

Hydraulic Power Unit

Filtration Products in Application

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Various Components: Filtration products in Hydraulic Power Units

The hydraulic power unit is the central component that supplies a hydraulic system with the required pressure and flow rate. A large number of different components ensure high reliability and functionality.

By minimizing wear, avoiding initial damage during start-up and protecting dirt sensitive components, the filtration products being used play a key role in the availability of the power unit.

In addition, since the hydraulic power unit system is not completely closed to equalize pressure when oil levels change, contaminated air can enter the system. This is where our breather filters come in. In a single operation, they filter and remove moisture from the air. This reduces the risk of corrosion inside the hydraulic reservoir.

In every hydraulic system there is at least one hydraulic pump for generating pressure and flow rate. Here, depending on the type and operating pressure of the pump, extremely fine abrasive particles are generated, which in turn can themselves cause damage to the system.

Inline and duplex filters arranged in the main flow of the pump or in the offline flow operated with a separate pump play the key role here, with the aim of protecting components and preventing unscheduled machine downtime. In addition, fluid power sensors monitor the water content and particles in the hydraulic fluid. Therefore they support the monitoring of the hydraulic system and provide an additional contribution to a high system reliability in the sense of a condition based monitoring.



Online Particle Monitor OPM II

- Online particle monitor
- Cleanliness class display according to ISO and SAE
- Integrated data memory
- Suitable for mineral-oils



Breather Filter BFSK

- Breather filter water-absorbing
- Connection up to G11/4
- Optional adapter plate including check valve
- Optional maintenance indicator



Breather Filter TLF

- Breather filter
- Use of Aquasorb AS filter material connection up to DN250
- Robust construction suitable for heavy industry
- Optionally with internal thread (TLF I) or external thread (TLFII)
- Optional filling sieve (TLF III)



Tank Mounted Filter 10TEN0040-2500

- Filter for tank mounting
- Additional sampling/measurement ports as a standard on all sizes
- Available as an option with different electrical switching elements
- Drain pipes (extension of the outlet) optional



Humidity Sensor WGM

- Permanent measurement of humidity
- Analogue Output with 4-20mA or IO-L
- No calibration to fit the fluid to be measured
- Remote display optional



