

APV DA4

DOUBLE SEAT MIX PROOF VALVE

FORM NO.: H337927 REVISION: GB-3

READ AND UNDERSTAND THIS MANUAL PRIOR TO OPERATING OR SERVICING THIS PRODUCT.



We,

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Crawley, RH10 9PY

declare under our sole responsibility that the

APV double seal and double seat valves of the series
SD4, SDT4, SDU4, SDMS4, SDMSU4, SDTMS4, SWcip4, DSV, DA4, DA4 DPF, D4 SL, DU4
SL, DT4 SL, DP4 SL, D4, DA3, DA3SLD, DE3, DEU3, DET3, DKR2, DKRT2, DKRH2

APV butterfly valves of the series SV1, SVS1F, SV2, SVS2F, SVL, SVSL, SVE, SVSE

APV ball valves of the series BLV1

APV single seat, diaphragm and spring loaded valves of the series
S2, SW4, SWhp4, SW4DPF, SWmini4, SWT4, SWS4, MF4, MS4, MSP4, AP/T1, CPV, RG4,
RG4DPF, RGMS4, RGE4, RGE4DPF, RGEMS4, PR2, PRD2, SI2, UF/R3, UF/R4, VRA/H

and the valve manifolds installed thereof

meet the requirements of the Machinery Directive 2006/42/EC
& EN ISO 12100-2010, DIN EN ISO 14159-2008-07, DIN EN 1672-2-2009-07.

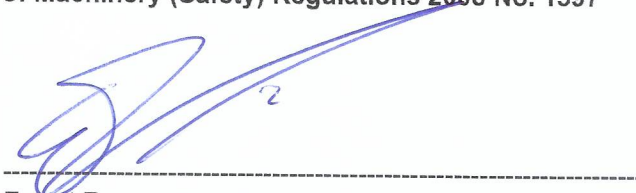
Holzwickede, November 2022



Dr.-Ing. Behdad Ariatabar, Design Center Lead - Valves

meet the requirements of the Supply of Machinery (Safety) Regulations 2008 No. 1597
& BS harmonized standards.

Crawley, November 2022



Ewout Roozendaal, Director Global Pricing

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DA4 Inch and DIN designs	RN 502.047.01

1. General Terms

This instruction manual should be read carefully by the competent operating and maintenance personnel.

We point out that we will not accept any liability for damage or malfunctions resulting from the non-compliance with this instruction manual.

Descriptions and data given herein are subject to technical changes.

2. Safety

2.1 Symbols



Caution!

The technical safety symbol draws your attention to important directions for operating safety. You will find it wherever the activities described are bearing health hazards and risks for persons and / or material assets.



Important Note!

Critical technical information

2.2 Safety Instructions



Opening of the actuators and upper shafts is strictly forbidden. Danger to health and life!

Actuators and upper shafts which are no longer used and/or are defective must be disposed in professional manner.

Defective actuators and upper shafts must be returned to your SPX FLOW company for their professional disposal and free of charge for you.

Please address to your local SPX FLOW company.



- Never touch the valve or pipelines during hot liquid or sterilisation processes!



- Disconnect electric and pneumatic connections, e.g. before maintenance.



- Before any maintenance work, depressurize the line and cleaning system and discharge the lines if possible.

2. Safety



- Observe Service Instructions to ensure safe maintenance of the valve.



- Connections which are not used must be sealed by a plug!



- The safe discharge of the cleaning liquids must be ensured.



- The valves must be assembled, disassembled and reassembled only by persons who have been trained in the valves or by SPX FLOW service team members. If necessary, contact your local SPX FLOW representative.

3. Intended Use

The intended use as field of application of the double seat mix proof valve is the safe shut-off of pipeline sections and the separation of incompatible liquids in the food and beverage industries as well as in pharmaceutical and chemical applications.



Caution! The standard DA4 valve must not be used in explosive atmospheres.



Caution! Arbitrary, structural changes at the valves may affect safety as well as the intended functionality of the valves and are not permitted.

SPX FLOW Valves are intended for use in the food and beverage industries, as well as in pharmaceutical and chemical applications.

SPX FLOW Valves (without safety function) are allocated to Category 1 and are evaluated as per Conformity Assessment Module A of the Pressure Equipment Directive 2014/68/EU. According to Article 13, the following allocation applies for the fluids processed in the valves.

Product media – Fluid group 2 – valves in all dimensions.

CIP-cleaning liquids – Fluid group 1 – valves in the dimensions \leq DN100/4" can be used at temperatures up to 140 °C, valves in the dimensions $>$ DN100/4" at temperatures up to 100 °C.

