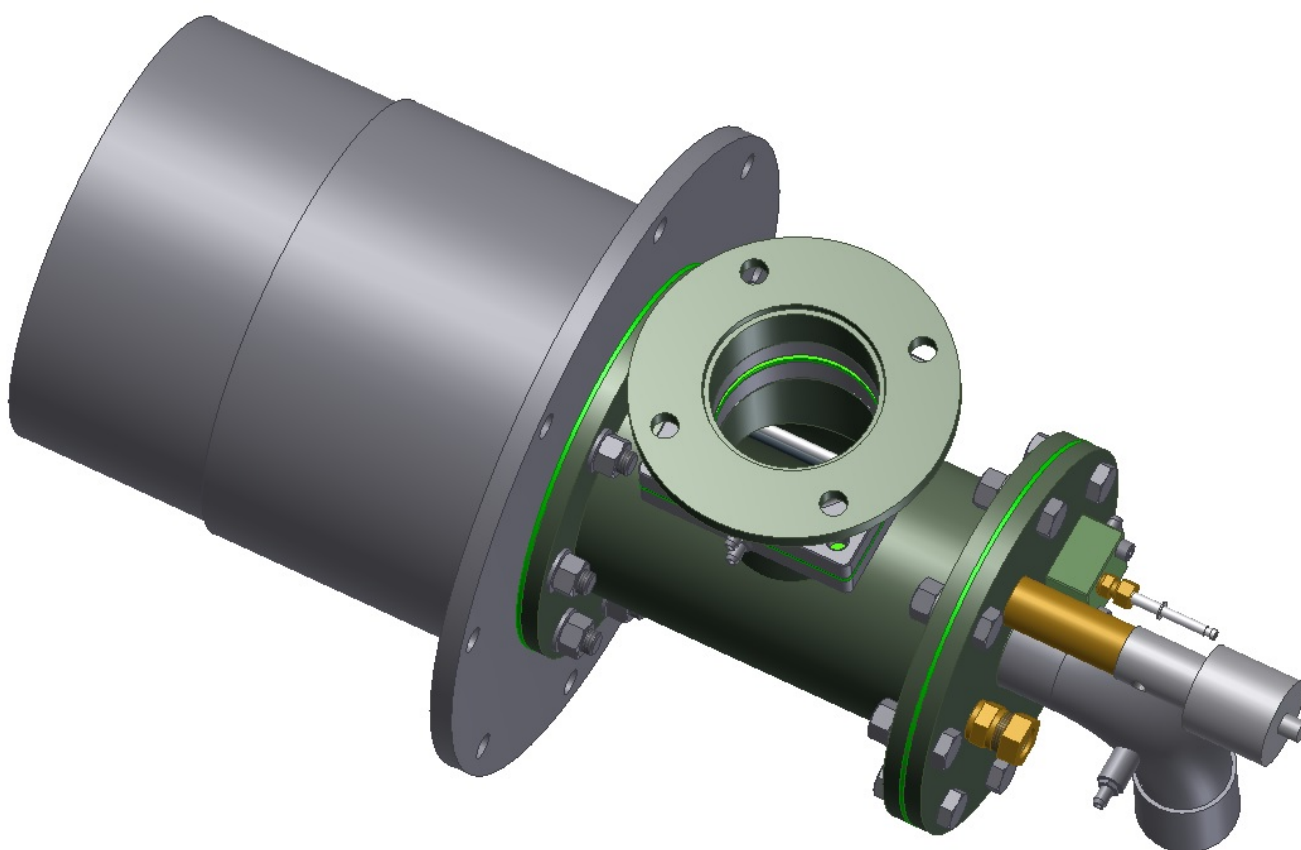


HIGH-VELOCITY BURNER SPG-25/80/120



DATA SHEET

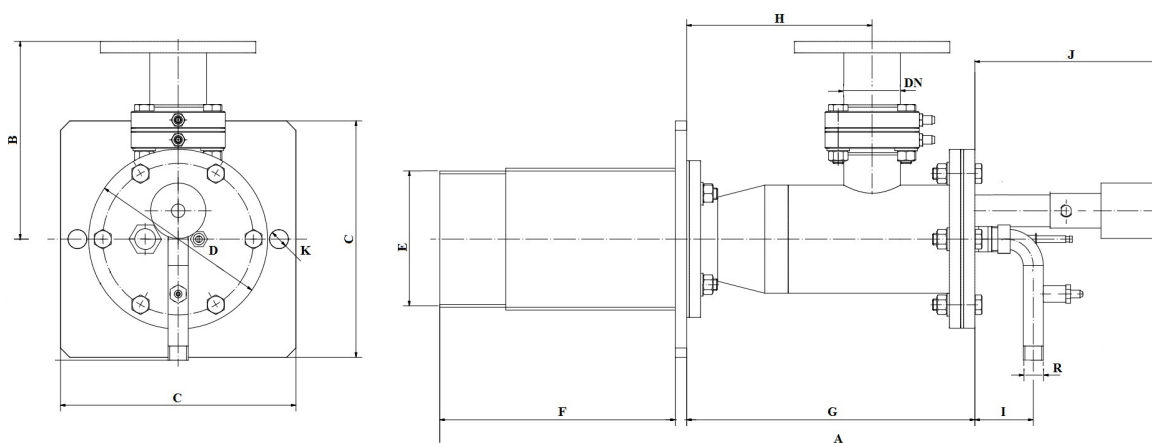
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Description and Technical Characteristics of the SPG Burner

The SPG burner is designed for direct gas combustion in various types of furnaces and heating devices. The nominal thermal power of the burner, for a given gas pressure, is determined by the hydraulic resistance of the gas nozzle and the flame outlet block.