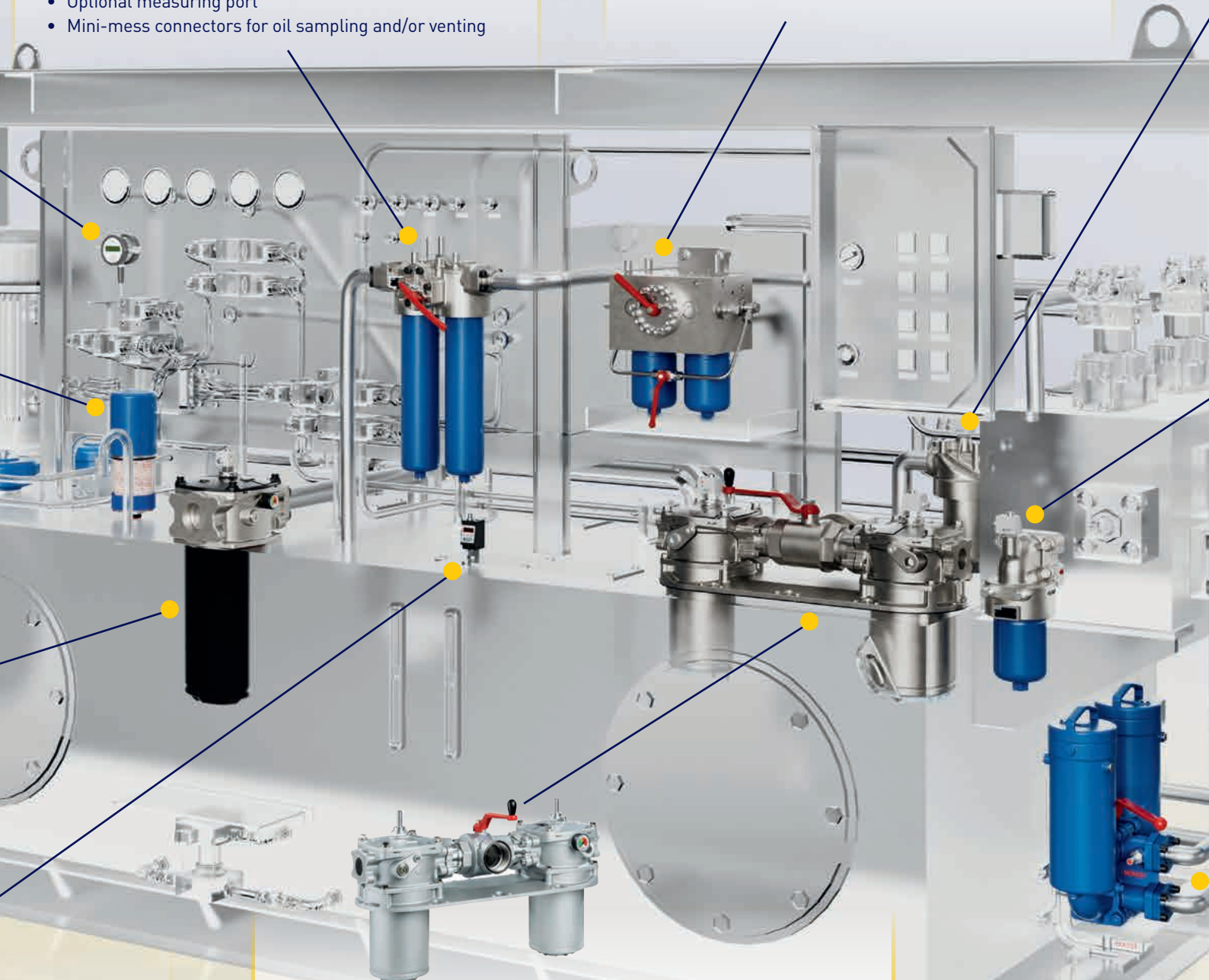
Duplex Filter 50/150/250LDN0040-0400

- Duplex filter with filter elements to DIN24550 Pressure equalization function integrated in the switch-over
- Pmax = 250bar
- Top and back mounting possibilities
- Very low leakage rate during filter element changes
- Optional measuring port
- Mini-mess connectors for oil sampling and/or venting



Duplex Filter 400LDN0040-1000

- Duplex filters with filter elements to DIN24550
- Pmax = 400bar,
- Very low leakage rate during filter element changes
- Bleeding and measuring port are standard
- Mini-mess connectors for oil sampling and/or venting



Tank Mounted Filter 10TDN0040-2500

- Filter for tank mounting, switchable
- Additional sampling/measurement ports as a standard on all sizes
- Additional ports optional / Ball valve change-over for lower leakage rate
- Mounting plate from size 0400-2500 optimizing simple design and hassel-free mounting
- Drain pipes (extension of the outlet) optional

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Link
measured



Inline Filter 110 LEN

- New flow-optimized filter head
- Reinforced and more stable mounting interface
- Filtration support by means of cycloneshaped flow path
- Easier removal of the filter element due to an ejection spring
- New improved by-pass valve (applies to all products)
- Aluminium with wide fluid compatibility



Block Mounting Filter 450FEN0040-01000-2X

- Block Mounting Filters with filter elements to DIN24550
- Outlet below inlet
- Max. DN50
- Pmax 450bar
- High filtration performance due to the tangential cyclone effect flow path