Authorizations and External Approvals

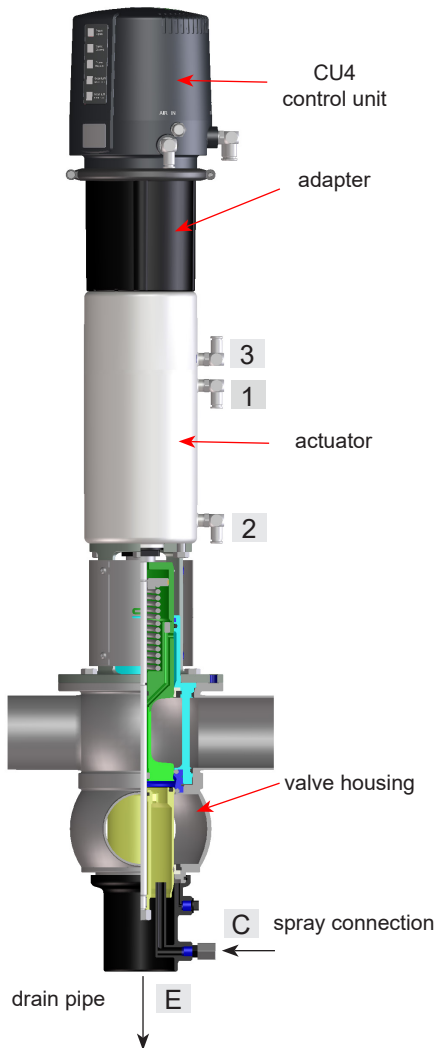
To view the certifications for this and other innovative SPX FLOW products, visit

<https://www.spxflow.com/en/apv/about-us/certifications/>

It is within the responsibility of the plant operator to evaluate and verify the suitability of SPX FLOW products for the intended purpose and service conditions, as well as to determine and follow the applicable laws for the intended applications and areas of application.

4. Mode of Operation

fig. 4.1



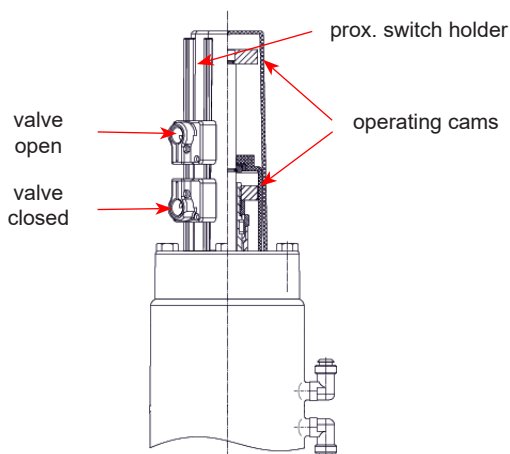
4.1. General terms

Due to its construction and mode of operation as well as to the use of high quality stainless steel and adequate seal materials, the DA4 double seat mix proof valve is suited for applications in the food and beverage industries as well as in pharmaceutical and chemical applications.

- The DA4 valve separates two line passages by two balanced and independently operating valve shafts with an intervening leakage chamber.
- The valve opens from the top to the bottom in a low-leakage design.
- Leakages are discharged via the drain pipe (E) in depressurized state.
- The pneumatic actuator opens the valve via the air connection (1). The spring force resets the valve into the "closed" safe position.
- The standard DA4 double seat mix proof valve is equipped with a CU43 control unit.
- Cleaning of the seat and shaft seal areas is controlled via the air connections.
2 = to lift upper shaft
3 = to lift lower shaft
- The spray connection (C) cleans the leakage chamber.
- As an option, the closed and open positions of the DA4 can be detected via proximity switches.

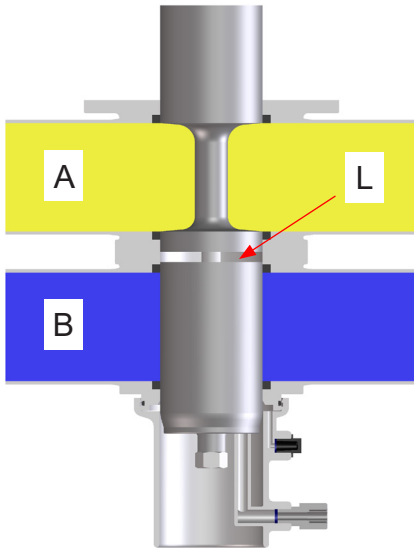
fig. 4.1.2.

DA4 with valve position indication



4. Mode of Operation

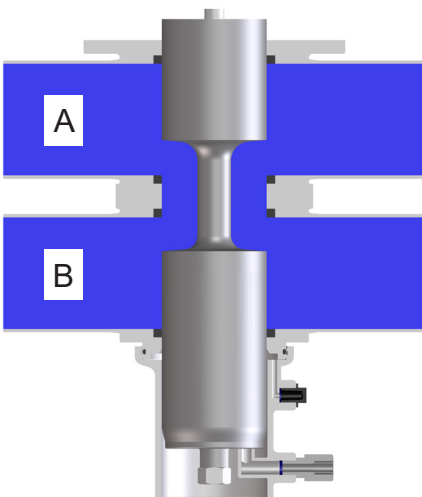
fig. 4.2.



