

BLAST PILOTS

PBST & PBST-W/X SERIES

FEATURES

- Nozzles: AISI304
- Nozzles (on request): AISI310
- Mixture pressure: 2÷6 mbar
- Air pressure: 30÷70 mbar
- Gas pressure: 30÷70 mbar
- Primary aeration: 70% to 100%
- Adequate to different types of gas: CH4/L.P./propane/etc
- Excellent flame stability.
- Wide turndown range.
- Retention nozzles.
- Optional safety solenoid gas valve.



F3280101

APPLICATIONS

- Pilot burners.
- Billets reheating furnaces.
- Glass furnaces.
- Pouring spout heating.



F3280102

DESCRIPTION

PBST pilot burners are usually used as pilot flames to ignite high capacity burners. Different series are available with different nozzles, $\varnothing 1/2"$, $\varnothing 3/4"$, $\varnothing 1"$, and different lengths according to specific needs. Flame must be: short, clear blue, hard, sharp and stable. It must go back to the metallic pipe and must not be long, yellow, soft and unstable. Calibration is easier if throttle orifices are mounted on air and gas lines.



F3280103



Headquarters
Esa S.r.l.
Via E. Fermi 40 I-24035 Curno (BG) - Italy
Tel. +39.035.6227411 - Fax +39.035.6227499
esa@esacombustion.it - www.esapyronics.com

International Sales
Pyronics International S.A./N.V.
Zoning Ind., 4ème rue B-6040 Jumet - Belgium
Tel +32.71.256970 - Fax +32.71.256979
marketing@pyronics.be

INSTALLATION

PBST burners have threaded nozzles. Different mounting solutions are possible according to the different needs. Avoid mounting with flame up which may cause condensation resulting in ignition problems. Air and gas piping connections must be upstream of any

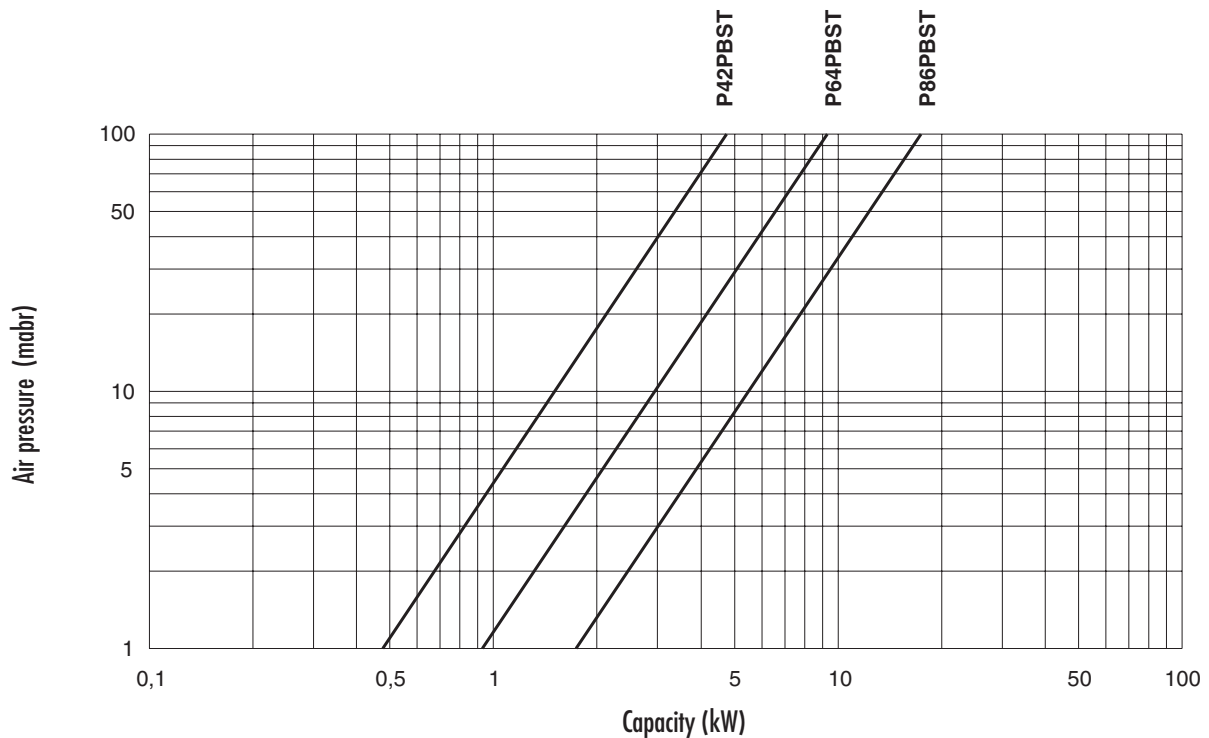
measuring device. Flexible connectors are recommended for air and gas piping connections. Piping from the mixer outlet to burner or burners must be at least as large as the mixer outlet pipe. No valves or other restriction are permitted in this pipe.

