



Backwash filter pureliQ:RX

Intended use

The backwash filter pureliQ:RX are designed for the filtration of drinking water.

The filters can be used for positive pressure and negative pressure applications. However, a backwash only functions if the filter is used in the pressure range.

The backwash filters pureliQ:RX are designed according to the stipulations of DIN EN 13443-1 and DIN 19628 and are intended for installing into the drinking water installation according to DIN EN 806-2 (installation immediately downstream from the water meter).

They protect the water pipes and connected water-carrying system parts from disturbances and corrosion damage due to

undissolved impurities (particles) such as rust particles, sand, etc.

The filters can only be used in combination with the cliQlock module system.

The filters are not suitable for circulation water that is treated with chemicals.

The filters are neither suitable for oils, greases, solvents, soaps and other lubricating media, nor for the separation of water-soluble substances.



Mode of operation

The unfiltered drinking water flows into the filter through the inlet side and from the outside in through the filter element and to the pure water outlet. Thus, foreign particles of > 100 µm in size are retained.

Depending on their size and weight, the foreign particles either stick to the filter element or they fall straight down into the filter cylinder.

By turning the backwash mechanism to the stop position, the drain is opened. The water flows through the primary screen

to the filter element and then flows through the filter element in the reverse direction to normal filtration. Thanks to Grünbeck's innovative Vortex technology, particles sticking to the filter element are detached and washed out to the drain.

The backwash process should be carried out for approx. 5 - 10 seconds. If particles remain on the filter element, then the backwash has to be repeated.

Structure

- closed, easy-to-clean device surface
- Cover to protect the filter cylinder and filter element from UV light
- Filter head made of pressure-resistant plastic and interval indicator for the backwash interval
- Filter element made of stainless steel mesh
- Flexible drain connection with integrated free outlet
- Hose adapter for a clean backwash even without a drain connection on site
- all parts in contact with water comply with the German Drinking Water Ordinance. Test regulations: KTW, DVGW W 270, DIN 50930-6

Scope of supply

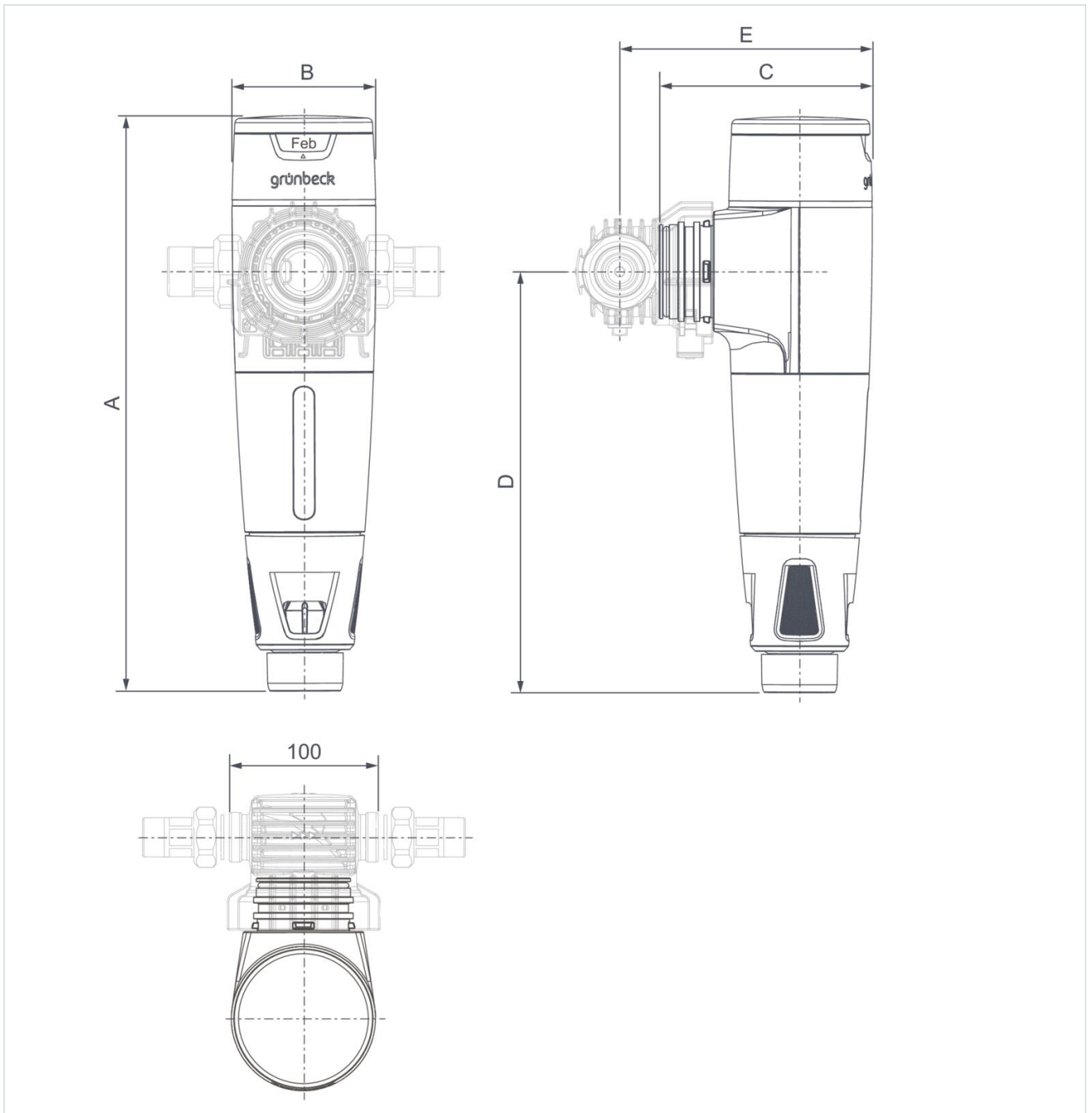
- Backwash filter pureliQ
- 100 µm filter element
- Mounting and connection material