4.2. Valve in "closed" position

The lower and upper valve shaft are in closed position and safely separate the different liquids A and B. The leakage chamber L, which is situated between the two valve shafts, provides for a free and depressurized discharge to the bottom. The valve shafts are balanced and protected against pressure hammer.

fig. 4.3.



4.3. Valve in "open" position

The upper valve shaft is pressed against the seal of the lower valve shaft by control of the actuator. First, the leakage chamber L is closed against the product chamber. Then the two valve shafts move downwards into the open position. The connection between the two pipelines A and B is established.

5. Control Units / Valve Position Indication

CU4 control unit



5.1. Control unit and adapter

An adapter is required to assemble the control unit on the DA4 valve.

All CU4's are available in communication protocols:

- AS-I
- Direct Connect
- IO-link
- AS-I 5

For available control units and adapters, see spare part list:
RN 502.047.01

5.2. Valve position indication

Proximity switches to signal the closed and open position of the DA4 valve can be installed at the proximity switch holder.

We recommend using one of these standard types:

three-wire proximity switch
operating distance: 5 mm
diameter: 11 mm
operating voltage: 10–30 V DC
pnp pulse-shifting, closing function
"non-flush" installation

Recommendation:

Proximity switch 24V DC, PNP, 11 mm DIA. (5 m cable): H16223
Proximity switch 24V DC, PNP, 11 mm DIA. (cable box): H16432

If the customer decides to use valve position indicators other than those listed above, SPX FLOW cannot assume any liability for the functionality of the valve.

6. Cleaning

6.5. Flushing quantity in ml per lifting cycle / 5 sec.

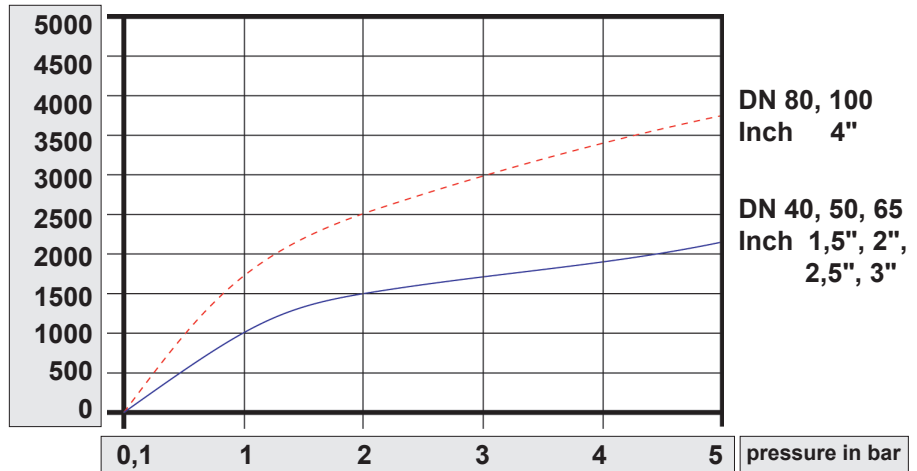
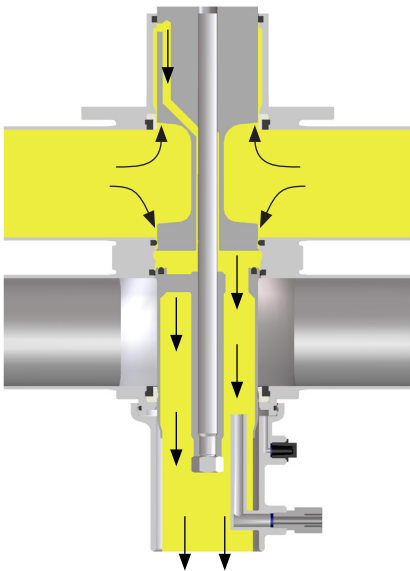


fig. 6.6.



6.6. Cleaning of upper area (fig. 6.6.)

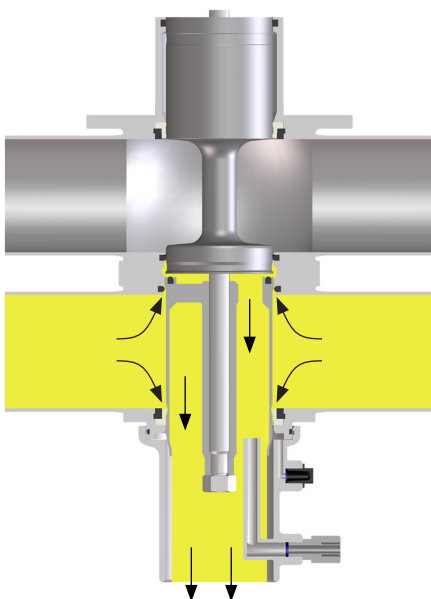
The upper valve shaft is lifted via connection (2), as shown in fig. 4.1 on page 8.

