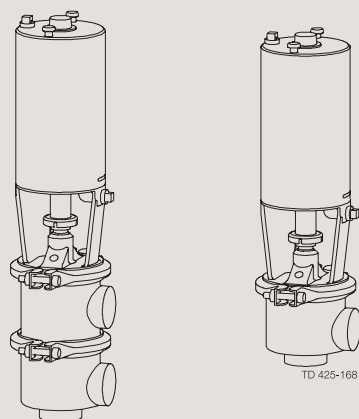




# Instruction Manual

## Unique Single Seat Valve (DN125-150)



ESE02590-EN2

2015-04

Original manual



*The information herein is correct at the time of issue but may be subject to change without prior notice*

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# 1 Declaration of Conformity

Revision of Declaration of Conformity 2009-12-29

The Designated Company

Alfa Laval Kolding A/S

Company Name

Albuen 31, DK-6000 Kolding, Denmark

Address

+45 79 32 22 00

Phone No.

hereby declare that

Valve

Designation

SRC PN10

Type

is in conformity with the following directive with amendments:

- Machinery Directive 2006/42/EC
- Regulation (EC) No 1935/2004
- Pressure Equipment Directive 97/23/EC category 1 and subjected to assessment procedure Module A.

The person authorised to compile the technical file is the signer of this document

QHSE Manager, Quality, Health and safety & Environment

Title

Annie Dahl

Name

Kolding

Place

2013-12-03

Date



Signature



---

*Unsafe practices and other important information are emphasized in this manual.  
Warnings are emphasized by means of special signs.*

---

### 2.1 Important information

---

**Always read the manual before using the valve!**

**WARNING**

Indicates that special procedures must be followed to avoid serious personal injury.

**CAUTION**

Indicates that special procedures must be followed to avoid damage to the valve.

**NOTE**

Indicates important information to simplify or clarify procedures.

---

### 2.2 Warning signs

---

General warning:



Caustic agents:



## 2 Safety

---

*All warnings in the manual are summarized on this page.*

*Pay special attention to the instructions below so that severe personal injury and/or damage to the valve are avoided.*

---

### 2.3 Safety precautions

---

#### Installation:

**Always** observe the technical data (see chapter 6 Technical data)

**Always** release compressed air after use.



#### Operation:

**Always** observe the technical data (see chapter 6 Technical data)

**Never** touch the valve or the pipelines when processing hot liquids or when sterilizing



**Always** handle lye and acid with great care



#### Maintenance:

- **Always** observe the technical data (see chapter 6 Technical data)

- **Always** release compressed air after use

- The valve must **Never** be hot when servicing it

- The valve/actuator and the pipelines must never be pressurised when servicing the valve/ actuator

- **Never** stick your fingers through the valve ports if the valve is supplied with compressed air.



#### Transportation:

**Always** secure that compressed air is released

**Always** secure that all connections is disconnected before attempt to remove the valve from the installation

**Always** drain liquid out of valves before transportation

**Always** used predesigned lifting points if defined

**Always** secure sufficient fixing of the valve during transportation - if special designed packaging material is available it must be used

---

*The instruction manual is part of the delivery.*

*Study the instructions carefully.*

*The valve is supplied as separate parts as standard (for welding).*

*The valve is assembled before delivery, if it is supplied with fittings.*

### 3.1 Unpacking/delivery/general installation

#### Unpacking/delivery

##### Step 1

##### CAUTION

Alfa Laval cannot be held responsible for incorrect unpacking.

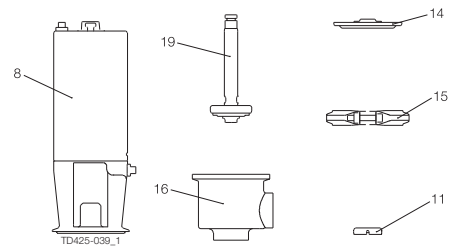
##### Check the delivery:

1. Complete valve, stop valve or change-over valve (see step 2 and 3)
2. Delivery note
3. Instruction Manual

##### Step 2

##### Stop valve:

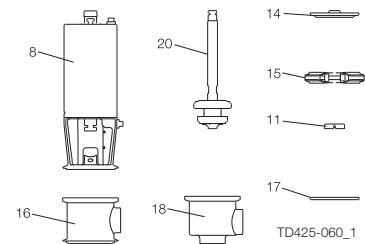
1. Complete actuator with bonnet (8)
2. Clip assembly (11)
3. Lip seal (14)
4. Clamp (15)
5. Valve plug (19)
6. Valve body (16)



##### Step 3

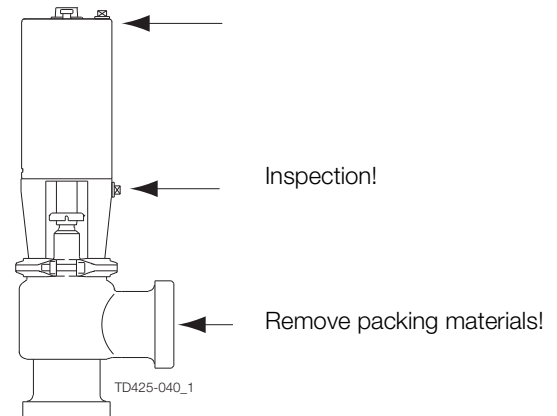
##### Change-over valve:

1. Complete actuator with bonnet (8)
2. Clip assembly (11)
3. Lip seal (14)
4. Two clamps (15)
5. Valve plug (20)
6. Two valve bodies (16, 18)
7. Valve body seal ring (17)



##### Step 4

- Remove possible packing materials from the valve/valve parts
- Inspect the valve/valve parts for visible transport damages
- Avoid damaging the valve/valve parts



### 3 Installation

The valve sizes DN125-150 are very heavy.

Therefore Alfa Laval recommends manufacturing and usage of auxiliary equipment. A proposal is given below.

Please note that the auxiliary equipment cannot be supplied by Alfa Laval.

The items refer to the parts list and service kits section.

#### 3.2 Recommended auxiliary equipment

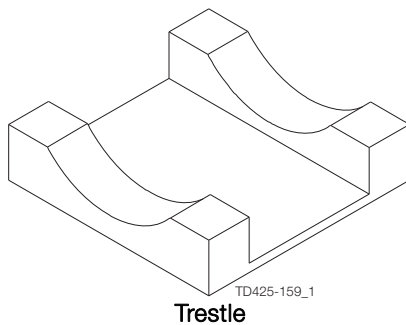
##### Step 1

##### For lifting the valve

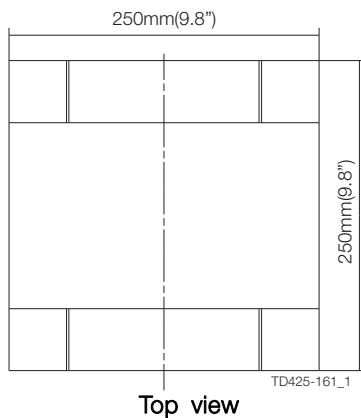
Screw an eye bolt (6 mm) (1/4") into top pin (23). Using a small hook crane or similar, lift the valve by the eye bolt.

##### Trestle:

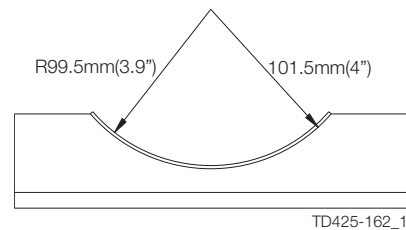
- The purpose of the trestle is to support the valve during dismantling and reassembly.
- The trestle is made of a base plate, two support plates, two rubber linings and four bolts.
- The rubber linings are attached to the support plates so that the valve/actuator will rest on these.
- To prevent the valve from turning during dismantling and assembly the trestle must be made with the correct measurements (see below). All measurements are in mm.



