

**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 outlet pressure on the withdrawal side to maintain the maximum admissible operating pressure according to DIN EN 806-2.

The filters can be used for positive and negative pressure applications. The backwash and the adjustment of the outlet 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 and DIN 19628 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 flow-optimised pressure reducer, designed according to DIN EN 1567, of the automatic filter pureliQ:AD, the outlet pressure on the withdrawal side can in addition be set to 1 – 6 bar (factory setting: 4 bar).

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 backwash can be initiated manually 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 filter head - to set and indicate the outlet 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

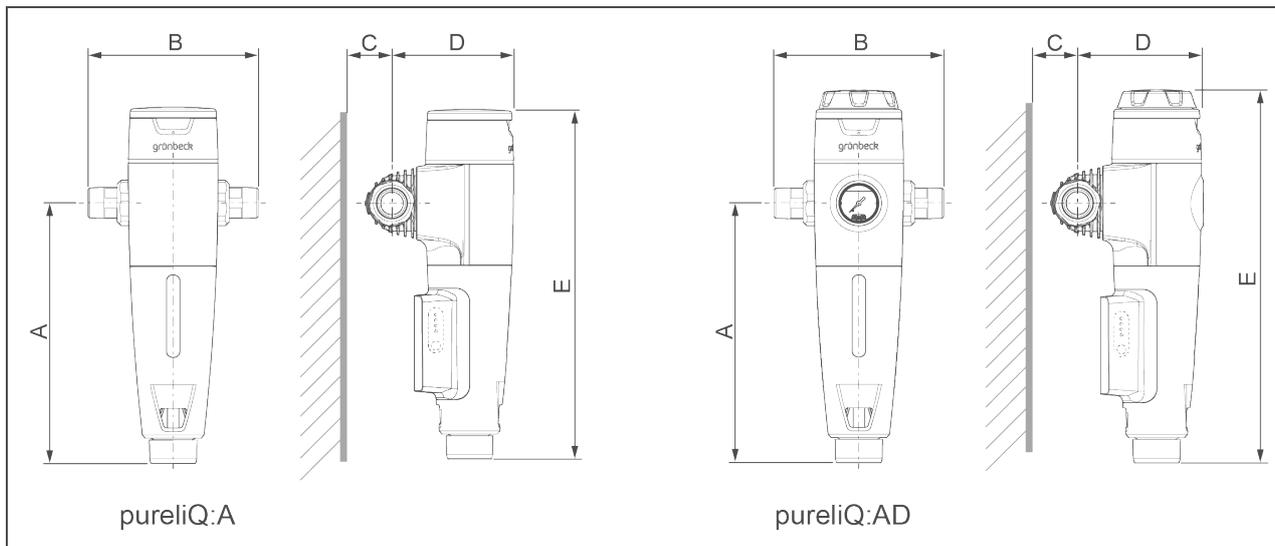
- Automatic filter pureliQ:A or pureliQ:AD, complete with filter element and pre-assembled click-type connection flange
- Water meter screw connection
- Seals
- Quick reference manual

• **Product Data Sheet**

Automatic filter pureliQ:A

Automatic filter pureliQ:AD

**Technical specifications I**



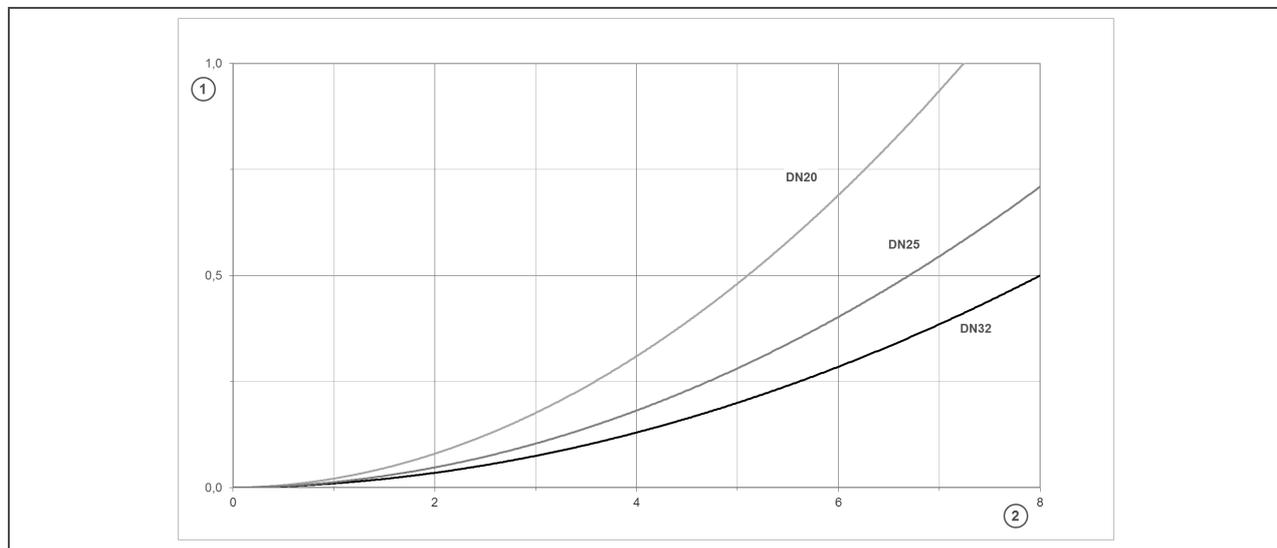
Dimensions and weights		pureliQ:A			pureliQ:AD		
		A20	A25	A32	AD20	AD25	AD32
Nominal connection diameter		DN 20	DN 25	DN 32	DN 20	DN 25	DN 32
Connection diameter		¾"	1"	1¼"	¾"	1"	1¼"
Drain connection		DN 50					
A Height up to centre of connection	mm	285					
B Installation length w/wo screw connection	mm	185/100	182/100	191/100	185/100	182/100	191/100
C 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.	kg	~ 2.3	~ 2.5	~ 2.7	~ 2.5	~ 2.7	~ 2.9
Connection data		A20	A25	A32	AD20	AD25	AD32
Power supply	V~/Hz	100 – 240/50 – 60					
Power input Operation = max/standby	W	2/0.075					
Protection/protection class		IP42/□					