Through the lifting of the upper valve shaft, the cleaning fluid flushes over the upper seat seal and the upper valve seat into the leakage chamber and cleans this area. The cleaning fluid is drained off to the bottom in a depressurized state.

Simultaneously, the upper shaft seal and the outer surface of the upper valve shaft are cleaned. The cleaning fluid is guided into the leakage chamber and drained off to the bottom.

The lifting stroke is limited by a metallic stop.

fig. 6.7.



6.7. Cleaning of lower area (fig. 6.7.)

The lower valve shaft is lifted via connection (3), as shown in fig. 4.1 on page 8.

By lifting the lower valve shaft, the cleaning fluid flushes over the lower seat seal into the leakage chamber and cleans this area. The cleaning fluid is drained off to the bottom in a depressurized state.

Simultaneously, the lower shaft seal and the outer surfaces of the lower valve shaft are cleaned. The cleaning fluid is drained off to the bottom in a depressurized state.

The lifting stroke is limited by a metallic stop.

7. Installation and Commissioning



- The valve must be installed in vertical position to ensure that fluids can drain off freely from the valve housing and the leakage chamber.

Caution! Leakages and fluid losses from seat lifting and CIP spraying must be safely collected and drained!



- The valve housing can be welded directly into the pipeline (completely removable valve insert).

Note! Observe welding instructions.

- Observe heights of installation and dismantling!



Caution!
Before first startup:

- Actuate the valve by applying compressed air. The opening, closing and seat lifting processes must run smoothly.
- Check the function of the control unit or valve position indication.
- Check for possible leakages during commissioning. Replace defective seals.

7.1. Welding Instructions



- Before welding the valve, remove the valve insert from the housing.

Caution! Handle and store the valve insert carefully to avoid damaging the part.

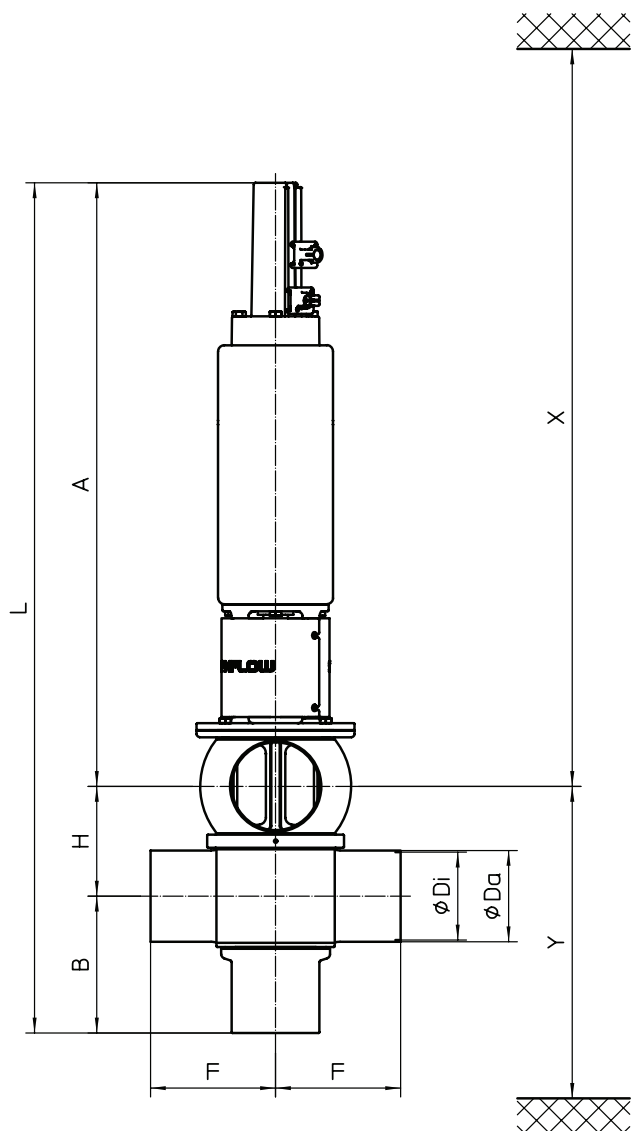
- It is not necessary to remove the lower shaft seal as it can be destroyed during removal.
- Welding should only be carried out by certified welders (DIN EN ISO 9606-1) (seam quality DIN EN ISO 5817).
- The welding of the valve housings must be undertaken in such a way that the valve body is not deformed.
- The preparation of the weld seam up to 3 mm thickness must be carried out as a square butt joint without air. Consider shrinkage!
- TIG orbital welding is recommended.



