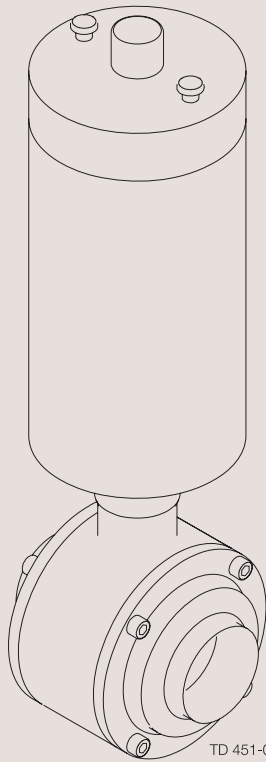


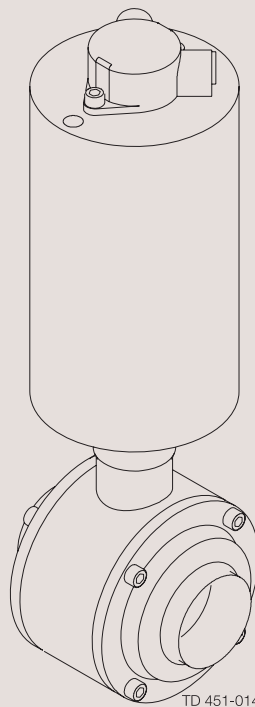


Instruction Manual

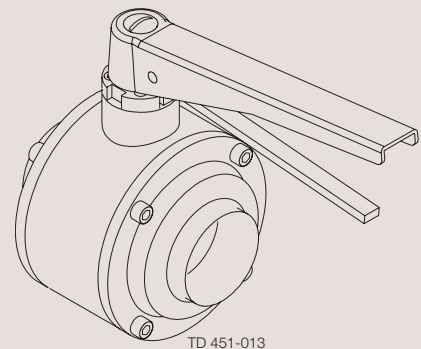
SBV Sanitary Ball Valve



TD 451-015



TD 451-014



TD 451-013

ESE01782-EN4 2010-09

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

The designating company

Alfa Laval

Company Name

Albuen 31, DK-6000 Kolding, Denmark

Address

+45 79 32 22 00

Phone No.

hereby declare that

Sanitary Ball Valve

Denomination

SBV

Type

Year

is in conformity with the following directives:

- Machinery Directive 2006/42/EC

DN125-DN150: The valves are in compliance with the Pressure Equipment Directive 97/23/EC and was subjected to the following assessment procedure, Module A, Category I, Fluids group 2.

Manager, Product Centres,
Compact Heat Exchangers & Fluid Handling

Title

Bjarne Søndergaard

Name

Alfa Laval Kolding
Company

Signature



Designation



*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 severe 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 items refer to parts list and service kits section.*

3.1 Unpacking/Delivery /General installation

Unpacking/delivery

Step 1

CAUTION

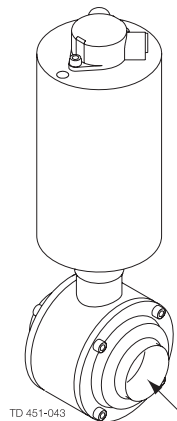
Alfa Laval cannot be held responsible for incorrect unpacking.

Check the delivery:

1. Complete valve.
 2. Delivery note.
-

Step 2

1. Clean the valve for possible packing materials.
2. Inspect the valve for visible transport damage.
3. Avoid damaging air and pipe connections.



3 Installation

*The instruction manual is part of the delivery.
Study the instructions carefully.
The items refer to parts list and service kits section.*

3.2 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.

For further information on installation of valves, please see Guidelines for installation of valve clusters and other installations, ESE00041

Step 2

Avoid stressing the valve as this can cause deformation of the sealing area and malfunction of the valve (leakage or faulty indication).

Pay special attention to:

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

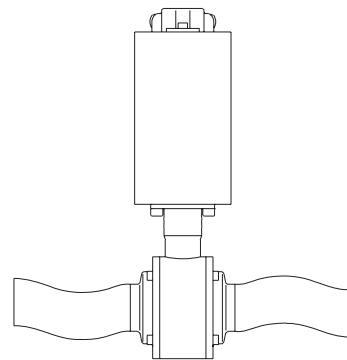
Fittings:

Ensure that the connections are tight.

Air connection of actuator:

Connect compressed air correctly.

Pay special attention to warnings!



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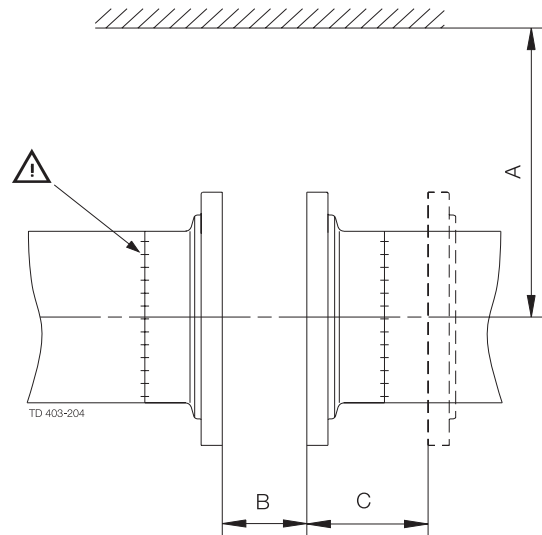
Study the instructions carefully.

3.3 Welding

Step 1

1. Dismantle the flanges in accordance with the instructions in 4 Operation. Remove seal rings and O-rings.
2. Weld the flanges into the pipe lines. Keep distance B between flanges.
3. If welding both flanges, ensure that the flanges can be moved axially minimum C mm to allow for valve maintenance.
4. Maintain the minimum clearance A so that the actuator or handle can be removed.
5. Assemble the valve in accordance with the instructions in 4 Operation after the welding.

Size	A (mm) (inch)		B (mm) (inch)	C (mm) (inch)
	Manual Actuated			
DN/OD 25	317	507	34	30
DN 25	(12.5)	(20.0)	(1.3)	(1.2)
DN/OD 38	325	515	40	30
DN 40	(12.8)	(20.3)	(1.6)	(1.2)
DN/OD 51	335	524	50	30
DN 50	(13.2)	(20.6)	(2.0)	(1.2)
DN/OD 63.5	345	535	56	40
DN 65	(13.6)	(21.1)	(2.2)	(1.6)
DN/OD 76.1	356	546	70	40
DN 80	(14.0)	(21.5)	(2.75)	(1.6)
DN/OD 101.6	406	595	100	40
DN 100	(16.0)	(23.4)	(3.9)	(1.6)



NOTE: Valves with adapter and ThinkTop: add 200 mm (7.9 inch) to dimension A

3 Installation

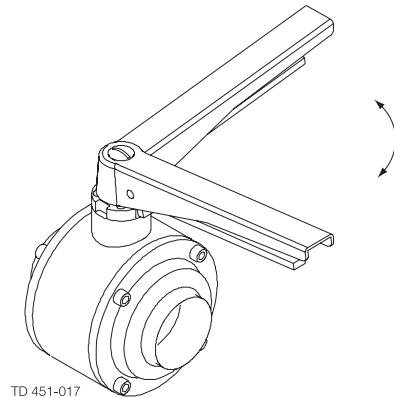
Study the instructions carefully.

