



# Operating Instructions

for ball check valves  
ART. 16, 16R, 17, 18

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## 1. Introduction

Ball check valves are used to prevent return flow in the pipeline transporting waste and sewage water and thick and viscous liquids.

## 2. Safety Instructions

Installation, operation and maintenance may only be performed by properly trained and instructed staff.

For detailed safety regulations see the separate document, which must be read carefully before installation.

## 3. Identification of ball check valves

Ball check valves are identified as follows

Type	Model	Body material	Ball material	PN
ART.16	flanged	GGG 40	NBR coated aluminium	10
ART.16R	flanged	GG 25	NBR coated aluminium	16
ART.17	threaded with drain plug	GGG 40	Phenol resin	10
ART.18	threaded without drain plug	GGG 40	Phenol resin	10

The arrow on the valve body marks the direction of the liquid flow.

## 4. Transportation and Storage

The valves must be stored indoors in dry and dust-free environment at normal temperatures.

## 5. Installation into Pipes

The procedure is graphically described in the document **Installation Instructions**.

Before installation it is necessary to examine

- Whether the PN, DN and materials of the supplied valve correspond to the intended use,
- Whether no damage occurred during transportation. **Do not use damaged valves!**
- Check the free movement of the ball in the body.
- Counter-flanges must be aligned and parallel; any impurities and solid particles from the flanges and piping must be removed.

Gasket made of suitable material has to be inserted between the valve flanges and piping. The valve must be installed so that the arrow on the body coincides with the direction of flow. Screws on the flanges are tightened alternately (in a “criss-cross pattern”).

## 6. Pipe Pressure Test

The valve is pressurized by the manufacturer. When fitted in the pipeline, the entire pipe section with valves and fittings needs to be pressurized.

Pressurisation is performed in the direction of flow at 1.5 times the PN.

## 7. Operation and Maintenance

The flanged ball check valve is maintenance free.

Leakage of fluid around the lid or at the joints with the pipe flanges is to be checked during operation.

## 8. Troubleshooting.

In case of failure and repair it is necessary to observe all safety rules – see the separate document **Safety Regulations**.

Fault	Measure	Note
Leakage between the valve and piping flanges	Tighten the flange bolts. If leakage continues, the gasket must be replaced.	
Return flow of medium	Ball replacement	Always use original spare parts from the manufacturer.

## 9. Other Information

These regulations as well as other above-mentioned documents and further information – also in other languages – are available at [www.abovalve.com](http://www.abovalve.com) or at the following address:

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