# CONSTRUCTION & MATERIAL PROCESSING



# **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:



Return filters



Return filters



Low pressure filters



**KEY** 

**PRODUCTS** 



High pressure filters



Beturn / Suction filters



Elixir® filters

#### SFEX Series Suction filters RFEX Series Return filters LFEX Series Low Pressure filters

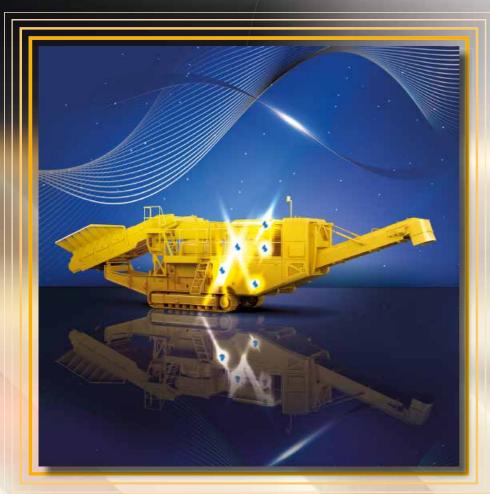
# RELIABILITY AND QUALITY, WHY MP FILTRI IS THE PERFECT PARTNER

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



#### ALL OF OUR FILTERS COMPLY WITH ALL HYDRAULIC SECTOR REGULATIONS

#### **MULTI-PASS ISO 16889**

The ISO Multipass test is to evaluate filtration performance of a filter element.

This standard provides reproducible test methods and data determining filtration efficiency, contamination holding capacity, and differential pressure characteristics. The test can be used on filter media which have a filtration quotient (Beta value) of  $\beta_{25(c)} \ge 75$  and a gravimetric end level in the tank of less than 200 mg/l.

The test is done using a constant supply of a contaminant ISO MTD (Medium Test Dust).

Filtration ISO standard Comparison			
$\beta_{X(C)} > 1000$	$\beta_X > 200$	MP Filtri	
ISO 16889	ISO 4572	Filter media	
		code	
5 μm <sub>(c)</sub>	3 µm	A03	
7 μm <sub>(c)</sub>	6 µm	A06	
10 μm <sub>(c)</sub>	10 µm	A10	
16 μm <sub>(c)</sub>	18 µm	A16	
21 μm <sub>(c)</sub>	25 µm	A25	

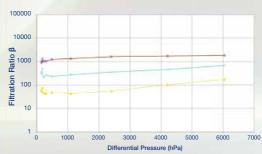
Designed to thrive in even the most challenging working conditions

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

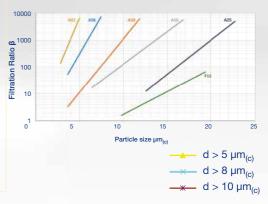


#### **BETA VALUE STABILITY**

FILTRATION RATING A10,  $\beta$ 10  $\mu$ m(c) >1000



#### **FILTER FINENESS**



#### **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.

#### **RETURN FILTERS**



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

up to P <sub>max</sub>		up to	up to Q <sub>max</sub>	
bar psi		l/min gpn		
8	116	750	198	
10	145	500	132	

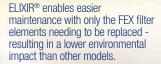


Tank top semi-immersed filter, easy filter element servicing



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

### ELIXIR FILTERS



up to P <sub>max</sub>		up to	up to $Q_{\text{max}}$	
bar	psi	l/min	gpm	
16	232	300	79	

SFEX SERIES - Suction RFEX SERIES - Return LFEX SERIES - 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 <sub>max</sub>		up to	up to Q <sub>max</sub>	
bar	psi	l/min	gpm	
10	145	300	79	

up to	P <sub>max</sub>	up to	$\boldsymbol{Q}_{\text{max}}$
bar	psi	l/min	gpm
80	1160	175	46

#### LOW PRESSURE FILTERS



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 <sub>max</sub>		up to	Q <sub>max</sub>
bar psi		l/min	gpm
420	6092	300	79
450	6527	630	166

#### 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 <sub>max</sub>		up to Q <sub>max</sub>	
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



THE ANTI-STATIC FILTERS
THE ZANTISTATIC 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.

#### **SUCTION FILTERS**

up to	Q <sub>max</sub>	STR
l/min	gpm	Submerged suction filter, with bypass
875	231	With bypass



#### **AIR BREATHERS AND FILLER PLUGS**



FAP90 Filling caps and	up to P <sub>max</sub>		
air breathers with multiple	l/min	gpm	
echnical solutions	550	145	
ГАР114	3000	793	
1.1 9.691			

**SAP115** Filler plug and polyamide air filters



Nylon oil filler and air breather filler cap

#### **VISUAL OIL LEVEL INDICATORS**

423

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.

1600

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



#### **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**

#### CONTAMINATION MONITORING **PRODUCTS**



LPA3 Portable aser Particle Analyser

Compact Portable Contamination Monitor with integrated pump

CML4

#### **IN-LINE** CONTAMINATION **MONITORS**



**ICM 2.0** In-Line Contamination Monitor



**ICM 4.0** In-Line Contamination Monitor - WiFi technology integrated

#### **MOBILE FILTRATION UNIT**

up to Q<sub>max</sub>



**UFM 051** 

Mobile transfer and filtration units with ICM In-Line **Contamination Monitor**  MP Filtri designs and manufactures a complete range of contamination control solutions aimed at increasing the life and productivity developed by our hydraulic circuits.

The technology of the Contamination Monitoring Products division allows preventive and predictive maintenance, guaranteeing maximum continuity of operation, a longer life cycle of components and a reduction in service and maintenance costs.

### WORLDWIDE NETWORK

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



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