

Элементы фильтрующие CARL ROTH DURAN, GV 050/0, DURAN 47, DURAN NS, GV 050/2, MV 050, Swinnex 13, Swinnex 25, Swinnex 47, Nitrocellulose, In-Line

Технические характеристики

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Filtration units and holders



Filtration attachment DURAN®

DWK Life Sciences. Material: DURAN® glass, Funnel base made from PP, Viton® seals. Autoclavable: Yes.

- Replaceable filter plate, four different porosities available
- Simple and safe removal of the filtration substance
- Both sides of the filter plates can be cleaned
- **Note:** Lay filter plate between the Viton® seals

Delivery without filter plate, please order separately.

Funnel volume (ml)	Suitable for	Ø Outer outlet (mm)	Thread	Art. No.	Pack Qty.	
30	Filter-plate-Ø 25 mm	10	28 mm	1631.1	1 unit(s)	
250	Filter-plate-Ø 50 mm	12	54 mm	1632.1	1 unit(s)	
1,000	Filter-plate-Ø 90 mm	18	95 mm	CT08.1	1 unit(s)	

Accessories slit-sieve plate

DWK Life Sciences.

Suitable for filtration device Art. No. 1632.1, XT09.1 and HKL5.1.
Suitable as a holder for membrane and paper filters with Ø 47 mm.

Ø (mm)	Art. No.	Pack Qty.	
48	N886.1	1 unit(s)	

Accessories filter plate for filtration attachment DURAN®

DWK Life Sciences.

With glass edge.

Ø filter plate 25 mm

Suitable for for 30 ml-devices.

Porosity	Ø (mm)	Art. No.	Pack Qty.	
1 (100 – 160 µm)	25	1633.1	1 unit(s)	
2 (40 – 100 µm)	25	1634.1	1 unit(s)	
3 (16 – 40 µm)	25	1635.1	1 unit(s)	
4 (10 – 16 µm)	25	1636.1	1 unit(s)	

Ø filter plate 50 mm

Suitable for 250 ml-devices.

Porosity	Ø (mm)	Art. No.	Pack Qty.	
1 (100 – 160 µm)	50	1637.1	1 unit(s)	
2 (40 – 100 µm)	50	1638.1	1 unit(s)	
3 (16 – 40 µm)	50	1639.1	1 unit(s)	
4 (10 – 16 µm)	50	1640.1	1 unit(s)	

Ø filter plate 90 mm

Suitable for for 30 ml-devices.

Porosity	Ø (mm)	Art. No.	Pack Qty.	
1 (100 – 160 µm)	90	CT09.1	1 unit(s)	
2 (40 – 100 µm)	90	CT10.1	1 unit(s)	
3 (16 – 40 µm)	90	CT11.1	1 unit(s)	
4 (10 – 16 µm)	90	CT12.1	1 unit(s)	



Vacuum filtration unit 25 mm

DWK Life Sciences. Material: Borosilicate glass acc. to ASTM E 438 type I, Class A. Autoclavable: Yes.

For filtration of small volumes, such as in microbiology or particle analyses. For filter Ø: 25 mm.

Delivery incl. 15 ml funnel attachment, funnel bottom section with glass frit as filter support (porosity: 40-60 µm), aluminium bracket and silicone stopper. **Delivery without** 150 ml suction bottle (Art. No. EYA6.1), please order separately.

Type	Suitable for	Art. No.	Pack Qty.	
Filtration unit 25 mm	Filter Ø: 25 mm	EYA0.1	1 unit(s)	



Filtration units and holders



A 121 °C

Vacuum filtration unit 47 mm

DWK Life Sciences. Material: Borosilicate glass acc. to ASTM E 438 type I, Class A. Autoclavable: Yes.

For filtration of volumes up to approx. 1 l, in microbiology or particle analyses. For filter Ø of 47 mm.

Delivery incl. 300 ml funnel attachment, funnel bottom section with glass frit as filter support (porosity: 40-60 µm), aluminium bracket and silicone stopper. **Delivery without** 1000 ml suction bottle (Art. No. EYC5.1), please order separately.

Type	Suitable for	Art. No.	Pack Qty.
47 mm filtration unit	Filter Ø: 47 mm	EYA7.1	1 unit(s)



A 121 °C

Vacuum filtration unit GV 050/0

Cytiva. Material: DURAN® glass. Autoclavable: Yes.

For filter Ø 47–50 mm and upstream filter Ø 37 mm. Corrosion resistant, biologically inert and autoclavable at 121 °C and 1.1 bar overpressure (20 min).

Wide range of applications: Analytical biochemical and radiochemical work, particle tests in microelectronics.