Step 2

Pre-use check:

Open and close the valve several times to ensure that the ball moves smoothly against the seal rings.

Pay special attention to the warnings!

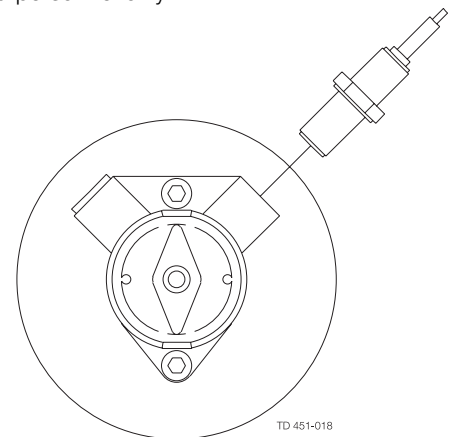


3.4 Indication and control equipment (optional extras)

CAUTION!

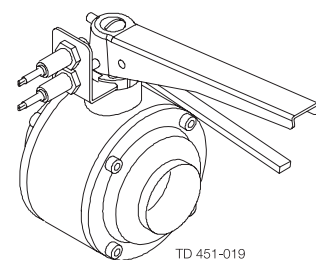
The indication and control equipment must be electrically installed by authorized personnel only.

- Inductive proximity switches:
(See the instructions on the unit).
- ThinkTop®:
(See the separate instruction manual).



Manual valves:

Manual valves with optional handle for inductive proximity switches are designed for the mounting of one or two M12 feedback sensors for open and/or closed position detection. Feedback sensors should be installed and adjusted according to the specification on the unit.



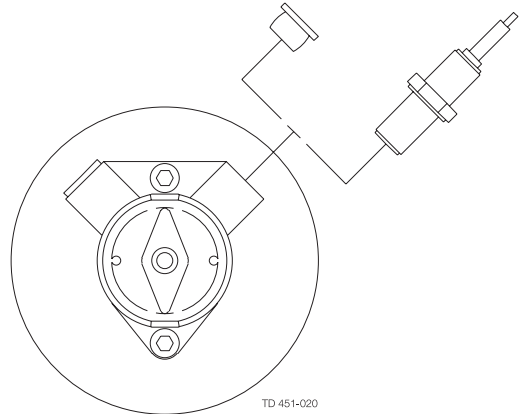
Valves with standard actuator:

Valves with standard actuator are prepared for the mounting of one or two M12 feedback sensors on the position indicator.

Study the instructions carefully.

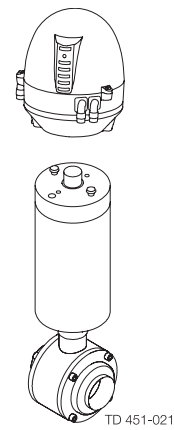
Mounting:

1. Remove the red plastic cap for the desired valve position.
2. Tighten the sensor unit gently.
3. Install the unit according to product specification.



Valves with ThinkTop® adapter:

Follow the instructions in the manual.



4 Operation

Study the instructions carefully and pay special attention to the warnings!
The valve is automatically or manually operated by means of an actuator or a handle.

4.1 Operation

Step 1



Always read the technical data thoroughly.
(see chapter 6 Technical data)

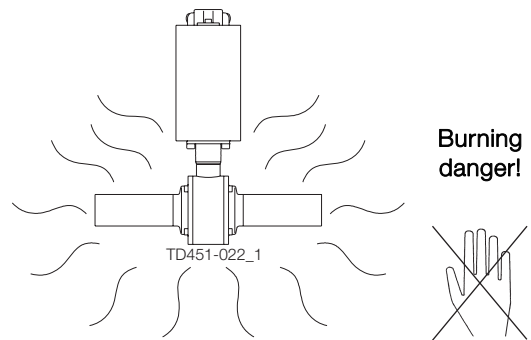
CAUTION

Alfa Laval cannot be held responsible for incorrect operation.

Step 2



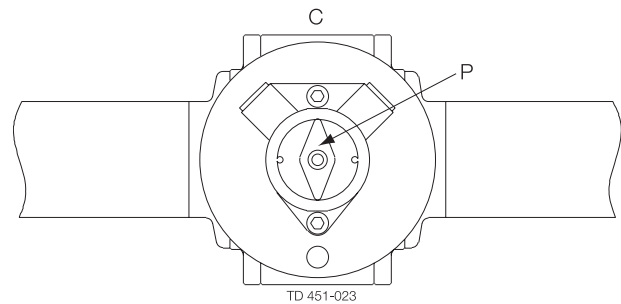
Never touch the valve or the pipelines when processing hot liquids
or when sterilizing.



Operation by means of actuator:

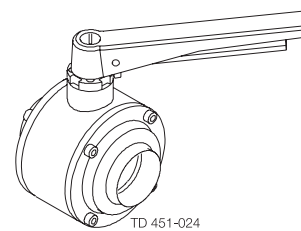
Automatic on/off operation by means of compressed air. The position indicator on the actuator reflects the ball bore position. In vertical position the valve is open - in horizontal position the valve is closed.

C: Closed position
P: Position indicator



Operation by means of handle:

1. Press handle arms together while rotating it.
The position of the handle reflects the position of the ball bore. For correct mounting of handle, please see Step 5.



Pay attention to possible break-down.

Study the instructions carefully.

NC = Normally closed.

NO = Normally open.

4.2 Fault finding

NOTE

Study the maintenance instructions carefully before replacing worn parts. - See 5.1 General maintenance

Problem	Cause/result	Repair
Internal leakage (normal wear)	Worn valve seat Worn flange O-rings	Replace the product wetted seals
Internal leakage (too early)	Worn valve seat Worn flange O-rings Many activations High pressure and/or temperature Aggressive media	Replace the product wetted seals Consider selecting another elastomer sealing material Change operating conditions
External leakage (normal wear)	Worn flange O-rings Worn stem sealing unit	Replace all seals
External leakage (too early)	Damaged or worn flange O-rings Damaged or worn stem sealing unit Many activations High pressure and/or temperature Aggressive media	Replace all seals Select another elastomer sealing material grade Change operating conditions
Valve cannot be activated or is difficult to operate	Too low air pressure. Incorrect elastomer material (swelling)	Check and correct air pressure Select another elastomer sealing material grade
Valve is NO (normally open), should be NC (normally closed)	90° displacement of the actuator	Remove actuator, turn valve into desired pressureless position and remount actuator

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.
HNO₃ = Nitric acid.

4.3 Recommended cleaning

Step 1



Always handle lye and acid with great care.

Caustic danger!



Always use
rubber gloves!

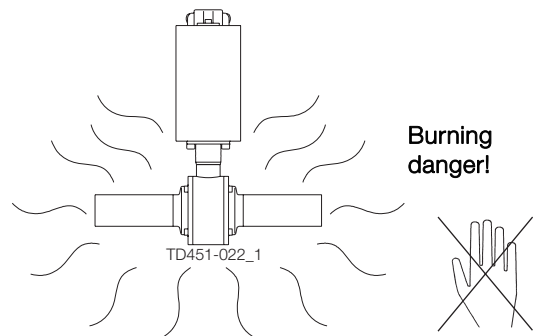


Always use
protective goggles!

