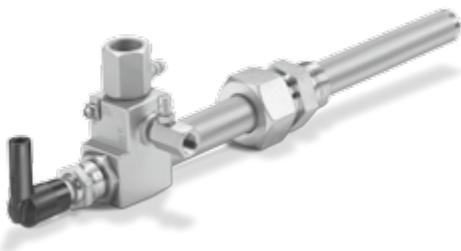
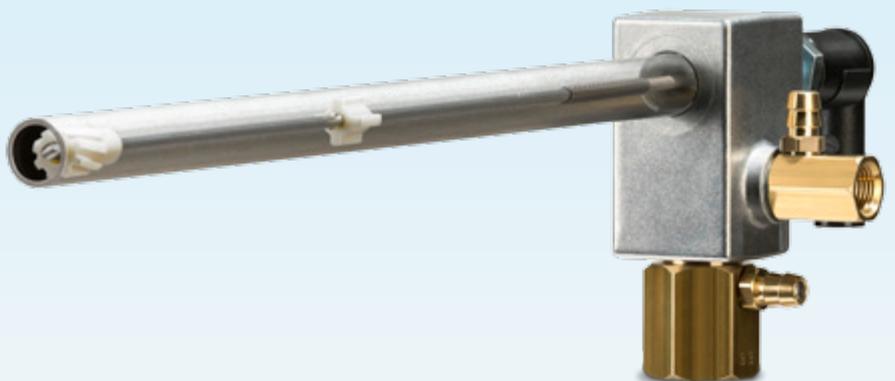


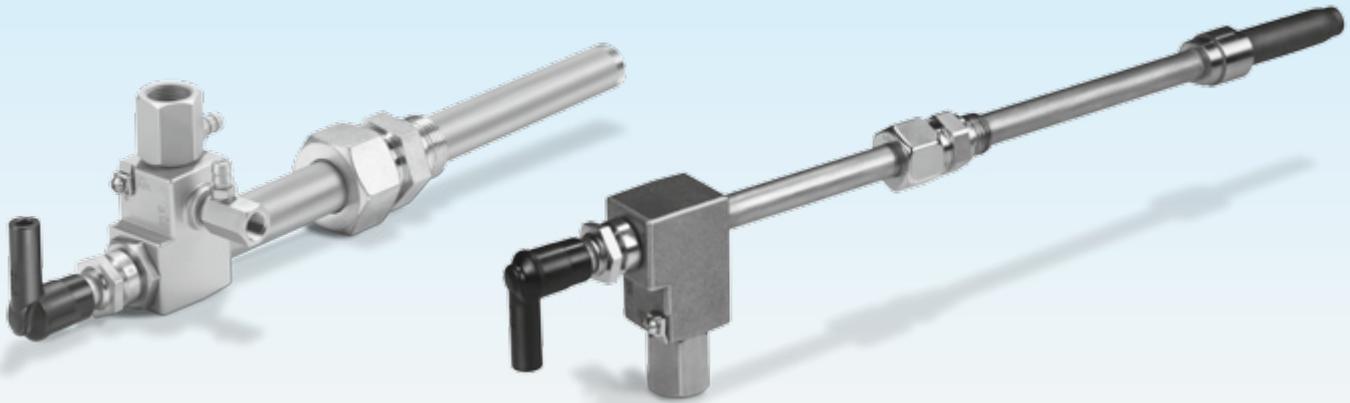
Pilot burner ZMI, ZMIC

Product brochure · GB

7 Edition 04.13



- Pilot burner with forced air supply
- Safe flame control thanks to ionization electrode
- Reliable electrical ignition
- Space-saving slim design due to single-electrode operation
- Optimum positioning thanks to moveable mounting device
- Different lengths make it suitable for many installation situations
- Maintenance-friendly thanks to simple design
- Can be used in many applications
- Optional: ZMIC with ceramic tip



ZMI with a single electrode for igniting and monitoring

ZMIC with ceramic tip

Application

For safely igniting gas burners on furnaces in the metal, ceramics and non-ferrous metal industries and on heat treatment installations.

The ZMI can also be used as an independently operated burner.

Suitable for operation with natural gas, town gas/coke oven gas or LPG.

The pilot burner is ignited electronically and monitored by a single ignition and ionization electrode.

The ZMIC 28 with ceramic tip has a longer, sharper flame. The ceramic tube has a longer service life and is suitable for higher temperatures.