Side view



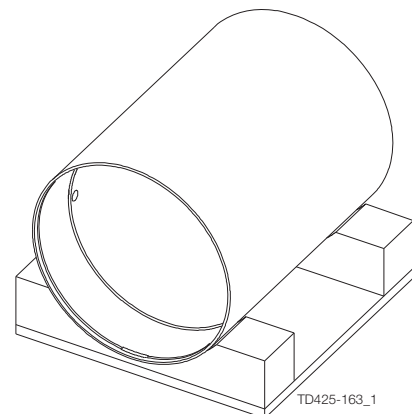
Top view



End view

##### Step 2

1. Place the valve in the trestle.
2. Make sure that the actuator rests on the rubber linings on the trestle support plates.
3. Dismantle/assemble the valve.





Study the instructions carefully and pay special attention to the warnings!  
 The valve has welding ends as standard but can also be supplied with fittings.  
 NO = Normally open. NC = Normally closed. A/A = Air/air activated.

### 3.3 General installation

#### Step 1



**Always** read the technical data thoroughly.  
 See chapter 6 Technical data



**Always** release compressed air after use.

#### CAUTION

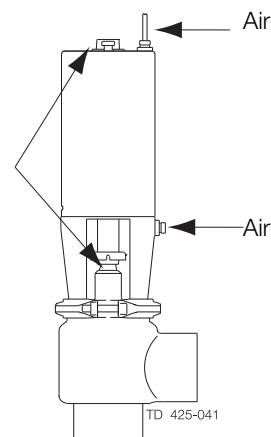
Alfa Laval cannot be held responsible for incorrect installation.

#### Step 2



**Never** touch the clip assembly or the actuator piston rod if the actuator is supplied with compressed air (see the warning label).

Moving parts!

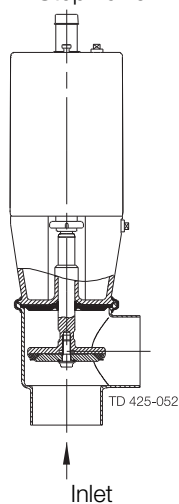


#### Step 3

It is recommended to install the valve so that:

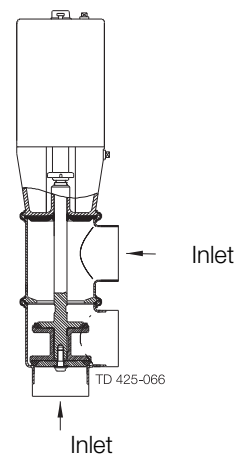
- The actuator is not turned downwards as the valve will then not be drained.
- The flow is against the closing direction to avoid water hammer.

Stop valve



Change-over valve

Avoid water hammer!



Inlet

### 3 Installation

*Study the instructions carefully and pay special attention to the warnings!*

*The valve has welding ends as standard but can also be supplied with fittings.*

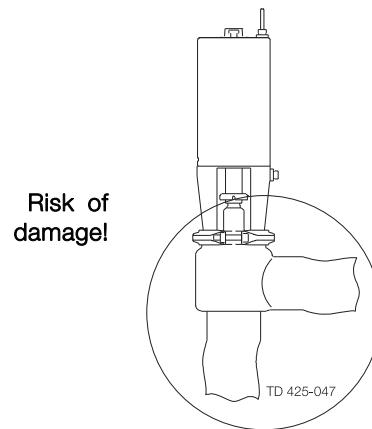
*NO = Normally open. NC = Normally closed. A/A = Air/air activated.*

#### Step 4

Avoid stressing the valve.

**Pay special attention to:**

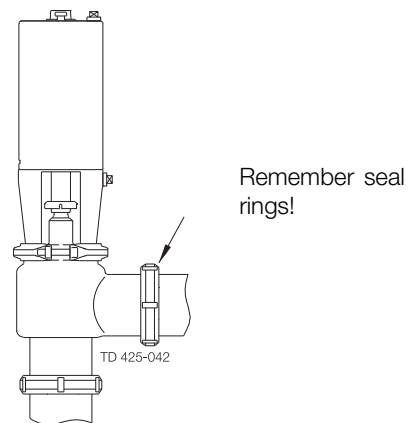
- Vibrations
- Thermal expansion of the tubes
- Excessive welding
- Overloading of the pipelines



#### Step 5

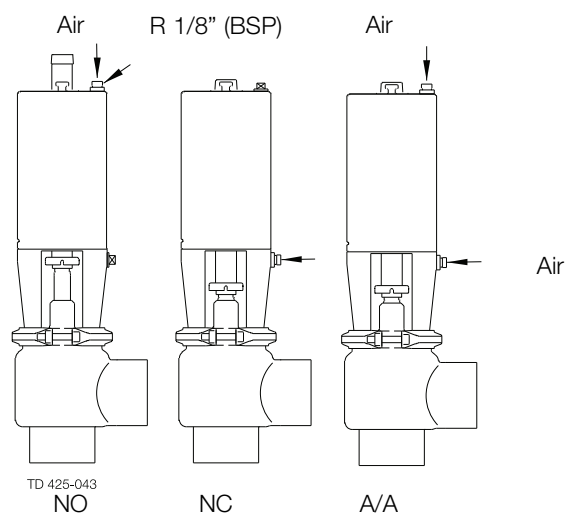
Fittings:

Ensure that the connections are tight.



#### Step 6

Air connection:

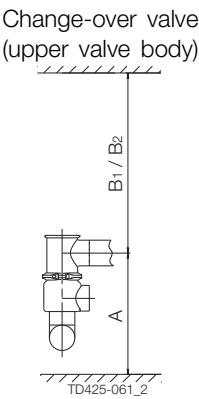
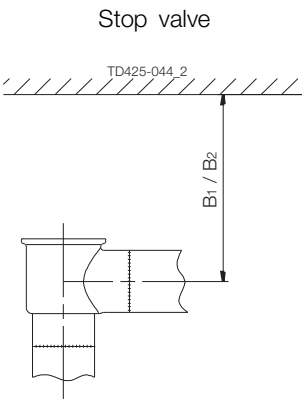


Study the instructions carefully.  
The valve is supplied as separate parts to facilitate the welding.  
The items refer to the parts list and service kits section. Check the valve for smooth operation after welding.  
NO = Normally open. NC = Normally closed. A/A = Air/air activated.

3.4 Welding

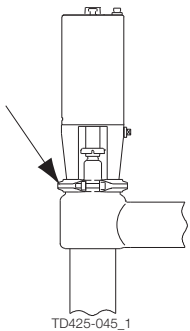
**Step 1**  
**Always** weld the valve so that the valve body seal ring can be replaced (change-over valve). Maintain the minimum clearances (A and B) so that the lower valve body and plug (change-over valve) and the actuator with the internal parts can be removed.

Valve size	A (mm) (inch)	B <sub>1</sub> (mm) (inch)	B <sub>2</sub> (mm) (inch)
DN125	580 (22.8)	730 (28.7)	920 (36.2)
DN150	640 (25.1)	730 (28.7)	920 (36.2)



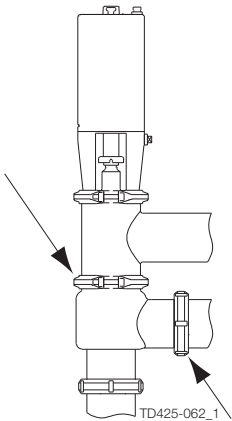
**Step 2**  
**Stop valve**  
Assemble the valve in accordance with steps 1-5 in section 4.3  
Recommended cleaning  
**Pay special attention to the warnings!**

Fit seal ring (17) correctly!



**Step 3**  
**Change-over valve**  
Assemble the valve in accordance with step 1-6 in section 4.3  
Recommended cleaning  
**Pay special attention to the warnings!**

Fit seal ring (17) correctly!



Remember seal rings!

