



## Assembly, operating and maintenance manual

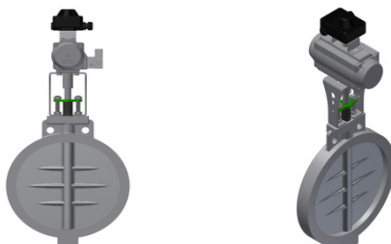
JASTA valves  
GD-6, LDK, FLD-16, RA, EDR

# JASTA

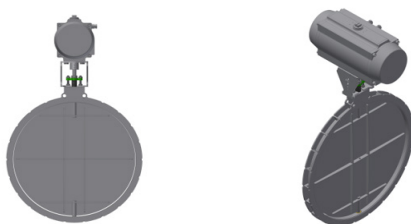


*Throttle and control valves for industrial ventilation systems  
for all temperature and pressure ranges*

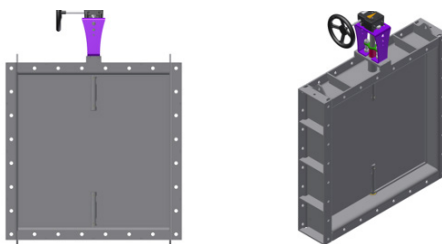
GD-6



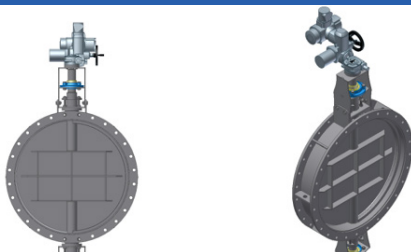
LDK



RA



FLD-16



EDR



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## 1. Preliminary remarks

These operating instructions are intended to support the installation, adjustment and maintenance of JASTA valves. The safety of commissioning and use is ensured by following all safety and installation instructions.



The manufacturer's warranty applies provided all operating instructions are followed.



Non-observance of the operating instructions and/or improper handling of the fittings will lead to exclusion of the warranty.



Please read these instructions carefully and completely before starting installation and commissioning.

## 2. Intended use

The valves are designed to throttle, regulate and shut off media flows within the approved pressure and temperature limits after installation in a pipeline system.



The approved pressure and temperature limits for your valve can be found in your order confirmation.

## 3. Safety instructions

### 3.1 General safety instructions



The same safety regulations apply to valves as to the piping system in which they are installed. The instructions only give those safety instructions which must be additionally observed for the valve.

### 3.2 Safety instructions for the plant operator



Before commissioning the valves, it must be ensured that...

- The valve is used as intended and described in section 2
- The piping system has been properly installed and regularly inspected. The wall thickness of the body of the valve is dimensioned in such a way that the usual pipeline tensile forces and moments in such professionally installed pipelines are taken into account.
- Valves operated at operating temperatures  $>50^{\circ}\text{C}$  or  $<-20^{\circ}\text{C}$  are protected against contact together with the pipeline connections.
- For pressurized pipelines, only qualified personnel operate and maintain the valve
- Challenging working conditions that for instance include particles in the medium must be clarified with the manufacturer.

### 3.3 Special hazards when removing the valve



Before loosening the screws on the bearing cover or the stuffing box, the pressure in the pipeline must be released to prevent uncontrolled escape of the medium from the pipeline. Special care must be taken with media that are hazardous to health.



When removing the valve, the pipeline must be completely drained. Be careful of residues flowing out of the pipeline or hidden in dead spaces.

### 3.4 Marking of the valve

Special valves manufactured to customer requirements in accordance with the PED (Pressure Equipment Directive) bear the following marking on the typelabel:

Contents type label (Example)		
Dimension	Marking	Remarks
Manufacturer	JASTA	
Valve type	GD-6	
Body material	St. 37 (S 235 JR)	
Size	DN (and numerical value)	
Maximum pressure	PN (and numerical value)	
Permissible temperature	Tb (and numerical value)	
Manufacture No./year of manufacture	133712/2021	
Conformity	CE	
Code	----	



Markings on the housing and on the type label must be retained so that the valve remains identifiable.

## 4. Transportation and storage

Valves must be handled, transported and stored with care:

- The valve must be transported in its protective packaging and stored in a closed space until installation, protecting it from harmful influences such as dirt or moisture.
- In particular, the flange sealing surfaces must be protected against mechanical and other influences. Do not stack unpacked valves!
- Butterfly valves are supplied in the closed position. They must be stored as delivered.