IGNITION AND FLAME DETECTION

PBST pilot burners are equipped with 10MM spark plugs. Unirod mode models (PBST-W/X) are also available with WAND or EN electrodes.

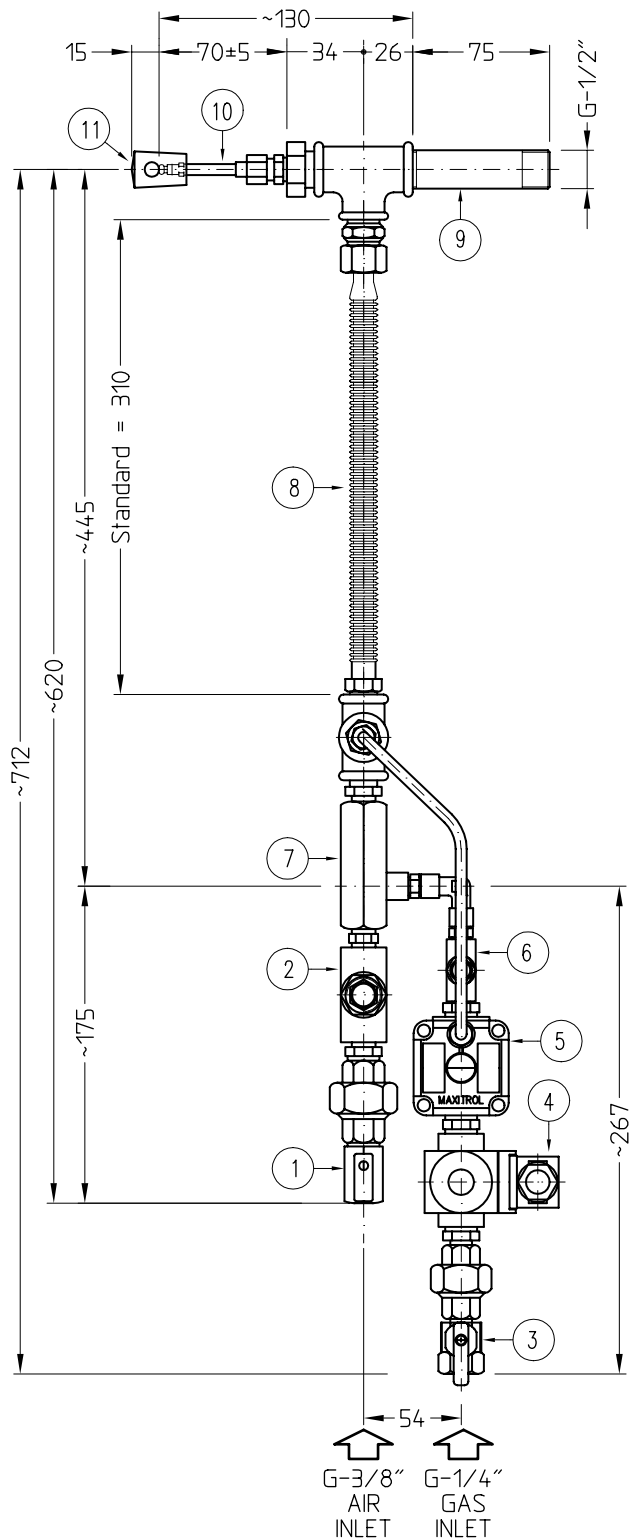
Catalog No.	Electrode ignition	
	Ignition	Detection
P42 PBST	Wand	Wand
P64 PBST	10MM	UV-2
P86 PBST	10MM	UV-2
P42 PBST-W/X	Wand	Wand
P64 PBST-W/X	Wand	Wand
P86 PBST-W/X	Wand	Wand

