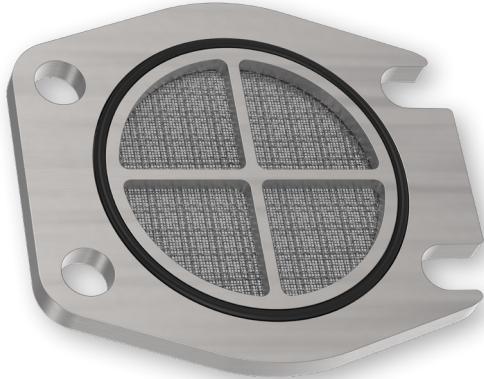


Flange Screens**S9.1202 · S9.1602 · S9.1702**

Flange design · Flange connection up to SAE 3½ · Nominal flow rate up to 2300 l/min / 607.6 gpm



Flange screen S9.1202

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 high volume flows
- › Flange mounting (line installation)
- › Protection against malfunctions
- › Compact design; thus easy retrofitting into existing systems ensured
- › Cleanable
- › Any flow direction possible

Materials

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

Characteristics

Nominal flow rate

Up to 2300 l/min / 607.6 gpm
(see Selection Chart, column 2)

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

- Recommended flow velocity in the connecting lines
 $\leq 4.5 \text{ m/s} / 14.8 \text{ ft/s}$

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 $^{\circ}\text{C}$... +100 $^{\circ}\text{C}$ (temporary* -40 $^{\circ}\text{C}$... +120 $^{\circ}\text{C}$)
-22 $^{\circ}\text{F}$... +212 $^{\circ}\text{F}$ (temporary* -40 $^{\circ}\text{F}$... +248 $^{\circ}\text{F}$)

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

Mounting position

Any mounting position possible, preferably flow direction A \rightarrow B

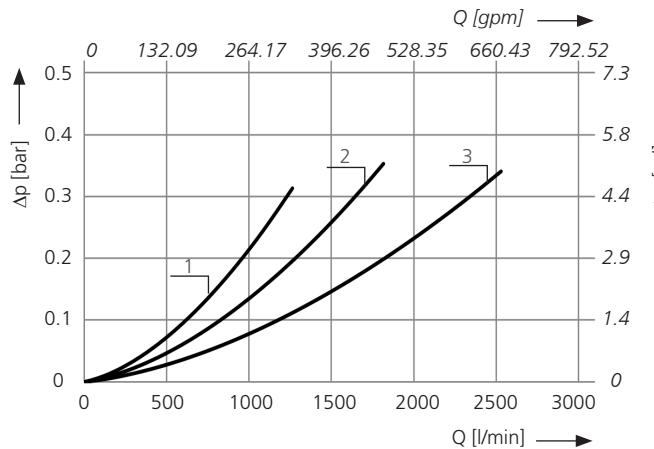
Connection

SAE-Flange (6000 psi)
Sizes see Selection Chart, column 6
(other port threads on request).
For installation recommendations, see info sheet 00.325

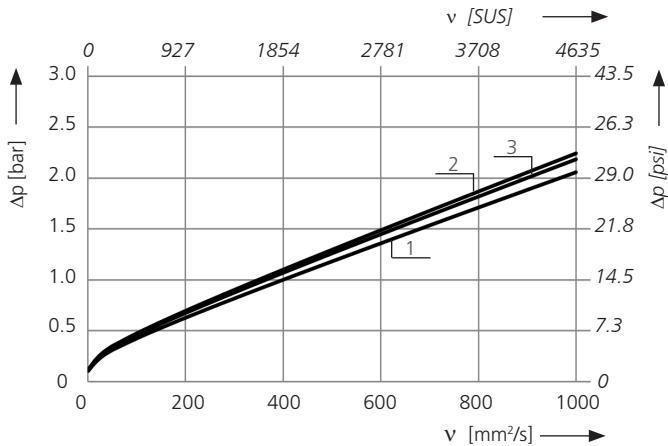
Diagrams

Δp -curves for flange screens 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



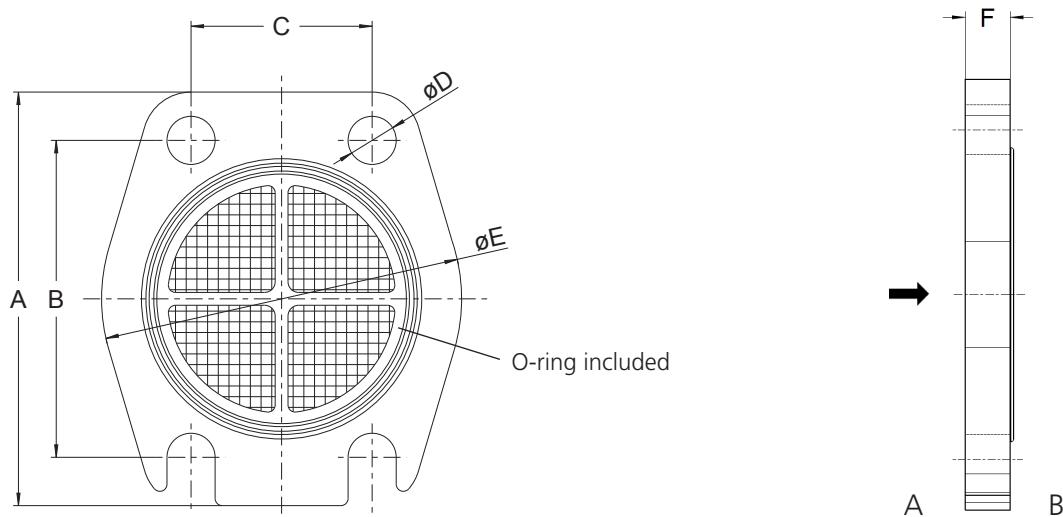
Selection Chart

Part-No.	Nominal flow rate		Pressure drop see diagram D/curve no.		Filter fineness	Filter surface	Connection	Symbol	Weight	Remarks
	l/min	gpm		μm	cm ²	inch ²			kg	lbs
1	2	3	4	5	6	7	8	9		
S9.1202-08	1150	303.8	D1/1	800	30	4.65	SAE 2½	1	0.25	0.6
S9.1602-18	1650	435.9	D1/2	800	40	6.20	SAE 3	1	0.70	1.5
S9.1702-08	2300	607.6	D1/3	800	57	8.84	SAE 3½	1	0.82	1.8

Remarks:

- The products listed in this chart are standard parts. Other designs available on request.

Dimensions



Measurements in mm

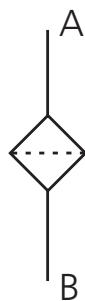
Type	A	B	C	Ø D	Ø E	F
S9.1202-08	116	88.9	50.8	13.5	101	12
S9.1602-18	136	106.4	61.9	17.0	110	10
S9.1702-08	152	120.7	69.8	17.0	136	10

Measurements in inch

Type	A	B	C	Ø D	Ø E	F
S9.1202-08	4.57	3.50	2.00	0.53	3.98	0.47
S9.1602-18	5.35	4.19	2.44	0.67	4.33	0.39
S9.1702-08	5.98	4.75	2.75	0.67	5.35	0.39

Symbol

1



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.