**SFL 040 · SFL 075**

**In-line mounting** · Connection G1¼ / -20 SAE · Nominal flow rate up to 90 l/min / 23.8 gpm

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### Description

**Application**

To be installed in the suction line of the pumps of hydraulic systems resp. upstream of the charge pumps of hydrostatic drives.

**Filter maintenance**

By using a clogging indicator the correct moment for maintenance is stated and thus the optimum utilization of the filter life is guaranteed.

**Materials**

- Filter head: Aluminum alloy
- Filter bowl: Polyamide, GF reinforced
- Seals: NBR (FPM on request)
- Filter media: Paper - cellulose web, impregnated with resin

**Accessories**

Electrical and optical clogging indicators are available. For technical data and dimensions see datasheet 60.20.

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### Characteristics

**Nominal flow rate**

Up to 90 l/min / 23.8 gpm.

The nominal flow rates indicated by ARGO-HYTOS are based on the following features:

- Closed by-pass valve at \( v \leq 150 \text{ mm}^2/\text{s} / 695 \text{ SUS} \)
- Element service life \( > 500 \) operating hours at an average fluid contamination of \( 0.07 \text{ g per l/min} / 0.27 \text{ g per gpm flow volume} \)
- Flow velocity in the connection lines \( \leq 2 \text{ m/s} / 6.5 \text{ ft/s} \)

**Connection**

Threaded ports according to ISO 228 or DIN 13 and SAE standard J514. Sizes see Selection Chart, page 3, (other port threads on request).

**Filter fineness**

50 µm(c)

\( \beta \)-values according to ISO 16889 (see diagrams)

**Hydraulic fluids**

Mineral oil and biodegradable fluids (HEES and HETG, see info-sheet 00.20).

**Temperature range**

-30 °C ... +100 °C (temporary -40 °C ... +120 °C)
-22 °F ... +212 °F (temporary -40 °F ... +248 °F)

**Mounting position**

Vertical mounting to be preferred, filter head on top.
**Dimensions**

- **Connection G¼ for clogging indicator**

**Measurements in mm / inch**

<table>
<thead>
<tr>
<th>Type [mm]</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>K</th>
<th>L</th>
<th>M Ø/depth</th>
<th>N</th>
<th>O</th>
<th>Q</th>
<th>R</th>
<th>S</th>
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<td>G1¼</td>
<td>G1¼</td>
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<td>192</td>
<td>28</td>
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<td>133</td>
<td>117</td>
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<td>M8 / 15</td>
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<td>302</td>
<td>28</td>
<td>85</td>
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<td>AF 41</td>
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<td>M8 / 15</td>
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<th>E</th>
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<th>G</th>
<th>H</th>
<th>I</th>
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<th>M Ø/depth</th>
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<th>Q</th>
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<th>S</th>
<th>T</th>
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<td>-20 SAE*</td>
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<td>1.10</td>
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<td>5.24</td>
<td>4.61</td>
<td>2.36</td>
<td>AF 41</td>
<td>1.87</td>
<td>M8 / 15</td>
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*Corresponds to 1½-12 UN-2B

**Symbol**

1

*Subject to change · SFL040-EN/US · 0818*
Ordering Code

Filter assembly

Type of filter  | Code
---|---
Suction Filter, In-line  | SFL

Flow rate, max.  | Code
---|---
50 l/min / 13.2 gpm  | 040
90 l/min / 23.8 gpm  | 075

Connection thread  | Code
---|---
G1½  | GE
- 20 SAE  | UE

Filter fineness  | Code
---|---
50 µm (50P)  | P3

Spare filter element

Filter media  | Code
---|---
Paper  | P

Length  | Code
---|---
for SFL 040  | 14
for SFL 075  | 25

Order example:

Order example:

SFL - 040 - GE - P3 - DM - 100

Order example:
P3.1014-02

Spare parts

Pos.  | Designation  | Part No.
---|---|---
1  | Filter element  | see above
2  | O-ring
115 x 4.5 mm
4.53 x 0.18 inch  | N007.1155
3  | Filter bowl SFL 040  | D 230.0102
3  | Filter bowl SFL 075  | D 230.0101

The functions of the complete filters as well as the outstanding features of the filter elements assured by ARGO-HYTOS can only be guaranteed if original ARGO-HYTOS spare parts are used.
Quality Assurance

Quality management according to DIN EN ISO 9001

To ensure constant quality in production and operation, ARGO-HYTOS filter elements undergo strict controls and tests according to the following ISO standards:

ISO 2941 Verification of collapse / burst pressure rating
ISO 2942 Verification of fabrication integrity (Bubble Point Test)
ISO 2943 Verification of material compatibility with fluids
ISO 2943 Verification of material compatibility with fluids
ISO 3968 Evaluation of pressure drop versus flow characteristics
ISO 16889 Multi-Pass-Test (evaluation of filter fineness and dirt-holding capacity)
ISO 23181 Determination of resistance to flow fatigue using high viscosity fluid

Various quality controls during the production process guarantee the leakfree function and solidity of our filters.

Illustrations may sometimes differ from the original. ARGO-HYTOS is not responsible for any unintentional mistake in this specification sheet.