

Farm

3028285

FLENDER

LIST OF EQUIPMENT

Page / of

Code : HASANOGLAN RM

1 / 7

Please quote in correspondence

GL 4407857 - 60 EN

Rev. a

Name	Department	Date	Date of revision	Drawing No.	Type	Size
Luediger	HDEV	06.08.08	23.10.08		OWGM	13.1

Quantity	Description	Part-No.	Manufacturer	Tagg. No.
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Switching and monitoring functions as per:
 Lubrication diagram Drg. No.: 6 192 781
 Oil Supply System type: OWGM 13.1 variant 2
 Drawing No.: 6 203 742 ; Material-No. 1.405.371
 Terminal diagram as per Drg. No.: 6 203 791

See also List of Equipment
 GL 4407857-040 Gear Unit type: KMPS 396

Oil viscosity Mineraloil ISO VG 320

Low pressure lubrication system:

1	Screw pump Type: TRF 660 R 46 Nominal pressure PN 16 Rate of oil flow approx.: 590 l/min at 4 bar Direction of rotation : cw with pressure relief valve adjusted at p > 8 bar coupled directly to :	10	ALLWEILER
1	Three-phase motor Type: 1LG6 186-4AA Design: V1 Size: 180L-04 Speed: 1470 1/min Rating: 22,0 kW Voltage : 3 x 400 V Supply frequency : 50 Hz Insulation class : F utilized acc, to B Degree of protection : IP 55 Efficiency class: EFF1	11	SIEMENS
1	Double change-over filter Type: 40 FLD 0095 G25 Nominal pressure: PN16 Rate of oil flow: 590 l/min Filter coarseness: 25 µm Filterelement: stainless steel wire cloth with optical differential pressure indication with electrical diff. press. monitor Type A2.O GW 02 00P Quantity of switching contacts: 1 Max. operating voltage: 230 V AC Max. switching capacity: 20 VA Degree of protection : IP 65 > 2 bar : WARNING (clean filter)	20	EPPENSTEINER

1	Water/oil cooler Type: FPS 14-73-2-N Cooling efficiency: 125 kW Rate of oil flow approx.: 590 l/min Required cooling water flow rate: 35 m³/h maximum Water temperature cooler inlet/outlet: 35 / 38 °C Configuration : Resistant to fresh and seawater	30	FUNKE
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Industriefilter · Hydrospeicher

Installation, Starting and Maintenance

Duplex Filter 40 FLD 0060 - 0120

40 FLDN 0400- 0630

Installation

Verify operating pressure on the nameplate is equal or greater than the maximum system pressure. Install the filter using a mounting point provided and check the flow direction is correct and ensure sufficient clearance for filter servicing.

Connection of Electrical Maintenance Indicator

Connect indicator using the three wired cable.

Please verify electrical ratings on the indicators name plate.

Connection settings:

- | | |
|--------------------|----------------------------------|
| 1. normally closed | 1 (black) + 3 (blue) |
| 2. normally opened | 1 (black) + 2 (brown) |
| 3. changer | 1 (black) + 2 (brown) + 3 (blue) |

Starting

Move wicking lever to central position to fill both filter sides.

Switch on system pump.

De-aerate filter by opening the vent valve, close when liquid emerges from valve.

Move switching lever to filter in use. Switching lever must be moved into final position.

Maintenance

The filter element is clogged and needs to be replaced or cleaned if the visual indicator's red pin reaches its final position and /or the electrical switch is activated.

Filter Element Service

Open valve in pressure equalisation valve, move switching lever to opposite direction until final position on clean filter side is reached. Indicator pin points towards the operating side. Close pressure equalisation valve.

Open vent valve and depressurise system in filter out of use. Close vent valve.

Lift off filter cover. Open drain plug and drain filter. Remove filter element, turning slightly off from its lower spigot in the filter housing. Check filter housing inside and clean if necessary.

Replace filter element H..., XL, P... and VS... The filter element with G...-media is cleanable. The efficiency of the cleaning process depends on the characteristics of contamination and the final pressure drop prior to servicing / cleaning the element. If the differential pressure after the filter element's cleaning process exceeds more than 50% of the pre service value the G... filter element also needs to be replaced.

Replace filter element in filter housing.

Check o-ring and replace in case of damage or wear.

Screw on filter cover. De-aerate filter by opening the vent valve, close when liquid emerges from valve.

Warning

Assemble and disassemble filter only when system is switched off!

Vessel is under pressure!

Leave pressure equalisation valve closed while filter housing is out of service!

Do not operate switching device while filter housing is out of service!

Do not change maintenance indicator or pressure

equalisation valve when filter is under pressure!

Functions and safety warranty only with EPE-spare parts!

Service filter only by trained personal!

Technical modifications reserved!

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50G-CB/02/03.04/Flender



Industriefilter • Hydrospeicher

Serviceanleitung für Wartungsanzeiger

Montageanleitung

Bestimmte Wartungsanzeiger werden aus versandtechnischen Gründen zum Schutz vor Beschädigung lose mitgeliefert und sind vor Inbetriebnahme des Filters zu montieren:

Montage Wartungsanzeiger A...

1. Verschlußstopfen aus Anschlußbohrungen entfernen.
2. Wartungsanzeiger an Befestigungsvorrichtung am Filter verrohren.
3. Dabei Überwurfmutter (SW17) festziehen und Einschraubverschraubung (SW 17) am Filter gegenhalten.