Industrial furnace for housings

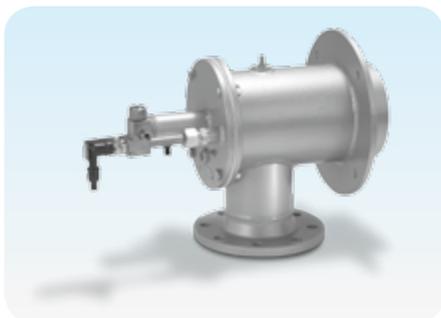
Examples of application



Main burner BBG with integrated pilot burner ZMI



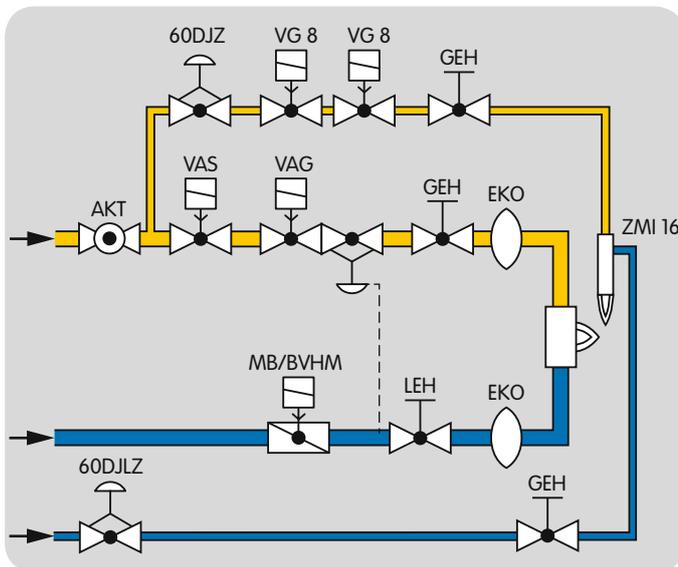
Roller hearth kiln in the ceramics industry



Main burner ZIO with integrated pilot burner ZMI

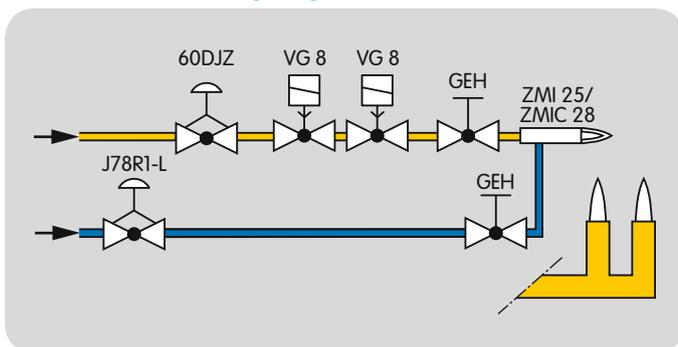
In the case of combined pilot and main burners, EN 746-2:2010 stipulates the monitoring of pilot and main burner via the automatic burner control unit. Exceptions are permitted provided that the safety of the installation is not impaired.

Alternating pilot burner with modulating-controlled main burner



As soon as voltage is supplied to the ignition transformer, the pilot burner ZMI is ignited using an ignition spark. If the pilot burner detects a stable ionization signal, the enable signal for operation of the main burner is issued via the automatic burner control unit. The main burner is ignited. If the main burner provides a stable flame signal, the pilot burner ZMI can be switched off.

Igniting a flame curtain



As soon as voltage is supplied to the ignition transformer, the pilot burner ZMI is ignited using an ignition spark. If the pilot burner provides a stable ionization signal, the enable signal for the flame curtain is then issued via the automatic burner control unit. The flame curtain is ignited.

Type code

Code	Description
ZMI	Pilot burner
ZMIC	Pilot burner with ceramic flame tube
16	16 mm burner size
25	25 mm burner size
28	28 mm burner size
T	T-product
B	For natural gas
G	For LPG
D	For town gas/coke oven gas
150	Flame tube length [mm]*
200	
300...	
R	Rp internal thread
N	NPT internal thread
K	Bellows unit

* Burner lengths as of 200 mm in 100 mm increments/
lengths of the ZMIC 28..K as of 250 mm in 50 mm increments

Technical data

Capacity:

ZMI 16: 1 to 2 kW (3.8 to 7.6 10³ BTU/h),
ZMI 25: 2.5 to 4 kW (9.5 to 15.1 10³ BTU/h)
(1.5 to 3.3 kW when used with town gas,
coke oven gas),

ZMIC 28: 2.5 to 4.2 kW
(9.5 to 15.9 10³ BTU/h).

Capacities in kW refer to the lower calorific
value H_l and capacities in BTU/h refer to
the upper calorific value H_o.

Gas inlet pressure:

ZMI: up to 80 mbar (up to 32 "WC),
ZMIC: up to 100 mbar (up to 40 "WC),
air inlet pressure: up to 120 mbar
(up to 47 "WC),

each depending on the gas type.

Burner pressures: see

www.docuthek.com → Elster Kromschroder

Search term: ZMI, ZMIC

Kind of document: Flow rate curves

Registration in the Docuthek required.

Burner length increments: 100 mm (4"),
length increments of the ZMIC 28..K:
50 mm (2").

Gas types: natural gas, LPG (gaseous) and
coke oven gas; other gases on request.

For cold air only.

Flame control: with ionization electrode.

Ignition: direct spark ignition (5 kV ignition
transformer).

Angle plug: interference-suppressed.

Housing: aluminium.

Flame tube:

ZMI: heat-resistant steel,
ZMIC: ceramic flame tube.

Max. temperature at the tip of the flame
tube:

ZMI: 1000°C (1832°F),
for lambda < 1: 900°C (1652°F),
ZMIC: 1450°C (2642°F).

Maintenance cycles

We recommend a function check at least
once a year.

Detailed information on this product



http://docuthek.kromschroeder.com/doclib/main.php?language=1&folderid=203060&by_class=6

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