Not included in scope of supply

- cliQlock basic module



Technical specifications



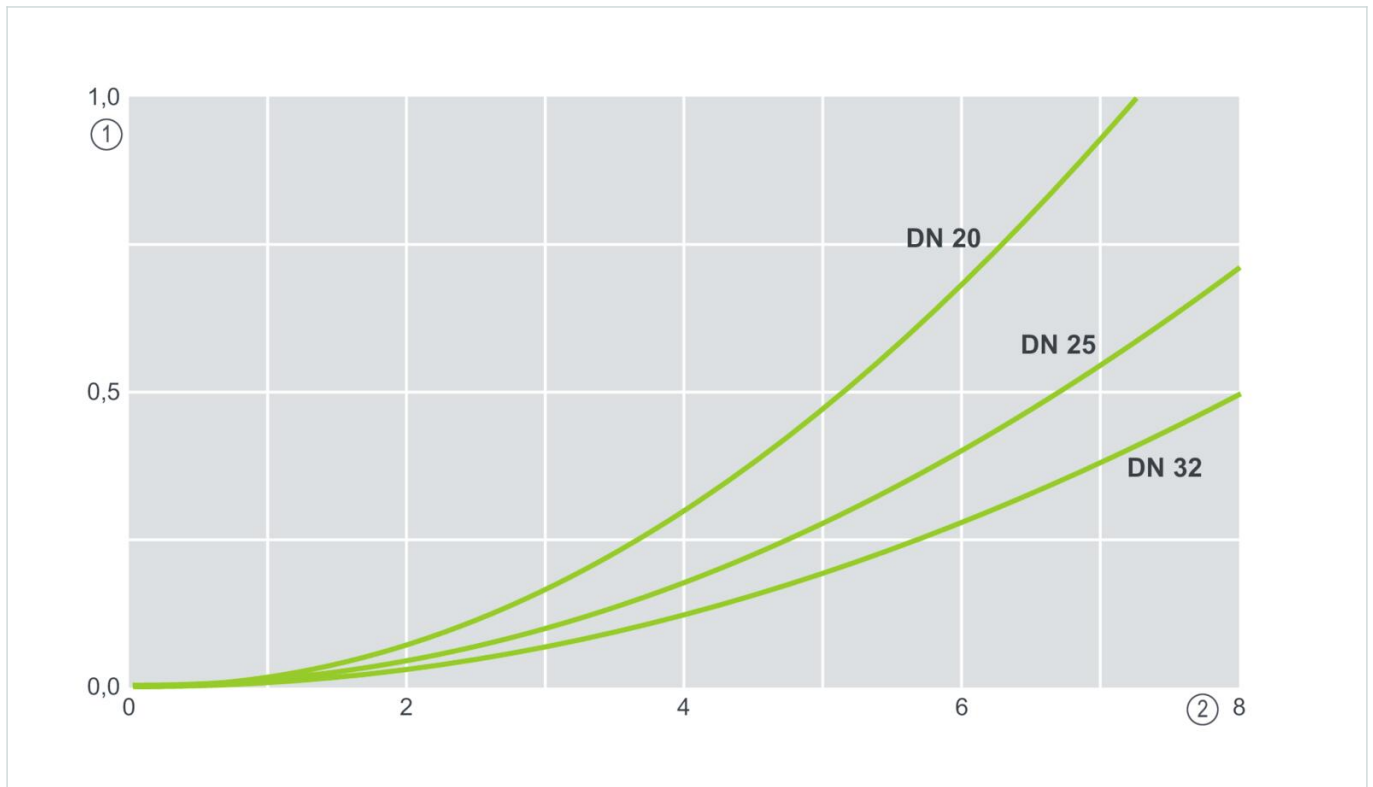
Dimensions and weights			RX (DN 20)	RX (DN 25)	RX (DN 32)
A	Height	mm	385	385	385
B	Width	mm	96	96	96
C	Depth	mm	145	145	145
D	Height connection	mm	285	285	285
E	Depth connection	mm	170	170	170
Product weight empty		kg	1,0	1,0	1,0
Shipping weight		kg	1,2	1,2	1,2

