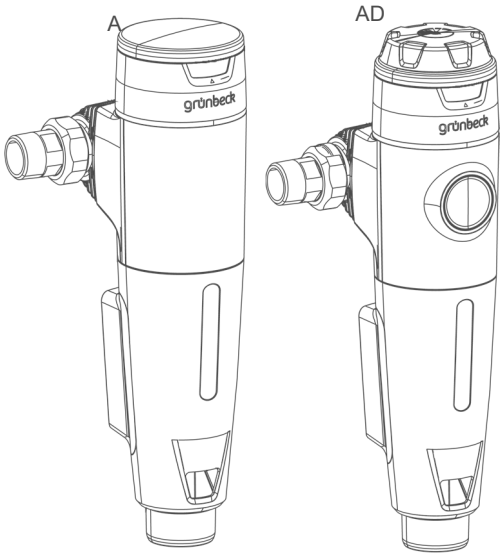


Automatic filter pureliQ:A
Automatic filter pureliQ:AD

Intended use

The automatic filters pureliQ:A and pureliQ:AD are designed for the filtration of drinking water.

The automatic filter pureliQ:AD with pressure reducer in addition is suitable for the adjustment of the after-pressure on the withdrawal side.

The filters can be used for positive and negative pressure applications. The backwash and the adjustment of the after-pressure on the withdrawal side, however, only works when applied in the positive pressure range.

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

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

The automatic filters pureliQ:A and pureliQ:AD are designed according to the stipulations of DIN EN 13443-1, DIN 19628 and DIN EN 1567 (pureliQ:AD only) and are intended for installation into drinking water pipes according to DIN EN 806-2 (installation directly downstream of 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.

Function

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

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

By means of the pressure reducer of the automatic filter pureliQ:AD, the after-pressure on the withdrawal side can also be adjusted.

Subject to the setting, the backwash is released automatically by the control unit. Backwash intervals of 7, 30, 60 and 90 days can be set. Grünbeck recommends a backwash interval of 60 days (factory-setting). A manual backwash can be initiated at any time. Releasing a backwash opens the drain. The water flows through the primary screen to the filter element and then flows through the filter element in reverse direction of standard filtration. Particles sticking to the filter element are thus detached and washed out to the drain.

The backwash process takes about 50 seconds. In case some particles still remain on the filter element, the backwash has to be released again manually.

