

Gas fired igniters

Igniter size 1 | Heat release 250 kW



Hegwein gas fired igniters

Hegwein offers gas ignition burner solutions for industrial use in accordance with currently applicable regulations and on the basis of technical expertise gained from more than 70 years of experience. Flexible product variants make it possible to configure burners suitable for a wide range of industrial applications. Both standard devices and customised and application-specific special solutions guarantee a high degree of quality.

Features

- **Tight and long ignition flame**
- **Compact modular design**
 - Integrated spark transformer, flame monitor or burner control unit
 - Reliable spare parts availability
 - Optimal electromagnetic compatibility
 - Straightforward installation and commissioning
 - Various ignition burner series with different options available
- **Gas ignition burner with heat release up to 10 MW in accordance with NFPA**
- **Explosion protection**
 - Zone 1/21 and Zone 2/22 (ATEX, IECEx, FM-Ex)
- **Approvals***
DVGW, AGA, FM, EAC, SIL2/3 and cULus
- **Customised versions on request**

Benefits

- **High availability**
 - Highest operational and functional reliability
 - Electrical and mechanical components can be replaced separately
- **Flexible gas ignition burner design**
 - Customer-specific/plant-specific solutions
 - Fuel flexibility
 - Optical flame monitor can be integrated
 - Configurable flame monitor safety time
 - High degree of protection for different ambient conditions
 - Standard tube lengths from 240 to 18000 mm (available in 10 mm increments), tube split available optionally
 - Broad range of applications in industrial combustion technology, e.g. in chemical, petrochemical and thermal process plants, as well as in power plants

Gas fired igniters | all sizes

Heat release (kW)	Z	2	4	45	120	250	600	1000	2000
	P	–	8	–	300	1000	6000	10000	–
Flame length (mm)	Z	80	100	500	600	1200	2000	2000	2500
	P	–	200	–	800	2000	4000	4500	–
Tube diameter (mm)	Z	15	25	35	48/50	65/70	90	135	160
	P								
Igniter size	Z	F	U	P	0	1	2	3	4
	P								

Gas fired igniters | all series

ZG	No electrical components integrated
ZT	Integrated spark transformer
ZA	Integrated spark transformer and flame monitor for intermittent operation
ZDA	Integrated spark transformer and flame monitor for continuous operation
ZR	Integrated spark transformer and burner control unit for intermittent operation
ZD	Integrated spark transformer and burner control unit for continuous operation
P ...	Integrated spark transformer and flame monitor for intermittent or continuous operation, increased thermal output in accordance with NFPA

* Approval of integrated flame monitor

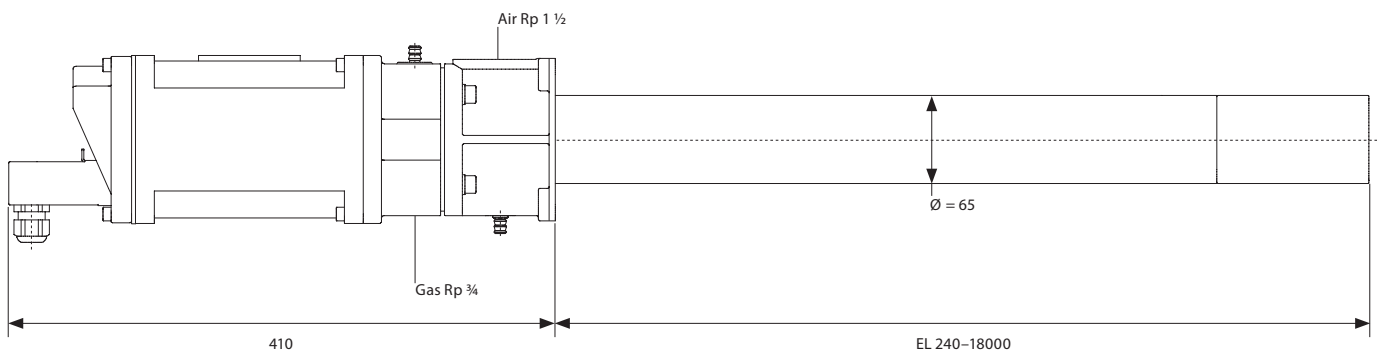
Technical data | gas fired igniter 1 | 250 kW

Nominal heat release	250 kW
Flame length	1200 mm (with free burnout)
Outer tube diameter	Ø 65 mm
Outer tube length	240 ... 18000 mm
Gas port	Rp ¾, top or bottom
Air port	Rp 1 ½, can be rotated by 4 x 90°
Ambient temperature	-30 ... +60 °C (standard) -40 ... +80 °C (special version)

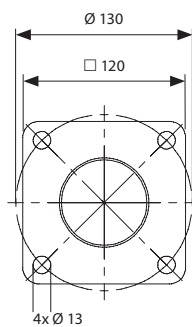
Protection rating	IP 54 (standard) IP 65 (special version)
Supply voltage	230 VAC (standard) 115/125/250 VAC (special version)
Gas operating pressure	50 ... 150 mbar
Gas volume flow (V_n)	25 m ³ /h
Air operating pressure	35 mbar
Air volume flow (V_n)	120 m ³ /h

Standard specifications for natural gas, standard conditions and an outer tube length of 1 m

Gas fired igniter size 1 | series ZA, ZDA | side view



Mounting flange



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