The axial flame velocity in the outlet opening of the SPG burner block is approximately 75 m/s, which ensures improved heat transfer and a more uniform temperature distribution in the heating chamber compared to burners with low axial flame velocity.

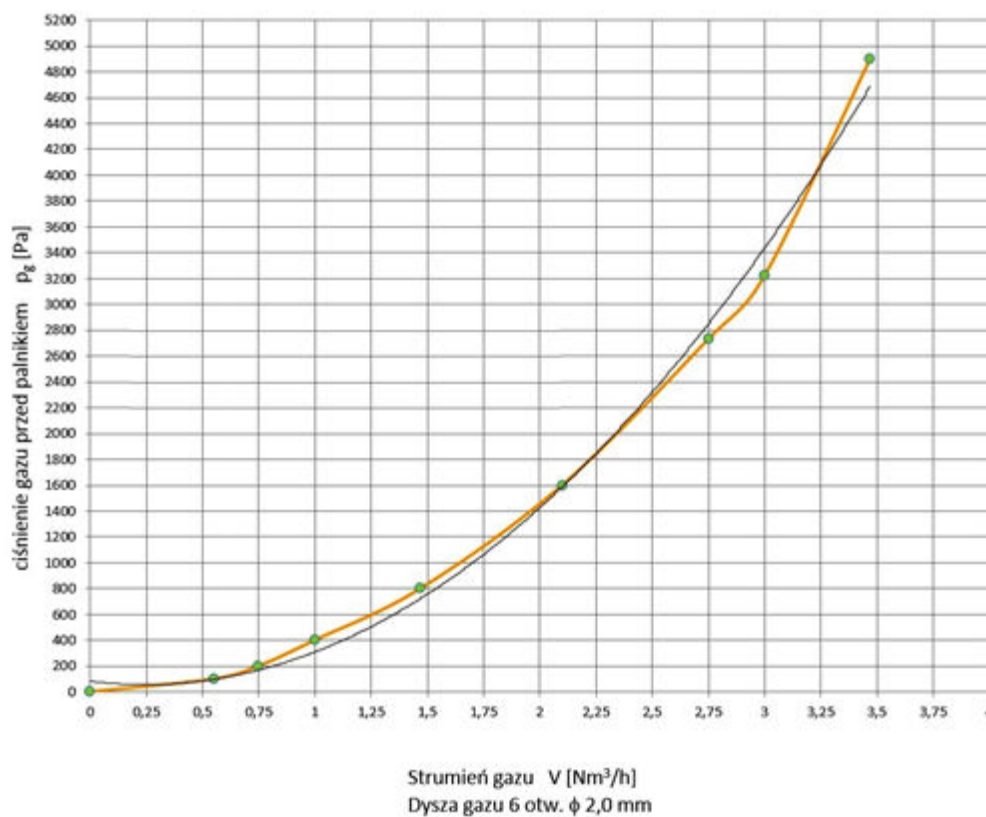
The design features of SPG burners with nominal thermal power ranging from 25 to 120 kW, as well as their dimensions, are shown in the drawing below.