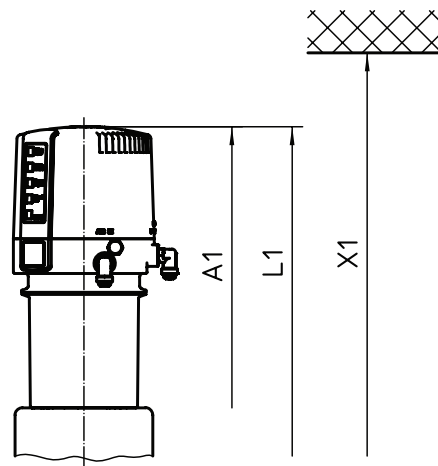
Caution! After welding the valve housing or mating flanges, and after performing any work on the piping, do not operate the valves until the corresponding areas of the installation and piping have been cleaned and welding residue has been removed. If the piping is not cleaned before operation, welding residue and dirt particles can settle in the valves and cause damage to the valves and seals.

- If these welding instructions are not followed, any resulting damage will not be covered by the warranty.
- Welding directives for aseptic applications shall be drawn from the AWS/ANSI Directives and EHEDG Guidelines.

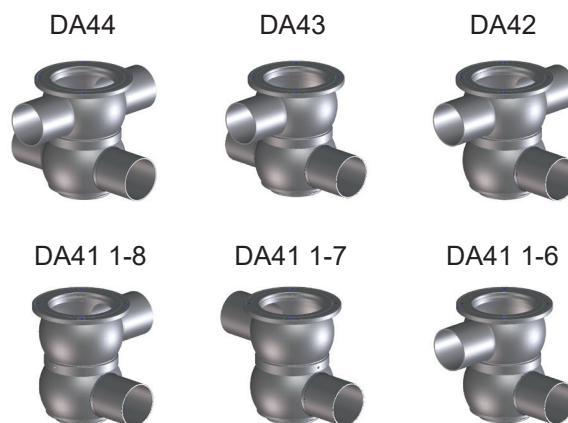
8. Dimensions / Weights



CU4 control unit



housing configuration



Dimensions in mm										install. dimen. min. in mm			weights in kg with CU
DN	A	A1	B	Ø Da	Ø Di	F	H	L	L1	X*	X1*	Y*	
40	589	672	120	41	38	125	63	772	855	810	895	200	16,5
50	593	676	126	53	50	125	75	794	877	840	925	218	17,6
65	601	684	134	70	66	125	91	826	909	880	965	242	18,7
80	678	761	146	85	81	142,5	106	930	1013	980	1070	274	18,8
100	688	771	156	104	100	142,5	125	969	1052	1035	1120	303	31,5
Inch													
1,5"	588	671	119	38,1	34,8	125	63	770	853	815	895	199	16,5
2"	594	677	125	50,8	47,6	125	75	794	877	845	925	217	17,6
2,5"	598	681	131	63,5	60,3	125	85,3	814,3	897,3	870	950	234	18,5
3"	604	687	137	76,1	72,9	125	97,9	838,9	921,9	900	980	252	18,8
4"	689	772	155	101,6	97,6	142,5	125	969	1052	1040	1120	302	31,5

*Minimum installation and valve insert removal dimensions

9. Technical Data

9.1. General data

Product-wetted parts	1.4404, 316L (DIN EN 10088)
Other parts	1.4301,304 (DIN EN 10088)
Seals standard options	EPDM/ PTFE compound HNBR/ PTFE compound FPM/ PTFE compound
Max. line pressure	10 bar
Max. operating temperature	135 °C EPDM, HNBR *FPM
Short-term load	140 °C EPDM, HNBR *FPM *no steam
Tightening torque for stop sleeve	10 Nm
Tightening torque for safety nuts at lower and upper valve shaft	40 Nm
Spray connection	PP (polypropylene)
Ø Cleaning connection DN 40–100/1,5-4"	8 x 1 mm
Ø Air connection	6 x 1 mm, 1/4" OD
Max. pneumatic air pressure	8 bar
Min. pneumatic air pressure	5 bar

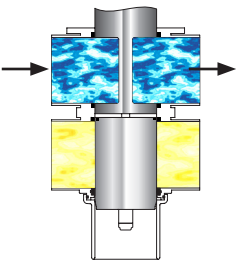
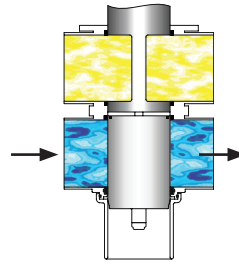
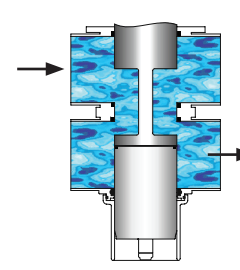
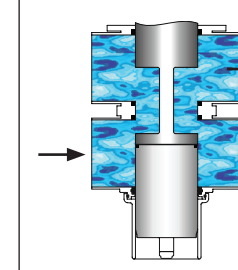
9.2. Compressed air quality

Quality class	acc. to DIN ISO 8573-1
Content of solid particles	quality class 3, max. size of solid particles per m ³ 10000 of 0,5 µm < d < 1,0 µm 500 of 1,0 µm < d < 5,0 µm
Content of water	quality class 3, max. dew point temperature -20°C For installations at lower temperatures or at higher altitudes, consider additional measures to reduce the pressure dew point accordingly.
Content of oil	quality class 1, max. 0,01 mg/m ³

The oil applied must be compatible with Polyurethane elastomer materials.

