

## Tech Note

# Nessie® Manually Variable Throttle check Valve type VOCH 30 M



### Design and function

The manually variable throttle check valve controls the water flow and thereby the speed of an actuator (motor or cylinder). The desired flow is set by a handle on the valve. An integrated check valve enables a free backflow.

The valve is designed for ordinary water, i.e. without additives of any kind to the medium. (EU- directive 80/778)

### Features

- Stands very large pressure drops (is important if the valve is e.g. used as a load valve)
- Corrosion-proof outside parts (stainless steel, AISI 304, W.Nr. 1.4301, in plastics)
- An integrated check valve enables the flow to by-pass the throttling function and thus allows a free backflow.
- The flow can be adjusted from completely closed to fully open and the valve may be used as a shut-off valve.
- Surfaces easy to clean.

### Variants

The valve is available in a 30 l/min version.

### Technical data

Max. inlet pressure: 140 bar cont.  
Max. flow: 30 l/min cont.  
max. pressure drop  
across the check valve: 2 bar

Max. pressure drop across the valve:  
140 bar cont.

### Filtration

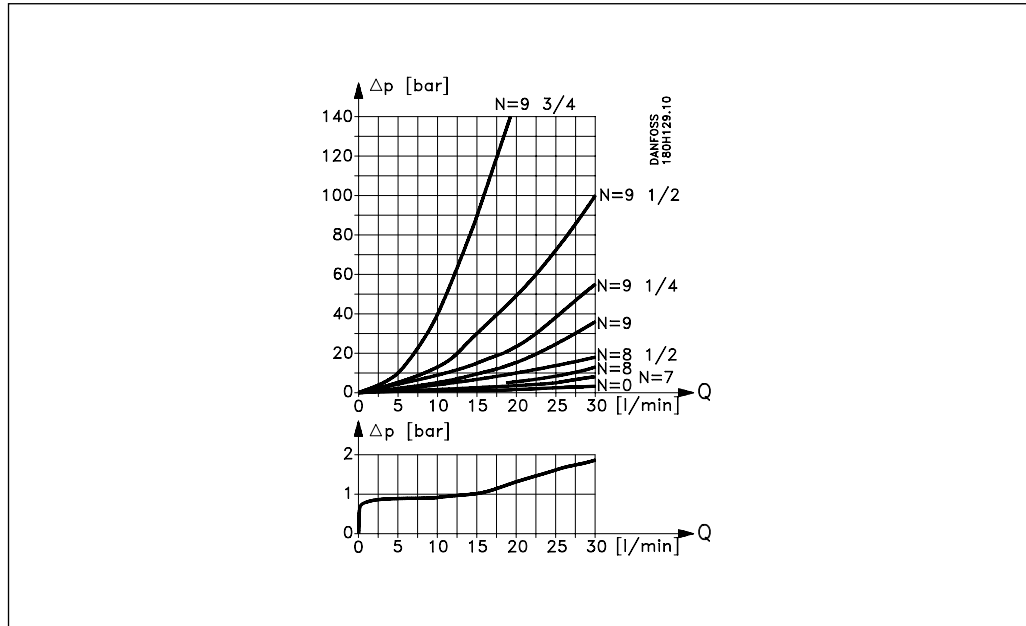
The water supplied to the valve must be filtered: 10 µm absolute, β10-value > 5000 filter is recommended.

For further information on filters, please contact the Danfoss sales department for Water Hydraulics.

### Code number

VOCH 30M	180H0150
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Pressure drop at various opening degrees:



N is the number of rotations of the valve handle in upper position. At  $N = 0$ , the valve is fully open (upper position). Pressure drop [ $\Delta p$ ] across the check valve as a function of the flow [ $Q$ ].

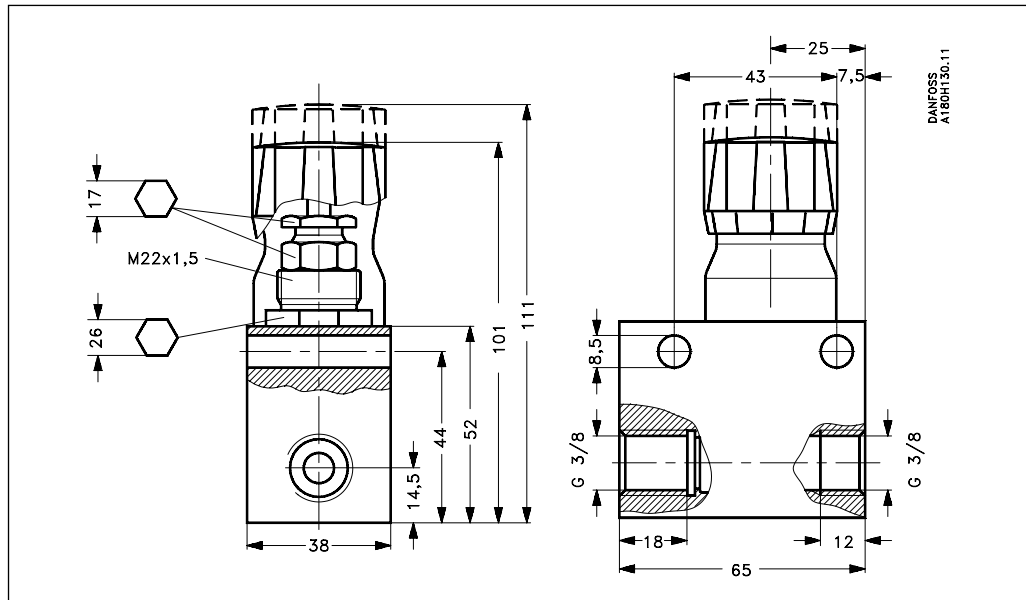
**Installation**

There are three different ways to mount the valve:

1. In-line, fixed to the piping of the system
2. Fastened through the two  $\varnothing 8.5$  mm bore holes in the valve housing.

3. Bulk head-mounted without the plastic cap (pos. 2) and with the spindle guide bored through the plate ( $\varnothing 23$  mm). The valve is fastened to the spindle guide by means of a ( $M22 \times 1.5$ ) nut.

**Dimensions (in mm)**



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