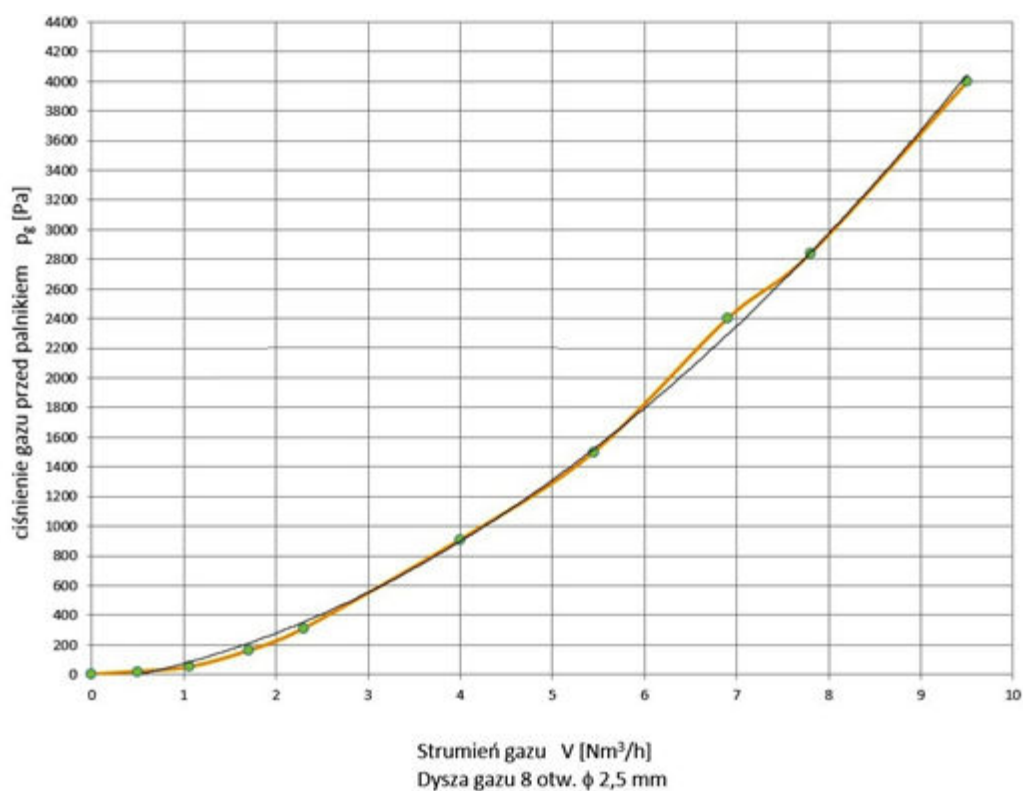
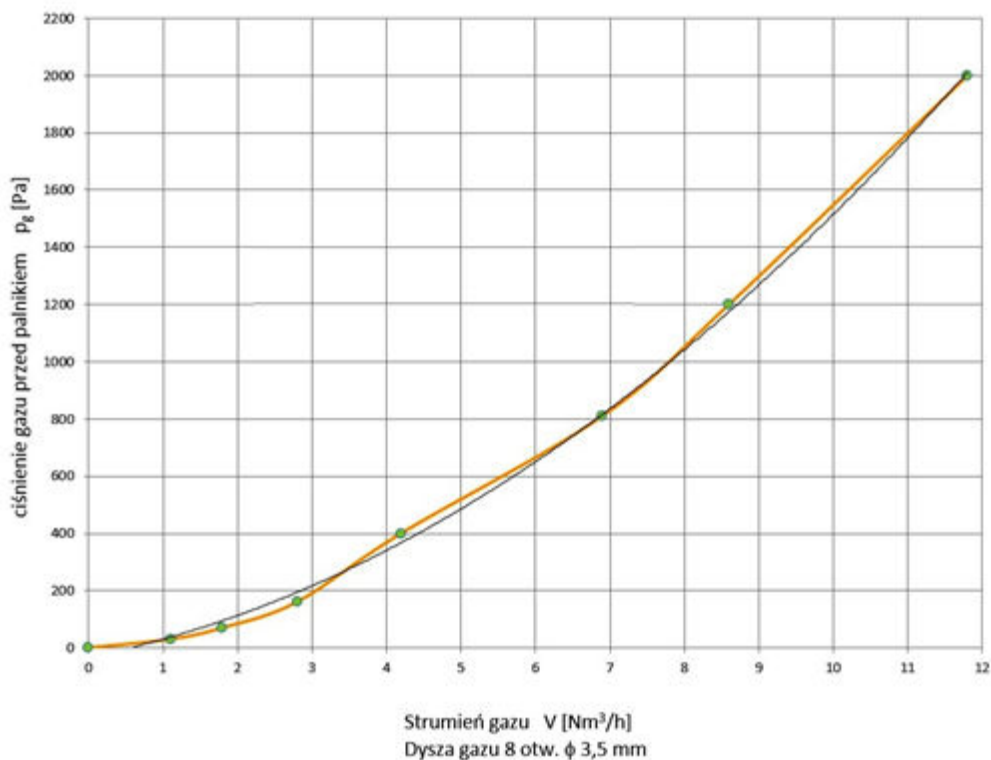