CAPACITY TABLE



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DIMENSIONS (P42PBST-W/FR)

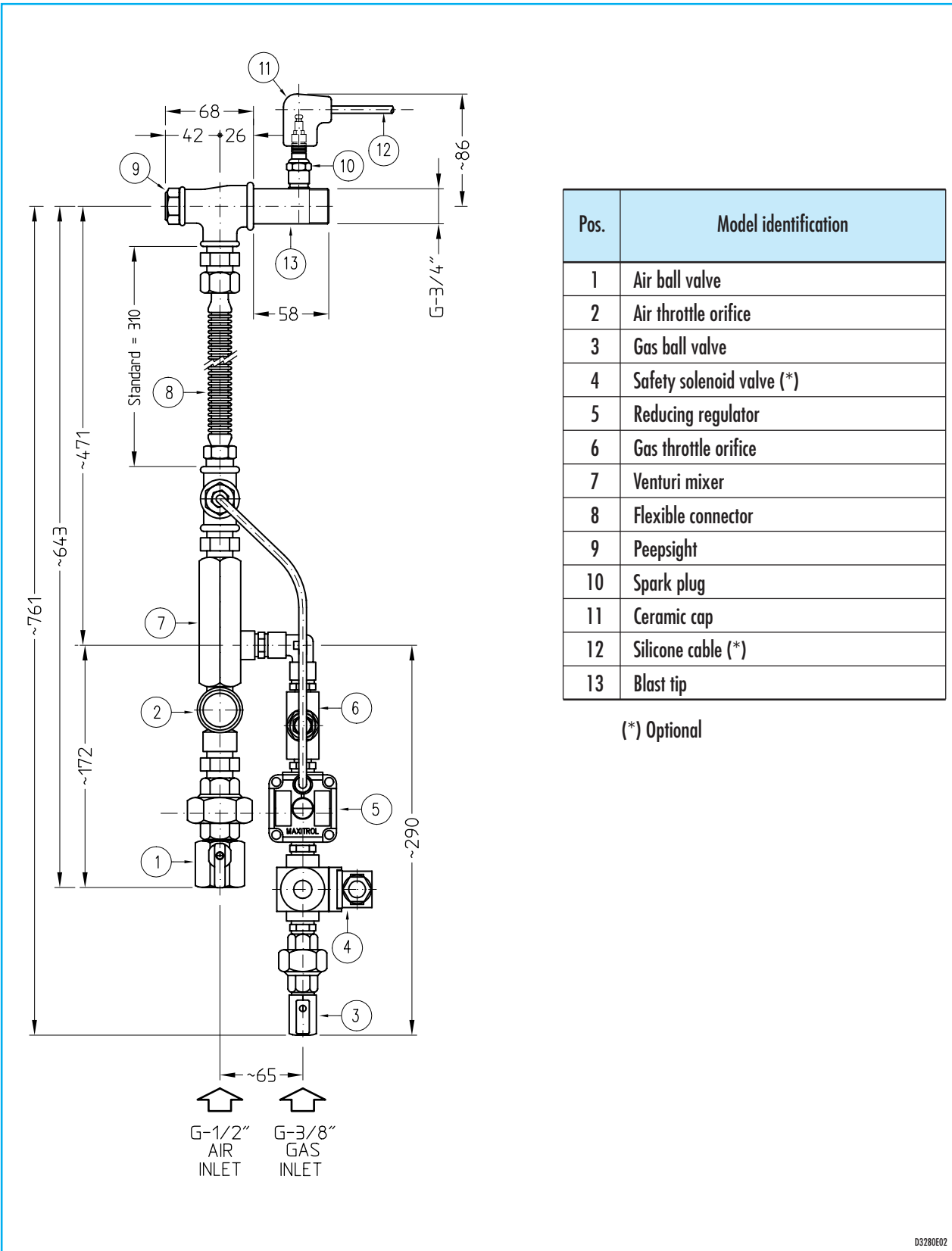


Pos.	Model identification
1	Air ball valve
2	Air throttle orifice
3	Gas ball valve
4	Safety solenoid valve (*)
5	Reducing regulator
6	Gas throttle orifice
7	Venturi mixer
8	Flexible connector
9	Blast tip
10	Spark electrode and flame rod
11	Ceramic cap

