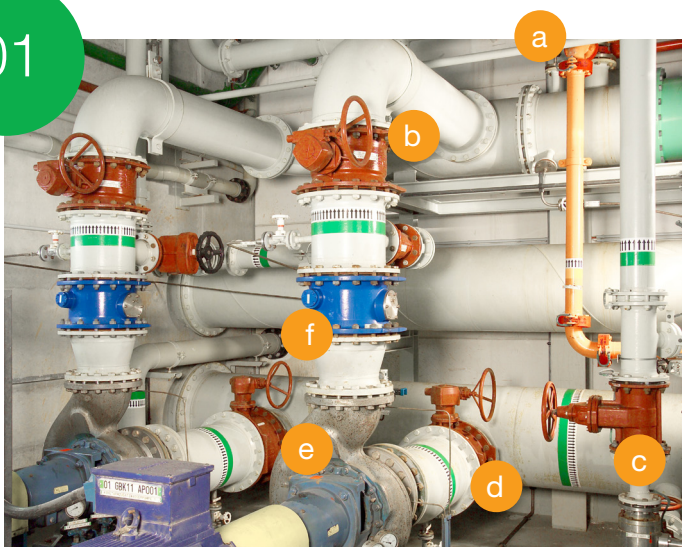


Valve Installation Guide

Which valve should be installed on the suction side of the pump? Where should the inspection valve be placed? This guide gives you tips for typical installation situations. Do you have more questions in regards assembly? Our team of engineers will gladly provide assistance. Please contact the consultant in charge of you.

01



Air valves (a) are generally installed on **collecting pipes** as air always accumulates at high points (see also Picture 02).

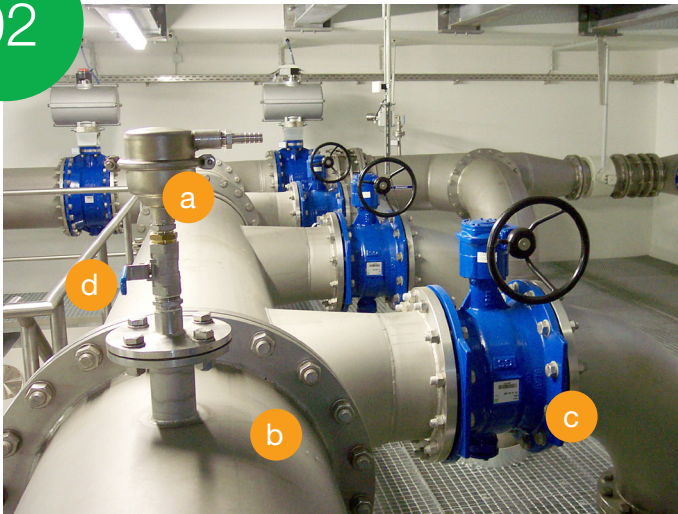
Butterfly valves (b) are mostly used in **larger nominal diameters** (from DN 300) whereas **gate valves (c)** are mainly installed in smaller nominal diameters.

A **shut-off device (d)** is always installed on the **suction side** of pumps. Which type is selected depends on the medium conveyed and the nominal diameters. In this case, it is a butterfly valve.

A **non-return valve (f)** is always installed on the **delivery side** of pumps (e) to prevent the medium from turning the pump backwards. In this case, it is a VAG SKR Slanted-Seat Tilting-Disk Check Valve. A **shut-off device (b)** is installed above it.

Valve Installation Guide

02



The **air valve** (a) is positioned on the **collecting pipe** (b). Upstream of the air valve, a **butterfly valve** is located on the **delivery side**.

The picture shows an optimal arrangement with an **inspection valve** (d). In this case, it is a ball valve located **below** the air valve.

03



A similar arrangement shown at the VAG Technology Center in Mannheim. Here, a VAG EKN® **Butterfly Valve** (a) is installed as an **inspection valve** upstream of a VAG DUOJET® **Automatic Air Valve** (b).

The advantage of this arrangement: If the air valve has to be **replaced**, the inspection valve can simply be closed. It is not necessary to shut down the pipeline.

Valve Installation Guide

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04



Picture 04 shows a typical **waste-water** application.

Here, a VAG ZETA® Knife-Gate Valve (a) was positioned on the **suction side**.

On the **delivery side**, the **non-return valve** (b) is installed first and the **knife-gate valve** (c) is then mounted above it.