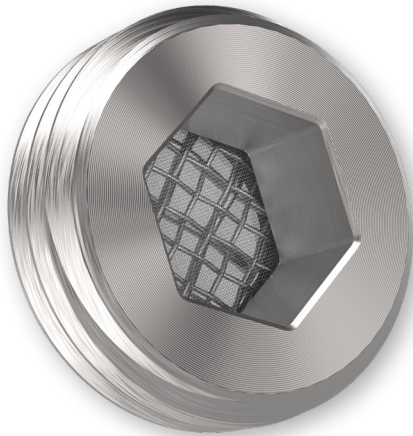


Screen Plugs

S9.0201

Screw-in version · Connection up to G½ · Nominal flow rate up to 3 l/min / 0.8 gpm



Screen plug S9.0201

Description

Application

- › As a protective device for screwing into threaded holes in the pressure line, e.g. for valve blocks
- › Protects hydraulic components from coarse, occasional contamination
- › Usually installed directly in the inlet or outlet connections of the components to be protected
- › Small pressure oil circuits, e.g., pilot circuits, clamping or locking circuits

Features

- › Protection against malfunctions
- › Cleanable
- › For small volume flows
- › Any flow direction
- › Compact design; thus easy retrofitting into existing systems ensured

Materials

Connection: steel, bright
Filter material: stainless steel mesh (1.4401)

Characteristics

Permissible differential pressure

Flow direction A → B: 250 bar / 3626 psi
Flow direction B → A: 25 bar / 363 psi

Nominal flow rate

Up to 14 l/min / 3.7 gpm

(see Selection Chart, column 2)

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

- › Differential pressure at 35 mm²/s / 162 SUS < 1.2 bar
- › Differential pressure at 200 mm²/s / 927 SUS < 7 bar
- › Flow velocity in the connecting lines
≤ 8 m/s / 26.3 ft/s

Filter fineness

80 µm, 200 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, consider flow direction

Connection

Treaded ports according to

- › ISO 228 or DIN 13

- › SAE standard 3514

Sizes see Selection Chart, column 6

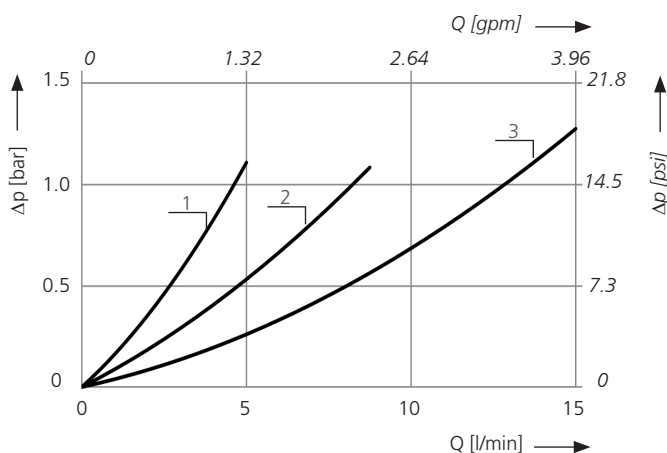
(other port threads on request).

