

# WIND POWER



PASSION  PERFORM



## ADVANCED FILTRATION AND CONTAMINATION MONITORING SOLUTIONS FOR THE WIND POWER

We offer comprehensive support to our customers in the development of hydraulic system for wind turbines, from conception to implementation.

Our products installed on wind turbines protect the internal components of the turbine, ensuring efficient and safe operation.

Our products will guarantee you:

**Filtration efficiency**

**Resistance and durability**

**Low pressure drop**

**Ease of maintenance**

**Environmental compatibility**

**Protection against corrosion**

**Ability to handle operational variations**

The company offers a wide range of high-performance products including:



High Pressure Filters



Low Pressure Filters



Return Filters



High Pressure Filters



Moisture control desiccant air breathers



Elixir® Filters

FMMX Series for potentially explosive atmosphere

**KEY PRODUCTS**

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 experience are in the company's DNA!**

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

- ◆ Full control over every element of production from design to delivery
- ◆ Maintenance and Reliability
- ◆ The latest in Research and Development technology
- ◆ Innovative design
- ◆ Noise and weight
- ◆ Integration with the turbine control system



# GUARANTEED PERFORMANCE

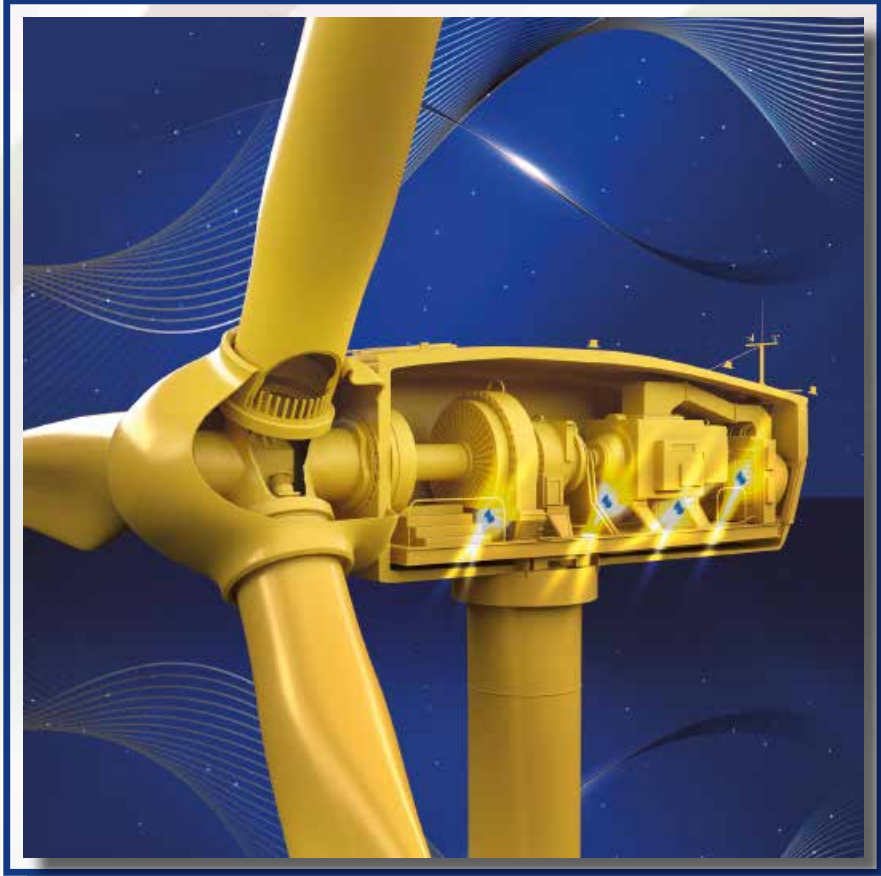
## MULTI-PASS ISO 16889

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

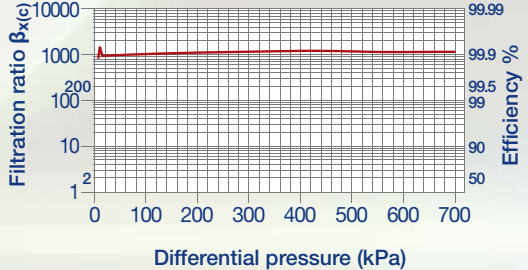
$$\frac{\text{Upstream particles number} > X \mu\text{m}_{(c)}}{\text{Downstream particles number} > X \mu\text{m}_{(c)}} = \beta_{x(c)}$$

Designed to thrive in even the most challenging working conditions

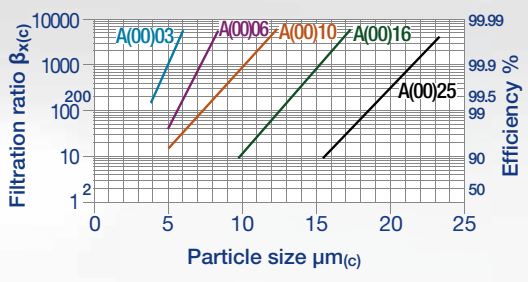


## STABILITY OF BETA RATING

### 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.

## RETURN FILTERS



### MPFX

Tank top semi-immersed filter, easy filter element servicing

up to P <sub>max</sub>		up to Q <sub>max</sub>	
bar	psi	l/min	gpm
8	116	750	198



### MPH

The 'bubble free' deaeration filter effectively reduces the air flow at the inlet to the tank

10	145	500	132
10	145	3500	925

### 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 <sub>max</sub>		up to Q <sub>max</sub>	
bar	psi	l/min	gpm
16	232	300	79

## FILTERS ELIXIR®

SFEX SERIES - Suction  
RFEX SERIES - Return  
LFEX SERIES - Low pressure



## LOW PRESSURE FILTERS



### LMP 112 / 123 MULTIPORT

In-line filter with Multiport design for connections multiple

up to P <sub>max</sub>		up to Q <sub>max</sub>	
bar	psi	l/min	gpm
80	1160	175	46
30	435	2400	634

LMP 900: In-line filter, with filter elements to DIN 24550 specification

LMP 950: In-line filter, specifically designed for upside down mounting



LMP 900 LMP 950

## 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



### FHB

High pressure manifold mounted filter to reduce leak paths.

420	6092	630	166
320	4641	485	128

### FHP

Typical high pressure filter for mobile applications, high flow rate



## FILTER ELEMENTS



### DUAL STAGE - FILTER ELEMENTS OPTIMISED FOR USE IN THE VARIOUS CONTROL AND LUBRICATION SYSTEMS OF WIND TURBINES

Thanks to the DUAL stages, downstream coarse filtration keeps oil clean, even with an open bypass valve.

#### Plus:

- High resistance to harsh conditions
- High viscosity
- Low temperatures
- Capture contamination
- Moisture control



### 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 ANTISTATIC Z 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 and 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

		up to P <sub>max</sub>	
		l/min	gpm
	<b>TAP90</b> Filling caps and air breathers with multiple technical solutions	550	145
	<b>TAP115 &amp; SAP115</b> Filling caps and air breathers with 3 and 10 µm filter element	1600	423
<b>SAP115</b> <b>TAP115</b>		3000	793



### OIL LEVEL INDICATORS



## POWER TRANSMISSION

### COUPLINGS



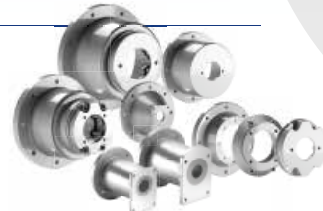
Drive couplings provide the means by which power is transmitted from the electric motor to the hydraulic pump.



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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