Step 2



Never touch the valve or the pipelines when sterilizing.



Step 3

Examples of cleaning agents:

Use clean water, free from chlorides.

1. 1% by weight NaOH at 70° C

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

2.2 l (0.58 gal) 33% NaOH	+	100 l (26.4 gal) water	=	Cleaning agent.
------------------------------	---	---------------------------	---	-----------------

2. 0.5% by weight HNO₃ at 70° C (158°F)

0.7 l (0.18 gal) 53% HNO ₃	+	100 l (26.4 gal) water	=	Cleaning agent.
--	---	---------------------------	---	-----------------

1. Avoid excessive concentration of the cleaning agent

⇒ Dose gradually!

2. Adjust the cleaning flow to the process

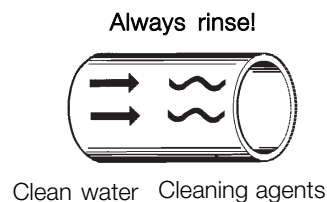
⇒ Sterilization of milk/viscous liquids
⇒ Increase the cleaning flow!

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.
HNO₃ = Nitric acid.

Step 4

Always rinse well with clean water after the cleaning.

CAUTION! The cleaning agents must be stored/disposed of in accordance with current rules/directives.



To secure optimum cleaning of the cavity between valve seats and ball during the cleaning cycle, please follow the recommendations below

In-line cleaning:

Manual valves:

Rotate the ball 20-45° from open position a number of times in the beginning of each cleaning cycle. Adjust duration and number of cycles to the process.

Valves with air actuator:

Rotate the ball 20-45° from open position a number of times in the beginning of each cleaning cycle.

Proposal – initial position: valve open: 1 sec. air release followed by 1 sec. activation. Repeat three times.

Adjust solenoid timing and number of cycles to the process.

Caution: Rotation angles larger than 45° from open position might cause pressure shocks and should therefore be avoided!

Valves with cavity cleaning feature (optional):

The cavity is additionally to be cleaned by connecting the cavity cleaning connections to the cleaning circuit. **Caution:** To avoid the risk of mixing product and CIP, the valve cavity should never be cleaned when there is product in the product line.

5 Maintenance

Maintain the valve and the actuator carefully.
Study the instructions carefully and pay special attention to the warnings!
Always keep service kits 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.

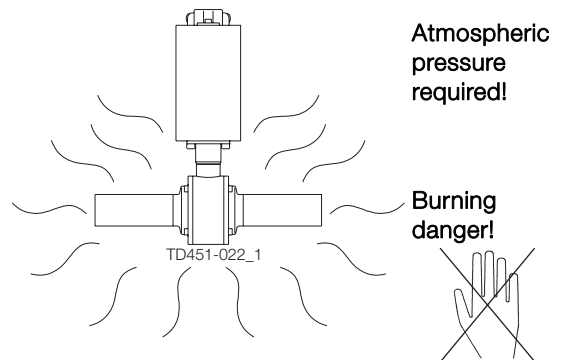
NOTE

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

Step 2



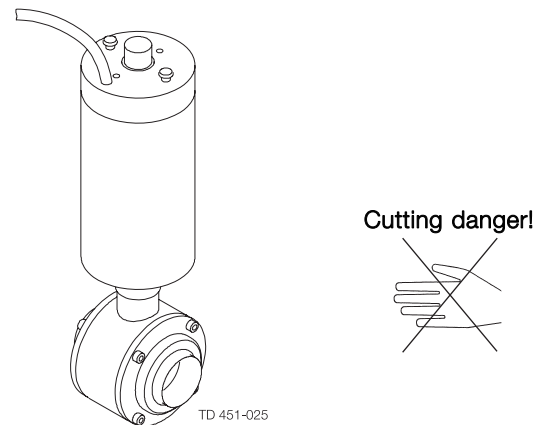
Never service the valve when it is hot.
The valve/actuator and the pipelines must **never** be pressurised when servicing the valve/actuator.



Step 3



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



Maintain the valve and the actuator carefully.
 Study the instructions carefully and pay special attention to the warnings!
 Always keep service kits in stock.

Recommended spare parts:

Service kits (see chapter 6).
 Order service kits from the service kits list (see chapter 6).

	Product wetted seals	Valve stem seals
Preventive maintenance	Replace after 12 months	Replace all seals after 24 month
Maintenance after leakage (leakage normally starts slowly)	Replace at the end of the day	Replace by the end of the day
Planned maintenance	<ul style="list-style-type: none"> - Regular inspection for leakage and smooth operation - Keep a record of the valve - Use the statistics for planning of inspections 	<ul style="list-style-type: none"> - Regular inspection for leakage and smooth operation - Keep a record of the valve - Use the statistics for planning of inspections

NOTE! The actuator is maintenance-free.

5 Maintenance

Study the instructions carefully.

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

Service kit:

2 pcs. valve seat (5), 2 pcs. O-ring (6), 2. pcs. O-ring (7)

