

## **VAG Air Valves**

**Air and Water – No Problem**



# VAG Air Valves

## An important component of pipeline systems

Air confined in pipelines is often the cause of operational problems during normal operation. These problems manifest as sudden variation of pressure or flow rate, decreased flow rate performance or even pressure surges. This is the reason why pipelines have to be vented

continuously to assure an air-free operation. When starting-up or closing-down a pipeline or during normal operation of a pipeline system, automatic air venting valves are therefore necessary. VAG Air Valves are designed for wide range of applications.

## VAG BEV-E Automatic Air Valve single chamber version



### Product features

- Single chamber air valve, directly operated by the flow medium
- Venting small amounts of air in domestic water supply pipelines during operation
- To be screwed onto the pipeline

### Material and Corrosion Protection

- Body and cover of cast iron EN-JL 1040 (GG-25)
- Floater of plastic material
- All other inner parts of bronze
- Inside and outside epoxy coating

### Field of Application

- Domestic water supply systems

### Advantages

- Easy installation, only few parts, small dimensions
- Internal parts made from stainless materials

## VAG DUOJET® Automatic Air Valve single chamber version



### Product features

- Single chamber air valve, directly operated by the flow medium
- Compact design, very few components
- Triple venting functions:
  - Large venting cross-section for venting great amounts of air when starting-up pumping systems
  - Large venting cross-section for venting great amounts of air when closing-down pumping systems
  - Small venting cross-section for venting small amounts of air during operation under full inner pressure
- High venting capacity up to sonic velocity due to stabilised floating element

### Material and Corrosion Protection

- Body and cover of ductile iron EN-JS 1030 (GGG-40)
- All inner parts, as floater, shell, etc. of stainless steel
- Inside and outside epoxy coating

### Field of Application

- For waterpipelines in plants and pits

### Advantages

- Compact design, only few parts
- All inside components are made from stainless materials, no non-ferrous metals
- Fluidic guided floater

# VAG BEV Automatic Air Valve



## Product features

- High venting capacity
- Sturdy, stainless set for direct installation into the earth as
  - standpost installation
  - underground installation under a special street cap
- Protection jacket of stainless steel replaces the pit construction in its function

## Material and Corrosion Protection

- Protection jacket and all inner parts of stainless steel
- DUOJET® body and cover of ductile iron EN-JS 1030 (GGG-40) - all inner parts of stainless steel
- Bonnet of corrosion resistant aluminium alloy

## Field of Application

- For underground installed water pipelines or as substitute for pits

## Advantages

- Important cost savings compared to conventional chamber constructions
- Reliable and well-performing function unit when combined with the proved VAG DUOJET® DN 50
- Totally corrosion resistant

# VAG FLOWJET® PE Automatic Air Valve single chamber version



## Product features

- Single-chamber air valve for automatic ventilation and operational air release under inner pressure
- Compact design, low profile
- Light weight makes it easy to handle
- Maintenance friendly
- Corrosion-proof through use of synthetic parts
- Synthetic housing

## Material and Corrosion Protection

- Body and float made of PE 100
- Inner operation parts made of synthetic (POM/PVC)
- Sealings made of NBR
- Cover made of ductile iron EN-JS 1030 (GGG-40)

- Cover flange and guide screw made of stainless steel
- Minimum quality A2-70 for all connecting parts
- Loose flange for steel flange connection with PP coating

## Field of Application

- Wastewater technology, sewage treatment plants, wastewater transportation pipelines

## Advantages

- Corrosion-proof and scale-resistant housing
- Easy to maintain
- Compact design, little weight
- Protected functional area

# VAG Spring-Loaded Air Valve



## Product features

- Operated by the flow medium
- Venting of big air volumes for quick closing or pipe breaks
- Including an elbow with an alternative butterfly or gate valve and the VAG DUOJET® Automatic Air Valve with 2 additional discharge functions
  - For release and intake of air during start or shutdown of the pipeline system
  - For release of air during operation under full operation pressure

## Material and Corrosion Protection

- Body and cover steel welded
- All inter parts, as floater, shell, etc. of stainless steel
- Gaskets and seal of NBR
- Inside and outside epoxy coating

## Field of Application

- Water supply lines / water plants

## Advantages

- Friction cylinder prevents abrupt closing of the disk
- Intake of minimum air volumes up to big air volumes

# VAG DUOJET® Anti-Surge Air Valve

## single chamber version



### Product features

- Single chamber, double orifice triple function air valve
- Operated by the flow medium
- Triple function
  - Large orifice for release and intake of big air volumes
  - Calculated outlet orifice plate for discharge under reverse flow conditions to control the reverse flow velocity
  - Small orifice for release of small air volumes during operation under full operation pressure
- PN 10/16 including shut/off Valve Type VAG butterfly valve , PN 25 with VAG EKO®plus Gate Valve

### Material and Corrosion Protection

- Body and cover of ductile iron EN - JS 1030 (GGG-40)
- All inner parts, as floater, shell, etc. of stainless steel
- Gaskets and seal of EPDM

- VAG butterfly valve body of ductile iron EN-JS 1030 (GGG-40) disk of stainless steel

### Field of Application

- In pump lines after a slanted seat swing check valve, to avoid vacuum and water hammer/surge pressure after a pump trip situation

### Advantages

- Controlled back-flow velocity
- Avoiding of water-hammers
- Customized orifice
- No need in expensive surge vessels

# VAG TWINJET® Automatic Air Valve

## double chamber air valve



### Product features

- Double chamber air valve, directly operated by the flow medium
- Two separated venting cross-sections:
  - Large venting cross-section for venting great amounts of air when starting-up or closing-down pumping systems
  - Small venting cross-section for venting small amounts of air during operation under full inner pressure

### Material and Corrosion Protection

- Body and cover of ductile iron EN-JS 1030 (GGG-40)
- Inner parts of plastic material
- Inside and outside epoxy coating

### Field of Application

- For waterpipelines in plants and pits

### Advantages

- Compact design, minimum parts
- Less stocking of spare parts due to small number of parts
- Space saving design
- Special design with air guiding shield guarantees high venting performance

