

# CONSTRUCTION & MATERIAL PROCESSING



PASSION  PERFORM



## EXCEPTIONAL SAFETY AND PERFORMANCE: OUR PRODUCTS MAKE THE DIFFERENCE IN THE CONSTRUCTION!

We are meeting the challenges of the construction industry head on creating robust and innovative products that control contamination; protect machinery from hydraulic failures; and deliver greater reliability, performance and efficiency.

With the vast majority of hydraulic system failures caused by the build-up of contamination, we have developed solutions for our customers that ensure quality, safety and cost savings at every stage of the construction process.

partnership

proven reliability

quality

longer machinery lifespan

worldwide support

MP Filtri has always forged close partnerships with customers thanks to its commitment to meeting their needs and delivering effective solutions. The company offers a wide range of high-performance products including:

### KEY PRODUCTS



Return Filters



Return Filters



Low Pressure Filters



High Pressure Filters



Return / Suction Filters



Elixir® Filters

FMMX Series  
for potentially  
explosive atmosphere

SFEX Series  
Suction filters

RFEX Series  
Return filters

LFEX / HFEX Series  
Low Pressure filters

## RELIABILITY AND QUALITY: WHY MP FILTRI IS THE PERFECT PARTNER!

State-of-the-art research and development programmes ensure our products are extensively tested and perfected in our cutting-edge laboratory. A passion for innovation drives everything we do.

**Technology and expertise are in the company's DNA!**

### THE MAIN FEATURES THAT DISTINGUISH OUR PRODUCTS ARE:

- ◆ A dramatic reduction in unplanned downtime
- ◆ Support from a dedicated team of technical and commercial specialists
- ◆ The latest research and development technologies
- ◆ A dedicated laboratory for customer-specific tests
- ◆ Authorised distributors worldwide
- ◆ A wide range of precise customisation options



## GUARANTEED PERFORMANCE

### MULTI-PASS ISO 16889

The ISO Multipass test evaluates the characteristics (or performance) of a filter element, providing data on efficiency and capacity.

ISO standard filtration compared	
$\beta_{x(c)} > 1000$ ISO 16889	Filter media code MP Filtri
5 $\mu\text{m}_{(c)}$	A(00)03
7 $\mu\text{m}_{(c)}$	A(00)06
10 $\mu\text{m}_{(c)}$	A(00)10
16 $\mu\text{m}_{(c)}$	A(00)16
21 $\mu\text{m}_{(c)}$	A(00)25

$$\frac{\text{Upstream particles number} > X \mu\text{m}_{(c)}}{\text{Downstream particles number} > X \mu\text{m}_{(c)}} = \beta_{x(c)}$$

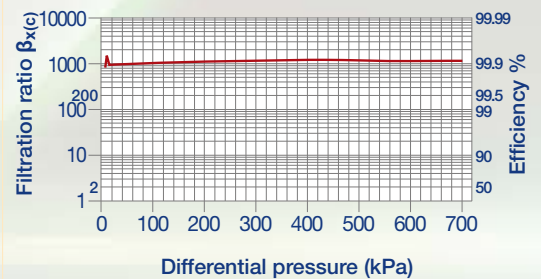
Designed to thrive in even the most challenging working conditions

We maintain full control over every element of production from design to delivery

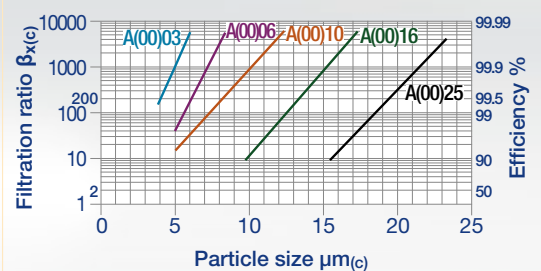


## STABILITY OF BETA RATING

DEGREE OF FILTRATION A(00)10,  
 $\beta_{10 \mu\text{m}_{(c)}} > 1000$



## HIGH EFFICIENCY IN ALL CONDITIONS



# HYDRAULIC FILTRATION

Designing an effective filtration system requires a precise evaluation of its specific features, including: sensitivity of the individual components, the degree and type of contamination, circuit pressure,

flow rate, environmental conditions, fluid used and intervention cycles delivering longer machinery lifespans and reduced service costs.