For installation recommendations, see info sheet 00.325

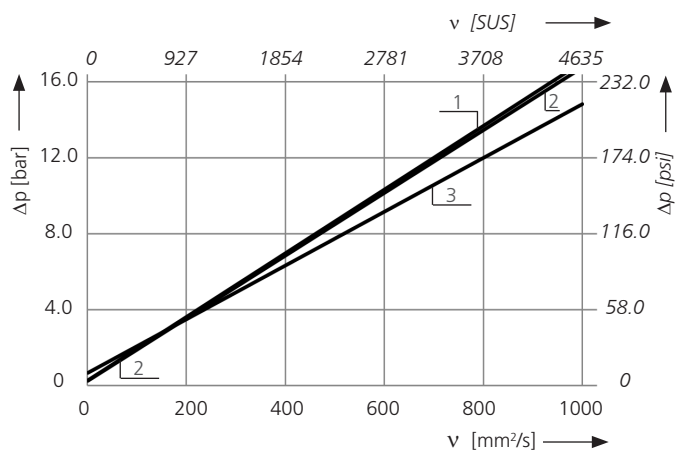
Diagrams

Δp-curves for screen plugs in Selection Chart, column 3

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



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



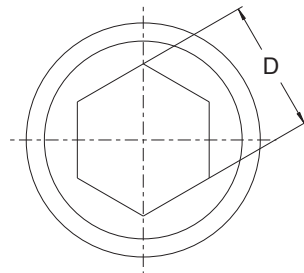
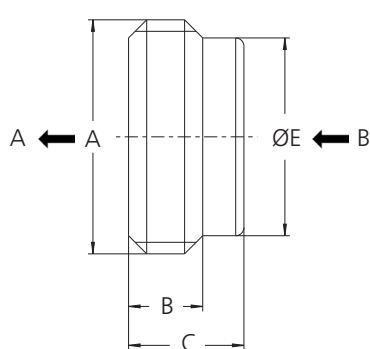
Selection Chart

Part-No.	Nominal flow rate		Pressure drop see diagram D /curve no.	Filter fineness			Connection	Symbol	Weight		Remarks
	l/min	gpm		µm	cm ²	inch ²			kg	lbs	
1	2		3	4	5		6	7	8		9
S9.0201-21	4	1.1	D1 /1	80	1	0.16	M12 x 1.5	1	0.005	0.011	
S9.0201-41	4	1.1	D1 /1	80	1	0.16	G ¼	1	0.005	0.011	
S9.0201-31	7	1.9	D1 /2	80	1	0.16	M14 x 1.5	1	0.006	0.013	
S9.0201-02	7	1.9	D1 /2	80	1	0.16	M16 x 1.5	1	0.006	0.013	
S9.0201-03	7	1.9	D1 /2	80	1	0.16	G ¾	1	0.006	0.013	
S9.0201-12	14	3.7	D1 /3	200	1	0.16	9/16-18 UNF-2A	1	0.007	0.016	

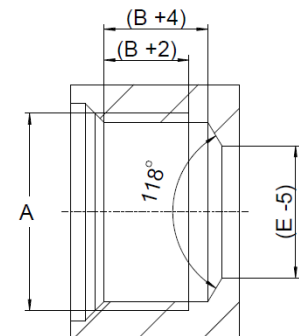
Remarks:

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

Dimensions



Installation recommendation



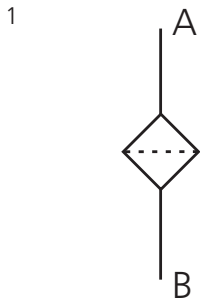
Measurements in mm

Type	A	B	C	D	E
S9.0201-21	M12 x 1.5	4.8	7.0	AF 6	Ø 10
S9.0201-41	G ¼	2.5	4.0	AF 6	Ø 11
S9.0201-31	M14 x 1.5	4.5	7.0	AF 8	Ø 12
S9.0201-02	M16 x 1.5	5.5	7.7	AF 8	Ø 12
S9.0201-03	G ¾	5.5	7.7	AF 8	Ø 12
S9.0201-12	9/16-18 UNF-2A	4.5	7.0	AF 8	Ø 12

Measurements in inch

Type	A	B	C	D mm	E
S9.0201-21	M12 x 1.5	0.19	0.28	AF 6	0.39
S9.0201-41	G ¼	0.10	0.16	AF 6	0.43
S9.0201-31	M14 x 1.5	0.18	0.28	AF 8	0.47
S9.0201-02	M16 x 1.5	0.22	0.30	AF 8	0.47
S9.0201-03	G ¾	0.22	0.30	AF 8	0.47
S9.0201-12	9/16-18 UNF-2A	0.18	0.28	AF 8	0.47

Symbol



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.