



#### Intended use

The backwash filters BOXER RX and BOXER RDX are designed for filtering drinking water.

The backwash filter RDX with pressure reducer in addition is suitable for the adjustment of the outlet pressure on the withdrawal side in order to maintain the max. admissible operating pressure stipulated in DIN EN 806-2.

The filters can be used for positive and negative pressure applications. The adjustment of the outlet pressure on the withdrawal side as well as the filter backwash only work 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 backwash filters 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 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 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, foreign particles stick to the filter element or they fall straight down into the filter cylinder.

Turning the backwash handwheel to the stop opens the drain and a backwash is carried out. The water flows through the primary screen to the filter element and then passes through the filter element in the opposite direction to normal filtration. The particles sticking to the filter element are effectively removed by the integrated, rotatable impeller and are washed out to the drain.

We recommend performing a backwash every two months.

In the backwash filter BOXER RDX with pressure reducer, the flow-optimised pressure reducer, which is designed according to DIN EN 1567, enables the outlet pressure on the withdrawal side to be set to 1 – 6 bar (factory setting: 4 bar).

#### Design

 Pre-assembled, rotatable connection flange made of plastic, including water meter screw connections made of dezincification-resistant brass, with seals and stainless steel screws

- Filter head with pressure gauge and maintenance ring to set the next maintenance date (backwash)
- BOXER RDX additionally with pressure reducer and pressure gauge integrated in the filter head
- Filter element made of stainless steel mesh with integrated impeller
- Transparent blue filter cylinder that can be tightened by hand
- Ergonomic handwheel for easier release of backwash
- Drain connection DN 50 according to DIN EN 1717 for connection to the drain pipe with integrated outlet
- All water-contacting parts comply with the German Drinking Water Ordinance.
  Test regulations: KTW, DVGW W 270, DIN 50930-6
- All materials are recyclable

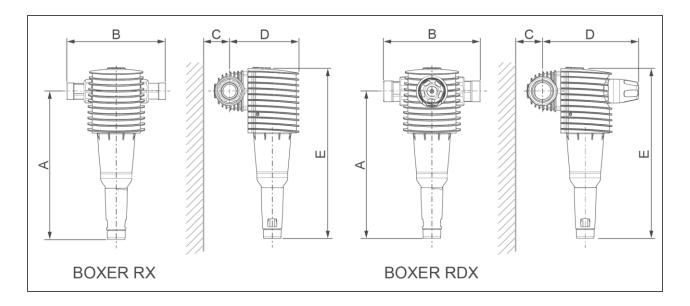
#### Scope of supply

- Backwash filter with connection flange
- Water meter screw connection
- Seals
- Pressure gauge
- Quick reference manual

Additionally for **BOXER RDX** 

Pressure reducer cartridge

# **Technical specifications I**



Dimensions and weights		RX 1½"	RX 2"	RDX 1½"	RDX 2"
A Height up to centre of connection	mm	420			
B Installation length with/without screw connection	mm	283/160	277/160	283/160	277/160
C Distance to wall	mm	≥ 90			
D Installation depth up to centre of connection	mm	200	200	274	274
E Total height	mm	488			
Empty weight, approx.	kg	4.35	4.70	5.05	5.40
Order no.		101540000000	101545000000	101580000000	101585000000

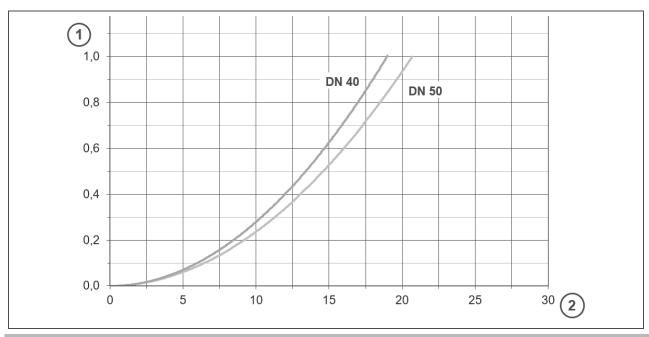
## **Technical specifications II**

Connection data	RX 1½"	RX 2"	RDX 1½"	RDX 2"
Nominal connection diameter	DN 40	DN 50	DN 40	DN 50
Connection diameter	1½"	2"	1½"	2"

Performance data		RX 1½"	RX 2"	RDX 11/2"	RDX 2"
Nominal flow at Δp 0.2 (0.5) bar	m³/h	8.6 (13.3)	9.2 (14.6)	-	-
Flow rate as per DIN EN 1567	m³/h	-	-	9.1	14.0
K <sub>∨</sub> value	m³/h	19.0	20.7	-	-
Pore size	μm	100			
Largest/smallest pore size	μm	120/80			
Operating pressure	bar	2 – 16			
Nominal pressure		PN 16			

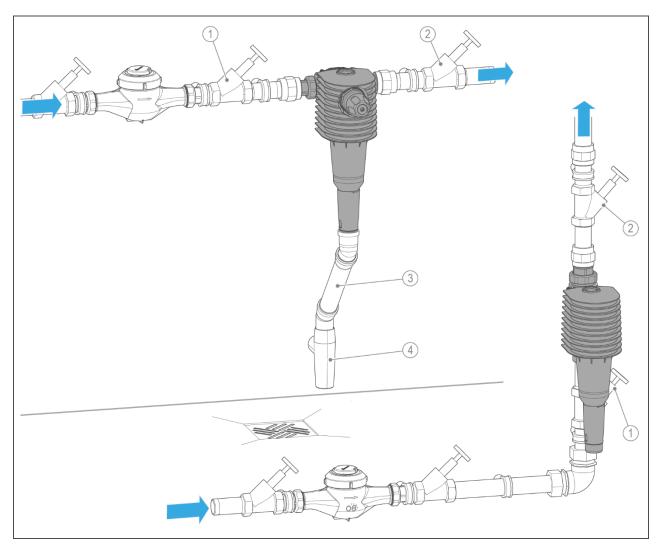
General data		RX 1½"	RX 2"	RDX 11/2"	RDX 2"
Backwash water volume at an inlet pressure of 4 bar	1	~ 4			
Water temperature	°C	5 – 30			
Ambient temperature	°C	5 – 40			
DVGW registration number		NW-9301DL0161 NW-9311DL0166			1DL0166
ÜA registration number Office of the Vienna Provincial Government – City of Vienna		R-15.2.3-21-17496 R-15.2.1-22-17624			
Order no.		101540000000	101545000000	101580000000	101585000000

#### Pressure loss curves BOXER RX



Item	Designation	Item	Designation
1	Pressure loss in bar	2	Flow rate in m <sup>3</sup> /h

### Installation example



Item	Designation	Item	Designation
1	Shut-off valve (inlet)	2	Shut-off valve (outlet)
3	Piping provided by client on site	4	Drain connection DN 50 incl. siphon acc. to DIN EN 1717

## **Installation requirements**

Obey the local installation directives, general guidelines and technical specifications.

The installation site must be frostproof and ensure the filter's protection from chemicals, dyes, solvents and their vapours as well as from direct sunlight.

The installation site must be easily accessible for maintenance purposes.

#### **Accessories**

# Drain connection DN 50 Order no. 188 875

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

#### Contact

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