## Technical specifications II

Performance data		A20	A25	A32	AD20	AD25	AD32
Nominal flow at $\Delta p$ 0.2 (0.5) bar	m <sup>3</sup> /h	3.2 (5.1)	4.2 (6.7)	5.0 (8.0)	-	-	-
Flow rate as per DIN EN 1567	m <sup>3</sup> /h	-	-	-	2.3	3.6	5.8
K <sub>V</sub> value	m <sup>3</sup> /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					

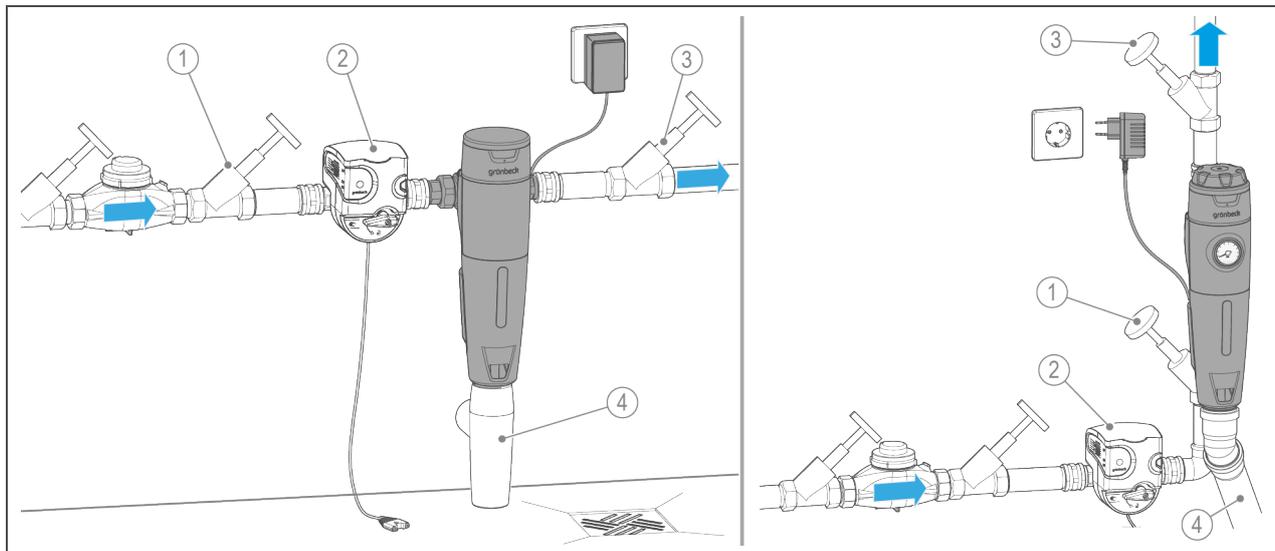
General data		A20	A25	A32	AD20	AD25	AD32
Backwash water volume at an inlet pressure of 4 bar	l	~ 14					
Water temperature	°C	5 – 30					
Ambient temperature	°C	5 – 40					
DVGW registration number		NW-9301CT0031			NW-9311CT0032		
SVGW certificate number		1803-6727			1803-6728		
ÜA registration number <i>The Office of the Vienna Provincial Government – City of Vienna</i>		R-15.2.3-21-17496 R-15.2.1-22-17624					
<b>Order no.</b>		<b>101 420</b>	<b>101 425</b>	<b>101 430</b>	<b>101 470</b>	<b>101 475</b>	<b>101 480</b>

## Pressure loss curve of automatic filter pureliQ:A



Item	Designation	Item	Designation
1	Differential pressure in bar	2	Flow in m <sup>3</sup> /h

## Installation example



Item	Designation	Item	Designation
1	Shut-off valve inlet	2	Safety device protectliQ
3	Shut-off valve outlet	4	Drain connection DN 50 incl. siphon according to DIN EN 1717

## 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 and their vapours as well as from direct sunlight.

The installation site must be well accessible for maintenance purposes.

For the electrical connection, a Schuko socket is required within a distance of approx. 1.2 m. The socket outlet requires permanent power supply and must not be coupled with light switches, emergency heating switches or the like.

A drain connection (DN 50) must be available to discharge the backwash water.

The installation room must have a floor drain. If no floor drain is available, an appropriate safety device must be installed in order to prevent water damage. We recommend using a protectliQ:A.

## Accessories

### Drain connection DN 50

#### Order no. 188 875

Drain connection according to DIN EN 1717 with integrated siphon to discharge the backwash water into the drain.

## Contact

Grünbeck Wasseraufbereitung GmbH  
 Josef-Grünbeck-Str. 1  
 89420 Hoehstaedt  
 Germany

☎ +49 9074 41-0

✉ +49 9074 41-100

info@gruenbeck.com  
 www.gruenbeck.com

