

0310000

Strainer

G1/4 ... G1, Rp1 1/4 ... Rp2

Compact design

Wide temperature range

Shock and vibration resistant to EN 61373, Category 1, class A and B



Technical features

Medium:

Neutral, semi-neutral and acid/alkaline gases and liquids

Application:

Strainers are built into pipelines upstream of controls, measuring instruments etc, to protect the equipment against clogging and breakdown.

Operating pressure:

0 ... 16 and 0 ... 100 bar (0 ... 232 and 0 ... 1450 psi)

Operating viscosity:

160 mm²/s max.

Flow direction:

Indicated by arrow

Mounting position:

Filter element tilted downwards

Fluid temperature:

-40 ... +100°C (-40 ... +212°F)

Air supply must be dry enough

to avoid ice formation at

temperatures below +2°C (+35°F).

Materials

see table

Technical data

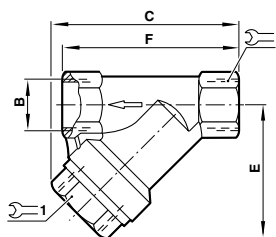
Strainer for neutral and semi-neutral gases and liquids

Symbol	Port size	Orifice (mm)	Operating pressure (bar)	Mesh size (mm)	Materials Body	Plug	Seals	Mesh	Weight (kg)	Spare filters	Model
	G1/4	6	0 ... 16	0,15	Brass	Brass	NBR	1.4301	0,43	1105085	0310040
	G1/4	6	0 ... 16	0,35	Brass	Brass	NBR	1.4301	0,43	1105086	0310041
	G3/8	10	0 ... 16	0,15	Brass	Brass	NBR	1.4301	0,41	1105085	0310140
	G3/8	10	0 ... 16	0,35	Brass	Brass	NBR	1.4301	0,41	1105086	0310141
	G1/2	12	0 ... 16	0,15	Brass	Brass	NBR	1.4301	0,37	1105085	0310240
	G1/2	12	0 ... 16	0,35	Brass	Brass	NBR	1.4301	0,37	1105086	0310241
	G3/4	20	0 ... 16	0,15	Brass	Brass	NBR	1.4301	1,17	1105091	0310340
	G3/4	20	0 ... 16	0,35	Brass	Brass	NBR	1.4301	1,17	1105092	0310341
	G1	25	0 ... 16	0,15	Brass	Brass	NBR	1.4301	1,03	1105091	0310440
	G1	25	0 ... 16	0,35	Brass	Brass	NBR	1.4301	1,03	1105092	0310441
	Rp1 1/4	32	0 ... 16	0,25	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	1,12	1105184	0311702
	Rp1 1/4	32	0 ... 16	0,50	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	1,12	1105181	0311701
	Rp1 1/2	40	0 ... 16	0,25	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	1,38	1105185	0311802
	Rp1 1/2	40	0 ... 16	0,50	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	1,38	1105182	0311801
	Rp2	50	0 ... 16	0,25	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	2,51	1105186	0311902
	Rp2	50	0 ... 16	0,50	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	2,51	1105183	0311901

Strainer for acid and alkaline gases and liquids

Symbol	Port size	Orifice (mm)	Operating pressure (bar)	Mesh size (mm)	Materials Body	Plug	Seals	Mesh	Weight (kg)	Spare filters	Model
	G1/2	12	0 ... 100	0,05	Brass, nickel plated	Brass, nickel plated	FKM/PTFE	1.4301	0,37	1102066	0313252
	G1/2	12	0 ... 100	0,15	Brass, nickel plated	Brass, nickel plated	FKM/PTFE	1.4301	0,37	1102067	0313250
	G1/2	12	0 ... 100	0,35	Brass, nickel plated	Brass, nickel plated	FKM/PTFE	1.4301	0,37	1102068	0313251
	G3/4	20	0 ... 100	0,05	Brass, nickel plated	Brass, nickel plated	FKM/PTFE	1.4301	1,17	1102069	0313352
	G3/4	20	0 ... 100	0,15	Brass, nickel plated	Brass, nickel plated	FKM/PTFE	1.4301	1,17	1102070	0313350
	G3/4	20	0 ... 100	0,35	Brass, nickel plated	Brass, nickel plated	FKM/PTFE	1.4301	1,17	1102071	0313351