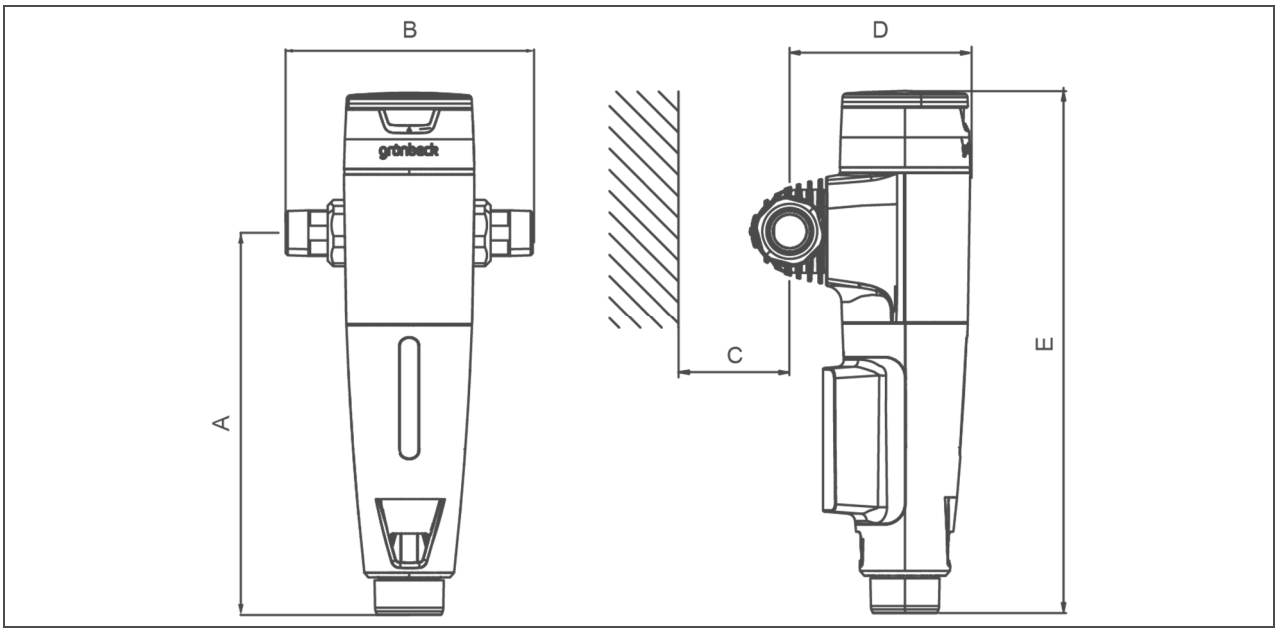
Design

- Closed, easy-to-clean system surface
- Cover to protect the filter cylinder and filter element from UV light
- Inspection window integrated in the cover to determine the degree of impurities in the filter element
- Filter head made of pressure-resistant plastic with clearly legible interval indicator for backwash interval
- Filter element made of stainless steel fabric
- Rotatable click-type connection flange to easily set the flow direction
- Water meter screw connections made of dezincification-resistant brass
- Flexible drain connection with integrated free outlet
- The pureliQ:AD features a pressure reducer with pressure gauge - integrated in the fiter head - to set and indicate the after-pressure on the outlet side
- All water contacting parts comply with the German Drinking Water Ordinance. Test regulations: KTW, DVGW W 270, DIN 50930-6.

Scope of supply

- Automatic filter pureliQ:A or pureliQ:AD, complete with filter element and pre-assembled connection flange
- Water meter screw connection
- Gaskets
- Operation manual

Technical specifications I



Dimensions and weights		pureliQ:A			pureliQ:AD		
Nominal connection diameter		DN 20	DN 25	DN 32	DN 20	DN 25	DN 32
Connection diameter		¾“	1"	1¼“	¾“	1"	1¼“
A Height up to centre of connection	[mm]	285					
B Installation length w/wo screw connection	[mm]	185/100	182/100	191/100	185/100	182/100	191/100
C Min. distance to wall	[mm]	50					
D Depth up to centre of connection	[mm]	135	135	145	135	135	145
E Overall height	[mm]	385	385	385	405	405	405
Empty weight	[kg]	1.8	2.0	2.2	2.0	2.2	2.4
Operating weight, approx.	[kg]	2.3	2.5	2.7	2.5	2.7	2.9

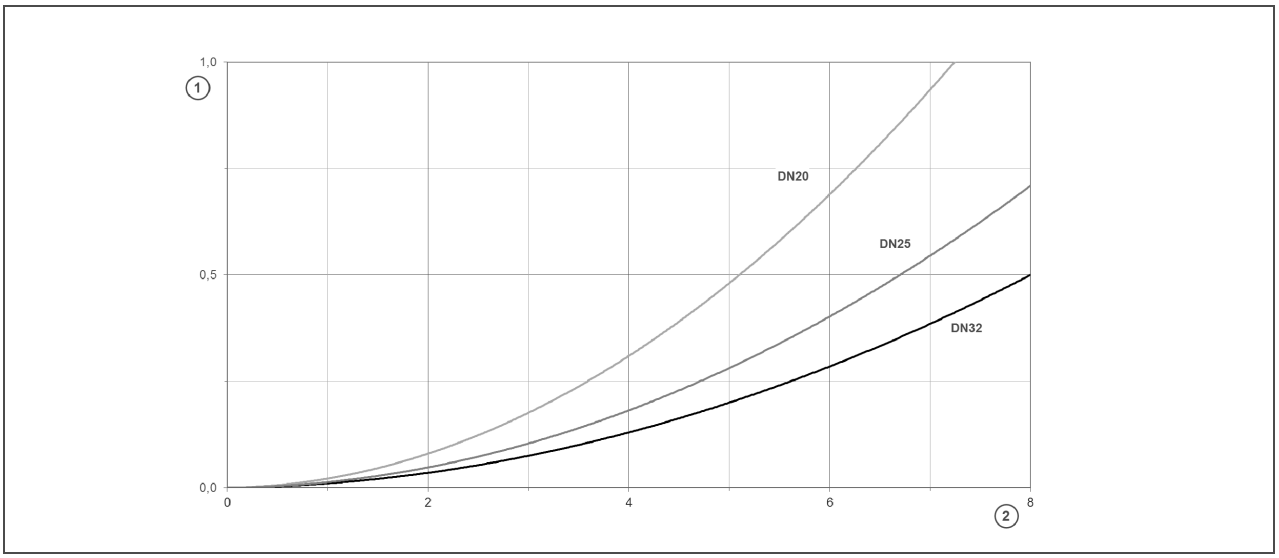
Technical specifications II

Connection data		pureliQ:A			pureliQ:AD		
Nominal connection diameter		DN 20	DN 25	DN 32	DN 20	DN 25	DN 32
Connection diameter		¾“	1"	1¼“	¾“	1"	1¼“
Drain connection		DN 50					
Power supply	[V]/[Hz]	100 – 240/50 – 60					
Power input Operation = max/standby	[W]	2/0.075					
Protection/protection class		IP42/⧈					