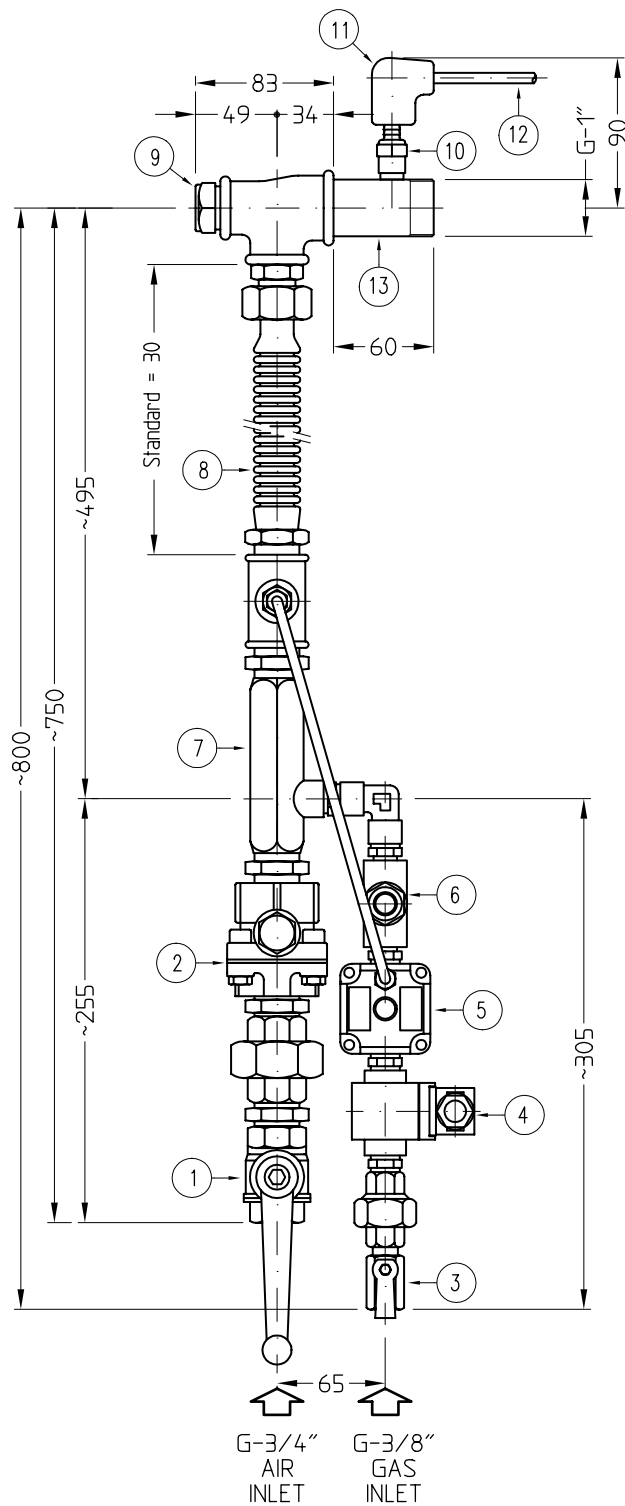
(*) Optional

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DIMENSIONS (P64PBST)



DIMENSIONS (P86PBST)

