WIND POWER

MPFILTRI®

PASSION TO 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:

KEY PRODUCTS

FMMX Series
for potentially
explosive atmosphere

High Pressure Filters

Low Pressure Filters

Return Filters

High Pressure Filters

Moisture control
desiccant air breathers

Elixir® Filters

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 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

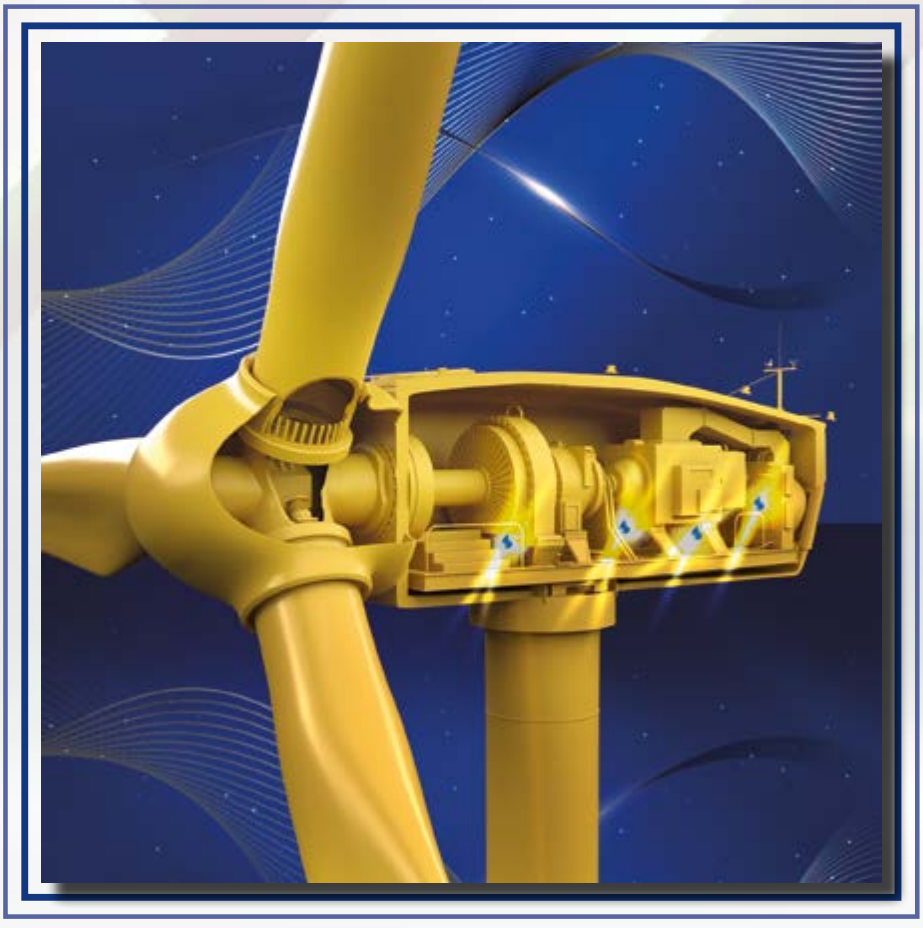
MULTI-PASS ISO 16889

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 $\mu m_{(c)}$	A(00)03
7 $\mu m_{(c)}$	A(00)06
10 $\mu m_{(c)}$	A(00)10
16 $\mu m_{(c)}$	A(00)16
21 $\mu m_{(c)}$	A(00)25

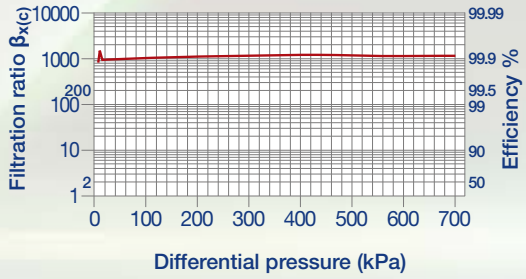
$$\frac{\text{Upstream particles number} > X\ \mu m_{(c)}}{\text{Downstream particles number} > X\ \mu m_{(c)}} = \beta_{x(c)}$$

Designed to thrive in even the most challenging working conditions

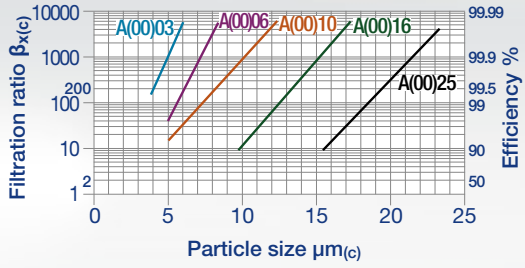


STABILITY OF BETA RATING

DEGREE OF FILTRATION A(00)10, $\beta 10\ \mu m_{(c)} > 1000$



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

MPHC

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

up to P_{max}		up to Q_{max}	
bar	psi	l/min	gpm
8	116	750	198
10	145	500	132
10	145	3500	925

MPTX

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

FILTERS ELIXIR®

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

SFEX - Suction
RFEX - Return
LFEX / HFEX
Low pressure

LOW PRESSURE FILTERS

LMP 112 / 123 MULTIPORT

In-line filter with Multiport design for connections multiple

up to P_{max}		up to Q_{max}	
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

FHB

High pressure manifold mounted filter to reduce leak paths.

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

MYCLEAN
THE X CONCEPT FOR OUR FILTERS

zerospark®
THE ANTI-STATIC 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_{max}	
		l/min	gpm
	TAP90 Filling caps and air breathers with multiple technical solutions	550	145
SAP115 TAP115	**TAP115 & SAP115** Filling caps and air breathers with 3 and 10 µm filter element	1600	423
		3000	793

SAW115
Moisture control desiccant air breathers
Max air flow up to 453 l/min

TAP114
Nylon oil filler and air breather filler cap

OIL LEVEL INDICATORS

ELECTROMAGNETIC
LEU
Offered in three different sizes for easy monitoring of the oil level in the tank

VISUAL
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.

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

IN-LINE CONTAMINATION MONITORS

ICM 2.0 / 4.0
In-line Contamination Monitor

ICS
In-line Contamination Sensors

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

MPFILTRI®

PASSION TO PERFORM

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