Montage Wartungsanzeiger E...

1. Verschlußstopfen im Filterkopf entfernen.
2. Sitz der beiden O-Ringe am Wartungsanzeiger prüfen.
3. Wartungsanzeiger in G 1/2 Gewinde einschrauben, Anzugsdrehmoment max. 40 Nm (4,1 mkp) beachten.

Anschluß des elektrischen Anzeigers

Der Gerätestecker, falls so bestellt und geliefert, kann beliebig gedreht werden, nachdem man die 12kt.-Überwurfmutter (SW 34) gelöst hat. Danach wieder festziehen.

Der Anschluß des elektrischen Wartungsanzeigers mit einem Schaltpunkt erfolgt durch ein dreipoliges Kabel. Dabei Betriebsspannung und Schaltung beachten.

Anschluß als Schließer : 1 (sw) + 3 (bl)

Öffner : 1 (sw) + 2 (br)

Wechsler : 1 (sw) + 2 (br) + 3 (bl)

Elektrische Wartungsanzeiger mit zwei Schaltpunkten gemäß den Angaben des Typenschildes anschließen.

Reinigung von Wartungsanzeigern

Bei Betriebsmedien mit hohem Verschmutzungsgrad sind Differenzdruckanzeiger regelmäßig zu reinigen, da sich Schmutzrückstände in der Anströmseite des Anzeigers ablagern und die Funktion beeinträchtigen können.

Vorgang:

Betriebspumpe abschalten. Druck am Filter abbauen.

Bei allen flanschbaren Wartungsanzeigern und Wartungsanzeigern Typ A...

Verschlußschraube (Zylinderschraube mit Innensechskant M 12 x 1,5) lösen und Steuerkolben entnehmen.

Steuerkolben, Druckfeder und Bohrung des Wartungsanzeigers reinigen. Steuerkolben ölen, Feder aufsetzen in Wartungsanzeiger einbauen und diesen wieder verschließen.

Bei schwer zugänglichen Wartungsanzeigern diese zur Reinigung vom Filter abbauen.

Bei einschraubbaren Wartungsanzeigern Typ E...

Wartungsanzeiger abschrauben, Sicherungsring ausbauen und Dämpfungsscheibe entnehmen.

Steuerkolben mit Feder aus Kolbenbohrung herausziehen.

Entnommene Bauteile reinigen.

Danach Steuerkolben ölen, mit aufgesetzter Feder in Wartungsanzeiger einbauen, anschließend mit Dämpfungsscheibe und Sicherungsring wieder verschließen.

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64/01/03.00/6000



Industrial Filters • Accumulators

Service instruction for maintenance indicators

Installation

Certain maintenance indicators are shipped separately for protection against damage during shipment. These indicators have to be mounted at the filter prior to startup.

Installation of type A... indicator

1. remove plug from installation borings
2. tube maintenance indicator at the filter's installation device while tightening swivel nut (SW 17) and hold up union piece (SW 17) at filter.

Installation of type E... indicator

1. remove plug from filter head.
2. check position of both O-rings in maintenance indicator
3. screw indicator into G 1/2 connection thread considering starting torque of max. 40 Nm (4,1 mkg)

Installation of electrical indicator

If an electric plug is used it can be turned in any direction after the swivel nut (SW 34) has been released. Tighten swivel nut again.

Connect indicator with a single switching point using the three wired cable.

Please verify electrical ratings on the indicators name plate.

Connection settings:

1. normally closed : 1 (black & white) + 3 (blue)
2. normally open : 1 (black & white) + 2 (brown)
2. common : 1 (black & white) + 2 (brown) + 3 (blue)

Connect electrical indicators with two switching points in accordance to instructions on name plate.

Cleaning of maintenance indicators

Differential pressure indicators have to be cleaned if highly contaminated fluids are filtered, because contamination residues can deposit in the indicators upstream side.

Procedure:

Switch off system pump

Flange mounted and type A... indicators:

Release plug (socket head cap screw M 12 x 1,5) and remove piston valve. Clean pressure spring, piston valve and indicator boring.

Oil piston valve, put on spring, install them inside the indicator and close again.

Disconnect indicators from filter housing if they are not easily accessible.

Screwable indicators type E...:

Unscrew indicator, remove locking ring and compensation disc.

Remove piston valve and spring for cleaning.

Oil piston valve and install it with spring in maintenance indicator then close again with compensation disc and locking ring.

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RESİM ADI KLINKER ÜRETİM HATTI		Mant ÇÖRÜK		KONTROL	
Çizim		Barç MÜSULAR		Çekilmiştir	
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ÖLÇEK Scale		1/1		CAD NO: CC03.216.DR11.ME.001.A	
RESİM NO Drawing Number		CC03.216.DR11.ME.001.A		PAPTA A3	
REZYON Size		A3		REVİZYON	
TUTUMLAR mm. All dimensions are mm.		BU RESİMİN BÖTİM HAKLARINI VOTORANTİM'E AITTIR. YAZILI İZİN ALMADAN KULLANILMAZ VE ÇÖZÜLTÜLMÜZ.		All copyrights transformation or any other use of this document remain exclusive properties.	

NOTLAR:
1- KIVRIM SAYISI = 46
2- DERİNLİK (H) = 24mm²
3- YÜZEY ALANI = 8670cm²
4- FİLTRE ELEMANI = 100 M