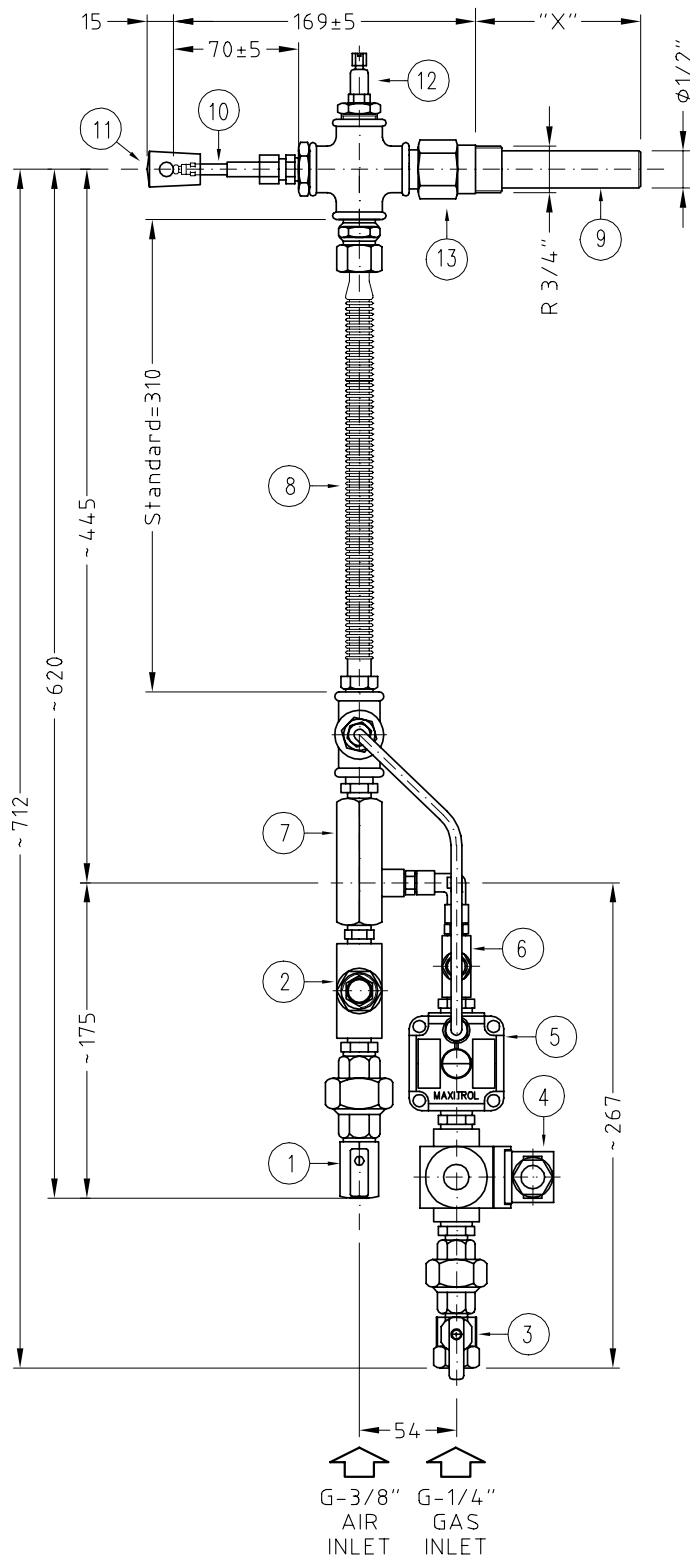


Pos.	Model identification
1	Air ball valve
2	Air throttle orifice
3	Gas ball valve
4	Safety solenoid valve (*)
5	Reducing regulator
6	Gas throttle orifice
7	Venturi mixer
8	Flexible connector
9	Peepsight
10	Spark plug
11	Ceramic cap
12	Silicone cable (*)
13	Blast tip