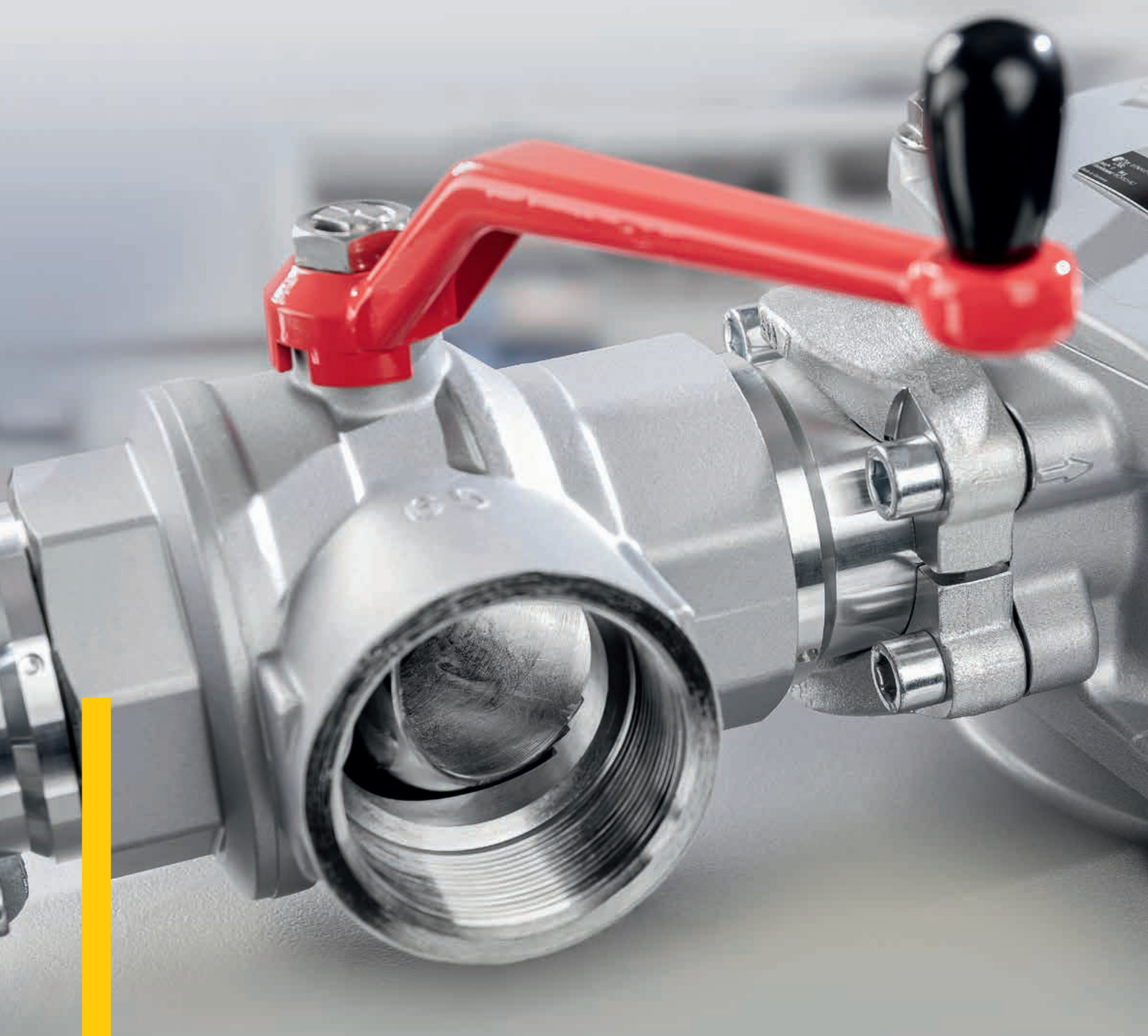
Block Mounting Filter 245/350PSFN0040-1000

- Block mounting filter with filter elements to DIN24550
- Outlet below inlet
- Max. DN38
- Pmax 350bar
- High filtration performance due to the tangential cyclone effect flow path



Duplex Filter 50/63FLDKN0063-2500

- Duplex filter with ball valve change over for lower leakage rate and filter elements to DIN24550
- Pmax 63bar
- Max. DN100
- Pressure equalisation from size 0400 and larger
- Sampling ports provided as a standard on all sizes
- Two possible mounting options as a standard on all sizes
- Standard lifting lug from size 0400 and larger
- Wall mount as a standard, foot mount optional
- Easy to operate and/or changing of filter elements
- Filter cover with lifting handle
- Improved filtration through integrated cyclone flow path
- Magnetic drain plug as a standard on all sizes



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