ATEX CERTIFIED PRODUCTS

MP FILTRI KNOWS HOW TO MANAGE A POTENTIALLY EXPLOSIVE ATMOSPHERE

PASSION TO PERFORM

MPFILTRI®

The concept

According to the regulation, each component used in potentially 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.

THE ATEX CERTIFIED MP FILTRI PRODUCTS ARE THE FOLLOWING

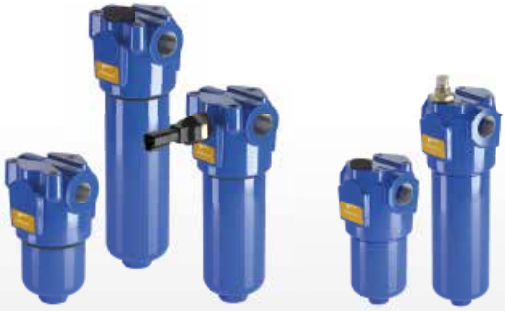
Standard ATEX Directive 2014/34/EU and UK Regulation S.I. 2016 No. 1107 (as amended).

HYDRAULIC FILTRATION

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

FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE

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.



FMMX 050 FMMX 150

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_{amb} : -15°C ÷ +80°C, $T_{max\ fluid}$ +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_{amb} : -15°C ÷ +110°C, $T_{max\ fluid}$ +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 FZP 136

FZH 012 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_{amb} : -15°C ÷ +80°C, $T_{max\ fluid}$ +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_{amb} : -15°C ÷ +110°C, $T_{max\ fluid}$ +110°C

THE ANTI-STATIC FILTERS zerospark®

Zerospark® is a specialized 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.

AKG SERIES

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: **-30C°÷ +120°C**

CLOGGING INDICATORS

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

VEA & VEB – VACUUM INDICATORS

Vacuum indicators are used on the Suction line to check the efficiency of the filter element. They measure the pressure up-stream of the filter element. Standard items are produced with R 1/4" EN 10226 connection. Products available with R 1/8" EN 10226.

I M1 Ex ia I Ma

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

VEA

VEB

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.

I M1 Ex ia I Ma

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

BEA

DEH & DEZ - 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) and 3/4" UNF (DEZ).

DEH

DEZ

II 1 GD Ex ia IIC T6 Ga -60°C ≤ Ta ≤ 80°C
Ex ia IIC T4 Ga -60°C ≤ Ta ≤ 125°C

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

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

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 • SINGAPORE
UNITED ARAB EMIRATES • UNITED KINGDOM • USA

MPFILTRI®

PASSION TO PERFORM

mpfiltri.com

MF002000189
US - 2024.03