(*) Optional

D328003

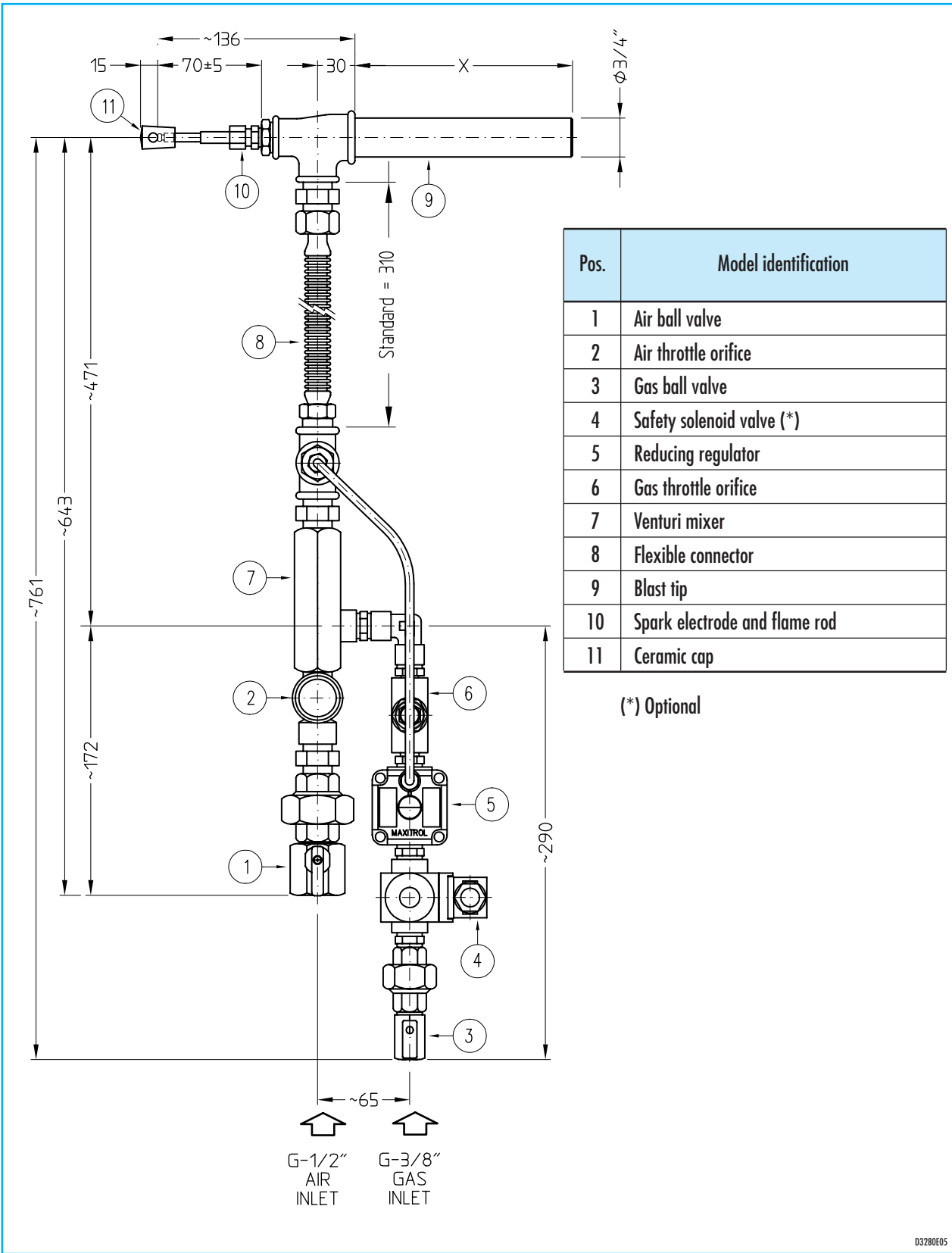
DIMENSIONS (P42PBST-W/X)



Pos.	Model identification
1	Air ball valve
2	Air throttle orifice
3	Gas ball valve
4	Safety solenoid valve (*)
5	Reducing regulator
6	Gas throttle orifice
7	Venturi mixer
8	Flexible connector
9	Blast tip
10	Spark electrode and flame rod
11	Ceramic cap

