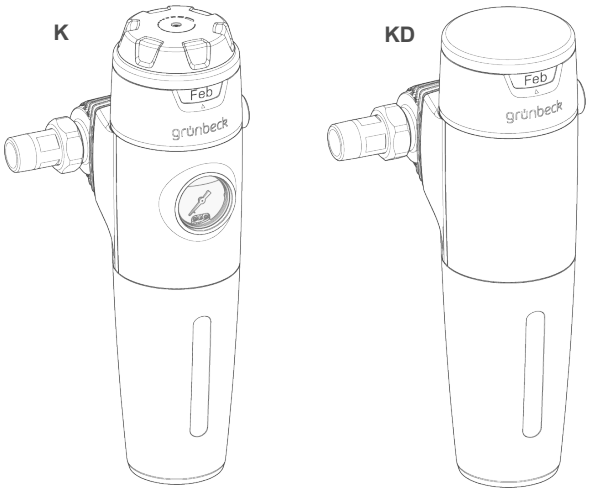


Fine filter pureliQ:K
Fine filter pureliQ:KD

Intended use

The fine filters pureliQ:K and pureliQ:KD are designed for the filtration of drinking water.

The fine filter pureliQ:KD with pressure reducer is in addition suitable for the adjustment of the after-pressure on the withdrawal side in order to maintain the max. admissible operating pressure according to DIN EN 806-2.

The filters can be used for positive pressure and negative pressure applications. 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 is 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 fine filters pureliQ:K and pureliQ:KD 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 immediately 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, etc.

Function

The unfiltered drinking water flows into the filter from 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.

The filter element has to be replaced every 6 months at the latest according to DIN EN 806-2.

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 means of the flow-optimised pressure reducer of the fine filter pureliQ:KD, which is designed according to DIN EN 1567, the after-pressure on the withdrawal side can be set to 1 - 6 bar (factory setting: 4 bar)

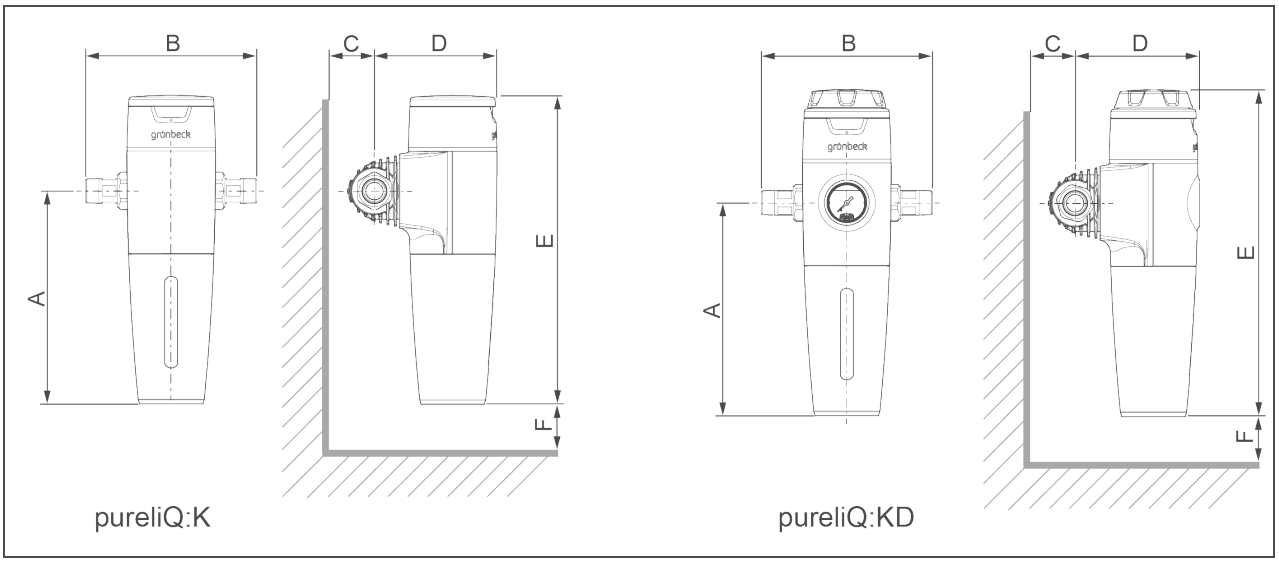
Design

- Closed, easy-to-clean system surface.
- Removable 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 the replacement of the filter element.
- For the replacement of the filter element, the filter cylinder can be removed without any tools.
- Replaceable filter element made of polyester fabric (pore size 100 µm).
- Rotatable click-type connection flange for easy installation according to the flow direction prevailing on site.
- Water meter screw connections made of dezincification-resistant brass.
- In order to set and indicate the after-pressure on the outlet side, a pressure reducer with pressure gauge is integrated in the filter head of the pureliQ:KD.
- All water contacting parts comply with the German Drinking Water Ordinance. Test regulations: KTW, DVGW W 270, DIN 50930-6.