Performance data							
Nominal flow at Δp 0.2 (0.5) bar	[m³/h]	3.2 (5.1)	4.2 (6.7)	5.0 (8.0)	-	-	-
Flow rate as per DIN EN 1567	[m³/h]	-	-	-	2.3	3.6	5.8
K_V value	[m³/h]	7.2	9.5	11.3	-	-	-
Pore size	[µm]	100					
Largest/smallest pore size	[µm]	120/80					
Operating pressure	[bar]	2 – 16					
Nominal pressure		PN 16					

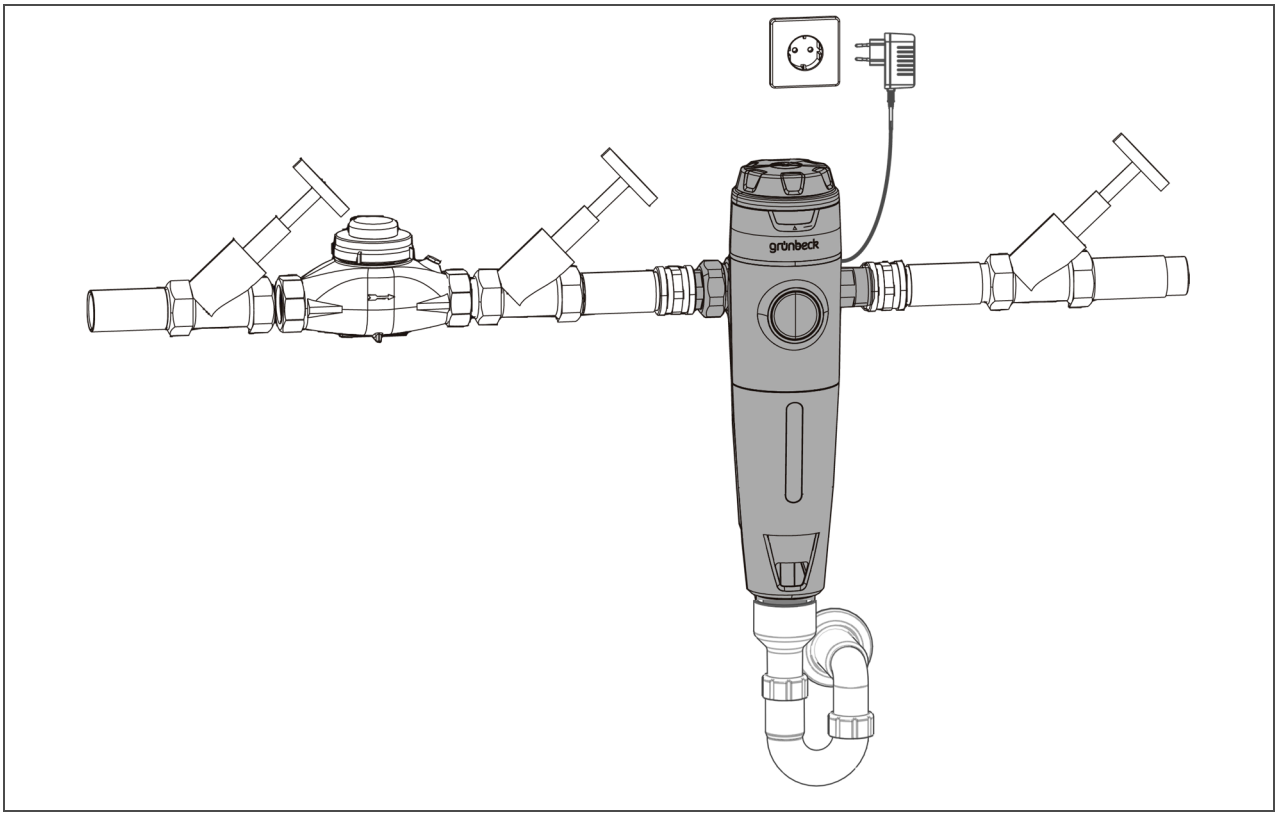
General							
Backwash water volume at an inet pressure of 4 bar	[l]	approx. 14					
Water temperature	[°C]	5 – 30					
Ambient temperature	[°C]	5 – 40					
DVGW registration number		NW-9301CT0031			NW-9311CT0032		
SVGW certificate number		pending					
Order no.		**101 420**	**101 425**	**101 430**	**101 470**	**101 475**	**101 480**

Pressure loss curve of automatic filter pureliQ:A



Item	Designation	Item	Designation
1	Differential pressure [bar]	2	Flow [m³/h]

Installation example



Item	Designation	Item	Designation
1	Shut-off valve		

Installation requirements

Observe local installation directives, general guidelines and technical specifications.

The installation site must be frost-proof and ensure the filter's protection from chemicals, dyes, solvents, vapours and direct sunlight.

The installation site must be well accessible for maintenance purposes.

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