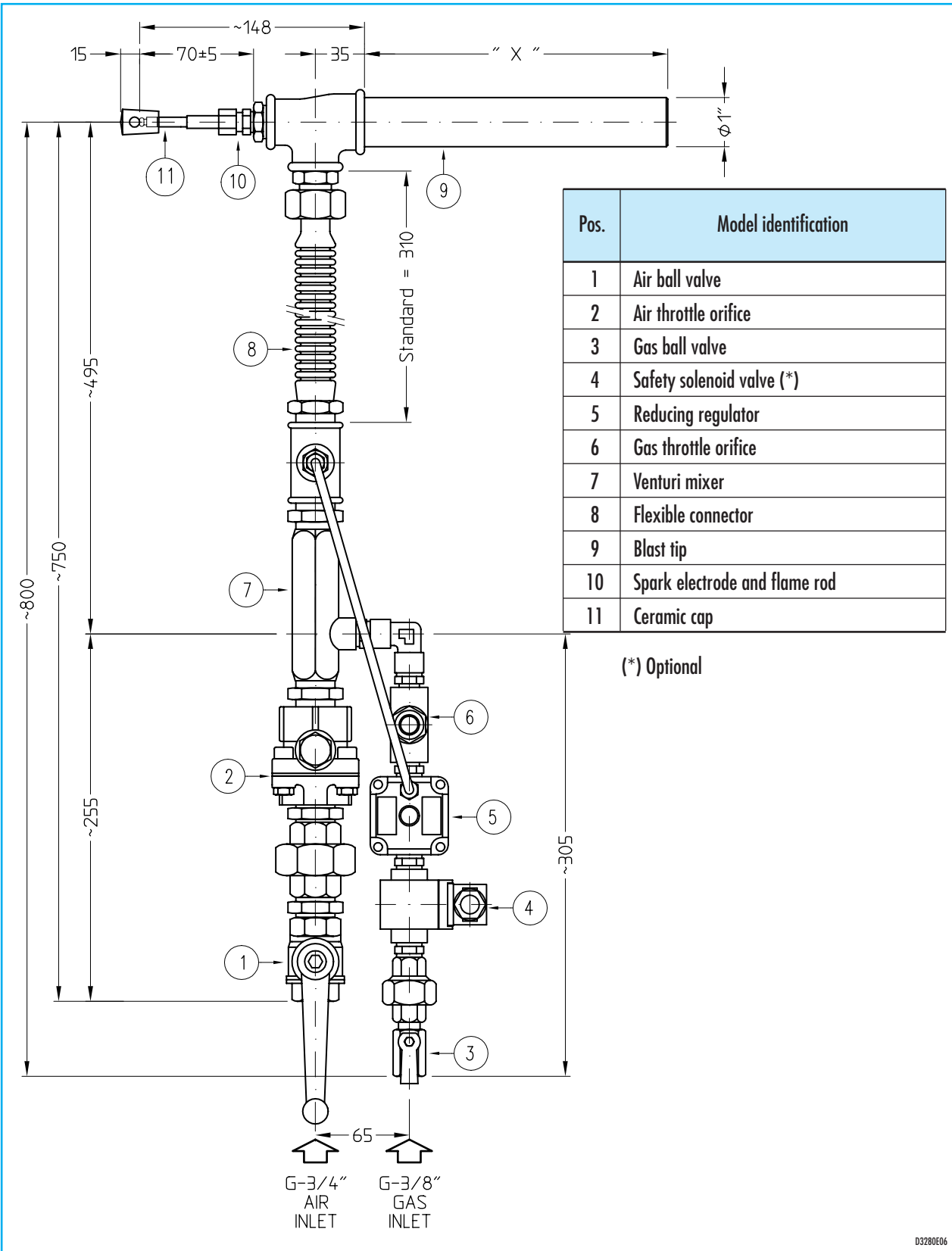
(*) Optional

DIMENSIONS (P64PBST-W/X)



D3280E05

DIMENSIONS (P86PBST-W/X)



D3280E06



NOTE: Based on the company's policy aimed at a continuous improvement on product quality, ESA-PYRONICS reserves the right to bring changes to the technical characteristics of this device without previous notice. Our catalog updated to the latest version is available on our web site www.esapyronics.com and it is possible to download modified documents

WARNING: When operating, this combustion system can be dangerous and cause harm to persons or damage to equipment. Every burner must be provided with a protection device that monitors the combustion. The installation, adjustment and maintenance operations should only be performed by trained and qualified personnel.