Scope of supply

- Fine filter pureliQ:K or pureliQ:KD, with pre-assembled click-type connection flange
- Filter element 100 µm
- Water meter screw connection
- Seals
- Quick manual

Technical specifications I



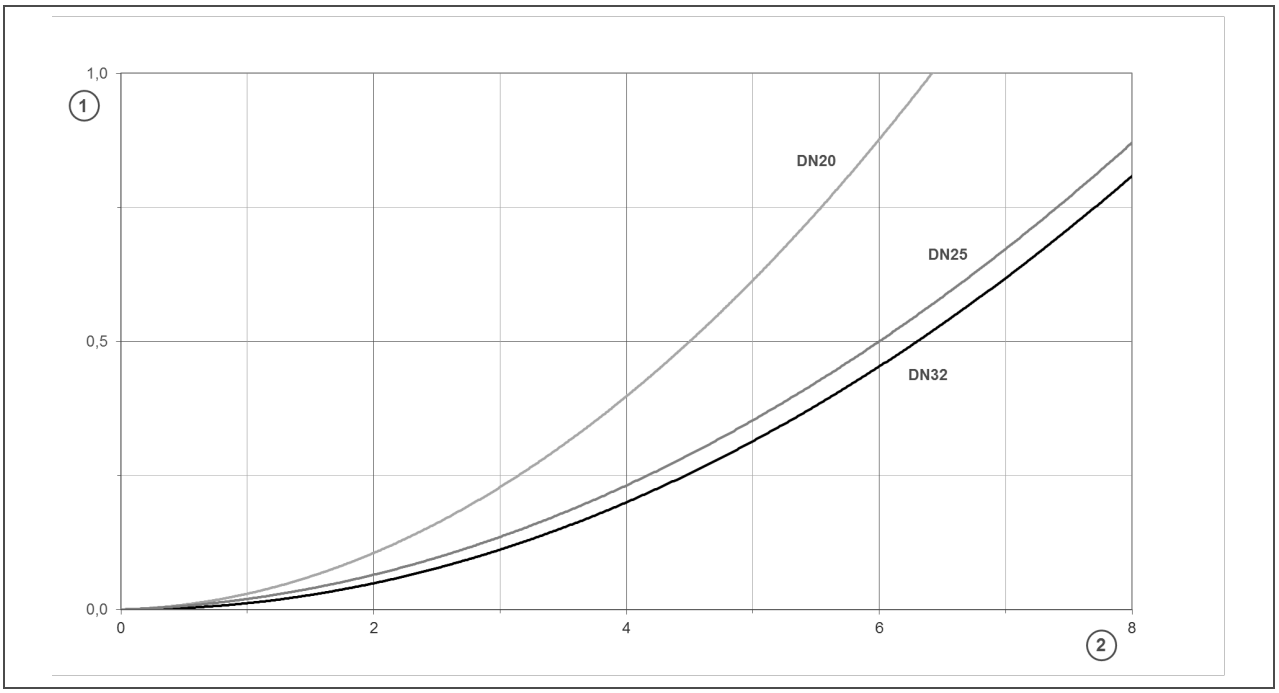
Dimensions and weights		pureliQ:K			pureliQ:KD		
		K20	K25	K32	KD20	KD25	KD32
Nominal connection diameter		DN 20	DN 25	DN 32	DN 20	DN 25	DN 32
Connection diameter		¾"	1"	1¼"	¾"	1"	1¼"
A Height up to centre of connection	mm	235					
B Installation length with/with out screw connection	mm	185/100	182/100	191/100	185/100	182/100	191/100
C Distance to wall	mm	≥ 50					
D Installation depth up to centre of connection	mm	135	135	145	135	135	145
E Total height	mm	335	335	335	355	355	355
F Clearance required for re-placement of filter element	mm	> 150					
Empty weight	kg	1,4	1,6	1,8	1,6	1,8	2,0
Operating weight	kg	~ 1,9	~ 2,1	~ 2,3	~ 2,1	~ 2,3	~ 2,5

