## **Description**

DUO check valve, for mounting directly between flanges according to DIN. Maintenance not required. For liquids and gases in the industrial range, general services, water treatment. Not suitable for media with solid components.

## **Product features**

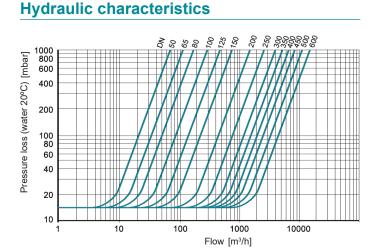
- Body construction
  - Wafer sure 16 bar
- Max. working pressureRating

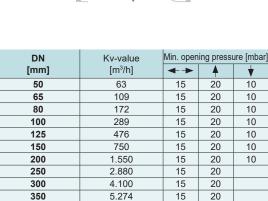
  - PN 10, P
- Face to face dimensionTemperature range

PN 10, PN 16, other ratings on request according to DIN EN 558-1 -10°C to 200°C

## Construction

1	Body
2	Plate
3	Shaft
4	Seals
5	Spring





8 2 5 0

10.550

14.500

24.000

 $c_v = k_v \times 1,16$ 

15

15

15

15

30

30

30

30

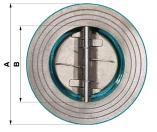
400

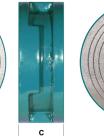
450

500

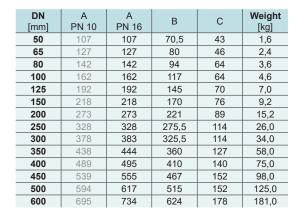
600

## Dimensions





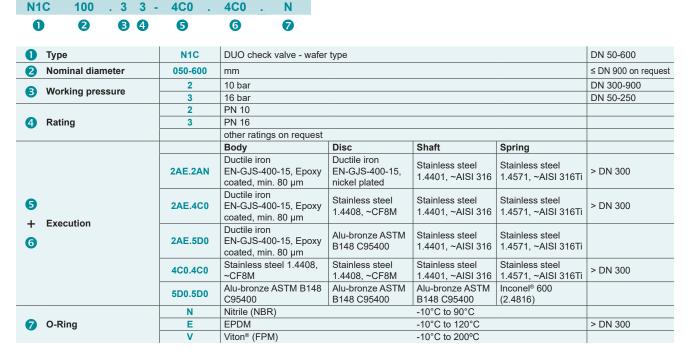




# A dedicated member of the AVR Group



## Type code



### Other executions see Neptunia N1V or on request!

## **Operating instructions**

#### Appropriate use in accordance to designed capabilities:

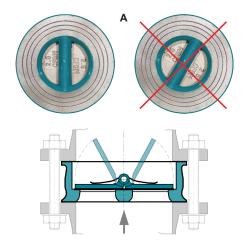
NEPTUNIA N1C swing check valves are designed to block media on one side of the pipe within allowable pressure and temperature limits and to be installed in a pipe system only. They may be used only with media, which the material and the seals are resistant to. They are not suitable for media with solid components.

#### Storage:

Swing check valves include sealing elements consisting of organic material, that reacts to environmental effects. Therefore, they are to be stored in their original packaging in a place, which is also to be kept as cool, dry and dark as possible. The front and back sides of the swing check valves must not be mechanically damaged.

#### Installation:

- Possible damages to the check valve and O-rings are to be checked prior to installation. Check if the plates can be moved. Damaged parts must not be installed.
- Make sure that only those check valves are being installed, that meet the operational requirements regarding pressure category, chemical resistance, connection and dimensions.
- Make sure to install a minimum of 5 x nominal diameter of straight pipeline in front of and behind the swing check valve.
- Do not install the valves directly onto a pump flange.
- Avoid pulsation and pressure impact.
- In a horizontal pipe, the check valve must always be installed with its hinge pin in the vertical position (A).
- Watch flow direction (see arrow on the plate) !
- The check valves are put in their central position according to the outer diameter of the case and the flange screw inner side.
- Tighten the flange screws crosswise.
- After the installation is finished, check the tightness of the connections by a pressure check.



#### **Special risks:**

Before the swing check valve is being removed, pressure has to be completely taken off the plant to avoid media escaping from the pipe. Fluid being left in the pipe must be drained off. Fluid, which has remained in the valve and comes out during removal, is to be collected. If hazardous fluids or gases are left in the valves, the safety measurements required must be taken.

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