## SUCTION FILTERS

### STRC

Submerged suction filter, with bypass

up to $Q_{max}$	
l/min	gpm
875	231



## RETURN FILTERS

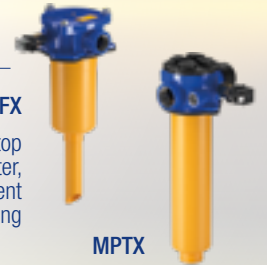
### MDHC

"Bubble-free" deaeration filter allows the reduction of air inflow into the tank

up to $P_{max}$		up to $Q_{max}$	
bar	psi	l/min	gpm
8	116	750	198
10	145	500	132



**MPFX**  
Tank top semi-immersed filter, easy filter element servicing



**MPTX**  
Tank top semi-immersed filter with air breather, easy filter element servicing

ELIXIR® enables easier maintenance with only the FEX filter elements needing to be replaced - resulting in a lower environmental impact than other models.

up to $P_{max}$		up to $Q_{max}$	
bar	psi	l/min	gpm
16	232	300	79

## FILTERS ELIXIR®

**SFEX** - Suction  
**RFEX** - Return  
**LFEX / HFEX** - Low pressure



## RETURN / SUCTION FILTERS

### MRSX

Tank top filter with combined filtration on return and suction to the inlet at the hydrostatic transmissions in closed loop

up to $P_{max}$		up to $Q_{max}$	
bar	psi	l/min	gpm
10	145	300	79



## LOW PRESSURE FILTERS

up to $P_{max}$		up to $Q_{max}$	
bar	psi	l/min	gpm
80	1160	175	46

**LMP 110 MULTIPORT**  
In-line filter with Multiport design for multiple choice connection



## HIGH PRESSURE FILTERS

### FMMX

High pressure filter for mobile applications, low flow rate

up to $P_{max}$		up to $Q_{max}$	
bar	psi	l/min	gpm
420	6092	300	79
420	6092	710	198



### FHP

Typical high pressure filter for mobile applications, high flow rate



## HIGH PRESSURE FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE

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

up to $P_{max}$		up to $Q_{max}$	
bar	psi	l/min	gpm
420	6092	300	79

**FMMX**  
High pressure filter for mobile applications, low flow rate



## FILTER ELEMENTS

WIDE RANGE OF ELEMENT OPTIONS FOR MYCLEAN AND ZEROSPARK® CONCEPT FILTERS

Wide range of filter elements in various filtration grades for all MP Filtri filters and as interchangeable.



THE **X** CONCEPT FOR OUR FILTERS

**zerospark®**  
THE ANTI-STATIC FILTERS

THE **Z** ANTISTATIC CONCEPT FOR OUR FILTERS



## TANK ACCESSORIES

The complete range of tank accessories for hydraulic circuits comprises breather filters, filler and breather filters, filler caps, visual and electrical level indicators, pressure gauges selectors, flanges for fixing the oil tubes on the tank cover and inspection covers.

Filler and breather filters have a dual function at the tank inlet filtering incoming air pre-filtering the fluid through the basket. This prevents the entry of foreign bodies during the filling or refilling operations.

### AIR BREATHERS AND FILLER PLUGS



#### TAP90

Filling caps and air breathers with multiple technical solutions

up to P <sub>max</sub>	
l/min	gpm
550	145

#### TAP114

Nylon oil filler and air breather filler cap

3000	793
1600	423

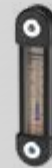
**SAP115**  
Filler plug and polyamide air filters



### VISUAL OIL LEVEL INDICATORS

#### LVA

Available in three sizes, to monitor the fluid in the tank



## POWER TRANSMISSION

### COUPLINGS



Drive couplings provide the means by which power is transmitted from the electric motor to the hydraulic pump.

AKG complete couplings are certified: ATEX 2014/34/EU & U.K. Regulation S.I. 2016 No. 1107 (as amended)



The e-PTO coupling is specifically for electrically powered power take-offs

### BELL-HOUSINGS

Bell-Housings are used as connecting elements between IEC electric motors and a wide range of hydraulic pumps available on the international market



## CONTAMINATION CONTROL SOLUTIONS

MP Filtri designs and manufactures a complete range of contamination control solutions aimed at increasing the life and the productivity of the hydraulic circuits. The technology developed by our Contamination Monitoring Products division allows preventive and predictive maintenance, guaranteeing

maximum continuity of operation, a longer life cycle of the components and a relative reduction in costs. A complete solution that combines highly functional and energy-efficient systems with a wide range of after-sales services.

### CONTAMINATION MONITORING PRODUCTS



#### LPA3

Portable Light Extinction Particle Analyser



#### CML4

Compact Portable Contamination Monitor



#### ICM 2.0 / 4.0

In-line Contamination Monitor



#### ICS

In-line Contamination Sensors

### IN-LINE CONTAMINATION MONITORS

### MOBILE FILTRATION UNITS



#### UFM 015

15 l/min (3.96 gpm)



#### UFM 041

34 l/min (8.98 gpm)



#### UFM 051

50 l/min (13.20 gpm)



#### UFM 091 UFM 181 UFM 919

90 l/min - 180 l/min (23.77 gpm - 47.55 gpm)

# WORLDWIDE NETWORK

CANADA ♦ CHINA ♦ FRANCE ♦ GERMANY ♦ INDIA ♦ SINGAPORE  
UNITED ARAB EMIRATES ♦ UNITED KINGDOM ♦ USA



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in   



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