Burner type	Rate kW	Dimensions												Mass
		A	B	C	DN	E	F	G	H	I	J	K	R	kg
SPG -25	25	774	230	250	32	150	250	308	213	62	204	20	3/8"	41
SPG -80	80	772	209	250	50	150	250	306	197	62	204	20	1/2"	42
SPG -120	120	782	209	305	50	196	260	306	197	62	204	20	1/2"	47

Technical Data

Type of burner by gas combustion method:	diffusion
Nominal thermal power:	25 / 80 / 120 kW
Power adjustment range:	1÷10
Type of control:	continuous or “high”, “low”
Gas type:	natural gas E group, coke-oven gas
Gas inlet pressure:	2,5 ÷ 10 kPa
Combustion air inlet pressure:	60 mbar
Ignition:	spark
Flame monitoring:	UV detector

Flow characteristics of the SPG - 25 burner

Flow characteristics of the SPG - 80 burner**Flow characteristics of the SPG – 120 burner**

Materials of Burner Components

- ✓ Body: structural steel – surface protected against corrosion
- ✓ Gas nozzle: heat-resistant steel
- ✓ Housing of ceramic burner block: heat-resistant steel
- ✓ Burner plate: structural steel
- ✓ Flame block: ceramic

Applications

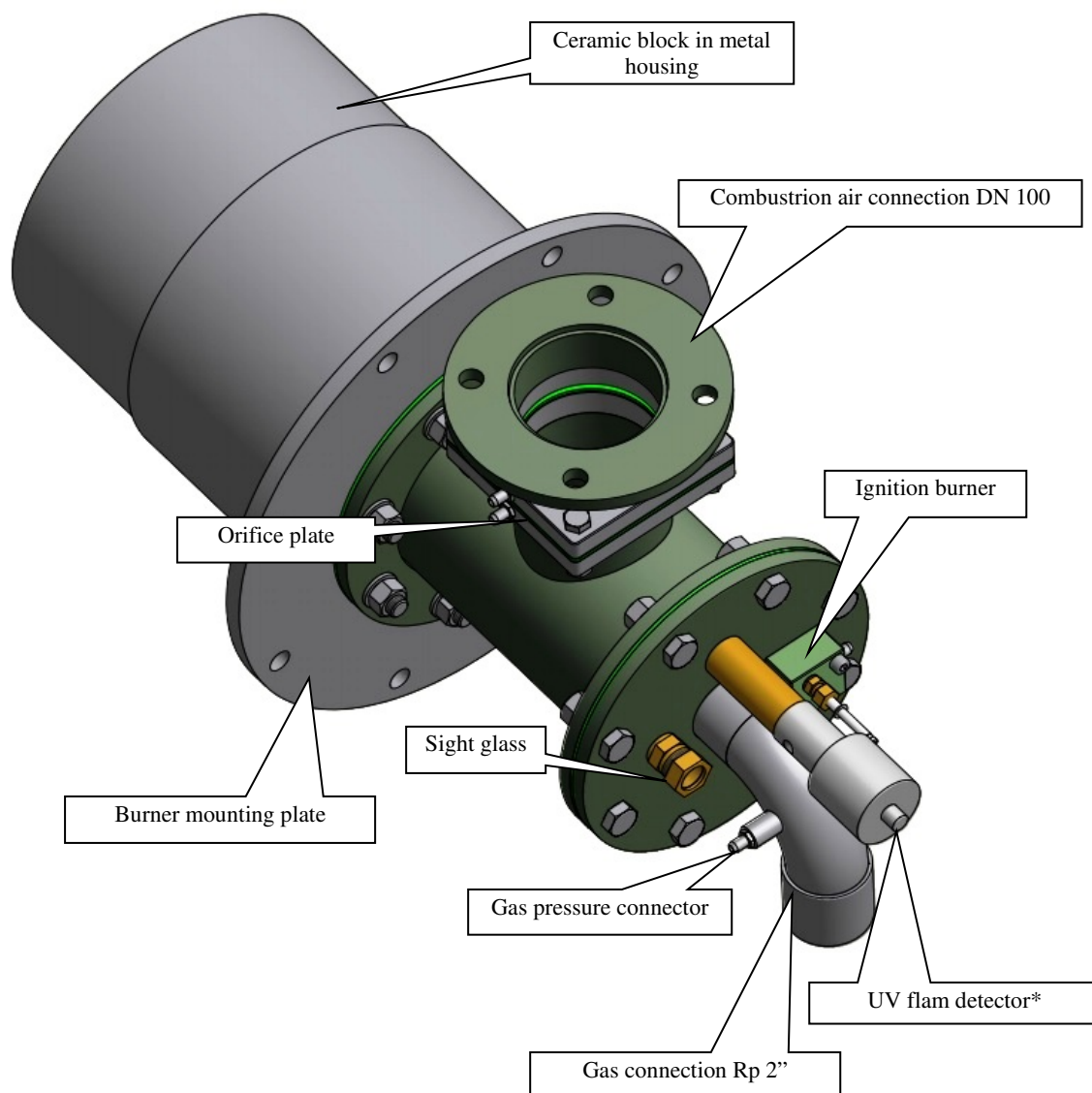
- ✓ Heat treatment furnaces with fibrous lining or ceramic refractory – periodic or continuous operation
- ✓ Heating furnaces with fibrous lining or ceramic refractory – periodic or continuous operation
- ✓ Periodic furnaces for firing ceramic products
- ✓ Industrial heating devices

Note

The SPG burner does not require ongoing adjustment during normal operation. Its operating parameters are set or modified during the start-up of the equipment in which it is installed, or during servicing.

SPG Burner Equipment

The SPG burner includes the necessary fittings and accessories enabling safe and automatic ignition, supervision of proper operation, monitoring, and adjustment of operating parameters. The equipment forming part of the SPG burner is shown in the drawing below.



* In burners operating in continuous-operation furnaces at temperatures below 750°C, the UV flame detector is equipped with a shutter used to verify the correctness of its operation..