Delivery incl. 250 ml insert, glass frit for filter support, glass nozzles, spring clips, rubber caps and PTFE ring.

Type	Funnel volume (ml)	Suitable for	Ø Outer outlet (mm)	Art. No.	Pack Qty.
GV 050/0	250	Filter Ø: 47/50 mm	14.75	H434.1	1 unit(s)



A 121 °C



Vacuum filtration unit DURAN® 47 mm with ground joint

DWK Life Sciences. Material: Borosilicate glass, PTFE. Autoclavable: Yes.

For coarse and membrane filtration, retention analysis, particle tests and microbiology, as well as for filtration of alkali and aggressive media. For use with filter papers, membrane filters or glass filters with Ø of 47 mm or 50 mm. Temperature stable up to +180 °C.

- Parts in contact with media are made of glass and PTFE, therefore are suitable for universal use, biologically inert and corrosion resistant
- Scaled reservoir for easier metering and evaluation
- Plates are optionally available in porosity grades of 1-4, which means they are also suitable for analytical filtration
- Fast and easy to clean
- Connection hose suitable for hoses with an inside Ø of 5–8 mm

Delivery incl. slit-sieve plate as a filter holder, glass filter disc, porosity 2 and vacuum bottle.

Type	Funnel volume (ml)	Bottle volume (ml)	Suitable for	Art. No.	Pack Qty.
Filtration unit 250 ml / 1000 ml	250	1,000	Filter Ø: 47/50 mm	XT09.1	1 unit(s)
Filtration unit 500 ml / 2000 ml	500	2,000	Filter Ø: 47/50 mm	HKL5.1	1 unit(s)

Adapter DURAN® NS core 45/40 to GL 45

DWK Life Sciences. Material: PTFE.

Allows you to use filtration units with NS 45/40 ground sleeve on vacuum-sealed GL 45 laboratory bottles.

Version	Art. No.	Pack Qty.
NS core 45/40 to GL 45	CCX4.1	1 unit(s)

Filtration units and holders



A 121 °C

Vacuum filtration unit 47 mm with slots

DWK Life Sciences. Material: Borosilicate glass acc. to ASTM E 438 type I, Class A. Autoclavable: Yes.

For filtration of solvents, acids, bases and other aggressive liquids. For filter Ø: 47 mm.

Delivery incl. 500 ml funnel attachment, funnel bottom section with 40/35 ground joint sleeve, vacuum connection (Ø 6 mm) and glass frit (porosity: 40-60 µm) as filtering support, aluminium clamp and 2000 ml vacuum bottle.

Type	Suitable for	Art. No.	Pack Qty.	
Filtration unit 47 mm	Filter Ø: 47 mm	EYC7.1	1 unit(s)	



A 121 °C

Vacuum filtration unit 90 mm

DWK Life Sciences. Material: Borosilicate glass acc. to ASTM E 438 type I, Class A. Autoclavable: Yes.

For filtration of large volumes, particle-loaded or viscous liquids. For filter Ø 90 mm.

Delivery incl. 1000 ml funnel attachment with screw top, funnel bottom section with glass frit as filter support (porosity: 40-60 µm) and silicone stopper. **Delivery without** 2000 ml suction bottle (Art. No. EYC6.1), please order separately.

Type	Suitable for	Art. No.	Pack Qty.	
Filtration unit 90 mm	Filter Ø: 90 mm	EYE1.1	1 unit(s)	



A 121 °C

Vacuum filtration unit GV 050/2

Cytiva. Material: DURAN® glass. Autoclavable: Yes.

For filter Ø 47-50 mm. With glass frit as a filter support. Ideal for microscopic retention analysis, particle tests, filtration of alkali and aggressive solutions as well as buffer solutions for the HPLC. Biologically inert and corrosion-resistant.

Connection hose suitable for hoses with an inside Ø of 5-8 mm. Outside Ø 450 mm (without clamp), height 135 mm. Weight: 1122 g.

Delivery incl. 250 ml funnel attachment, funnel bottom with ground joint sleeve NS 45, glass frit, PTFE centring ring, spring clip and 1000 ml suction bottle.

Type	Funnel volume (ml)	Bottle volume (ml)	Suitable for	Art. No.	Pack Qty.	
GV 050/2	250	1,000	Filter Ø: 47/50 mm	5986.1	1 unit(s)	



A 121 °C

Vacuum filtration unit 90 mm with slots

DWK Life Sciences. Material: Borosilicate glass acc. to ASTM E 438 type I, Class A. Autoclavable: Yes.

For filtration of large volumes, HPLC solvents and other aggressive liquids. For filter Ø: 90 mm.

