

1) connection for the potential equalisation, only for application in the explosive area

1. Type index:

1.1. Complete filter: (ordering example)

GFK. 50. I. ST. 0,50G. P. FD1. 8. OE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

- 1 **series:**
GFK = coarse filter with strainer basket
- 2 **nominal size:** 50, 65, 80
- 3 **execution:**
I = filter outlet according to I
II = filter outlet according to II
- 4 **housing material:**
ST = housing of steel
VA = housing of stainless steel
- 5 **filter-material and filter-fineness:**
0,25 G = 0,25 mm, 0,50 G = 0,50 mm, 0,75 G = 0,75 mm,
1,00 G = 1,00 mm, 1,50 G = 1,50 mm stainless steel wire mesh
- 6 **sealing material:**
P = Nitrile (NBR)
V = Viton (FPM)
- 7 **connection:**
FD1 = flange DIN 2633, form C DIN 2526
FD2 = flange DIN 2633, form E DIN 2526
- 8 **connection size:**
8 = DN 50 (GFK50)
9 = DN 65 (GFK65)
A = DN 80 (GFK80)
- 9 **clogging indicator:**
- = without
OE = clogging indicator, visual-electrical, see sheet-no. 1614
DM = pressure difference gauge
DKM = pressure difference gauge with contact

1.2. Strainer basket: (ordering example)

Gr.00. 0,50. ST

| | | |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|

- 1 **size of strainer basket :** Gr. 00, Gr. 01
- 2 **filter-material and filter-fineness:**
0,25 G = 0,25 mm, 0,50 G = 0,50 mm, 0,75 G = 0,75 mm,
1,00 G = 1,00 mm, 1,50 G = 1,50 mm stainless steel wire mesh
- 3 **material of strainer basket:**
ST = strainer basket of steel, wire mesh of stainless steel
VA = strainer basket and wire mesh of stainless steel

2. Dimensions:

| type | GFK 50 | GFK 65 | GFK 80 |
|-------------------------------|--------|--------|--------|
| connection | DN 50 | DN 65 | DN 80 |
| size of strainer basket | Gr. 00 | Gr. 01 | Gr. 01 |
| Q = m ³ /h | 25 | 35 | 55 |
| filter surface m ² | 0,12 | 0,18 | 0,18 |
| A | 442 | 587 | 587 |
| B | 215 | 340 | 340 |
| C | 85 | 100 | 100 |
| D | 300 | 420 | 420 |
| weight kg | 40 | 44 | 45 |
| volume tank | 10 l | 14 l | 14 l |

3. Spare parts:

| item | qty. | designation | dimension and article-no. | | |
|------|------|--------------------|---|--------|--------|
| | | | GFK 50 | GFK 65 | GFK 80 |
| 1 | 1 | strainer basket | Gr. 00 | Gr. 01 | Gr. 01 |
| 2 | 1 | O-ring | 190 x 5 305432 (NBR) 310283 (FPM) | | |
| 3 | 2 | screw plug | G ½ 309730 | | |
| 4 | 2 | gasket | A 22 x 27 305564 | | |
| 5 | 2 | screw plug | G ¼ 309734 | | |
| 6 | 2 | gasket | A 14 x 18 306330 | | |
| 7 | 1 | spring | Da = 95 304414 | | |
| 8 | 1 | clogging indicator | OE, DM or DKM | | |

4. Description:

Coarse filters of the series GFK 50-80 are suitable for a working pressure up to 16 bar. Pressure peaks can be absorbed with a sufficient margin of safety. The filters can be installed as suction filter, pressure filter or return-line filter.

The filter elements are filter baskets with steel wire mesh as filter material. The perforated centre tube is laid out with steel wire mesh. The flow direction is from inside to the outside.

INTERNORMEN-Filter elements are known as elements with a high intrinsic stability and an excellent filtration capability, a high dirt-retaining capacity and a long service life.

INTERNORMEN-Filter are suitable for all petroleum based fluids, HW-emulsions, most synthetic hydraulic fluids and lubrication oils.

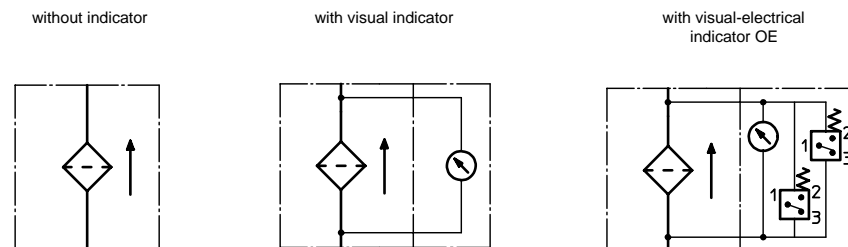
Approvals according to TÜV, and the major „Shipyards Classification Societies“ D.N.V.; B.V.; G.L.; L.R.S.; R.I.N.A.; A.B.S.; P.R.S.;USS.R.S. and others are possible.

5. Technical data:

| | |
|--------------------------|--|
| temperature range: | - 10 °C to + 80 °C (for a short time + 100 °C) |
| operating medium: | mineral oil, other media on request |
| max. operating pressure: | 16 bar |
| test pressure: | 23 bar |
| connection system: | SAE-flange 3000 PSI |
| housing material: | C-steel or stainless steel |
| sealing material: | Nitrile (NBR) or Viton (FPM), other materials on request |
| installation position: | vertical |

Classified under the Pressure Equipment Directive 97/23/EC for mineral oil (fluid group 2), Article 3, Para. 3.
Classified under ATEX Directive 94/9/EC according to specific application (see questionnaire sheet-no. 34279-4).

6. Symbols:



7. Pressure drop flow curves:

Precise flow rates see 'INT-Expert-System Filter', respectively Δp -curves; depending on filter fineness and viscosity.