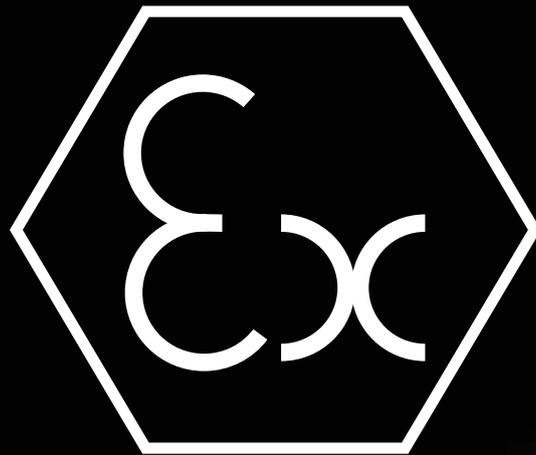


Potentially explosive atmosphere?  
MP Filtri knows how to manage it thanks to our  
**ATEX CERTIFIED PRODUCTS**



**PASSION TO PERFORM**



## The concept



According to the legislation, each appliance used in explosive atmospheres must ensure adequate ATEX protection, that is, it must present the precautions necessary to ensure it is removed at least one of the components of the triangle of fire.

## FIRE TRIANGLE



## THE ATEX CERTIFIED MP FILTRI PRODUCTS ARE THE FOLLOWING

Standard ATEX Directive 2014/34/EU and UK Regulation S.I. 2016 No. 1107 (as amended).

### HYDRAULIC FILTRATION

There are two different markings, defined by the type of gaskets that determine the maximum temperature.

#### HIGH PRESSURE FILTERS

High pressure filters are designed to withstand the maximum pressure of the system and are sized according to the specific flow rate required. They offer exceptional protection to sensitive components downstream of the filters.



FMM 150

FMM 050

Filter with NBR seal in configuration **zerospark®**



II 3G Ex h IIC T6 Gc X

II 3D Ex h IIIC T85°C Dc X

T<sub>amb</sub> : -15°C ÷ +80°C, T<sub>max fluid</sub> +80°C

Filter with EPDM / FPM / MFQ seal in configuration **zerospark®**



II 3G Ex h IIC T6... T4 Gc X

II 3D Ex h IIIC T85°C...T115°C Dc X

T<sub>amb</sub> : -15°C ÷ +110°C, T<sub>max fluid</sub> +110°C

#### STAINLESS STEEL HIGH PRESSURE FILTERS

Stainless steel construction ensures peak protection when operating in corrosive environments or aggressive fluids. High pressure stainless steel filters are used to protect individual valves or the entire hydraulic circuit from contamination.



FZH 040

FZH 012

FZP 136

FZP 039

FZX 011

Filter with NBR seal in configuration **zerospark®**



II 3G Ex h IIC T6 Gc X

II 3D Ex h IIIC T85°C Dc X

T<sub>amb</sub> : -15°C ÷ +80°C, T<sub>max fluid</sub> +80°C

Filter with EPDM / FPM / MFQ seal in configuration **zerospark®**



II 3G Ex h IIC T6... T4 Gc X

II 3D Ex h IIIC T85°C...T115°C Dc X

T<sub>amb</sub> : -15°C ÷ +110°C, T<sub>max fluid</sub> +110°C

#### THE ANTI-STATIC FILTERS

**zerospark®**

Zerospark® is a specialist solution designed to solve the problem of electrostatic discharge inside hydraulic filters. Caused by the electrical charge build-up due to the passage of oil through the filters, this can result in damage to filter elements, oils and circuit components. It can even cause fire hazards in environments where flammable materials are present.

## POWER TRANSMISSION

### AKG COMPLETE HALF-COUPLING

AKG Half-couplings are available to use in hazardous area, with the presence of gas and/or vapors or dust.



II 2G Ex h IIC T6...T4 Gb  
II 2D Ex h IIIC T85°C...T135°C Db

Installation zone: **zone 1 / 21**

Gas group: **IIC**

Dust group: **IIIC**

Ambient temperature: **-30°C ÷ +120°C**

## CLOGGING INDICATORS

There are two different markings, defined by the type of gaskets that determine the maximum temperature.

### DEH - DIFFERENTIAL INDICATORS

Differential indicators are used on the Pressure line to check the efficiency of the filter element. They measure the pressure upstream and downstream of the filter element (differential pressure). Standard items are produced with special connection G 1/2" size.



DEH



II 1 GD Ex ia IIC T6 Ga  $-60^{\circ}\text{C} \leq T_a \leq 80^{\circ}\text{C}$   
Ex ia IIC T4 Ga  $-60^{\circ}\text{C} \leq T_a \leq 125^{\circ}\text{C}$



II 2 GD Ex db IIC T6\* Gb  
Ex tb IIIC T85°C\* Db  
( $T_{amb} = -60^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ )\* IP66/67

\* alternative T/Class and ambients  
T4, T135°C ( $T_{amb} = -60^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$ )

### BEA - BAROMETRIC INDICATORS

Pressure indicators are used on the Return line to check the efficiency of the filter element. They measure the pressure upstream of the filter element. Standard items are produced with R 1/8" EN 10226 connection.



BEA



I M1 Ex ia I Ma



II 1GD Ex ia IIC TX Ga  
Ex ia IIIC TX °C Da

## CONTAMINATION MONITORING PRODUCT

### AZ2 - IN-LINE CONTAMINATION MONITOR

Hazardous environment permanently mounted in-line contamination monitor. High-risk and explosive environments.



AZ2



3G Ex nR IIB T5 Gc IP66

# WORLDWIDE NETWORK



CANADA • CHINA • FRANCE • GERMANY • INDIA • RUSSIAN FEDERATION

USA • UNITED KINGDOM • UNITED ARAB EMIRATES • SINGAPORE



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