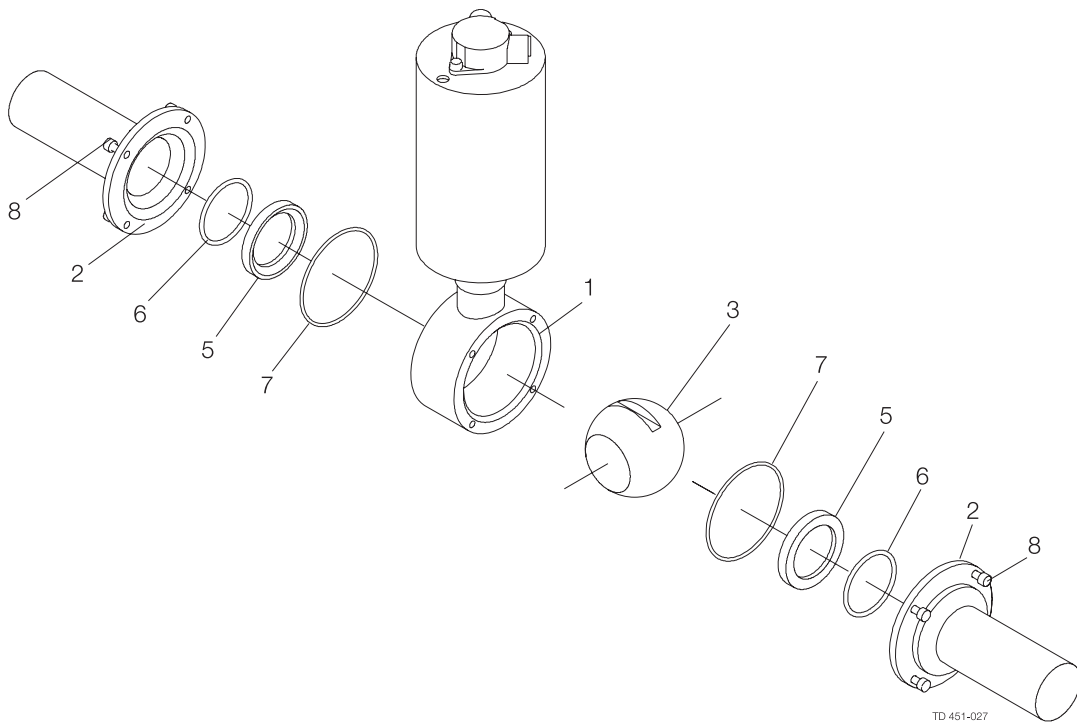
5.2 Replacement of product wetted seals

Step 1

1. Study the instructions carefully. The items refer to the parts list and service kits section. Service kit: 2 pcs. valve seat (5), 2 pcs. O-ring (6), 2. pcs. O-ring (7).
 2. Loosen and remove flange screws (8) and remove valve from pipe line (be careful not to drop the ball if the valve is in closed position).
 3. Remove ball (3) and check for excessive wear or damage.
 4. Remove valve seat (5) and O-rings (6), (7) from flange (2).
-

Step 2

1. Insert new O-rings (6), (7) and valve seat (5) in flange (2).
 2. **CAUTION!** NC valves: Ball should be turned to “closed” position before fitting the actuator without compressed air (be careful not to drop the ball).
NO valves: Ball should be turned to “open” position before fitting acuator.
 3. Insert valve body (1) between flanges (2).
 4. Tighten screws (8) until metallic stop.
-



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

Service kit:

1 pcs. sliding ring (9), 1 pcs. support ring (10), 3 pcs. V-ring (11), 1 pcs. pressure ring (12), 1 pcs. slide bearing (14), 1 pcs. mounting tool for pos. (10), (11) and (12), Plus content of service kit for product wetted seals.

5.3 Replacement of all seals

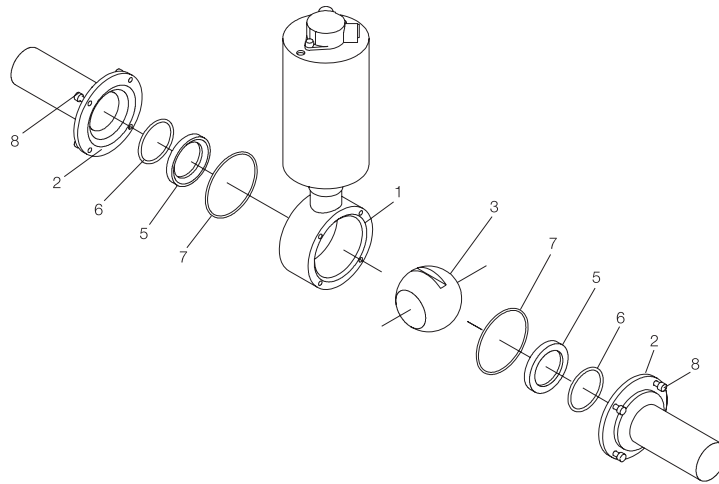
Disassembly of valve:

Step 1

Release all compressed air (actuated valves only).

Step 2

1. Loosen and remove flange screws (8) and remove valve from pipe line (be careful not to drop the ball if the valve is in closed position.)
2. Remove ball (3) and check for excessive wear or damage.
3. Remove valve seat (5) and O-rings (6), (7) from flange (2).



TD154-027_1

Release all compressed air (actuated valves only).

Step 3

Actuated valves:

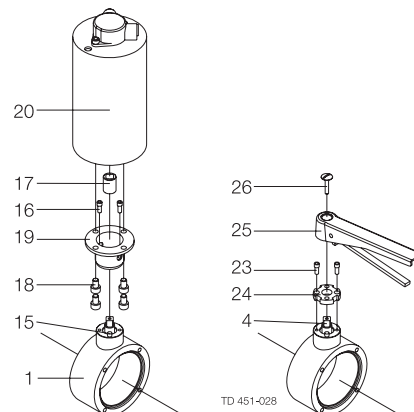
Loosen screws (18) and remove actuator (20) and coupling (17).

Loosen screws (16) and remove bonnet (19)

Manual valves

Loosen screw (26) and remove handle (25).

Loosen screws (23) and remove top plate (24).



TD 451-028

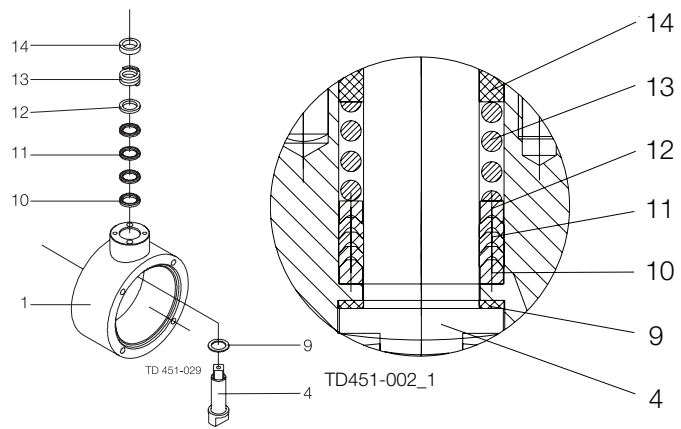
5 Maintenance

Study the instructions carefully.

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

Step 4

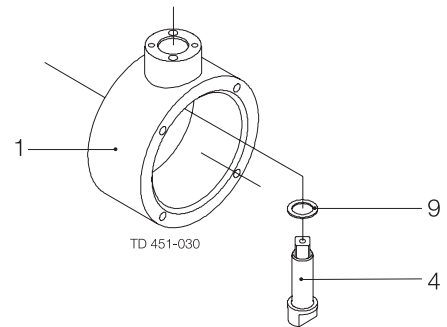
1. Remove slide bearing (14) and spring (13).
2. Remove stem (4) and sliding ring (9) through the valve body (1).
3. Remove stem gasket unit (10), (11) and (12).



Step 5

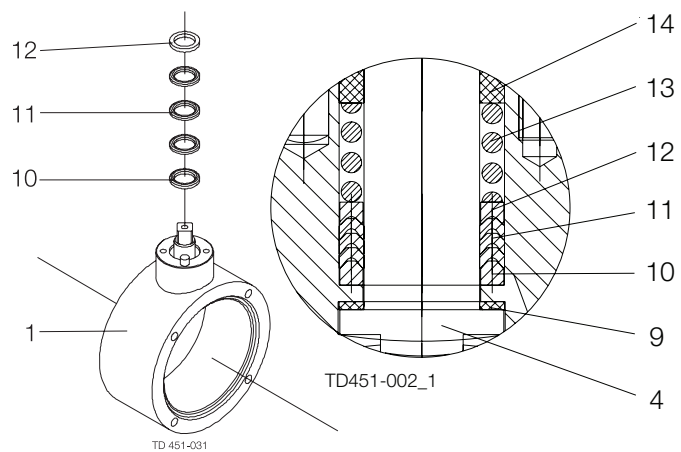
Reassembly of valve:

Place the new sliding ring (9) on stem (4) and mount stem unit in valve body (1)



Step 6

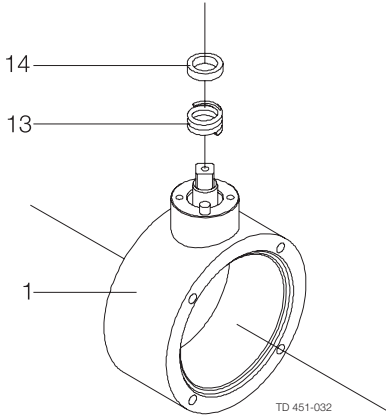
Insert new gasket unit (10), (11) and (12) in valve body. Use the mounting tool and be careful not to damage the stem gaskets.