### 3 Installation

---

*Study the instructions carefully.*

*The valve is supplied as separate parts to facilitate the welding.*

*The items refer to the parts list and service kits section. Check the valve for smooth operation after welding.*

*NO = Normally open. NC = Normally closed. A/A = Air/air activated.*

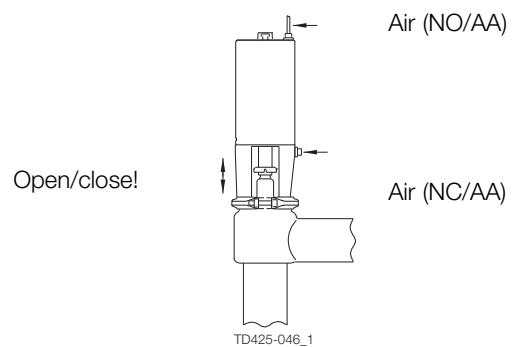
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#### Step 4

##### Pre-use check

1. Supply compressed air to the actuator.
2. Open and close the valve several times to ensure that it operates smoothly.

**Pay special attention to the warnings!**



*Study the instructions carefully and pay special attention to the warnings!*  
*Ensure that the valve operates smoothly. The items refer to the parts list and service kits section.*  
 NO = Normally open. NC = Normally closed. A/A = Air/air activated.

### 4.1 Operation

#### Step 1

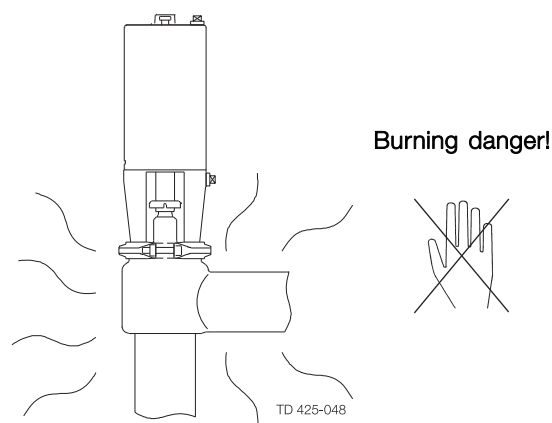
- Always read the technical data thoroughly (see chapter 6 Technical data)
- Always release compressed air after use.

#### CAUTION!

Alfa Laval cannot be held responsible for incorrect operation.

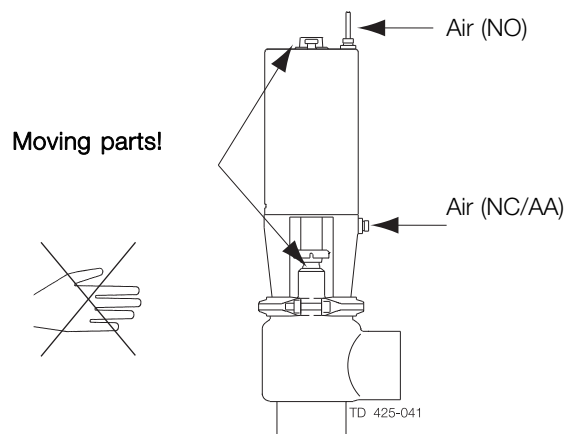
#### Step 2

**Never** touch the valve or the pipelines when processing hot liquids or when sterilizing.



#### Step 3

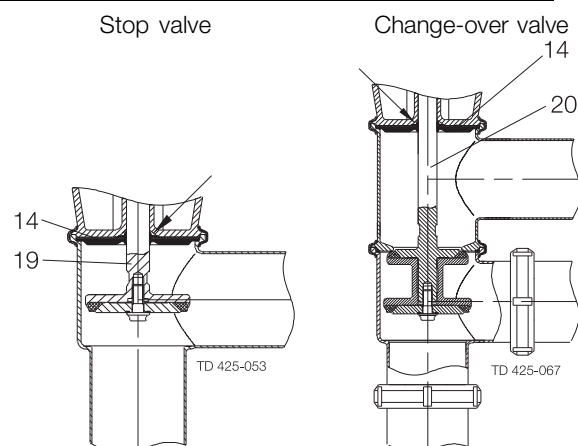
Never touch the clip assembly or the actuator piston rod if the actuator is supplied with compressed air.



#### Step 4

##### Lubrication of valve:

1. Ensure smooth movement between lip seal (14) and plug stem (19, 20).
2. Lubricate with silicone oil/grease if necessary.



Lubricate if necessary!  
 (see section 5.1 General maintenance)

## 4 Operation

*Study the instructions carefully and pay special attention to the warnings!*

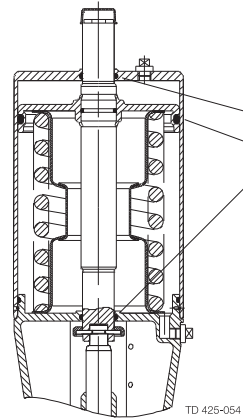
*Ensure that the valve operates smoothly. The items refer to the parts list and service kits section.*

*NO = Normally open. NC = Normally closed. A/A = Air/air activated.*

### Step 5

#### Lubrication of actuator

1. Ensure smooth movement of the actuator (the actuator is lubricated before delivery).
2. Lubricate with oil/grease if necessary.



**Lubricate if necessary!**  
(see section 5.1 General maintenance)

Pay attention to possible faults.

Study the instructions carefully.

The items refer to the parts list and service kits section

## 4.2 Fault finding

Problem	Cause/result	Repair
The valve plug jerks	The lealings seize	Lubricate: <ul style="list-style-type: none"> <li>- O-rings (2)</li> <li>- O-ring (5) and the inside of cylinder (3)</li> <li>- Lip seal (14)</li> </ul>
Product leakage at stem and/or clamp	<ul style="list-style-type: none"> <li>- Worn/product affected lip seal (14) and/or seal ring (17)</li> </ul>	<ul style="list-style-type: none"> <li>- Replace the seal</li> <li>- Replace with a seal of a different rubber grade</li> </ul>
Product leakage (closed valve)	<ul style="list-style-type: none"> <li>- Worn/product affected</li> <li>- Loose plug parts (vibrations)</li> <li>- Product deposits on the seat and/or plug</li> </ul>	<ul style="list-style-type: none"> <li>- Replace the seal ring</li> <li>- Replace with a seal of a different rubber grade</li> <li>- Tighten the loose parts</li> <li>- Frequent cleaning</li> </ul>
Product leakage (too high pressure or too small actuator)	<ul style="list-style-type: none"> <li>- Worn actuator O-rings</li> <li>- Too small actuator or actuator spring</li> </ul>	<ul style="list-style-type: none"> <li>- Replace the O-rings</li> <li>- Replace with a larger actuator (for valve sizes DN/OD38-63.5 mm/ DN40-65)</li> <li>- Fit a stronger spring (for valve sizes DN/OD38-63.5 mm/ DN40-65)</li> <li>- Use auxiliary air on the spring side (NOT-element)</li> </ul>
Water hammer	The flow direction is the same as the closing direction	<ul style="list-style-type: none"> <li>- The flow direction should be against the closing direction</li> <li>- Fit a damper on the valve (optional extra)</li> <li>- Use auxiliary air on the spring side (NOT-element)</li> </ul>
The valve does not open/close	<ul style="list-style-type: none"> <li>- Faulty clip assembly (11)</li> <li>- The pressure on the plug plug is too high</li> </ul>	<ul style="list-style-type: none"> <li>- Replace the clip assembly</li> <li>- Reduce the pressure plug is too high</li> <li>- Fit stronger spring/larger actuator (for valve sizes DN/OD38-63.5 mm/ DN40-65)</li> </ul>

## 4 Operation

The valve is designed for cleaning in place (CIP). CIP = Cleaning In Place.  
Study the instructions carefully and pay special attention to the warnings!  
NaOH = Caustic Soda.  
HNO<sub>3</sub> = Nitric acid.