Dimensions



Dimensions

B	C	E *	F			Model
G1/4	83	57	80	27	24	0310040
G1/4	83	57	80	27	24	0310041
G3/8	83	57	80	27	24	0310140
G3/8	83	57	80	27	24	0310141
G1/2	83	57	80	27	24	0310240
G1/2	83	57	80	27	24	0310241
G3/4	110	82	105	41	41	0310340
G3/4	110	82	105	41	41	0310341
G1	110	82	105	41	41	0310440
G1	110	82	105	41	41	0310441
Rp1 1/4	110	76	110	50	30	0311702
Rp1 1/4	110	76	110	50	30	0311701
Rp1 1/2	120	84	120	55	30	0311802
Rp1 1/2	120	84	120	55	30	0311801
Rp2	150	102	150	70	36	0311902
Rp2	150	102	150	70	36	0311901

* Sufficient clearance (pipe center to floor 2x dimension 'E') must be allowed for removal of the filter element.

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Resistance list

Fluid	Chemical formula	Concentration %	Temperature °C	+ = qualified
Aeroshell Fluid 4	-	100	80	+
Ethanol	C ₂ H ₅ OH	96	60	+
Äthylglykol	C ₂ H ₅ -O-CH ₂ -CH ₂ OH	100	60	+
Ethylene glykol	(CH ₂ OH) ₂	100	60	+
Amylalkohol	C ₅ H ₁₁ OH	100	60	+
Barium hydroxide	Ba(OH) ₂	all	80	+
Benzine	-	-	20	+
Benzol	C ₆ H ₆	100	80	+
Benzyl alcohol	C ₆ H ₅ CH ₂ OH	100	80	+
Borax	Na ₂ B ₄ O ₇ ·10H ₂ O	all	80	+
Brake fluid such as ATE-SL	-	100	80	+
Butane	C ₄ H ₁₀	100	20	+
Butadiene	H ₂ C=CH-CH=CH ₂	100	20	+
n-butanol	C ₄ H ₉ OH	100	60	+
Chloroform	CHCl ₃	100	60	+
Diesel	-	-	150	+
Pressure air	-	-	180	+
Formaldehyd	HCHO	37	20	+
Freon				
R 11	CCl ₂ F	100	60	+
R 12	CCl ₂ F ₂	100	60	+
R 13	CClF ₃	100	20	+
R 14	CF ₄	100	20	+
R 113	CCl ₂ F-CClF ₂	100	20	+
R 114	CClF ₂ -CClF ₂	100	80	+
R 115	CClF ₂ -CF ₃	100	60	+
Fyrquel	-	100	-	+
Glycerin	C ₃ H ₇ (OH) ₃	100	120	+
Gear fluid ATF	-	100	130	+
Helium	He	100	200	+
Fued oil	-	100	150	+
Hexane	C ₆ H ₁₄	100	20	+
Methanol	CH ₃ OH	100	60	+
Petroleum	-	-	150	+
Sodium carbonate	Na ₂ CO ₃	20	80	+
Caustic soda	NaOH	10	20	+
Sodium sulphate	Na ₂ SO ₄	20	60	+
Perchloräthylene	CCl ₂ =CCl ₂	100	80	+
Phenol	C ₆ H ₅ OH	90	80	+
Propane	C ₃ H ₈	100	20	+
n-Propanol	C ₃ H ₇ OH	100	80	+
Dioxygen ¹⁾	O ₂	100	20	+
Toluol	C ₆ H ₅ CH ₃	100	20	+
Trichloräthylen	CHCl = CCl ₂	100	80	+
Water	H ₂ O	-	100	+
Water vapour	H ₂ O	-	120	+
Hydrogen peroxide	H ₂ O ₂	30	20	+
Xylol	C ₈ H ₁₀ (CH ₃) ₂	100	60	+

¹⁾ Oil and grease free

Equipment life may be influenced by operation in different pressure, temperature and concentration ranges and by additives, contamination and deposits. If in doubt, tests should be carried out under operating conditions. Enquiries or orders for equipment should include precise details of the media and operating conditions whenever possible. No warranty is implied by the information provided in the resistance table.