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

Step 7

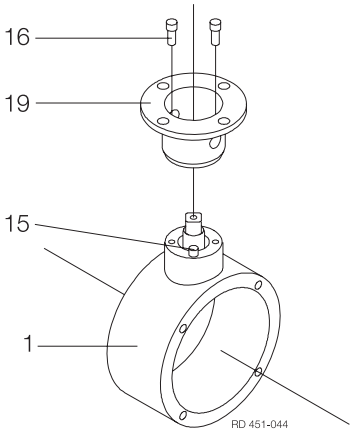
Place spring (13) and new slide bearing (14) on stem (4).



Step 7a

Actuated valves:

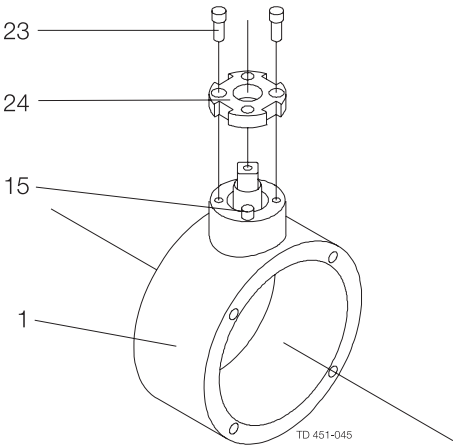
- 1. Mount bonnet (19) on valve body (1) with screws (16)
- 2. Align bonnet (19) with the two pins (15).



Step 7b

Manual valves:

- 1. Mount top plate (24) on valve body (1) with screws (23)
- 2. Align top plate (24) with the two pins (15).



5 Maintenance

Study the instructions carefully.

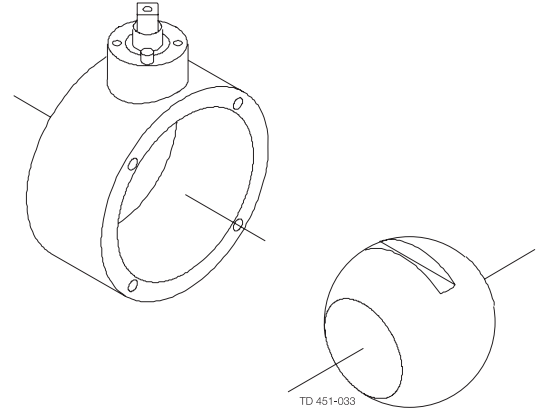
The items refer to the parts list and service kits section.

Step 8

Fit ball

CAUTION! NC valves: Ball should be turned to "closed" position before fitting the actuator without compressed air (be careful not to drop the ball).

NO valves: Ball should be in "open" position before fitting actuator.



Step 9

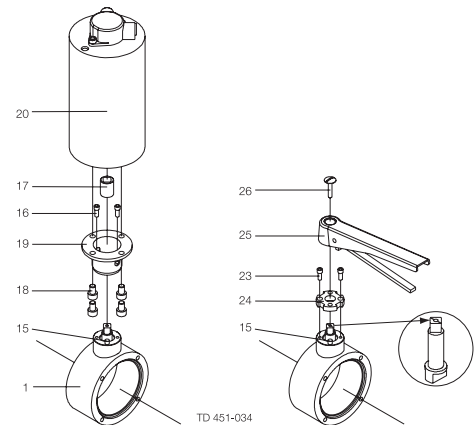
Actuated valves:

Actuated valves:

1. Mount coupling (17) and actuator (20) on bonnet (19) with screws (18)
2. Align position indicators on actuator and stem.

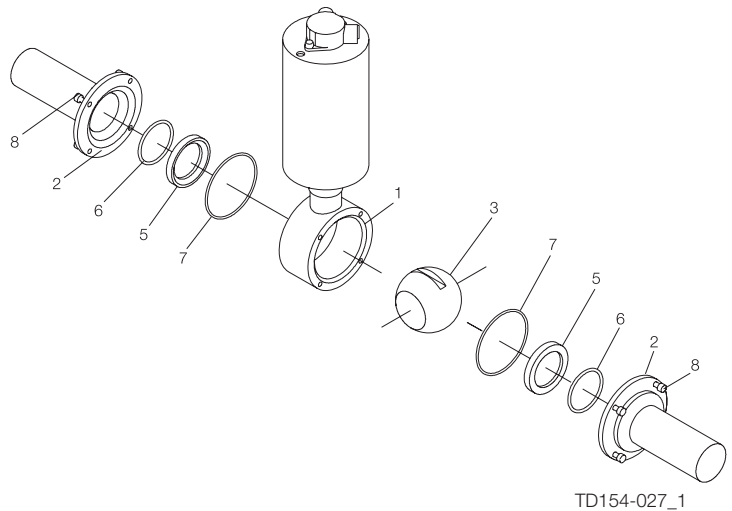
Manual valves:

1. Mount handle (25) on stem (4) with screw (26)
2. Align handle with position indicator on stem.



Step 10

1. Align handle with position indicator on stem.
2. Insert valve body (1) between flanges (2).
3. Insert valve body (1) between flanges (2).
4. Open and close the valve several times to ensure proper operation.



It is important to observe the technical data during installation, operation and maintenance.

Inform the personnel about the technical data.

NC = Normally closed.

NO = Normally open.

6.1 Technical data

Valve	
Max. product pressure	1600 kPa (10 bar) (232 PSI)
Max. recommended pressure during activation	600 kPa (6 bar)
Min. product pressure	Full vacuum
Temperature range	-10° C to + 130° C (14°to 266° F) (EPDM).
Air consumption ø104: 0.5 NI	Air consumption ø104: 0.5 NI
Air consumption ø129: 0.75 NI	Air consumption ø129: 0.75 NI
Max. sterilisation temperature, short time	+ 150° C (302° F)
Actuator	
Operating pressure	600 - 1000 kPa (6 - 10 bar) (87 - 145 PSI)
Temperature range	+4° C to +60° C (39.2 to 140 F)
Materials	
Product wetted steel parts	AISI 316L
Other steel parts	AISI 304
Surface quality, product wetted parts	Ra < 0.8µm
External surface finish	Semi bright
External surface finish, actuator	Semi bright (brushed)
Product wetted seals	PTFE, EPDM
Other seals	PTFE, NBR

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.

Recycling information.

Unpacking

- Packing material consists of wood, plastics, cardboard boxes and in some cases metal straps.
- Wood and cardboard boxes can be reused, recycled or used for energy recovery.
- Plastics should be recycled or burnt at a licensed waste incineration plant.
- Metal straps should be sent for material recycling.