### 4.3 Recommended cleaning

#### Step 1



**Always** handle lye and acid with great care.

**Caustic danger!**



**Always** use  
rubber gloves!



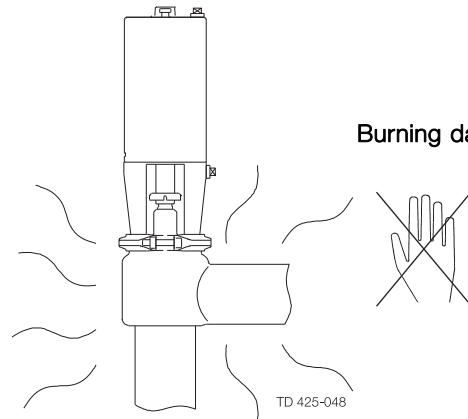
**Always** use  
protective goggles!

#### Step 2



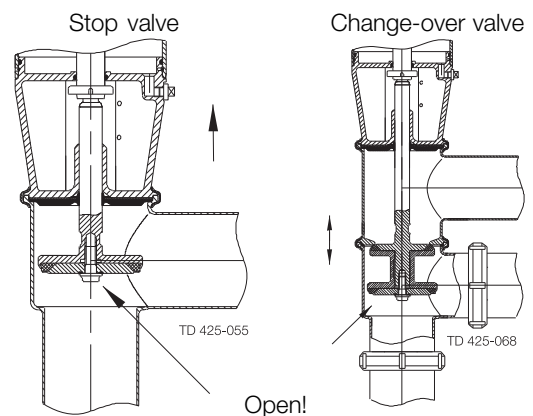
**Never** touch the valve or the pipelines when sterilising.

**Burning danger!**



#### Step 3

Clean the plug and the seats correctly.  
**Pay special attention to the warnings!**  
Lift and lower valve plug momentarily!



#### Step 4

**Examples of cleaning agents:**

Use clean water, free from chlorides.

1. 1% by weight NaOH at 70° (158° F).

1 kg (2.2 lb) NaOH	+	100 l (26.4 gal) water	=	Cleaning agent.
--------------------------	---	------------------------------	---	-----------------

2. 0.5% by weight HNO<sub>3</sub> at 70° C

0.7 l (0.2 gal) 53% HNO <sub>3</sub>	+	100 l (26.4 gal) water	=	Cleaning agent.
--	---	------------------------------	---	-----------------

2.2 l (0.6 gal) 33% NaOH	+	100 l (26.4 gal) water	=	Cleaning agent.
--------------------------------	---	------------------------------	---	-----------------



*The valve is designed for cleaning in place (CIP). CIP = Cleaning In Place.  
Study the instructions carefully and pay special attention to the warnings!  
NaOH = Caustic Soda.  
HNO<sub>3</sub> = Nitric acid.*

---

### Step 5

1. Avoid excessive concentration of the cleaning agent.
  2. Adjust the cleaning flow to the process.
  3. **Always** rinse well with clean water after the cleaning.
- 

### Step 6

#### NOTE

The cleaning agents must be stored/disposed of in accordance with current regulations/directives.

---

## 5 Maintenance

Maintain the valve regularly.

Study the instructions carefully and pay special attention to the warnings!

Always keep spare rubber seals and lip seals in stock.

### 5.1 General maintenance

#### Step 1



**Always** read the technical data thoroughly.  
See chapter 6 Technical data



**Always** release compressed air after use.

#### NOTE

All scrap must be stored/discharged in accordance with current rules/directives.

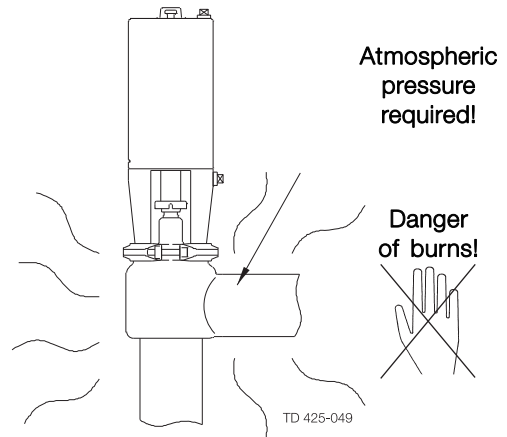
#### Step 2



**Never** service the valve when it is hot.



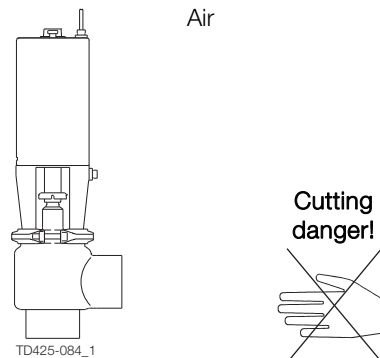
**Never** service the valve with valve and pipelines under pressure.



#### Step 3



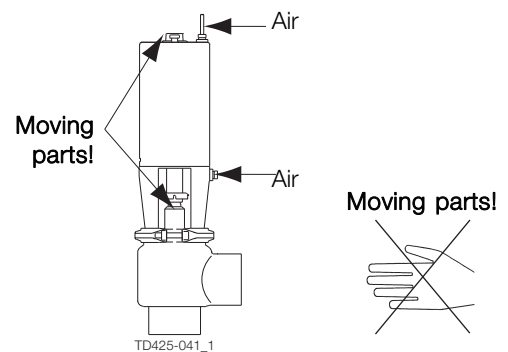
**Never** stick your fingers through the valve ports if the actuator is supplied with compressed air.



#### Step 4



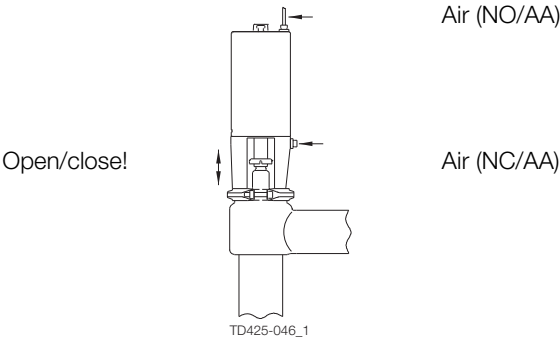
**Never** touch the moving parts if the actuator is supplied with compressed air.



Maintain the valve regularly.  
Study the instructions carefully and pay special attention to the warnings!  
Always keep spare rubber seals and lip seals in stock.

	Product rubber seals	Valve lip seal	Actuator rubber seals
Preventive maintenance	Replace after 12 months depending on working conditions	Replace when replacing the rubber seals	Replace after 5 years
Maintenance after leakage (leakage normally starts slowly)	Replace at the end of the day	Replace when replacing the rubber seals	Replace when possible
Planned maintenance	<div>- Regular inspection for leakage and smooth operation</div> <div>- Keep a record of the actuator</div> <div>- Use the statistics for planning of inspections</div> <div>Replace after leakage</div>		<div>- Regular inspection for leakage and smooth operation</div> <div>- Keep a record of the actuator</div> <div>- Use the statistics for planning of inspections</div> <div>Replace after leakage</div>
Lubrication (USDA H1 approved oil/grease)	Before fitting Silicone oil or silicone grease	Before fitting Silicone oil or silicone grease	Before fitting Oil or grease

- Pre-use check:**
1. Supply compressed air to the actuator.
  2. Open and close the valve several times to ensure that it operates smoothly.
- Pay special attention to the warnings!**



**Ordering spare parts**  
Recommended spare: Service kits (see chapter 6 Technical data).

## 5 Maintenance

Study the instructions carefully.

The items refer to the parts list and service kits section.

Handle scrap correctly.

NC = Normally closed. NO = Normally open. A/A = Air/air activated.

