

Suction Filters - Standard

SFL-025 · SFL-035

In-line mounting · Connection G¾ / -12 SAE · Nominal flow rate up to 40 l/min / 10.6 gpm





In-line Suction Filter SFL-025

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.

Characteristics

Nominal flow rate

Up to 40 l/min / 10.6 gpm.

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

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

Connection

Threaded ports according to ISO 228 or DIN 13 and SAE standard J514. Sizes see section ordering code, (other port threads on request).

For installation recommendations, see info sheet 00.325.

Filter fineness

50 μm(c)

B-values according to ISO 16889 (see diagrams)

Hydraulic fluids

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

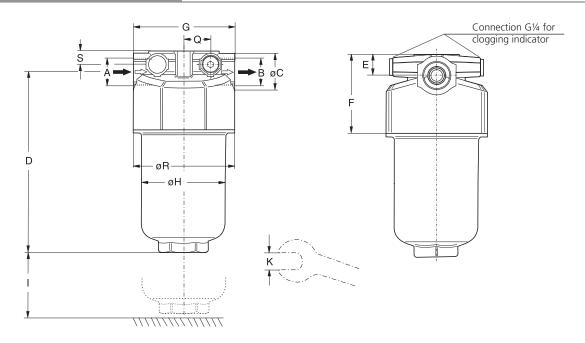
Temperature range

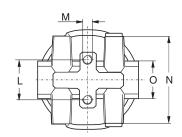
-30 °C ... +100 °C (temporary -40 °C ... +120 °C) -22 °F ... +212 °F (temporary -40 °F ... +248 °F)

Mounting position

Vertical mounting to be preferred, filter head on top.

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Measurements in mm / inch

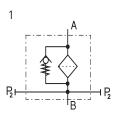
Type [mm]	Α	В	С	D	E	F	G	Н	I	K	L	M Ø/depth	N	0	Q	R	S
SFL-025	G¾	G¾	35	178	20	74	95	80	70	AF 41	38.1	M8 / 15	82	AF 36	25	95	12
SFL-035	G¾	G¾	35	212	20	74	95	80	70	AF 41	38.1	M8 / 15	82	AF 36	25	95	12

Type [inch]	А	В	С	D	Е	F	G	Н	I	K mm	L	M Ø/depth	N	O mm
SFL-025	-12 SAE*	-12 SAE*	1.38	7.01	0.79	2.91	3.74	3.15	1.57	AF 41	1.50	M8 / 15	3.23	AF 36
SFL-035	-12 SAE*	-12 SAE*	1.38	8.35	0.79	2.91	3.74	3.15	1.57	AF 41	1.50	M8 / 15	3.23	AF 36

Type [inch]	Q	R	S						
SFL-025	0.98	3.74	0.47						
SFL-035	0.98	3.74	0.47						

^{*}Corresponds to $1^{1}/_{16}$ - 12 UN-2B

Symbol

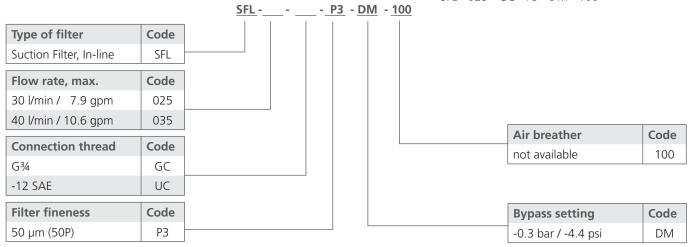


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Order example:

SFL - 025 - GC - P3 - DM - 100

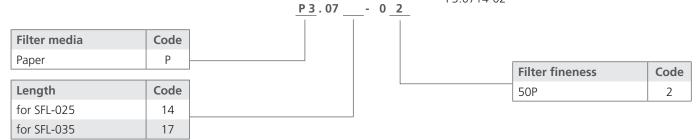


Filters delivered with 2 plugged connections G¼ for clogging indicators.

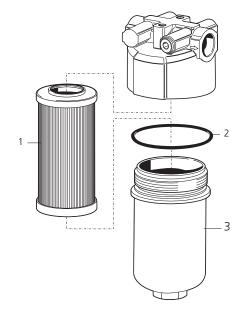
Spare filter element

Order example:

P3.0714-02



Spare parts



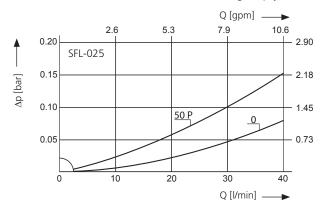
Pos.	Designation	Part No.
1	Filter element	see above
2	O-ring 82.14 x 3.53 mm 3.23 x 0.14 inch	N007.0824
3	Filter bowl SFL-025	E 068.0101
3	Filter bowl SFL-035	E 068.0102

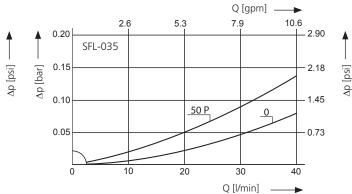
The functions of the complete filters as well as the outstanding features of the filter elements assured by ARGO-HYTOS can only be guaranteed if original ARGO-HYTOS spare parts are used.

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∆p-curves for complete filters

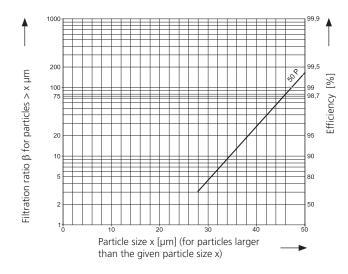
Pressure drop as a function of the **flow volume** at $v = 35 \text{ mm}^2/\text{s} / 162 \text{ SUS } (0 = \text{housing empty})$





Filter fineness curves

Filtration ratio β as a function of particle size x obtained by the Multi-Pass-Test according to ISO 16889



The abbreviations represent the following β -values resp. finenesses:

For EXAPOR®Standard and Paper elements:

$$50P = \overline{\beta}_{50(c)} = 200 \text{ Paper}$$

Based on the structure of the filter media of the 50P paper elements, deviations from the printed curves are quite probable.

For screen elements:

40S	=	screen material with mesh size	40 µm
60S	=	screen material with mesh size	60 µm
100S	=	screen material with mesh size	100 µm

Tolerances for mesh size according to DIN 4189.

For special applications, finenesses differing from these curves are also available by using special composed filter material.

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 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.

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