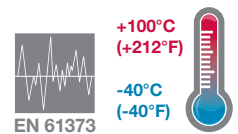


031000 Strainer



- > Port size: 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 bar (0 ... 232 psi) and 0 ... 100 bar (0 ... 1450 psi)

Operating viscosity:

160 mm²/s max.

Flow direction:

Indicated by arrow

Mounting position:

Filter element tilted downwards

Ambient/Media 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

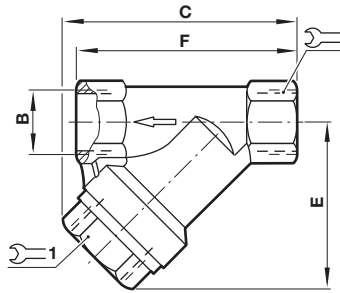
Symbol	Port size	Orifice (mm)	Operating pressure		Mesh size (mm)	Materials				Weight (kg)	Spare filters	Model
			(bar)	(psi)		Body	Plug	Seals	Mesh			
	G1/4	6	0 ... 16	0 ... 232	0,15	Brass	Brass	NBR	1.4301	0,43	1105085	0310040
	G1/4	6	0 ... 16	0 ... 232	0,35	Brass	Brass	NBR	1.4301	0,43	1105086	0310041
	G3/8	10	0 ... 16	0 ... 232	0,15	Brass	Brass	NBR	1.4301	0,41	1105085	0310140
	G3/8	10	0 ... 16	0 ... 232	0,35	Brass	Brass	NBR	1.4301	0,41	1105086	0310141
	G1/2	12	0 ... 16	0 ... 232	0,15	Brass	Brass	NBR	1.4301	0,37	1105085	0310240
	G1/2	12	0 ... 16	0 ... 232	0,35	Brass	Brass	NBR	1.4301	0,37	1105086	0310241
	G3/4	20	0 ... 16	0 ... 232	0,15	Brass	Brass	NBR	1.4301	1,17	1105091	0310340
	G3/4	20	0 ... 16	0 ... 232	0,35	Brass	Brass	NBR	1.4301	1,17	1105092	0310341
	G1	25	0 ... 16	0 ... 232	0,15	Brass	Brass	NBR	1.4301	1,03	1105091	0310440
	G1	25	0 ... 16	0 ... 232	0,35	Brass	Brass	NBR	1.4301	1,03	1105092	0310441
	Rp1 1/4	32	0 ... 16	0 ... 232	0,25	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	1,12	0111203	0311702
	Rp1 1/4	32	0 ... 16	0 ... 232	0,50	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	1,12	0111202	0311701
	Rp1 1/2	40	0 ... 16	0 ... 232	0,25	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	1,38	0111205	0311802
	Rp1 1/2	40	0 ... 16	0 ... 232	0,50	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	1,38	0111204	0311801
	Rp2	50	0 ... 16	0 ... 232	0,25	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	2,51	1105186	0311902
	Rp2	50	0 ... 16	0 ... 232	0,50	Brass, nickel plated	Brass, nickel plated	NBR	1.4401	2,51	0111206	0311901

Strainer for acid and alkaline gases and liquids

Symbol	Port size	Orifice (mm)	Operating pressure		Mesh size (mm)	Materials				Weight (kg)	Spare filters	Model
			(bar)	(psi)		Body	Plug	Seals	Mesh			
	G1/2	12	0 ... 100	0 ... 1450	0,05	Brass, nickel plated	Brass, nickel plated	FPM	1.4301	0,37	1102066	0313252
	G1/2	12	0 ... 100	0 ... 1450	0,15	Brass, nickel plated	Brass, nickel plated	FPM	1.4301	0,37	1102067	0313250
	G1/2	12	0 ... 100	0 ... 1450	0,05	Brass, nickel plated	Brass, nickel plated	EPDM	1.4301	0,37	1105088	0336388
	G3/4	20	0 ... 100	0 ... 1450	0,05	Brass, nickel plated	Brass, nickel plated	FPM	1.4301	1,17	1102069	0313352
	G3/4	20	0 ... 100	0 ... 1450	0,15	Brass, nickel plated	Brass, nickel plated	FPM	1.4301	1,17	1102070	0313350
	G3/4	20	0 ... 100	0 ... 1450	0,35	Brass, nickel plated	Brass, nickel plated	FPM	1.4301	1,17	1102071	0313351

Dimensions

Dimensions in mm
Projection/First angle



Strainer for neutral and semi-neutral gases and liquids

B	C	E *	F	⌀	⌀ ₁	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.

Strainer for acid and alkaline gases and liquids

B	C	E *	F	⌀	⌀ ₁	Model
G1/2	83	57	80	27	24	0313252
G1/2	83	57	80	27	24	0313250
G1/2	83	57	80	27	24	0336388
G3/4	110	82	105	41	41	0313352
G3/4	110	82	105	41	41	0313350
G3/4	110	82	105	41	41	0313351

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

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 ₃ 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	+
Perchloräthylen	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 ₆ H ₄ (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.

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.