9. Technical Data

9.3. Kvs values in m³/hr

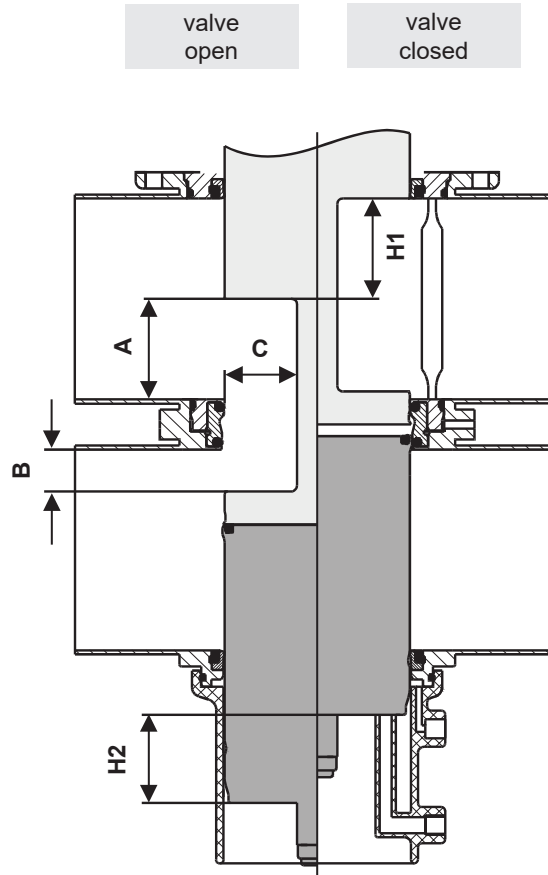
				
DN				
40	48	44	24	24
50	91	75	48	46
65	184	150	74	74
80	205	170	131	126
100	335	246	170	156
Inch				
1,5"	42	38	24	23
2"	83	71	46	46
2,5"	147	122	67	67
3"	183	160	83	82
4"	329	237	167	156

9.4. Air consumption / Switching times

		Air consumption at 5 bar			Switching times in seconds at 5 bar / CU43	
		Actuator	Seat lift actuator		Open	Closed
DN	Inch	NL/stroke valve open	NL/stroke upper seat lift	NL/stroke lower seat lift		
40	1,5"	1,7	3,4	0,3	1,5	1,8
50	2"	1,8	3,4	0,3	1,5	1,8
65	2,5"	2,0	3,4	0,3	1,7	2,0
	3"	2,0	3,4	0,3	1,7	2,0
80	4"	3,7	7,7	0,4	2,6	3,3
100		3,7	7,7	0,4	2,6	3,3

9. Technical Data

9.5. Valve stroke / Opening cross section



Dimensions in mm					
DN	A	B	C	stroke H1 upper shaft	stroke H2 lower shaft
40	4	5	21,2	34	28
50	11	10	21,2	39	33
65	21	16	21,2	45	39
80	31	21	35,2	50	44
100	50	21	35,2	50	44
Inch					
1,5"	4	5	21,2	34	28
2"	11	10	21,2	39	33
2,5"	15	16	21,2	45	39
3"	28	16	21,2	45	39
4"	50	21	35,2	50	44

10. Maintenance



Note!

The maintenance intervals are different depending on the application and must be determined by the operator performing regular checks.

- Compressed air is not required to remove the valve.



Caution!

Do not clean the valve with products containing abrasive or polishing substances. Abrasive and polishing agents are especially harmful to the upper and lower shaft.



Required tools for standard maintenance:

- 1 x wrench SW13, SW24, SW30, SW32
- 1 x wrench SW36
- 2 x wrench SW17
- 1 x Allen key SW3, SW6
- pick tool for O-ring and rubber seal removal
- disassembly and assembly tool for lower shaft seal, see page 24
- assembly tool for middle seal, see page 25
- 2 long M8 hex screws for safe removal of valve insert
- For valve maintenance SPX FLOW offers complete seal kits (see spare parts lists).



Caution!

The use of seal materials being compatible with the product, application and CIP liquids must be ensured. In case of doubt, contact your local SPX FLOW representative.

