Questionnaire for a gas / oil fired igniter inquiry

Customer / Project	
Company:	**Date:**
Project:	**Phone:**
Plant type:	**Installation site:**
Contact person:	**E-mail:**

Plant specification

Kind of burner (main burner)	☐ Gas burner ☐ Gas- / Oil burner ☐ Oil / Pulverized fuel burner ☐ Gas /Oil / Pulverized fuel burner ☐ Duct burner ☐ Other
Burner air supply of the main burner	☐ Forced draft ☐ Self aspirating
Heat release of the main burner	Start-up heat release: MW Max. heat release: MW
Combustion chamber atmosphere corrosive? Temperature range	☐ No ☐ Yes From °C to °C
Static combustion chamber pressure	mbar(g)
Dynamic combustion chamber pressure	mbar(g) to mbar(g)
Is the combustion chamber governed by the Pressure Equipment Directive?	☐ No ☐ Yes, pressure: bar Category I ☐ Category II ☐ Category III ☐ Category IV ☐
Applicable standards and codes of practice?	☐ EN 676 (forced draught burners) ☐ EN 746-2 (ind. thermoproc. equipm.) ☐ EN 60079-10-1 (Ex-zones gas, see explosion questionnaire) ☐ EN 60079-10-2 (Ex-zones dust, see explosion questionnaire) ☐ EN 298 (burner controls) ☐ IEC ☐ EAC NFPA: ☐ class 1 ☐ class 2 ☐ class 3 ☐ Other
Drawing of the burner	☐ Yes ☐ No

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Gas/oil fired igniter specification

Mechanical conditions

Required heat release	kW
Required flame length	mm
Fuel	**Gas** ☐ Natural gas ☐ LPG ☐ Dual fuel operation: LPG/natural gas ☐ Hydrogen ☐ Special gas (gas analysis required) **Oil** ☐ Fuel oil extra light (diesel) ☐ Marine diesel A ☐ Marine diesel B ☐ ☐
Available gas- / oil pressure as atomising air pressure	**Gas igniter:** ☐ Gas pressure, mbar(g) **Oil igniter:** ☐ Oil pressure, bar(g) ☐ Atomising air pressure (for oil fired igniters), bar(g)
Igniter air supply	☐ Forced draft ☐ Self aspirating
Available combustion air pressure	mbar(g)
Ignition combustion air temperature	°C
Outer tube material	☐ Steel galvanized (standard) ☐ Stainless steel ☐ Other
Outer tube length	mm (in 10 mm - steps)
Outer tube of gas fired igniter is divisible?	☐ No division required ☐ division/s (Not possible with fired igniters with a heat release of 2 kW or 4 kW)
Igniter with flexible pipe?	☐ Yes ☐ No
Mounting flange	☐ Hegwein standard ☐ Special plate flange ☐ EN1092-1: DN , PN ☐ ASME B16.5: , lbs, inch

Equipment

Spark transformer integrated?	☐ Yes ☐ No
Spark transformer and ionisation flame monitor integrated?	☐ No ☐ Yes, continuous operation ☐ Yes, intermittent operation
Options for the ionisation flame monitor	☐ Potential free contact ☐ 4 – 20 mA output signal to annunciate the flame intensity (not available for Ex-area) ☐ Bargraph display (for gas fired igniters with a heat release of 250 kW or more, not for Ex-zone 1)
Spark transformer and burner control integrated?	☐ No ☐ Yes, continuous operation ☐ Yes, intermittent operation

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Approval of the ionisation flame monitor	☐ EN ☐ EAC ☐ UL ☐ KOSHA
Safety level	☐ No ☐ SIL2 (SIL3 in preparation)
Supply voltage (50/60 Hz)	☐ 230 V ☐ 115 V ☐ 125 V ☐ 250 V
Place of installation	☐ Indoor ☐ Outdoor
IP rating of the power head	☐ IP 54 ☐ IP 65 ☐ IP 66
Length of the sealed in cable	☐ 5 m (min. length) ☐ 10 m ☐ 15 m ☐ m (Not for fired igniters in zone 1/21)
Painting of the power head	☐ Standard (silver) ☐ C4 (saline atmosphere; not for version zone 21 and zone 22)
Ambient temperature of the power head in non-hazardous area	☐ **-30 °C to +60 °C (standard)** ☐ -30 °C to +80 °C (Further temperature ranges and Ex information on the questionnaire for hazardous area)
Test certificate according to EN 10204 required?	☐ No ☐ Declaration of compliance with the order 2.1 ☐ Test report 2.2 ☐ Inspection certificate 3.1
Manual language	☐ German ☐ English ☐ Other
Required explosion protection for the power head	☐ No ☐ Yes, ☐ **ATEX** (ATEX - questionnaire) ☐ **IECEx** (IECEx - questionnaire) ☐ **FM (Certificate of Compliance)** Nonincendive for use in Class I, Division 2, Groups A, B, C and D Hazardous (Classified) Locations;Type 4 for indoor and outdoor use. The ambient temperature range for the product is -40 °C to +60 °C. (for igniters with a heat release of 120 kW or 250 kW)
Further requirements and comments	

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