Maintenance

- During maintenance oil and wear parts in the machine are replaced.
- All metal should be sent for material recycling.
- Worn out or defective electronic parts should be sent to a licensed handler for material recycling.
- Oil and all non metal wear parts must be taken care of in agreement with local regulations.

Scrapping

- At end of use, the equipment shall be recycled according to relevant, local regulations. Beside the equipment itself, any hazardous residues from the process liquid must be considered and dealt with in a proper manner. When in doubt, or in the absence of local regulations, please contact the local Alfa Laval sales company.

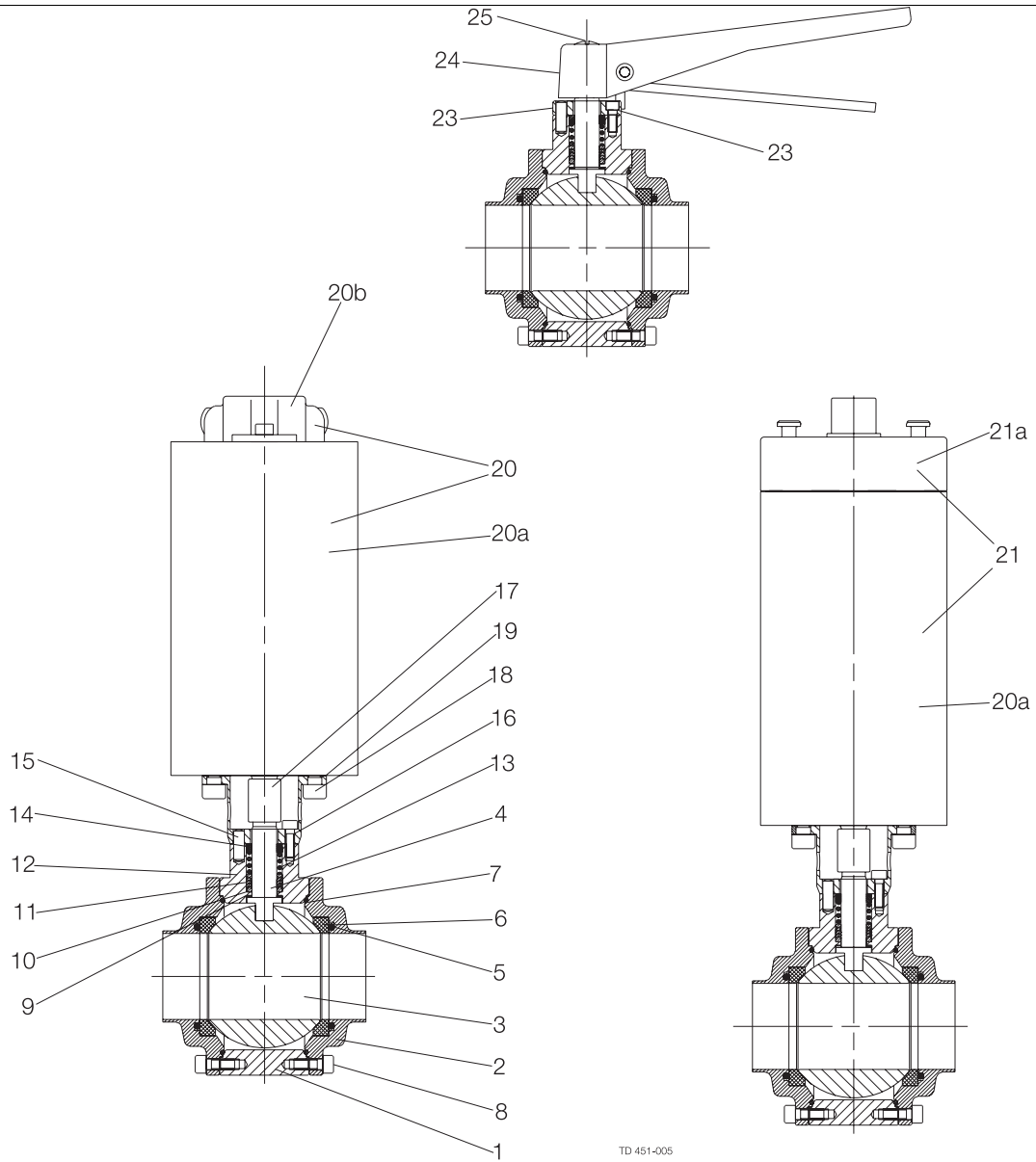
6 Technical data

*It is important to observe the technical data during installation, operation and maintenance.
Inform the personnel about the technical data.*

NC = Normally closed.

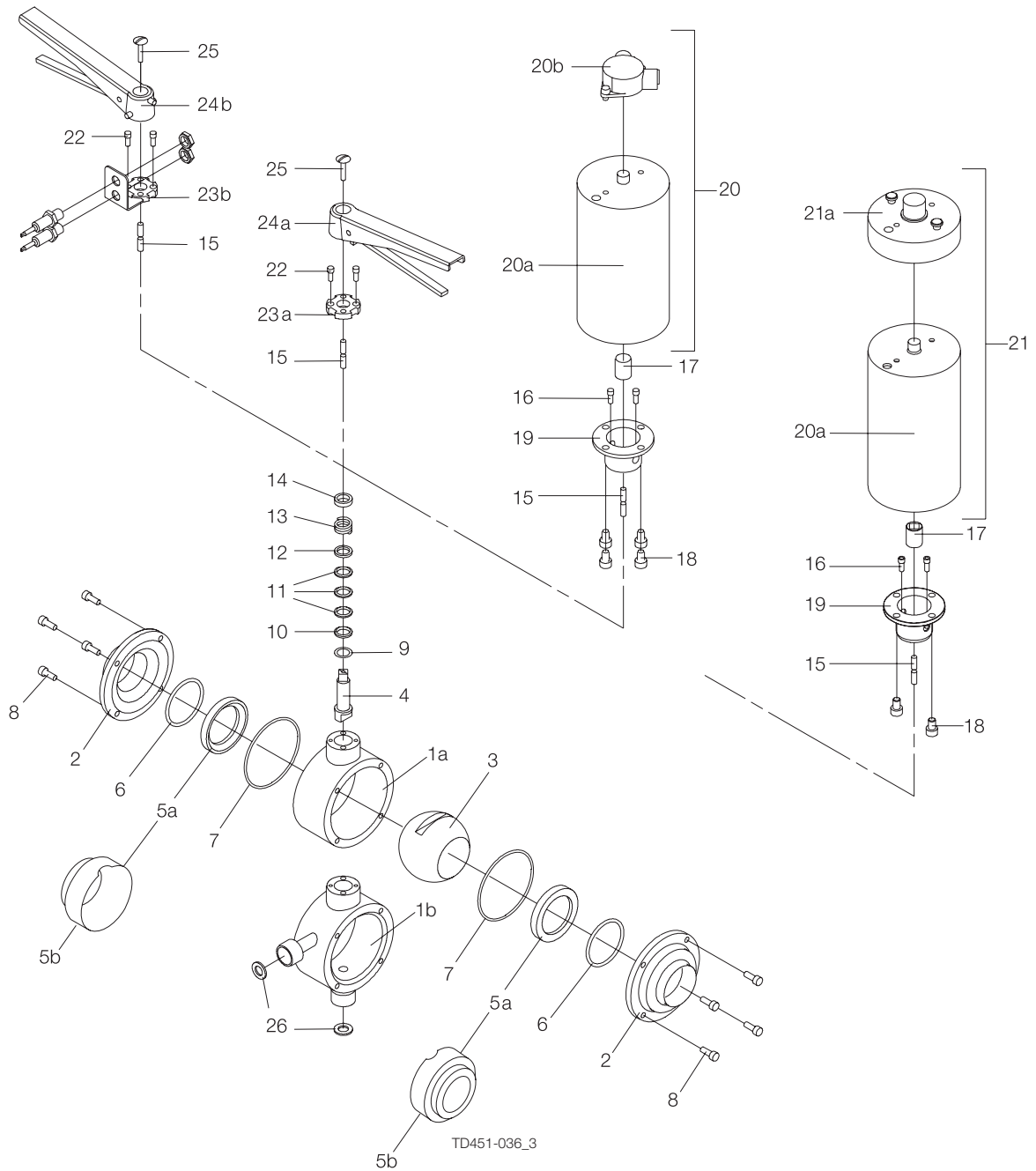
NO = Normally open.

