ZTI 55 also using an ionization electrode
- Thermo pilot burners, optionally available with forced draught connection
- Electrical ignition with an electrode
- Save space due to their compact dimensions
- Different lengths make them suitable for individual installation situations





Control valve S11T..S with switch to control an ignition transformer

Application

Control valve S11T

For thermo-electric safeguarding of gas-fired installations of any kind in conjunction with thermo pilot burners ZT.

The control valve S11T operates independently of mains power supply.

The control valve S11T..S is fitted with a switch to control an ignition transformer.

Pilot burners

For safe ignition and thermo-electric safeguarding in conjunction with control valve S11T of atmospheric gas burners on furnaces in the metal, ceramics and non-ferrous metal industries, on heat treatment installations or in applications without voltage supply.

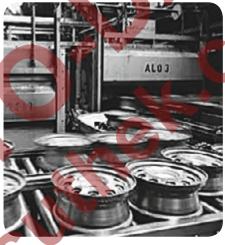
Suitable for operation with natural gas, town gas or LPG.

The pilot burners are ignited using an ignition electrode.

In the case of pilot burners ZTI 55, the flame is monitored via a thermocouple. An ionization electrode is also fitted, whose signal current may be used to release an additional valve, for example.



Pilot burner ZTA with grounding cable and thermo-cable, pilot burner ZT 40 with protective tube and air nozzle



Wheel rim hardening installation



Annealing furnace



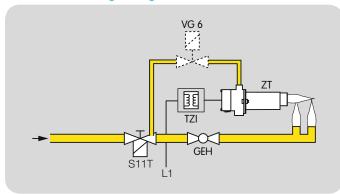
Intermittent shuttle kiln in the ceramics industry





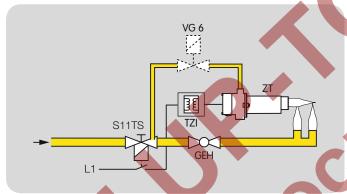
Examples of application

Thermo-electric safeguarding



As soon as voltage is supplied to the ignition transformer, the pilot burner is ignited using an ignition spark. An additional gas solenoid valve VG 6 can be used as a safety valve, e.g. for overtemperature shut-down or power shortage cut-out.

Thermo-electric safeguarding with electrical ignition via contro valve



A contact is closed via the switch on the control valve S11T...S so that voltage is supplied to the ignition transformer. The pilot burner is ignited using an ignition spark.

An additional gas solenoid valve VG 6 can be used as a safety valve, e.g. for overtemperature shut-down or power shortage cut-out.

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Type code conflor valve sin					
Code		Description			
SIIT		Control valve			
15 20 25		Nominal diameter 15 20 25			
R		Rp internal thread			
01 15		Inlet pressure p _u max. 100 mbar max. 1500 mbar			
S		With switch			

Type code Atmospheric pilot burner ZTA

Code	Description
7TA	Thermo pilot burner for control valve S11T
ZIA	memo pilor borner for confiror valve 3111
В	Natural gas
G	Propane/propane, butane/butane

Type code Pilot burner ZT 40 with protective tube, either atmospheric or with forced air supply

Code	Description
ZT 40	Thermo pilot burner with protective tube
B D G	Natural gas Town gas LPG
-200	Protective tube length [mm]
/100*	Protective tube length [mm]
Α*	Atmospheric

^{*} Available either with flame tube and air line connection or as an atmospheric burner,

Type code Atmospheric pilot burner with ionization electrode **ZTI 55**

Code	Description
ZTI 55	Thermo pilot burner with ionization electrode
B G D	Natural gas LPG Coke oven gas, town gas
105	Protective tube length [mm]
/120	Protective tube length [mm]
A	Atmospheric

Technical data

Control valve S11T

Gas types: natural gas, town gas or LPG. Pilot gas connection: for 8 x 1 tube.

Opening time: 10-15 s.

Closing time (decrease of thermo-electric voltage + valve closing

time): < 30 s.

Ambient temperature: -20 to +60°C.

Thermo-electric voltage: extinction voltage: 8 mV. Max. inlet pressure p_u : S11T..01 = 100 mbar, S11T..15 = 1.5 bar.

Pilot burner

Burner	Operation	Gas pressure	Prated
	with	[mbar]	[kW]
ZTA B	Natural gas	12 – 40*	1
ZTA G	LPG	12 – 40*	1
ZTA B	Town gas**	20-40*	1
ZT 40BA	Natural gas	20-35*	1
ZT 40GA	LPG	40-60*	1
ZT 40DA	Town gas	12-28*	1
ZT 40B/100	Natural gas	20-40*	1
ZT 40G/100	LPG	40-60*	1
ZT 40D/100	Town gas	12-28*	1
ZTI 55B	Natural gas	12-50	3.3
ZTI 55G	LPG	12-50	2.5
ZTI 55D	Town gas	20-60	2.3

^{*} In the case of higher gas pressures, fit a gas restrictor orifice.

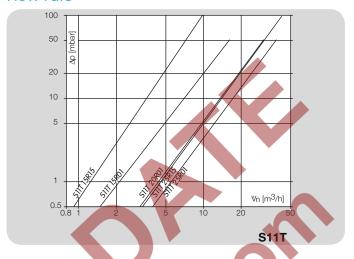
Gas connection: compression fitting for tube d = 8 mm.

Thermo-electric voltage: under load: 10–15 mV, in idle state: 20–25 mV. Extinction voltage: < 8 mV.

Maintenance cycles

The system requires little servicing. Check the safety time of S11T/S11T..S once a year.

Flow rate





Detailed information on this product



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^{**} For this, the gas nozzle must be replaced.