Connection data with cliQlock basic module		Backwash filter pureliQ:RX			
Nominal diameter			DN 20	DN 25	DN 32
Connection diameter			¾"	1"	1 ¼"

Performance data			RX (DN 20)	RX (DN 25)	RX (DN 32)
Nominal flow at Δp 0.2 bar	m ³ /h		3,2	4,3	5,0
Nominal flow at Δp 0.5 bar	m ³ /h		5,1	6,8	8,0
KV value	m ³ /h		7,2	9,5	11,3
Pore size	µm		100	100	100
Lower and upper filtration fineness	µm		80 - 120	80 - 120	80 - 120
Nominal pressure			PN 16	PN 16	PN 16
Operating pressure	bar		2,0 - 16,0	2,0 - 16,0	2,0 - 16,0

General data			RX (DN 20)	RX (DN 25)	RX (DN 32)
Media temperature	°C		5 - 30	5 - 30	5 - 30
Ambient temperature	°C		5 - 40	5 - 40	5 - 40
Backwash water volume at an inlet pressure of 4 bar	l		≤ 4	≤ 4	≤ 4
Order no.			101000030000	101000030000	101000030000

Pressure loss curve



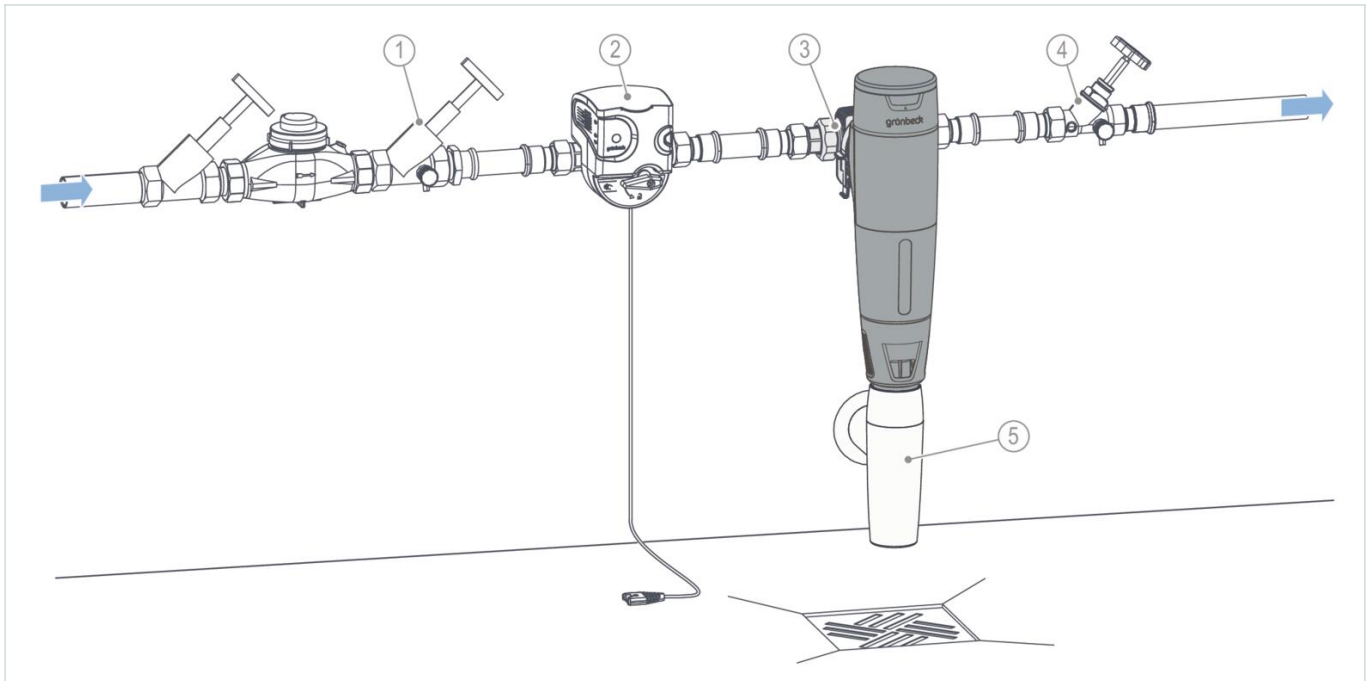
Designation

1 Differential pressure in bar

Designation

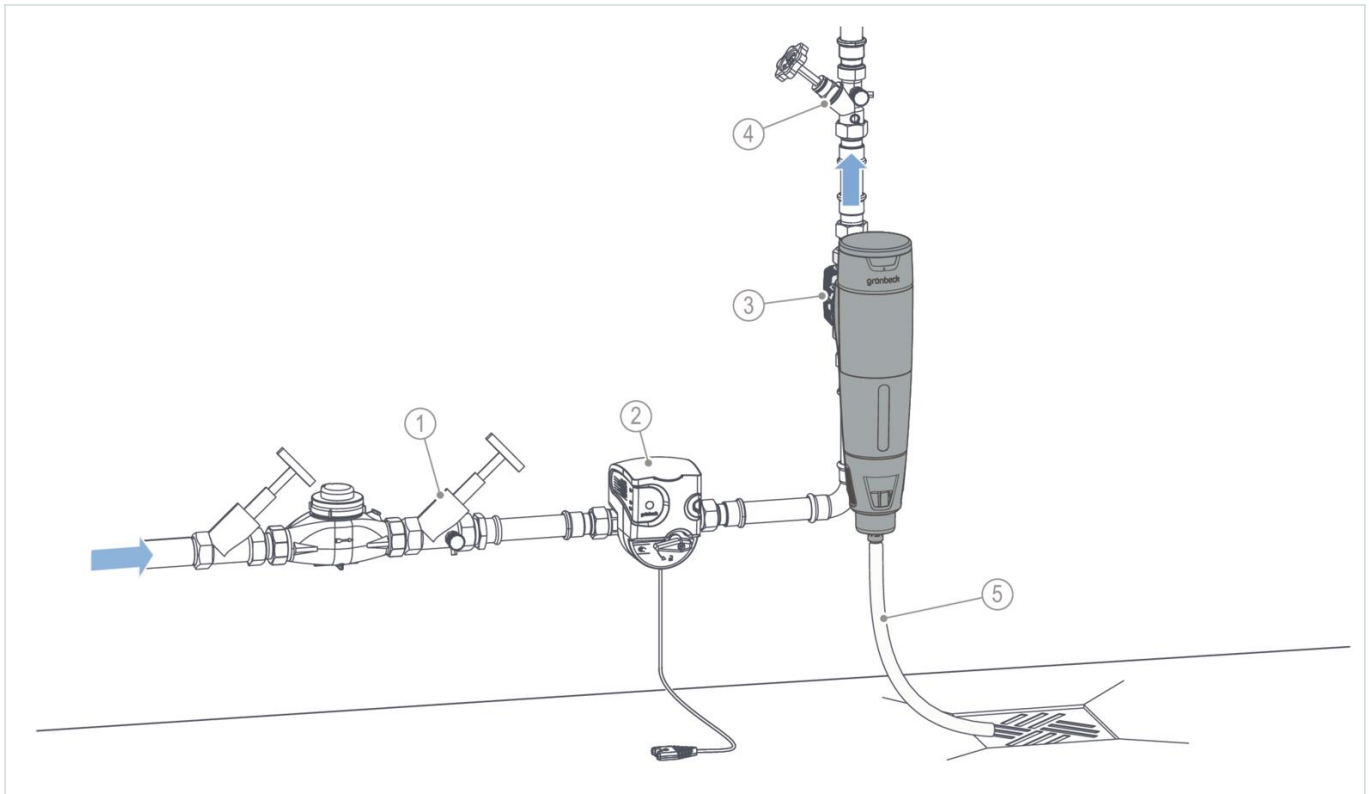
2 Flow rate in m³/h

Installation example



Designation		Designation	
1	Inlet shut-off valve	4	Outlet shut-off valve
2	Safety device protectliQ	5	Drain connection DN 50 incl. siphon acc. to DIN EN 1717
3	cliQlock basic module		

Installation example



Designation	Designation
1 Inlet shut-off valve	4 Outlet shut-off valve
2 Safety device protectliQ	5 On-site hose for hose adapter (optional)
3 cliQlock basic module	

Requirements for the installation site