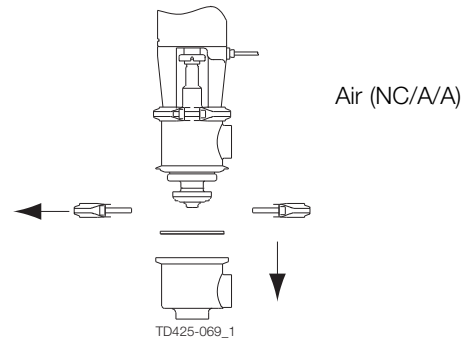
### 5.2 Dismantling of valve

#### Step 1

##### Change-over valve:

1. Supply compressed air to the actuator (only NC)
2. Loosen and remove lower clamp (15)
3. Release compressed air (18)
4. Pull out seal ring (17)
5. Release compressed air

**Pay special attention to the warnings!**

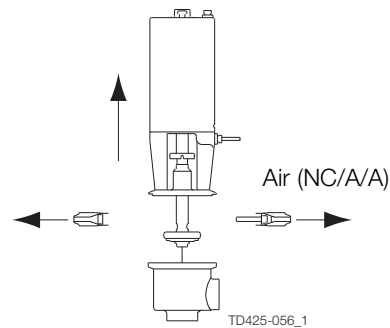


#### Step 2

##### Stop valve:

1. Supply compressed air to the actuator (only NC)
2. Loosen and remove clamp (15)
3. Lift out the actuator
4. Release compressed air

**Pay special attention to the warnings!**

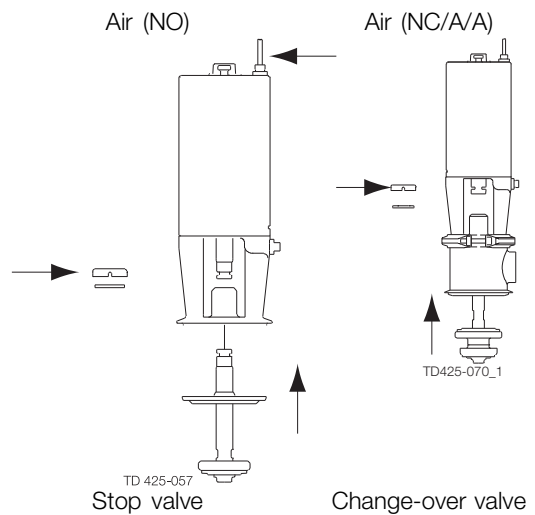


#### Step 3

##### Stop valve:

1. Supply compressed air to the actuator (only NC)
2. Remove clip assembly (11) by using plugs  
(For sizes Dn125-150: Unscrew valve plug(19,20))
3. Remove valve plug (19,20)
4. Release compressed air

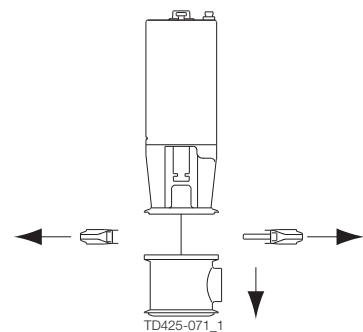
**Pay special attention to the warnings!**



#### Step 4

##### Change-over valve:

1. Remove upper clamp (15)
2. Remove upper valve body (16)



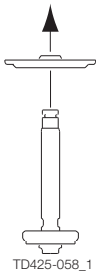
Study the instructions carefully.  
The items refer to the parts list and service kits section.  
Handle scrap correctly.  
NC = Normally closed. NO = Normally open. A/A = Air/air activated.

Step 5

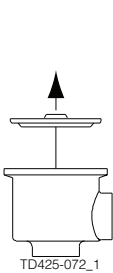
Stop valve:

Remove lip seal (14)  
(For sizes DN125-150: Remove lip seal (14) and guide ring (27)).

Stop valve



Change-over valve

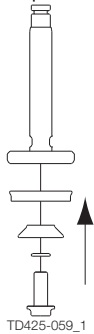


Step 6

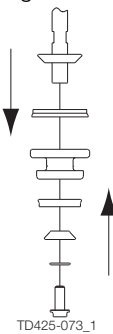
Stop valve:

1. Remove screw (19h, 20h)
2. Dismantle the complete valve plug

Stop valve



Change-over valve



## 5 Maintenance

*Study the instructions carefully.*

*The items refer to the parts list and service kits section.*

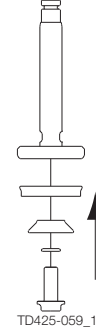
*Lubricate the rubber seals and the lip seal before fitting them.*

### 5.3 Assembly of valve

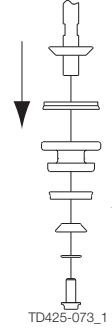
#### Step 1

1. Assemble the complete valve plug
2. Fix screw (19h, 20h) by using loctite or something similar

Stop valve



Change-over valve

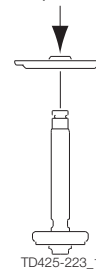


#### Step 2

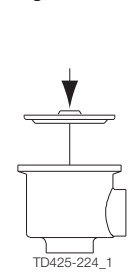
Fit lip seal (14)

(For sizes DN125-150: Fit guide ring (27) and lip seal (14))

Stop valve



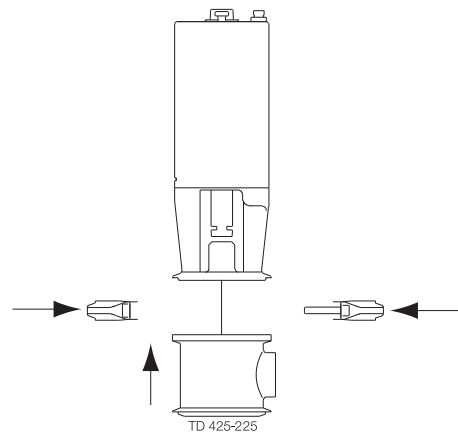
Change-over valve



#### Step 3

**Change-over valve:**

1. Assemble upper valve body (16) and the actuator
2. Fit and tighten upper clamp (15)



*Study the instructions carefully.*

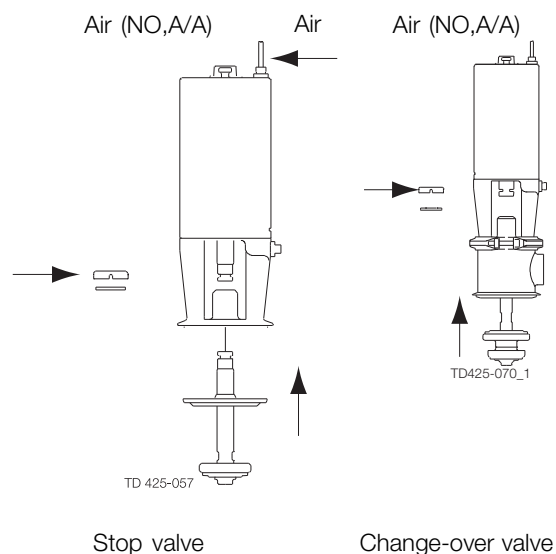
*The items refer to the parts list and service kits section.*

*Lubricate the rubber seals and the lip seal before fitting them.*

### Step 4

1. Fit the plastic ring of clip assembly (11) on the actuator piston rod
2. Supply compressed air to the actuator (Only NO)
3. Fit valve plug (19, 20)
4. Fit and assemble clip assembly (11) by using pliers. (For sizes DN125-150: Screw together valve plug (20) and piston (6). Fix thread by using Loctite or something similar)
5. Release compressed air.

**Pay special attention to the warnings!**

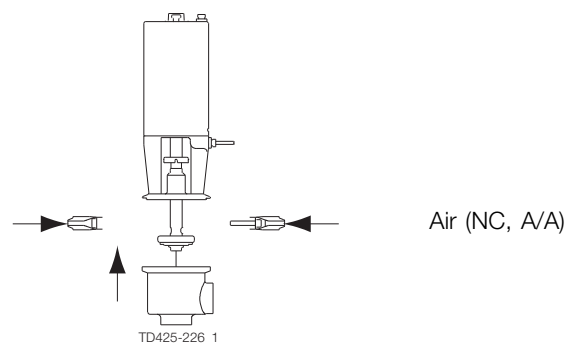


### Step 5

#### Stop valve

1. Supply compressed air to the actuator (only NC)
2. Fit the actuator
3. Fit and tighten clamp (15)
4. Release compressed air.