7.1 SBV Satary Ball Valve



8 SBV Sanitary Ball Valve for Inch Tube

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



8 SBV Sanitary Ball Valve for Inch Tube

It is important to observe the technical data during installation, operation and maintenance.

Inform the personnel about the technical data.

NC = Normally closed.

NO = Normally open.

Parts list

Pos.	Qty	Denomination
□		Product with parts
◆		All seals
○		Product with parts with cavity fillers
*		All seals with cavity fillers
1a	1	Valve body
2	2	Flange
3	1	Ball
4	1	Stem
5a	2	Valve seat
5b	2	Valve seat
6	2	O-ring
7	2	O-ring
8	8	Flange
9	1	Sliding ring
10	1	Support ring
11	3	V-rings
12	1	Pressure ring
13	1	Spring
14	1	Slide bearing
15	2	Pin
16	2	Screw (act.)
17	1	Coupling
18	2	Screw
19	1	Bonnet
20	1	Actuator complete, standard version
20a		Actuator
20b	1	Position indicator complete
21		Actuator complete, ThinkTop version
21a	1	ThinkTop adapter complete
22	2	Screw (man.)
23a	1	Top plate
23b		Top plate
24a	1	Handle
24b		Handle
25	1	Screw
26	2	Seal for valves with cavity cleaning connections **

Service kits

Denomination	DN25	DN38	DN51	DN63.5	DN76.1	DN101.6
Service Kits for Product wetted parts						
□ Service kit, EPDM (std.)	9612-64-7701	9612-64-7709	9612-64-7717	9612-64-7725	9612-64-7733	9612-64-7741
□ Service kit, H-NBR	9612-64-7702	9612-64-7710	9612-64-7718	9612-64-7726	9612-64-7734	9612-64-7742
□ Service kit, Q	9612-64-7703	9612-64-7711	9612-64-7719	9612-64-7727	9612-64-7735	9612-64-7743
□ Service kit, FPM	9612-64-7704	9612-64-7712	9612-64-7720	9612-64-7728	9612-64-7736	9612-64-7744
Service Kits for Cavity fillers						
○ Service kit, EPDM (std.)	9612-64-7801	9612-64-7809	9612-64-7817	9612-64-7825	9612-64-7833	9612-64-7841
○ Service kit, H-NBR	9612-64-7802	9612-64-7810	9612-64-7818	9612-64-7826	9612-64-7834	9612-64-7842
○ Service kit, Q	9612-64-7803	9612-64-7811	9612-64-7819	9612-64-7827	9612-64-7835	9612-64-7843
○ Service kit, FPM	9612-64-7804	9612-64-7812	9612-64-7820	9612-64-7828	9612-64-7836	9612-64-7844

Service kits

Denomination	DN25	DN38	DN51	DN63.5	DN76.1	DN101.6
Service Kits for All seals						
◆ Service kit, EPDM (std.) * ..	9612-64-7705	9612-64-7713	9612-64-7721	9612-64-7729	9612-64-7737	9612-64-7745

8 SBV Sanitary Ball Valve for Inch Tube

It is important to observe the technical data during installation, operation and maintenance.

Inform the personnel about the technical data.

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◆	Service kit, H-NBR *	9612-64-7706	9612-64-7714	9612-64-7722	9612-64-7730	9612-64-7738	9612-64-7746
◆	Service kit, Q *	9612-64-7707	9612-64-7715	9612-64-7723	9612-64-7731	9612-64-7739	9612-64-7747
◆	Service kit, FPM *	9612-64-7708	9612-64-7716	9612-64-7724	9612-64-7732	9612-64-7740	9612-64-7748

Service Kits for Cavity fillers

*	Service kit, EPDM (std.) * ..	9612-64-7805	9612-64-7813	9612-64-7821	9612-64-7829	9612-64-7837	9612-64-7845
*	Service kit, H-NBR *	9612-64-7806	9612-64-7814	9612-64-7822	9612-64-7830	9612-64-7838	9612-64-7846
*	Service kit, Q *	9612-64-7807	9612-64-7815	9612-64-7823	9612-64-7831	9612-64-7839	9612-64-7847
*	Service kit, FPM *	9612-64-7808	9612-64-7816	9612-64-7824	9612-64-7832	9612-64-7840	9612-64-7848

* Including mounting tool for stem gasket unit

** Not included in service kits

Parts marked with □◆○★ are included in the service kits.

Recommended spare parts: Service kits.