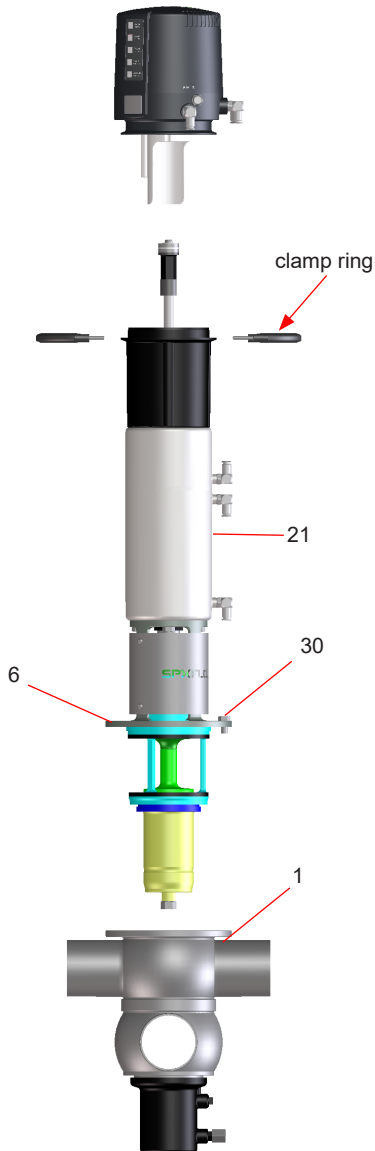
- For seal replacement instructions, see pages 20 and 21.
- Provide all seals with a thin layer of grease before their installation!
Recommendation:
Assembly grease for EPDM, HNBR and FPM (Viton)
0,75 kg/tin - ref.-No. 000 70-01-019/93; H147382
60 g/tube - ref.-No. 000 70-01-018/93; H147381
- Provide all screws and threaded parts with grease before their installation.
Recommendation: Klüber paste UH1 84-201
60 g/Tube - ref.-No. 000 70-01-016/93; H147379
Recommendation for actuator:
Pneumatic grease:
25 ml/tube - ref.-No. 000 70-01-008/93; H164725
- For valve assembly instructions, see page 21.

11. Service Instructions

The item numbers refer to the spare parts drawings
DIN and Inch designs: RN 502.047.01

For the Disassembly/Assembly tools, see chapter 13.

fig. 11.1.



11.1. Removal from the line system

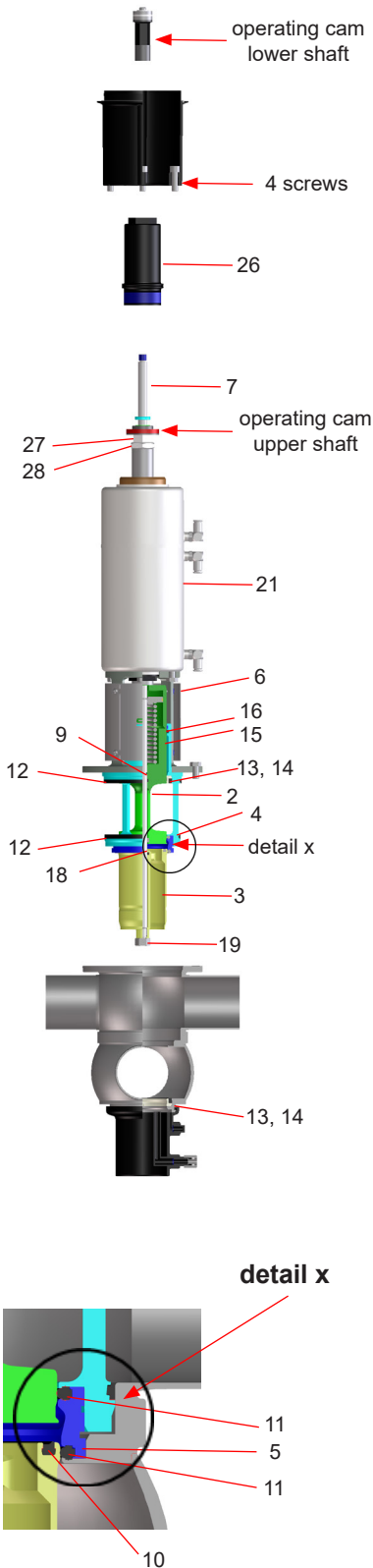


Caution!

1. Shut off the line pressure in the product and cleaning lines, and discharge the pipes if possible.
2. Remove the compressed air lines from the valve actuator (21).
3. Release the 2 screws at the clamp rings and lift the control unit off the adapter.
4. Design with proximity switch holder:
Release the screws at the proximity switch holder and lift off the proximity switch holder.
5. Remove the flange screws (30) in the yoke (6). For additional safety, replace two flange screws with longer screws that are partially threaded into the flange. Once these longer screws are in place, the other two flange screws can be safely removed.
6. Screw one flange screw (30) into the threaded bore of the yoke (6) to lift the complete valve insert. Do not remove the screw. It helps to re-install the valve insert.
7. Carefully lift the valve insert vertically out of the valve housing (1).

11. Service Instructions

fig. 11.2.