**Pay special attention to the warnings!**

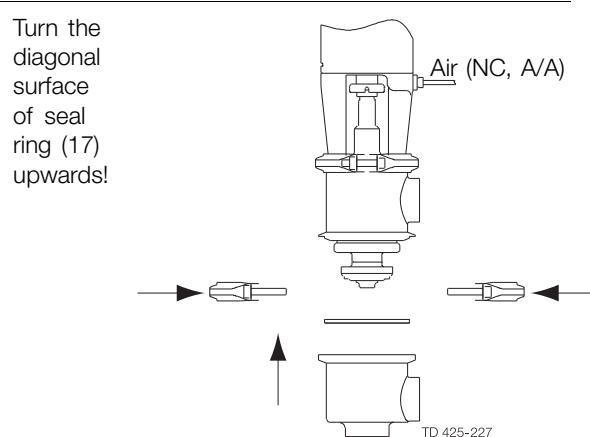


### Step 6

#### Change-over valve:

1. Fit seal ring (17) correctly in lower valve body (18)
2. Supply compressed air to the actuator (only NC)
3. Assemble lower and upper valve bodies (16, 18)
4. Fit and tighten lower clamp (15)
5. Release compressed air

**Pay special attention to the warnings!**



## 5 Maintenance

*Study the instructions carefully.*

*The items refer to the parts list and service kits section.*

*Handle scrap correctly. NO = Normally open. NC = Normally closed. A/A = Air/air activated.*

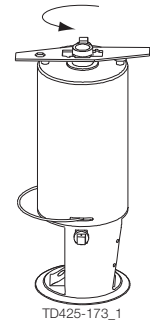
*Service tool: See Spare Parts.*

### 5.4 Dismantling of actuator

#### Step 1

1. Rotate cylinder (3)
2. Remove lock wire (4)

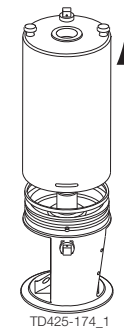
Rotate with the  
service tool!



#### Step 2

1. Remove cylinder (3)
2. Remove O-rings (2, 7) from bonnet (8) and cylinder (3)

(For sizes DN125-150 also remove O-ring (24) and guide rings (21, 25))

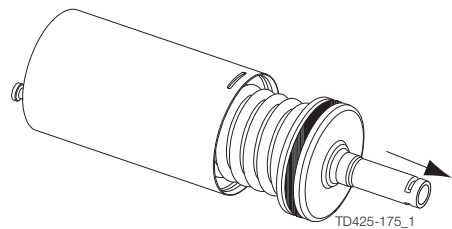


#### Step 3

1. Remove piston (6) and spring assembly (10)
2. Remove O-ring (5) from the piston. (For sizes DN125-150 also remove guide ring (22) and top pin (23))

#### NOTE!

The A/A actuator has no spring assembly.





Study the instructions carefully.

The items refer to the parts list and service kits section. Lubricate the rubber seals before fitting them.

A larger actuator is available for valve sizes DN/OD38-63.5 mm. The spring assembly can be replaced by a stronger one.  
A/A = Air/air activated.

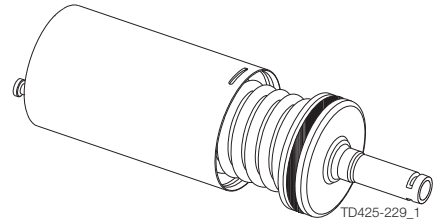
### 5.5 Assembly of actuator

#### Step 1

1. Remove piston (6) and spring assembly (10)
2. Remove O-ring (5) from the piston. (also remove guide ring (22) and top pin (23))

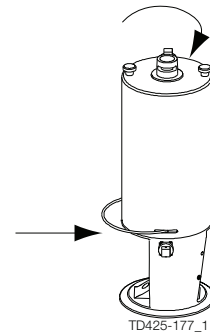
#### NOTE!

The A/A actuator has no spring assembly.



#### Step 2

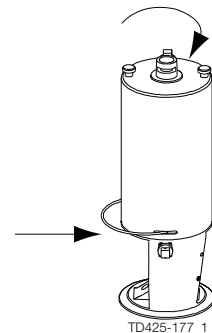
1. Fit O-rings (2, 7) in bonnet (8) and cylinder (3). (also fit O-ring (24) and guide rings (21, 25))
2. Fit the cylinder



#### Step 3

1. Fit lock wire (4) through the slot in cylinder (3) into the hole in bonnet (8)
2. Rotate the cylinder 360° (see step 4)

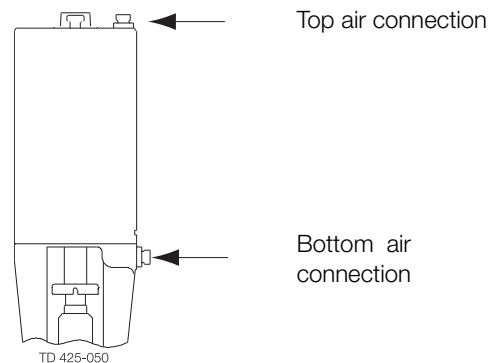
Rotate by hand or  
with the service tool!



#### Step 4

#### NOTE!

It is recommended to rotate cylinder (3) further 180° in relation to bonnet (8) so that the top and bottom air connections are fixed on the same side.



## 6 Technical data

*It is important to observe the technical data during installation, operation and maintenance.  
Inform the personnel about the technical data.  
NO = Normally open. NC = Normally closed.*

### 6.1 Technical data

The valve is remote-controlled by means of compressed air. It has few and simple moveable parts which results in a very reliable valve and low maintenance cost.

Standard Design The Unique Single Seat DN125 and DN150 Valves come in a one or two body configuration. The actuator is connected to the valve body by means of clamp rings.

Data - valve/actuator	
Max. product pressure	1000 kPa (10 bar) (145 psi)
Min. product pressure	Full vacuum
Temperature range, standard lip seal	-10°C to + 100°C (14° F to 212°F) (EPDM)
Temperature range, special lip seal	-10°C to + 140°C (14° F to 284°F) (EPDM)
Air pressure, actuator - sizes DN125-150	600 to 800 kPa (6 to 8 bar) (87 to 116 psi)
Materials - valve/actuator	
Product wetted steel parts	Acid-resistant steel AISI 316L
Finish	Semi bright
Other steel parts	Stainless steel AISI 304
Plug stem - sizes DN125-150	AISI 316L with hard chrome plated stem surface
Product wetted seals	EPDM (standard)
Other seals	Nitrile (NBR)
Alternative product wetted seals	Nitrile (NBR) and Fluorinated rubber (FPM), PTFE/FEP

