

# Backwash valve

## Backwash valve

The **Bermad** patented backwash valve has been especially designed for filter backwashing. The 3-2w principle has a unique diaphragm-actuated valve.

Due to the short valve stroke, the flow direction changes gradually. The inlet port closes before the drain port opens, and likewise, the drain port closes before the water inlet opens again. This way, the flushing water is kept separate from the water to be purified. A simple operation saving both water and energy.

The special seat and valve ensure perfect backwash valve closure, also at relatively low operating pressures.

The design of the valve allows for installation in different positions, and provides an optimal separation of the flushing water and the water to be filtered.

For specific applications the valve can be supplied with for reverse flow.

## Applications:

The backwash valve can be used for all filters that are cleaned by backwashing, such as sand filters, multi-media filters and automatic disc filters.

A very simple form of automation can be achieved by stalling two or more filters in parallel.

The moment the backwash valve receives a control signal, the flow to the filter will be closed and the flushing line will open. The filtered water of the other filter(s) will be used to perform a backwash. This way, the entire filter unit is cleaned step by step!

## Specifications:

- Working pressure: 0,5 – 10 bar
- Max. temperature: 65 °C
- Connection: BSP / Victaulic

## Materials:

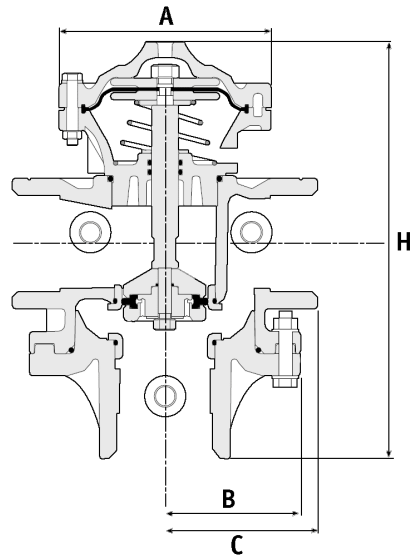
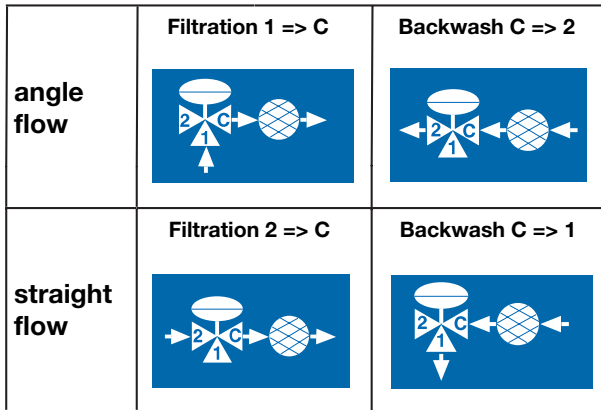
- Body: fibreglass-reinforced nylon
- Seats/valve: stainless steel
- Diaphragm: NR, nylon-fibre-reinforced
- Seals: NBR and NR





# Backwash valve Technical data

Hydraulic diagram:

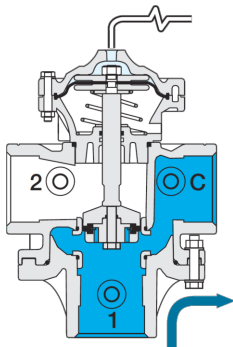


Model		2"	3"	4"
Connection	inch	2" BSP	3" Vic	4" Vic
A	mm	126	160	210
B	mm	80	96	130
C	mm	90	144	139
H	mm	274	378	464
Weight	kg	2,8	5,1	9,9
KV straight filtration		46	93	190
KV straight backwash		60	122	250
KV angle filtration		52	110	225
KV angle backwash		48	100	205
CCDV	ltr	0,13	0,34	0,55

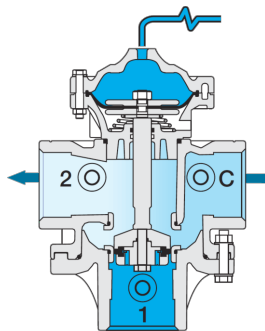
Operation:

Angle flow

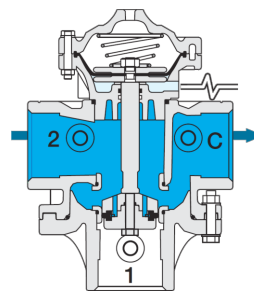
Straight flow



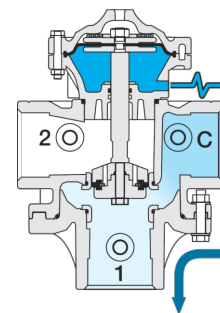
Filtration



Backwash



Filtration



Backwash