Technical specifications II

Performance data							
Nominal flow at Δp 0.2 (0.5) bar	m³/h	2.8 (4.5)	3.7 (6.0)	4.0 (6.3)	-	-	-
Flow rate as per DIN EN 1567	m³/h	-	-	-	2.3	3.6	5.8
K_V value	m³/h	6.5	8.5	9.1	-	-	-
Pore size	µm	100					
Largest/smallest pore size	µm	120/80					
Operating pressure	bar	2 – 16					
Nominal pressure		PN 16					

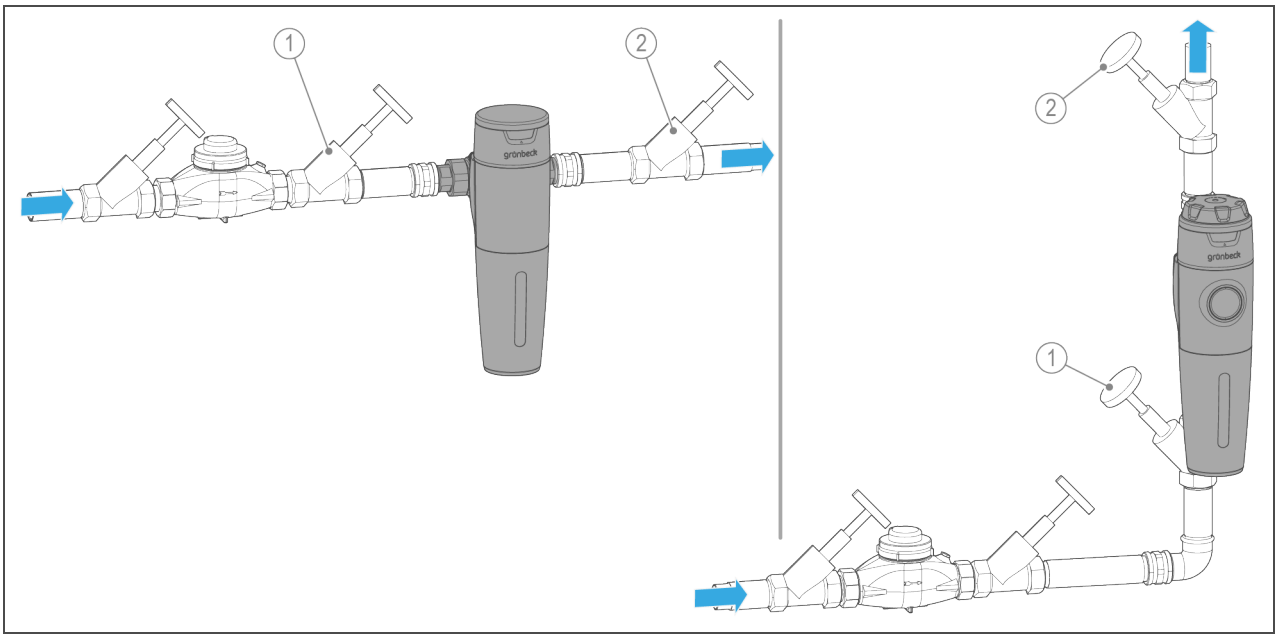
General data							
Water temperature	°C	5 – 30					
Ambient temperature	°C	5 – 40					
DVGW registration number		NW-9301DL0140			NW-9311DL0141		
SVGW certificate number		2006-6953			2006-6954		
ÜA registration number *Office of the Vienna Provincial Government – City of Vienna*		R-15.2.3-21-17496 R-15.2.1-22-17624					
Order no.		**101 220**	**101 225**	**101 230**	**101 270**	**101 275**	**101 290**

Pressure loss curve of pureliQ:K



Item	Description	Item	Description
1	Differential pressure in bar	2	Flow rate in m³/h

Installation example



Item	Designation	Item	Designation
1	Inlet shut-off valve	2	Outlet 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, and their vapours and direct sunlight.

The installation site must be well accessible for maintenance purposes.

Accessories/Consumables

According to DIN EN 13443-1 filter elements with 5 µm, 20 µm and 50 µm are not admissible for the drinking water systems.

2 pieces each included in scope of supply

Tested according to the German Association of the Gas and Water Industry (DVGW)
101 272 Filter element 100 µm

Not tested according to the German Association of the Gas and Water Industry (DVGW)
103 068 Filter element 50 µm
103 071 Filter element 20 µm
103 081 Filter element 5 µm

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