Comply with local installation directives, general guidelines and technical specifications.

- Protection from frost, severe heat exposure and direct sunlight
- Protection from chemicals, dyes, solvents and their vapours
- Ambient temperature and radiation temperature in the immediate vicinity
 - $\leq 25\text{ °C}$ for applications in the drinking water sector
 - $\leq 40\text{ °C}$ for purely technical applications
- Protection from heat sources (e. .g. heating systems, boilers and hot water pipes)

lers and hot water pipes)

- Access for maintenance work (take required space into consideration)
- Sufficiently illuminated as well as aerated and ventilated
- Pipe with sufficient load-bearing capacity to support the operating weight of the product





Water installation

- Floor drain or corresponding safety device with water stop function (e. g. Safety device protectliQ)
- Shut-off valves upstream and downstream of the product





Accessories

Availability may vary depending on the country.

	RX (DN 20)	RX (DN 25)	RX (DN 32)
 <p>cliQlock basic module DN 20 Order no.: 101000070000 For installing the pureliQ X series filters or the softliQ:SE water softeners in the drinking water installation.</p>	✓	-	-
 <p>cliQlock basic module DN 25 Order no.: 101000080000 For installing the pureliQ X series filters or the softliQ:SE water softeners in the drinking water installation.</p>	-	✓	-