Delivery incl. 1000 ml funnel attachment with screw clip, funnel bottom section with 40/35 ground joint sleeve, vacuum connection (Ø 6 mm) and glass frit (porosity: 40-60 µm) as filtering support. **Delivery without** 2000 ml suction bottle (Art. No. EYC6.1), please order separately.

Type	Suitable for	Art. No.	Pack Qty.	
Filtration unit 90 mm	Filter Ø: 90 mm	EXP5.1	1 unit(s)	



Filtration units and holders



MV 050/0

MV 050A/0

A 121 °C

Vacuum filtration unit MV 050

Cytiva. Material: Stainless steel. Autoclavable: Yes.

For **membrane filters of 47/50 mm** and upstream filters of 40 mm. Resistant to many aqueous and organic solutions. With perforated sieve for filter support. Steel frit insert (Art. No. CC12.1) available, please order separately. External Ø 110 mm, height 320 mm.

Version	Funnel volume (ml)	Suitable for	Art. No.	Pack Qty.	
MV 050/0, with knurled screw clamp	500	Ø 47/50 mm	CC09.1	1 unit(s)	
MV 050A/0, with snap buckle	500	Ø 47/50 mm	CC10.1	1 unit(s)	

Suction attachment

Cytiva. Material: PP, Natural rubber seal.

Hole Ø: 9 mm. With hose connector for hoses with inside Ø of 7–9 mm. For use with vacuum-sealed GL 45 screw top bottles (Art. No. H995.1), please order separately.

Autoclavable: Yes.

Thread	Art. No.	Pack Qty.	
GL 45	CC56.1	1 unit(s)	



A 121 °C

Multiple vacuum filtration units AS series

Cytiva. Material: Stainless steel. Autoclavable: Yes.

For **filters of Ø 47/50 mm** and pre-filters of Ø 40 mm. Stainless steel holder for 3 or 6 filtration inserts complete with 500 ml stainless steel inserts. Each insert can be operated with a separate tap. With quick-close system. Temperature-resistant up to 180 °C. Suction manifold with hose connectors for tubes with inside Ø of 8–10 mm.

Applications: Microbiological quality controls, retention analyses and serial filtration.

Delivery incl. perforated sieves for filter support.

Version	Suitable for	Art. No.	Pack Qty.	
Six-fold dilter unit AS 610/3	Filter Ø: 47/50 mm	CC33.1	1 unit(s)	



A 121 °C

Filter holder for syringes

Cytiva. Autoclavable: Yes.

Made from polysulfone or stainless steel. With silicone O-ring. Suitable for multiple uses with membrane, paper or round glass fibre filters. Maximum pressure loading: 7 bar. Connections: Luer or hose connectors (external Ø 11 mm), can be unscrewed.

Applications:

For clear and sterile filtration of biological media, reagents and buffer solutions, as well as aqueous solutions and gases.

Technical specifications:

Art. No.	CC19.1	CC23.1	CC20.1	CC21.1
Suitable for	Filter Ø: 25 mm		Filter Ø: 47/50 mm	
Ø Housing	30 mm		65 mm	
Housing material	PS	Stainless steel	PS	
Height	34 mm	26 mm	80 mm	95 mm
Max. application temperature	180 °C	200 °C	180 °C	
Max. operating pressure	7 bar			
Inlet connection	Luer-Lock connector		Luer-Lock	Hose olive
Outlet connection	Luer connector		Hose olive	

Polysulfone

Version	Art. No.	Pack Qty.	
FP 025/1	CC19.1	10 unit(s)	
FP 050/0	CC20.1	1 unit(s)	
FP 050/1	CC21.1	1 unit(s)	

Stainless steel

Version	Art. No.	Pack Qty.	
FM 025/0	CC23.1	1 unit(s)	

Filtration units and holders



Filter holder In-Line

MERCK MILLIPORE. Material: PP strengthened, nylon hand screws.
For filter Ø 47 mm. For pressure filtration of liquids or gases.
With stepped hose connectors.

Technical specifications:

Art. No.	XE95.1
Suitable for	Filter Ø: 47 mm
Ø ext.	76 mm
Height	120 mm
Filtration area	13.8 cm ²
Max. application temperature	70 °C
Max. operating pressure	5.5 bar
Inlet connection	1/4" NPTF; connector for tube inside-Ø 6 mm to 9.5 mm
Outlet connection	1/4" NPTF; connector for tube inside-Ø 6 mm to 9.5 mm

Version	Art. No.	Pack Qty.	
In-Line filter holder	XE95.1	1 unit(s)	



A 121 °C

Filter holder Swinnex®

MERCK MILLIPORE. Material: PP. Autoclavable: Yes.
For filtration, cleaning or sterile filtration of small amounts of liquid by means of injection. 47 mm filter holder can also be used with a hose connector.