## 5. Installation in the pipeline

### 5.1 General information

For the installation of valves in a pipeline, the same instructions apply as for the connection of pipes and similar pipeline elements. The following instructions apply additionally to valves. Section 4 must also be observed for transport to the installation site.



The mating flanges must have smooth sealing surfaces, e.g. shape B1 or B2 according to DIN EN 1092-1 or Smooth finish according to ANSI B 16.5. Other flange shapes must be agreed with the manufacturer.



The actuator is adjusted for the operating data specified in the order: The setting of the end stops „OPEN“ and „CLOSED“ must not be changed without the consent of the manufacturer.



When retrofitting an actuator unit, torque, direction of rotation, actuating angle and the setting of the end stops „OPEN“ and „CLOSED“ must be adapted to the valve. Disregarding these precautions means danger for the user and will cause damage to the piping system.

### 5.2 Work steps

- a) It must be ensured that only valves are installed whose pressure class, connection type and dimensions correspond to the operating conditions. See 3.4 Marking of the valve.
- b) Fittings and accessories must be checked for transport damage.
- c) Mating flanges of the pipeline must be aligned and plane-parallel.
- d) Before installation, the valve and pipeline must be cleaned of contamination.
- e) The direction of flow is not arbitrary and corresponds to the specifications given in the order. The specified installation position for the valves from DN 250 upwards is with horizontal damper shaft. Other installation positions must be clarified with the manufacturer.
- f) When installing in a pipeline, the distance between the pipeline ends must be dimensioned so that the seals and the sealing surfaces of the mating flanges are not damaged.  
However, the distance should not be greater than necessary to avoid creating stresses in the pipeline when the pipeline connection is tightened.
- g) Valve must be carefully centered during installation.

### 5.3 Drives and accessories

For valves with actuator, there is a saw cut and a marking (center punch point) on the shaft and on the mounting set to check the disc position at the upper shaft end. In position „CLOSED“ the two markings are in one line.



The instructions of the actuator and accessories manufacturer apply for installation, commissioning and maintenance

Electric drives and accessories must be connected in accordance with the wiring diagram provided separately. Check that the motor is functioning properly and rotating in the correct direction. Operate in closing direction with torque switches (if available). For valves installed in the pipe system without actuator, the following must be observed when retrofitting the actuator at a later stage:



When mounting the actuators, both valve and actuator must be set to „OPEN“ position.



- a) The actuator must be mounted with the valve disc fully open.
- b) Ensure sufficient pretension (contact pressure) in the closed state.
- c) Operating instructions and installation instructions of the actuator manufacturer must be observed.
- d) Full performance of the valve can only be achieved by proper installation of the actuator.

## 6. Pressuring test

When pressure testing the pipeline with the valve installed, observe the following:

- a) Thoroughly flush new piping system first to remove any foreign particles in the system
- b) Open valve: The test pressure must not exceed the value of 1.5 x (PN or PS) (PS = maximum allowable operating pressure)
- c) Closed flap: The test pressure must not exceed the value 1.1 x (PN or PS)

## 7. Operating instructions



Hand lever: The position of the hand lever indicates the position of the valve disc.

Hand lever 90° perpendicular to the pipeline: valve CLOSED

Hand lever parallel to the pipeline: valve OPEN

It is not necessary to use extensions for manual operation, the normal manual forces are sufficient.



The valve must be opened and closed in such a way that pressure surges and/or temperature shocks are avoided. Failure to observe this procedure may result in danger to persons and the pipeline system.



Operation may only be carried out by trained personnel who are authorized to do so.

## 8. Commissioning

Before commissioning the valves, make sure that all points from 1 to 7 have been fully observed.

Before commissioning all valves, make sure that the disc is completely open when starting up the plant to avoid the formation of back pressure at the valve and a large temperature difference between the front and back of the disc. Otherwise, irreparable deformations of the disc might occur.

Closing of the metal-seated valves of leakage rates 1 and 2 can only take place when the temperature-induced expansion of the valve disc and the body is completely finished.

If this is not observed, the valve disc may jam, especially in the case of large temperature differences, which also damage the seal and impair the tightness of the valve.

## 9. Maintenance and relubrication intervals

### 9.1 Maintenance

The stuffing boxes must be retensioned during maintenance work due to settling and material fatigue. Valves must be moved at least 4 to 5 times a year to avoid clamping and immobility of the lever.

### 9.2 Relubrication intervals



All flanged bearing units must be relubricated after approximately 10,000 operating hours.