#### Weight (kg)

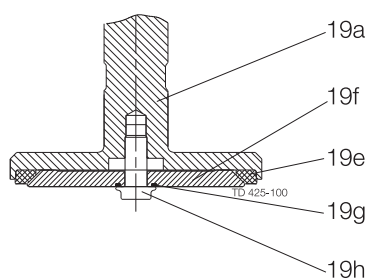
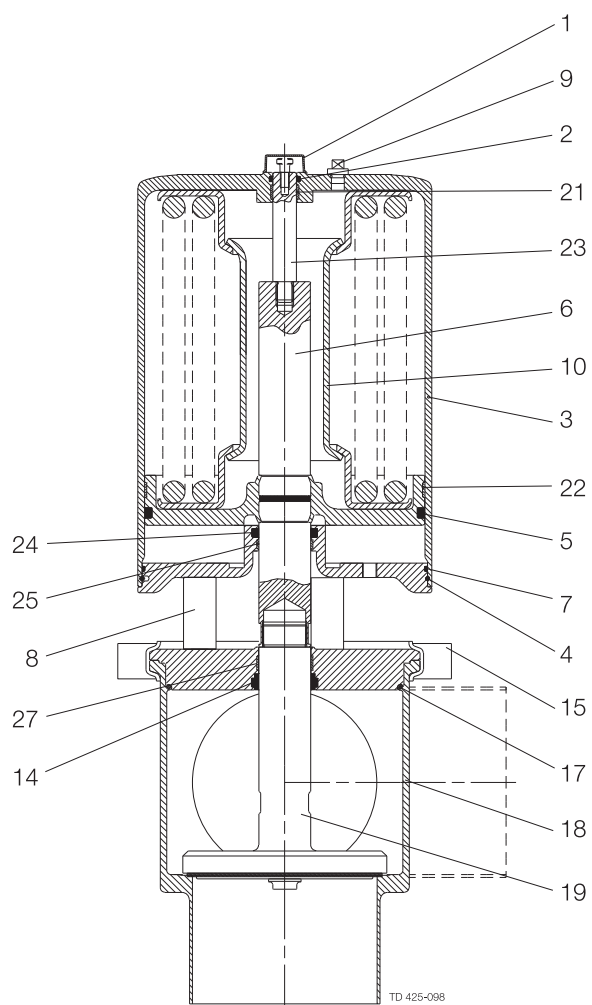
Nominal Size	DIN/DN			
	125 NC	125 NO	150 NC	150 NO
Weight (kg) - Shut-off valve	40.3	40.3	40.9	40.9
Weight (kg) - Change-over valve	50	50	51.3	51.3

#### Noise

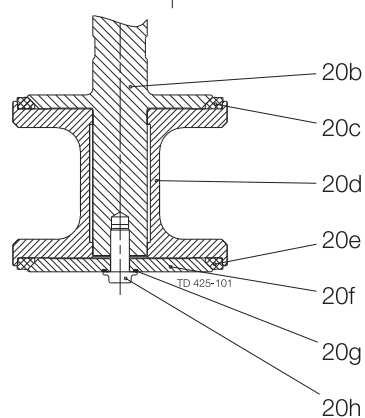
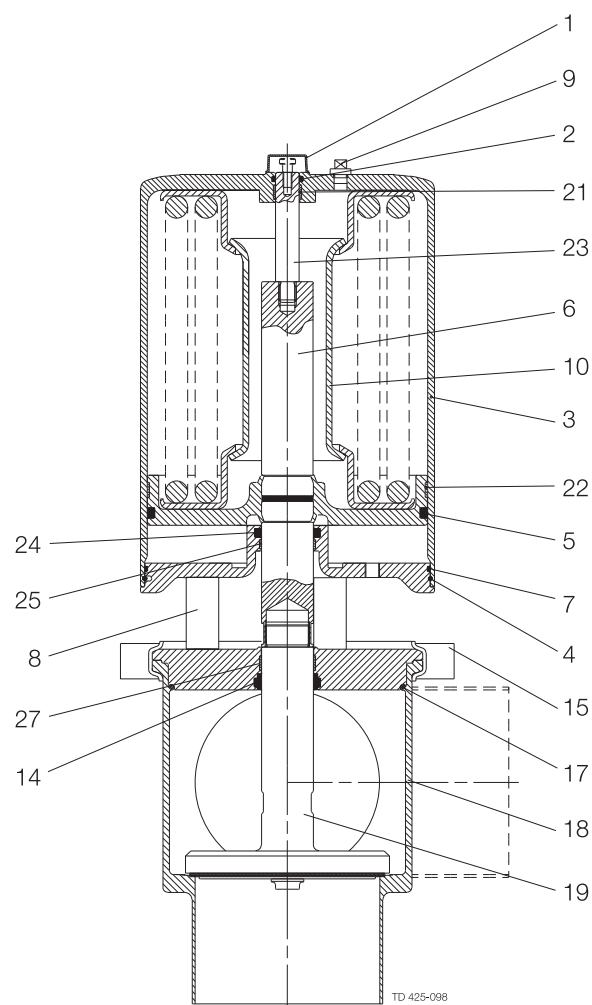
One meter away from - and 1.6 meter above the exhaust the noise level of a valve actuator will be approximately 77db(A) without noise damper and approximately 72 db(A) with damper - Measured at 7 bars air-pressure.

*It is important to observe the technical data during installation, operation and maintenance.  
Inform the personnel about the technical data.  
NO = Normally open. NC = Normally closed.*

## 7.1 Drawings



DN125-150 Stop Valve,  
see section 6.6



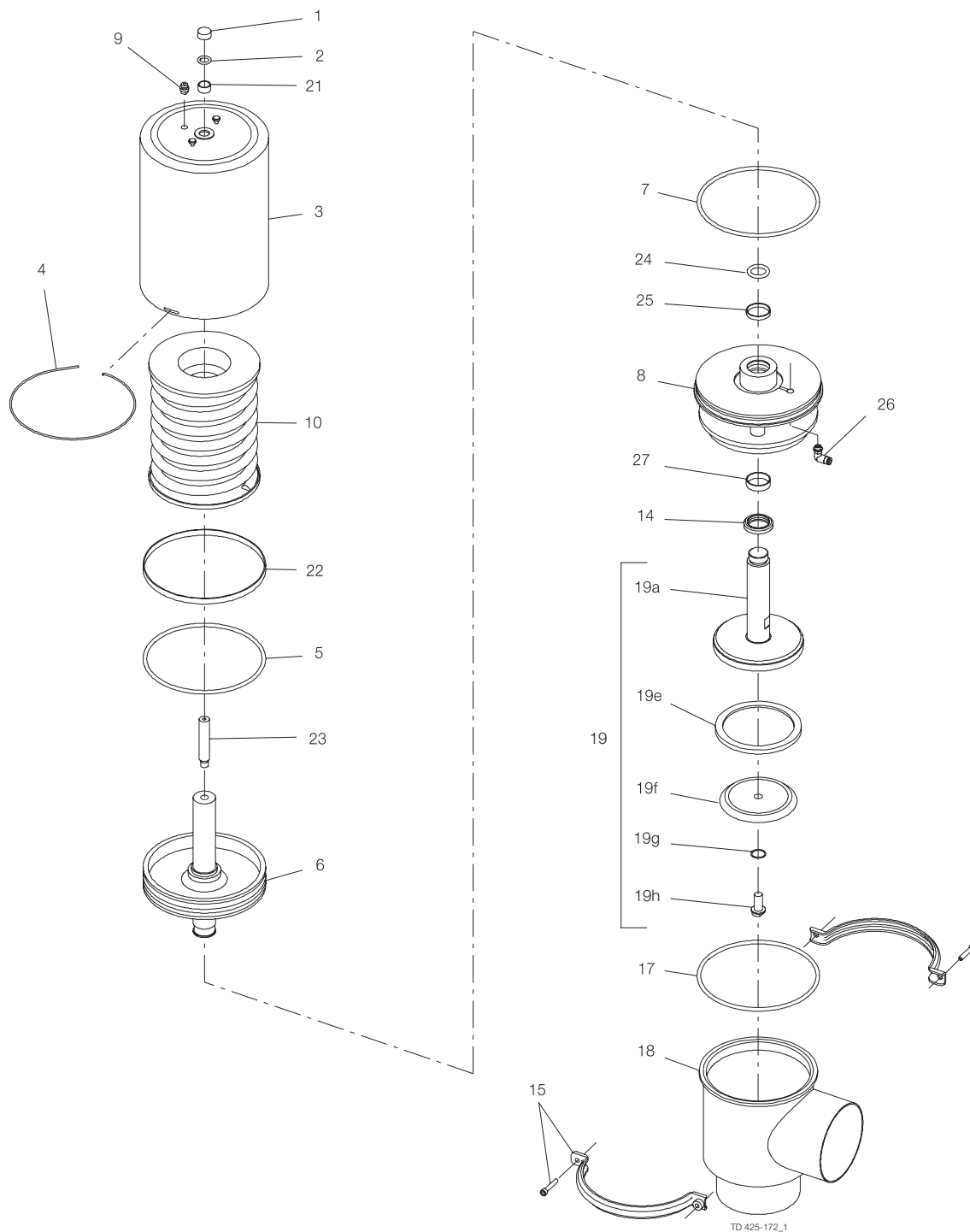
DN125-150 Change-over Valve,  
see section 6.7

