

# FDD315 SERIES

Duplex high pressure filters



## USER TIPS



- 1 FILTER HEAD
- 2 INDICATOR
- 3 FIXING HOLES
- 4 FILTER ELEMENT
- 5 SEAL KIT
- 6 FILTER BOWL
- 7 VENT

### INDICATOR TIGHTENING TORQUE

90 Nm

### SPARE SEAL KIT PART NUMBER (5)

	NBR
XD040-063-100	06.021.00328
XD160-250-400	06.021.00330

### BOWL TIGHTENING TORQUE

screw up filter bowl till end

## WARNING

- Make sure that Personal Protective Equipment (PPE) is worn during installation and maintenance operation.

## DISPOSAL OF FILTER ELEMENT

- The used filter elements and the filter parts dirty of oil are classified as "Dangerous waste material": they must be disposed according to the local laws by authorized Companies.

## INSTALLATION

- 1. The IN and OUT ports must be connected to the hoses in the correct flow direction an arrow shows on the filter head (1).
- 2. The filter housing should be preferably mounted with the bowl (6) downward.
- 3. Secure to the frame the filter head (1) using the threaded fixing holes (3).
- 4. Verify that no tension is present on the filter after mounting.
- 5. Enough space must be available for filter element replacement.
- 6. The visual clogging indicator must be in a easily viewable position.
- 7. When a electrical indicator is used, make sure that it is properly wired.
- 8. Never run the system with no filter element fitted.
- 9. Keep in stock a spare FILTREC filter element for timely replacement when required.
- 10. Filter housing should be earthed.

## OPERATION

- 1. The filter must work within the operating conditions of pressure, temperature and compatibility given in the first page of this data sheet.
- 2. The filter element must be replaced as soon as the clogging indicator signals at working temperature (in cold start conditions, oil temperature lower than 30°C, a false alarm can be given due to oil viscosity).
- 3. If no clogging indicator is mounted, replace the element according to the system manufacturer's recommendations.

## MAINTENANCE

- 1. Operate and hold pressure equalizing lever located behind switching lever. Pull catch knob and swivel switching lever. Engage the catch on the clear filter side. Place through or drip pan underneath to collect leaving oil.
- 2. Loosen vent screw of the filter side not in use by 2-3 turns; max. until contact is made with the safety stop.
- 3. Unscrew filter bowl by turning counter-clockwise. Clean the bowl using a suitable cleaning solvent. Warning: The shift lever may not, from now until the screwing back in of the filter bowl, be activated under any circumstances!
- 4. Remove filter element by pulling down carefully.
- 5. Check o-ring on the filter housing for damage. Replace, if necessary.
- 6. Make sure that the order number on the spare element corresponds to the order number of the filter name-plate. To ensure no contamination occurs during the exchange of the element first open the plastic bag and push the element over the spigot in the filter head. Now remove plastic bag.
- 7. Lightly lubricate the threads of the filter bowl and screw into the filter head.
- 8. To refill the filter chamber, operate only the pressure equalizing lever (leave the switching lever arrested in its catch) long enough for the medium to emerge bubble-free from the vent bore.
- 9. Tighten vent screw. Check filter for leaks by operating the pressure equalizing lever once again.

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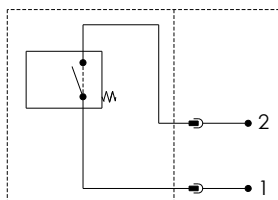
Duplex high pressure filters



## FG2 - FG5 - FG8 CLOGGING INDICATORS

Max. voltage:	250 V AC / 200 V DC
Max. current:	1 A
Contact load:	70 W
Type of protection:	IP 65 in inserted and secured status
Contact type:	normally open / normally closed
Cable sleeve:	M20X1,5
Wiring box:	DIN EN 175 301-803
Setting:	2,2 bar – FG2 INDICATOR 5 bar – FG5 INDICATOR 8 bar – FG8 INDICATOR

## ELECTRICAL CONNECTION SCHEME



The FG2, FG5 and FG8 are differential pressure indicators specific for FDD filter series.

These devices give both a visual and electrical alarm when the filter element clogs.

The visual alarm is provided by a red pop-up button that need to be pressed for reset after element replacement.

The electric alarm is provided with a SPST connection through a plug according to DIN EN 175301-803.

The indicator is provided in normally closed contact condition; the condition can be switched to normally open contact following the instruction below.



- 1 STATE OF DELIVERY – NORMALLY CLOSED CONTACT
- 2 REMOVE THE ELECTRIC UPPER PART
- 3 TURN BY 180° THE ELECTRIC UPPER PART
- 4 FIT THE ELECTRIC UPPER PART ON THE BASE – NORMALLY OPEN CONTACT