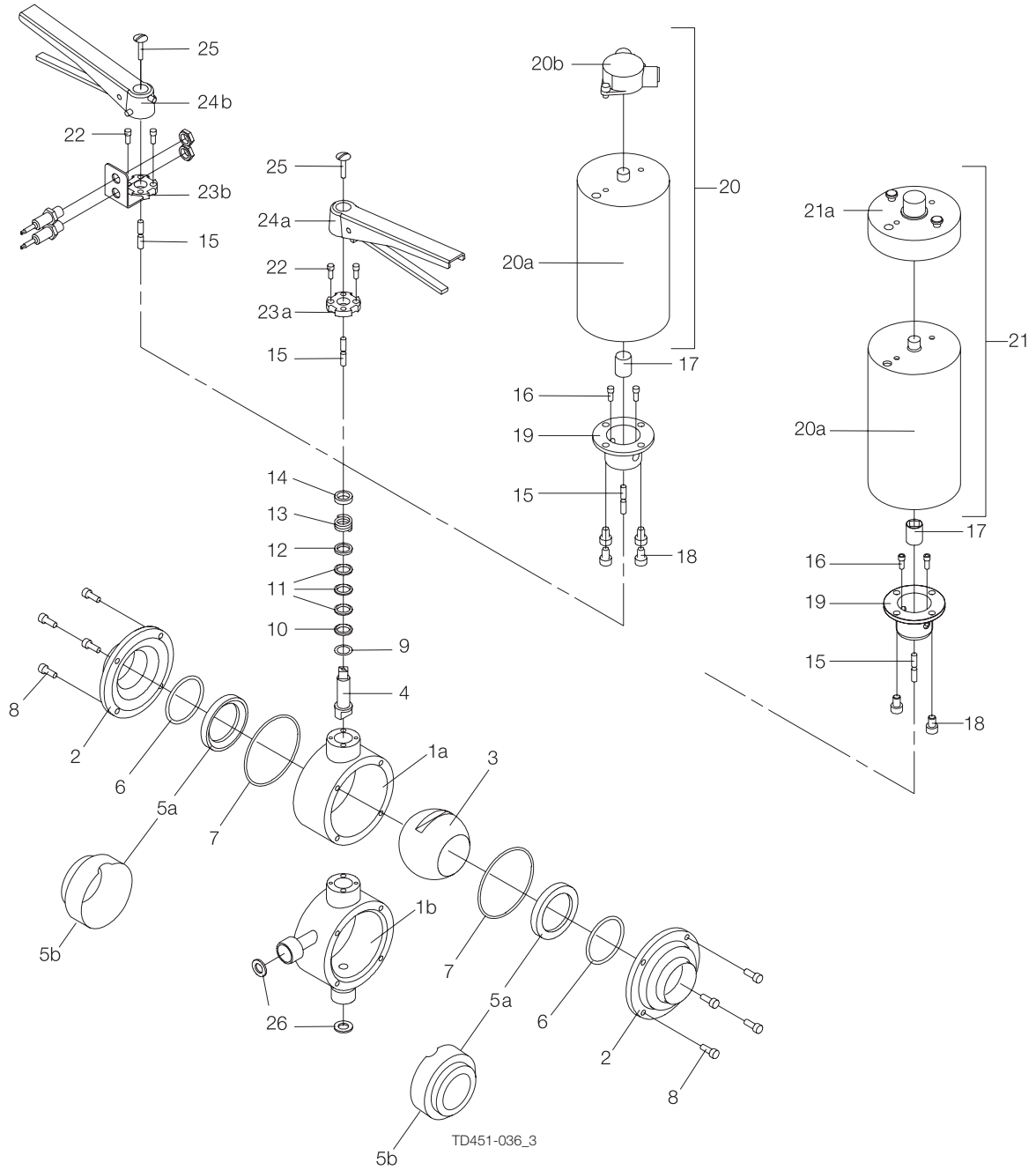
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9 SBV Sanitary Ball Valve for DIN Tube

It is important to observe the technical data during installation, operation and maintenance.
Inform the personnel about the technical data.

NC = Normally closed.

NO = Normally open.



9 SBV Sanitary Ball Valve for DIN Tube

It is important to observe the technical data during installation, operation and maintenance.

Inform the personnel about the technical data.

NC = Normally closed.

NO = Normally open.

Parts list

Pos.	Qty	Denomination
◆		All seals
□		Product with parts
○		Product with parts with cavity fillers
*		All seals with cavity fillers
1a	1	Valve body
2	2	Flange
3	1	Ball
4	1	Stem
5a	2	Valve seat
5b	2	Valve seat
6	2	O-ring
7	2	O-ring
8	8	Flange
9	1	Sliding ring
10	1	Support ring
11	3	V-rings
12	1	Pressure ring
13	1	Spring
14	1	Slide bearing
15	2	Pin
16	2	Screw (act.)
17	1	Coupling
18	2	Screw
19	1	Bonnet
20	1	Actuator complete, standard version
20a		Actuator
20b	1	Position indicator complete
21		Actuator complete, ThinkTop version
21a	1	ThinkTop adapter complete
22	2	Screw (man.)
23a	1	Top plate
23b		Top plate
24a	1	Handle
24b		Handle
25	1	Screw
26	2	Seal for valves with cavity cleaning connections **

Service kits

Denomination	DN25	DN40	DN50	DN65	DN80	DN100
Service Kits for Product wetted parts						
□ Service kit, EPDM (std.)	9612-64-7749	9612-64-7757	9612-64-7765	9612-64-7773	9612-64-7781	9612-64-7789
□ Service kit, H-NBR	9612-64-7750	9612-64-7758	9612-64-7766	9612-64-7774	9612-64-7782	9612-64-7790
□ Service kit, Q	9612-64-7751	9612-64-7759	9612-64-7767	9612-64-7775	9612-64-7783	9612-64-7791
□ Service kit, FPM	9612-64-7752	9612-64-7760	9612-64-7768	9612-64-7776	9612-64-7784	9612-64-7792
Service Kits for Cavity Fillers						
○ Service kit, EPDM (std.)	9612-64-7849	9612-64-7857	9612-64-7865	9612-64-7873	9612-64-7881	9612-64-7889
○ Service kit, H-NBR	9612-64-7850	9612-64-7858	9612-64-7866	9612-64-7874	9612-64-7882	9612-64-7890
○ Service kit, Q	9612-64-7851	9612-64-7859	9612-64-7867	9612-64-7875	9612-64-7883	9612-64-7891
○ Service kit, FPM	9612-64-7852	9612-64-7860	9612-64-7868	9612-64-7876	9612-64-7884	9612-64-7892

9 SBV Sanitary Ball Valve for DIN Tube

It is important to observe the technical data during installation, operation and maintenance.

Inform the personnel about the technical data.

NC = Normally closed.

NO = Normally open.

Service kits

Denomination	DN25	DN40	DN50	DN65	DN80	DN100
Service Kits for All seals						
◆ Service kit, EPDM (std.) * ..	9612-64-7753	9612-64-7761	9612-64-7769	9612-64-7777	9612-64-7785	9612-64-7793
◆ Service kit, H-NBR *	9612-64-7754	9612-64-7762	9612-64-7770	9612-64-7778	9612-64-7786	9612-64-7794
◆ Service kit, Q *	9612-64-7755	9612-64-7763	9612-64-7771	9612-64-7779	9612-64-7787	9612-64-7795
◆ Service kit, FPM *	9612-64-7756	9612-64-7764	9612-64-7772	9612-64-7780	9612-64-7788	9612-64-7796
Service Kits for Cavity fillers						
* Service kit, EPDM (std.) * ..	9612-64-7853	9612-64-7861	9612-64-7869	9612-64-7877	9612-64-7885	9612-64-7893
* Service kit, H-NBR *	9612-64-7854	9612-64-7862	9612-64-7870	9612-64-7878	9612-64-7886	9612-64-7894
* Service kit, Q *	9612-64-7855	9612-64-7863	9612-64-7871	9612-64-7879	9612-64-7887	9612-64-7895
* Service kit, FPM *	9612-64-7856	9612-64-7864	9612-64-7872	9612-64-7880	9612-64-7888	9612-64-7896

* Including mounting tool for stem gasket unit

** Not included in service kits

Parts marked with ◆♦○★ are included in the service kits.

Recommended spare parts: Service kits.

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How to contact Alfa Laval

Contact details for all countries are continually updated on our website.

Please visit www.alfalaval.com to access the information direct.

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