## 8 Parts list and service kits

*It is important to observe the technical data during installation, operation and maintenance.  
Inform the personnel about the technical data.  
NO = Normally open. NC = Normally closed.*

### 8.1 Stop valve

Standard - shut off valve - DN125-150



## 8 Parts list and service kits

*It is important to observe the technical data during installation, operation and maintenance.  
Inform the personnel about the technical data.  
NO = Normally open. NC = Normally closed.*

### Parts list

Pos.	Qty	Denomination
		Actuator, complete
1	1	Cap
2 □	1	O-ring
3	1	Cylinder
4 □	1	Lock wire
5 □	1	O-ring
6	1	Piston
7 □	1	O-ring
8	1	Bonnet
9	1	Plug
10	1	Spring packet
14 ♦	1	Lip seal
15	1	Clamp complete
17 ♦	1	Seal ring
18	1	Valve body
19	1	Plug
19a	1	Stem
	1	Stem
19e ♦	1	Plug seal
19f	1	Washer
	1	Washer
19g ♦	1	O-ring
19h	1	Screw
	1	Screw
21 □	1	Guide ring
22 □	1	Guide ring
23	1	Top pin
24 □	1	O-ring
25 □	1	Guide ring
26	1	Air fitting
27 □	1	Guide ring

### Service kits

Denomination	NC	NO
<b>Service kit for Actuator</b>		
□ Service kit EPDM .....	9611-92-0296	9611-92-0296

### Service kits

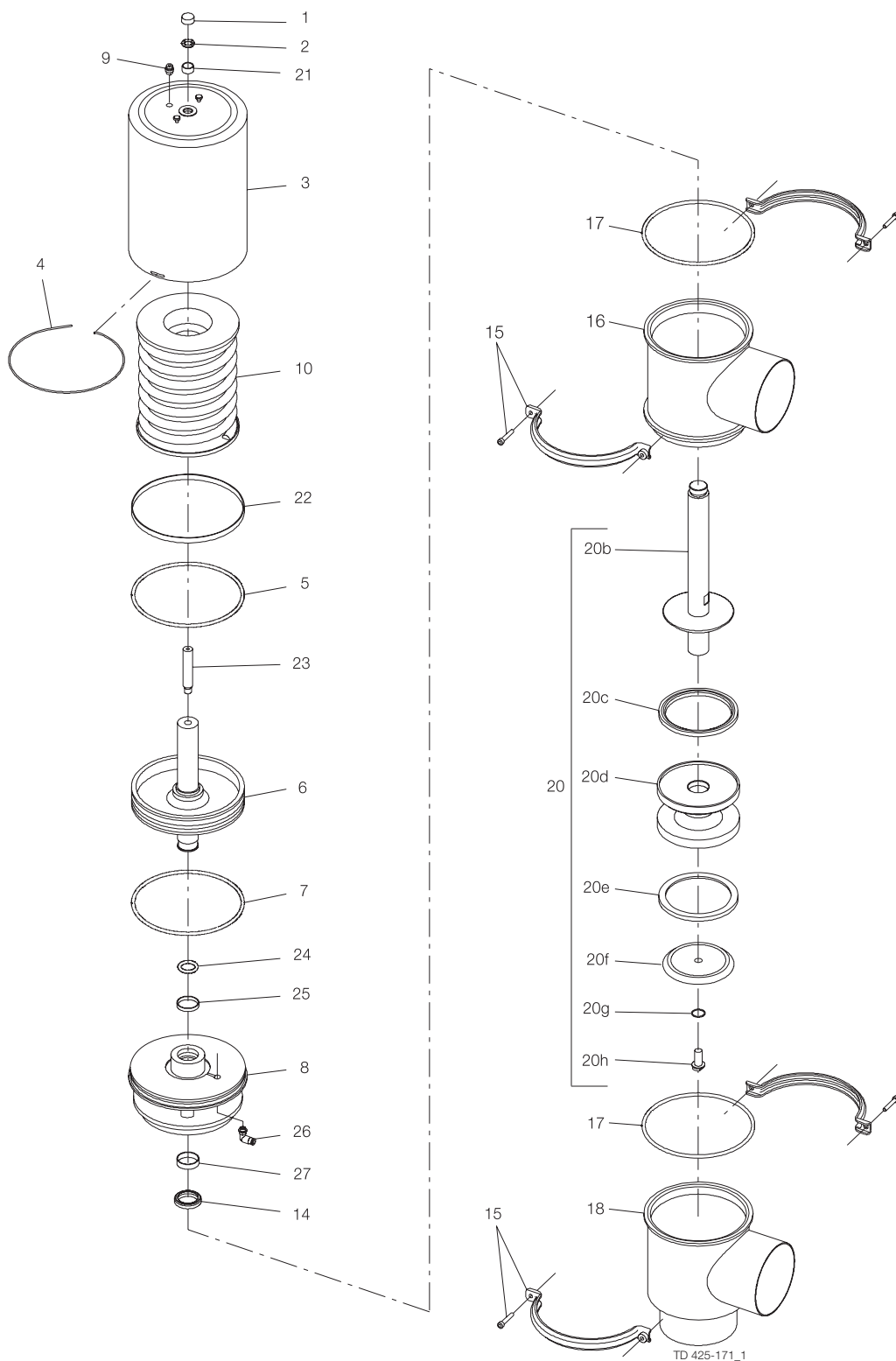
Denomination	DN 125	DN 150
<b>Service kit for Product wetted parts, standard</b>		
♦ Service kit EPDM .....	9611-92-0355	9611-92-0355
♦ Service kit NBR .....	9611-92-0356	9611-92-0356
♦ Service kit FPM .....	9611-92-0357	9611-92-0357

## 8 Parts list and service kits

*It is important to observe the technical data during installation, operation and maintenance.  
Inform the personnel about the technical data.  
NO = Normally open. NC = Normally closed.*

### 8.2 Change-over valve

Standard - change-over valve - DN125-150



## 8 Parts list and service kits

*It is important to observe the technical data during installation, operation and maintenance.  
Inform the personnel about the technical data.  
NO = Normally open. NC = Normally closed.*

### Parts list

Pos.	Qty	Denomination
		Actuator, complete
1	1	Cap
2 □	1	O-ring
3	1	Cylinder
4 □	1	Lock wire
5 □	1	O-ring
6	1	Piston
7 □	1	O-ring
8	1	Bonnet
9	1	Plug
10	1	Spring packet
14 ♦	1	Lip seal
15	2	Clamp complete
16	1	Valve body
17 ♦	2	Seal ring
18	1	Valve body
20	1	Plug
20b	1	Stem
20c ♦	1	Plug seal
20d	1	Middle piece
20e ♦	1	Plug seal
20f	1	Washer
20g ♦	1	O-ring
20h	1	Screw
21 □	1	Guide ring
22 □	1	Guide ring
23	1	Top pin
24 □	1	O-ring
25 □	1	Guide ring
26	1	Air fitting
27 □	1	Guide ring

### Service kits

Denomination	NC	NO
<b>Service kit for Actuator</b>		
□ Service kit EPDM .....	9611-92-0296	9611-92-0296

### Service kits

Denomination	DN 125	DN 150
<b>Service kit for Product wetted parts</b>		
♦ Service kit EPDM .....	9611-92-0358	9611-92-0358
♦ Service kit NBR .....	9611-92-0359	9611-92-0359
♦ Service kit FPM .....	9611-92-0360	9611-92-0360

Parts marked with □♦ are included in the service kits.  
Recommended spare parts: Service kits.

**How to contact Alfa Laval**

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Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information directly.

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