 <p>cliQlock basic module DN 32 Order no.: 101000090000 For installing the pureliQ X series filters or the softliQ:SE water softeners in the drinking water installation.</p>	-	-	✓
 <p>Drain connection DN 50 acc. to DIN EN 1717 Order no.: 188875 Drain connection DN 50 with siphon according to DIN EN 1717 - for small softening systems, backwash filters and system separators.</p>	✓	✓	✓





Recommended products

Availability may vary depending on the country.

	RX (DN 20)	RX (DN 25)	RX (DN 32)
 <p>Dosing system exaliQ:KC6 Order no.: 117400 For volume-based dosing of exaliQ mineral solutions into the drinking and industrial water pipes.</p>	✓	✓	✓
 <p>Dosing system exaliQ:SC6 Order no.: 117405 For volume-based dosing of exaliQ mineral solutions into the drinking and industrial water pipes.</p>	✓	✓	✓

Recommended products

Availability may vary depending on the country.

		RX (DN 20)	RX (DN 25)	RX (DN 32)
	<p>Water softener softliQ:SE21 Order no.: 189000030000 Single water softener for the softening and partial softening of drinking water.</p>	✓	✓	✓
	<p>Safety device protectliQ:A20 Order no.: 126400 For protection against water damage in detached and semi-detached houses</p>	✓	-	-
	<p>Safety device protectliQ:A25 Order no.: 126405 For protection against water damage in detached and semi-detached houses</p>	-	✓	-
	<p>Safety device protectliQ:A32 Order no.: 126410 For protection against water damage in detached and semi-detached houses</p>	-	-	✓