

Screen Fittings**S9.0302**

Housing design · Connection up to M27x2 · Nominal flow rate up to 90 l/min / 23.8 gpm



Screen fitting S9.0302

Description**Application**

- › For integration into return line or return circuits, such as cooling circuits
- › In the system return as a protective device e.g. for cooling systems
- › As a protective device, e.g., for cooling systems or systems with frequently changing components, such as test benches
- › Usually installed directly in the inlet or outlet of the components to be protected
- › Protects hydraulic components from coarse contamination

Features

- › For medium volume flows
- › Line installation
- › Protection against malfunctions
- › Compact design; thus easy retrofitting into existing systems ensured
- › Large filter surface due to optimized shape of the screen mesh
- › Cleanable

Materials

Fitting / sleeve: steel, galvanized
Seals: NBR (FPM on request)
Filter material: stainless steel mesh (1.4301)

Characteristics

Permissible differential pressure

Flow direction A → B: 20 bar / 290 psi

Nominal flow rate

Up to 90 l/min / 23.8 gpm

(see Selection Chart, column 2)

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

- › Flow velocity in the connecting lines
≤ 6 m/s / 19.7 ft/s

Filter fineness

800 µm

(see Selection Chart, column 4)

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)

* < 1% of total operating time, but max. 1 hour continuously

Mounting position

Any mounting position possible, flow direction A → B

Connection

Treated ports according to

- › ISO 228 or DIN 13

Sizes see Selection Chart, column 6

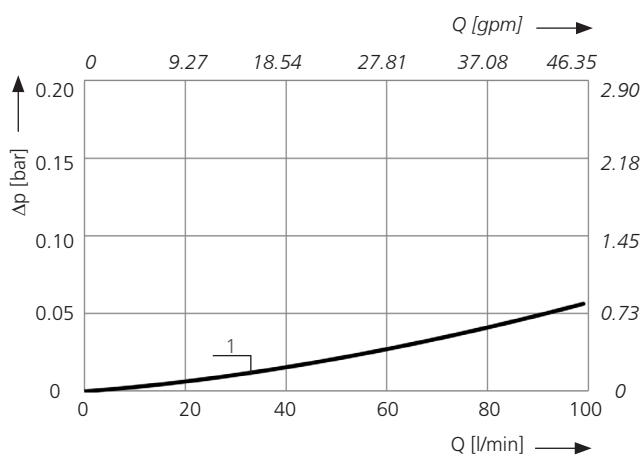
(other port threads on request).

For installation recommendations, see info sheet 00.325

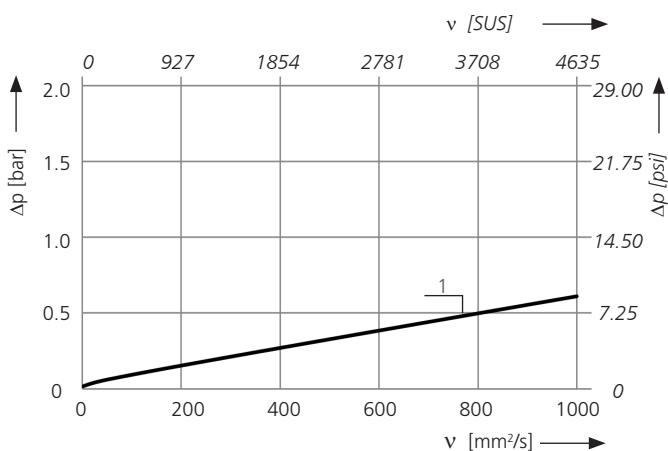
Diagrams

Δp-curves for the screen fitting in Selection Chart, column 3

D1 Pressure drop as a function of the **volume flow**
at $v = 35 \text{ mm}^2/\text{s} / 162 \text{ SUS}$



Pressure drop as a function of the
kinematic viscosity at nominal flow



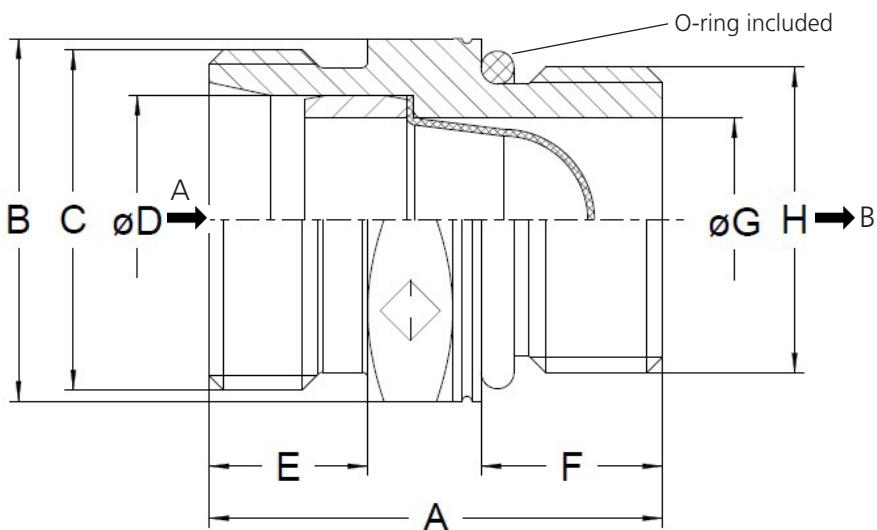
Selection Chart

| Part-No. | Nominal flow rate | | Pressure drop see diagram D/curve no. | | Filter fineness | | Filter surface | | Symbol | | Weight | | Permissible differential pressure | | Remarks |
|------------|-------------------|------|---------------------------------------|-----|-----------------|-------------------|----------------|-----|--------|-----|--------|-----|-----------------------------------|--|---------|
| | l/min | gpm | | µm | cm ² | inch ² | | | kg | lbs | bar | psi | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | |
| S9.0302-08 | 90 | 23.8 | D1/1 | 800 | 8.3 | 1.3 | 1 | 0.1 | 0.2 | 20 | 290 | | | | |

Remarks:

- The product listed in this chart is a standard part. Other designs available on request.

Dimensions



Measurements in mm

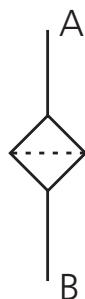
| Type | A | B | C | D | E | F | G | H |
|------------|----|-------|---------|----|----|----|----|---------|
| S9.0302-08 | 40 | AF 32 | M30 x 2 | 22 | 14 | 16 | 18 | M27 x 2 |

Measurements in inch

| Type | A | B mm | C mm | D | E | F | G | H mm |
|------------|------|---------|---------|------|------|------|------|---------|
| S9.0302-08 | 1.58 | AF 32 | M30 x 2 | 0.87 | 0.55 | 0.63 | 0.71 | M27 x 2 |

Symbol

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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 products.

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