Technical specifications:

Art. No.	XE86.1	XE87.1	XE88.1
Suitable for	Filter Ø: 13 mm	Filter Ø: 25 mm	Filter Ø: 47 mm
Ø ext.	17 mm	32 mm	57 mm
Height	35 mm	37 mm	54 mm
Filtration area	0.7 cm ²	3.4 cm ²	13.8 cm ²
Max. operating pressure	3.5 bar		5 bar
Inlet connection	Luer-Lock connector		1/4" NPTM/female Luer Lock connector
Outlet connection	Luer connector		1/4" hose connection/female Luer Lock connector

Version	Art. No.	Pack Qty.	
Swinnex® 13	XE86.1	10 unit(s)	
Swinnex® 25	XE87.1	12 unit(s)	
Swinnex® 47	XE88.1	8 unit(s)	



A 121 °C



Filter holder for syringes

Bohlender. Material: PTFE. Autoclavable: Yes.

For filter membranes with Ø of 13 or 25 mm. No discharge of trace elements to the medium being filtered. Simply screw off to easily change the filter membrane. Anti-adhesive surface makes cleaning easy.

Technical specifications:

Art. No.	Y933.1	Y934.1
Suitable for	Filter Ø: 13 mm	Filter Ø: 25 mm
Ø ext.	21 mm	34 mm
Filtration area	0.78 cm ²	3.80 cm ²
Max. operating pressure	2 bar	
Inlet connection	Female Luer Lock	
Outlet connection	Male Luer Lock	

Version	Art. No.	Pack Qty.	
13 mm	Y933.1	1 unit(s)	
25 mm	Y934.1	1 unit(s)	



Filtration units and holders



A 121 °C

Flow-through filter unit

Bohlender. Material: PTFE. Autoclavable: Yes.

Suitable for vacuum operation and overpressure operation up to approx. 5 bar. Does not discharge trace elements to the medium being filtered. Filter membrane is easy to change, by simply unscrewing the sample filter. Cutting rings can be used to connect plastic hoses. Includes suitable adapter for each of the two hose sizes. Anti-adhesive surface makes cleaning easy.

Technical specifications:

Art. No.	Y935.1	Y936.1	Y937.1
Suitable for	Filter Ø: 25 mm	Filter Ø: 47 mm	Filter Ø: 90 mm
Filtration area	3.1 cm ²	13.8 cm ²	52.0 cm ²
Max. operating pressure	5 bar		
Inlet connection	GL 14, with adapters for hose with external Ø 3.2 and 6 mm	GL 18, with adapters for hose with external Ø 6 and 8 mm	GL 25, with adapters for hose with external Ø 8 and 10 mm
Outlet connection	GL 14, with adapters for hose with external Ø 3.2 and 6 mm	GL 18, with adapters for hose with external Ø 6 and 8 mm	GL 25, with adapters for hose with external Ø 8 and 10 mm

Delivery without filter membrane, please order separately.

Version	Art. No.	Pack Qty.
25 mm	Y935.1	1 unit(s)
47 mm	Y936.1	1 unit(s)
90 mm	Y937.1	1 unit(s)



A 121 °C



Membrane filters PTFE

Bohlender. Material: Hydrophobic PTFE. Autoclavable: Yes.

Made of micro-porous PTFE. Membrane strength 0.2 mm. Temperature-stable from -200 to 250 °C.

For use with filter holders (Y933.1-Y934.1) and flow-through filters (Y935.1-Y936.1).

Pore size (µm)	Ø (mm)	Art. No.	Pack Qty.
1	47	Y951.1	10 unit(s)
0,05	13	Y938.1	10 unit(s)
0,05	25	Y943.1	10 unit(s)
0,05	47	Y948.1	10 unit(s)
5	47	Y952.1	10 unit(s)
0,20	47	Y949.1	10 unit(s)
0,45	47	Y950.1	10 unit(s)



A 121 °C

Membrane filters Nitrocellulose

GVS. Material: Cellulose nitrate. Autoclavable: Yes.

Hydrophilic. High flow rates. Biologically inert, non-cytotoxic. Maximum usage temperature 180 °C. Protein binding approx. 160 µg/cm².

Wide range of applications: gravimetric analysis, particulate analysis, microbiological analysis, sterile filtration of aqueous solutions.



Danger H228

0.22 µm, Ø 47 mm

Pore size (µm)	Ø (mm)	Sterility	Grid	Art. No.	Pack Qty.
0,22	47	Non-sterile	No	A009.1	100 unit(s)

0.45 µm, Ø 47 mm

Pore size (µm)	Ø (mm)	Sterility	Grid	Art. No.	Pack Qty.
0,45	47	Non-sterile	No	A012.1	100 unit(s)

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