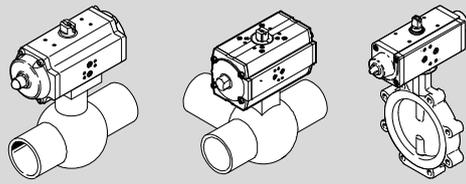


Handling drive units with semi-rotary drives



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Additional documentation
Original instructions

8067874
1703b
[8067876]

For all available product documentation → www.festo.com/pk

1 Application

This additional documentation contains important information on handling pre-assembled drive units consisting of a semi-rotary drive and a process valve.

2 Requirements for product use

- Comply with all applicable national and international regulations.
- Note the local regulations regarding waste management and environmental issues.
- Make sure that the user documentation for the drive unit's components is available in full:
 - Operating instructions
 - Assembly instructions
 - Any additional documentation
- Comply with the documentation for the product in question. In particular, comply with the safety instructions and the specifications on intended use.

3 Transport

- Treat the transported goods with care and protect them against mechanical strains (e.g. impact) or other harmful effects.
- Calculate the total weight of the drive unit by adding up the weights of the individual components. To do this, see the specifications in the documentation for the specific components.
- Make sure that the load handling equipment (carrying straps, crane, pulleys) and the process valve's flange are suitable for lifting the load.



Warning

Danger of crushing! Some product versions of the drive units are very heavy. Body parts could be crushed or severed if the product falls or overturns.

- Use suitable load handling equipment and means of transport for products that weigh more than 25 kg.
- Mount the product completely before removing the load handling equipment.
- Whenever possible, transport the product to the installation location in its original packaging. This way, the product is better protected against unintentional, smaller mechanical loads, depending on the packaging or product version.
- If possible, transport goods weighing more than 25 kg to the installation location on a pallet.



Warning

Danger of crushing! Exposed, movable parts on the flanged joint between the drive and process valve can pinch fingers and cause injuries.

- Do not place your hands near the flanged joint.
- Make sure that nobody comes into range of the movable parts, e.g. with their hair or clothing.
- Wear suitable personal protective equipment (PPE), such as safety boots, protective gloves, etc.

4 Installation, commissioning, operation, maintenance, disassembly



Note

Installation, commissioning and disassembly, as well as maintenance, care and repairs, may only be carried out by qualified specialists, in accordance with the operating instructions. For detailed information about the components, see the specific product's user documentation.

- 1 Carrying strap 1
- 2 Carrying strap 2
- 3 Flange
- 4 Process valve (example: ball valve)
- 5 Semi-rotary drive (example: DRD)

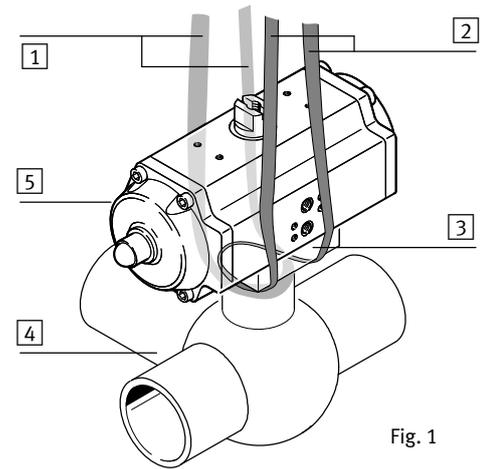


Fig. 1

1. If possible, only once at installation location: remove all packaging with the exception of the self-adhesive labels on the supply ports (these protect against contamination). It is intended that the packaging be recycled on the basis of its constituent materials (exception: oiled paper = general waste).
2. Guide two carrying straps [1](#), [2](#) under either side of the flange mounting [3](#) of the process valve [4](#) to form a sling (→ Fig. 1).
3. Carefully lift the drive unit with a crane or a pulley.
4. Move the drive unit to its mounting position.



Warning

Danger of crushing! Unintentional movements of the drive during mounting when pressurised can cause serious injuries.

- Only connect the drive unit to the power supply and start it up once it has been fully mounted.

5. Install the drive unit in the following sequence:
 - a) Mechanical installation – mount the drive unit in full.
 - b) Pneumatic installation.
 - c) Electrical installation. Ensure it is earthed correctly.
6. Once fully mounted: remove the load handling equipment.
7. Commission the drive unit components as per their operating instructions.



Warning

Danger of crushing! Exposed, movable parts in the process valve's effective range can cause serious injuries if the product is operated when not fully mounted.

- Only operate the product when it is completely mounted and once all the protective measures have been initiated.
- Make sure that nobody comes into range of the movable parts, e.g. coupling.
- Wear suitable personal protective equipment (PPE).

When disassembling, make sure to note the following sequence:

1. For butterfly valves: close the process valve before disassembly. If a butterfly valve is open, a shut-off element can project into a pipe and block disassembly.
2. Switch off the electric power supply.
3. Switch off the compressed air supply.
4. Drain all the pipes and disconnect all cables.
5. Disassemble the gate valve unit in reverse order to the installation.

During maintenance work, also note the following:

- Only ever carry out maintenance work when the product is disconnected from the power, pressureless and free of media. Disconnect all cables.