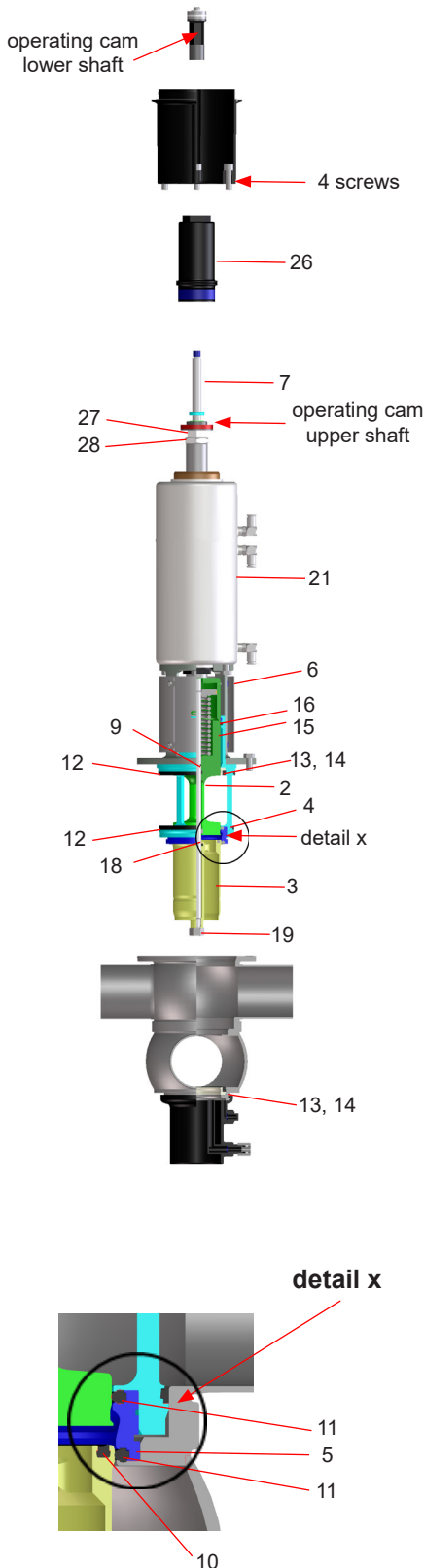


11.2. Removal of product-wetted parts

1. Remove the operating cam from the guide rod (7).
2. In order to take off the adapter, remove the 4 screws.
3. Remove the lower and upper housing seal (12) from the valve seat (4).
4. Release the lower safety nut (19). Hold the lower shaft (3) with an SW17 wrench to keep it from turning.
5. After removing the nut (19), lift off the lower shaft (3).
6. Place the point of the pick tool along the side of the middle seal (10) and pull it out of the groove. Take the quad ring (18) out of the groove.
7. Remove the stop screw (26).
8. Take the guide rod (7) out through the top of the actuator and remove the O-ring (9).
9. Remove the operating cam at the upper shaft.
10. Unscrew the safety nut (27). Hold up the lock washer (28) with a SW30 key to keep it from turning. Remove the lock washer.
11. Lift off the actuator (21) with yoke (6).
12. Press the upper valve shaft (2) with seat ring (5) to the bottom out of the valve seat (4).
13. Slide the seat ring (5) over the balancer of the upper valve shaft (2).
14. Remove the seat seals (11) from the grooves.
15. Removing the upper shaft seal (13, 14)
Place the point of a tool along the side of the seat seal (13) and pull it out of the valve seat, then remove the PTFE seal (14).
16. Remove the quad ring (15) and guide ring (16) from the groove of the valve seat (4).
17. Removing the lower shaft seal from the housing
Place the point of the disassembly tool along the side of the seat seal (13) and pull it out through the top of the housing. Then remove the PTFE seal (14) through the top of the housing, using the mandril of the assembly tool, see page 20.

11. Service Instructions

fig. 11.3.



11.3. Installation of product-wetted seals and assembly of the valve



Note! Make sure that all seals and bearing surfaces in the product area are slightly greased before their installation.

1. Install the lower shaft seal (13, 14) in the lower housing flange.
2. Place the quad ring (15) and the guide ring (16) in the valve seat (4).
3. Installing the upper shaft seal (13, 14) in the valve seat (4). Insert the PTFE ring (14), first. Then press the seat seal (13), the wide side to the front, into the groove between the PTFE seal (14) and the valve seat (4).
4. Install the upper and lower housing seals (12).
5. Press the upper and lower seat seal (11) into the seat ring (5).



Note! The seal shoulder must fit properly into the groove.

6. Slide the seat ring (5) (the larger diameter to the bottom) from the top over the balancer of the upper valve shaft (2).
7. Slide the valve seat (4) over the balancer of the upper valve shaft (2) in the same way.
8. Insert the upper valve shaft (2) with seat ring (5) and valve seat (4) through the yoke (6) and actuator (21) until it stops.
9. Align key and fasten the upper valve shaft (2) with the lock washer (28) and safety nut (27). Hold the lock washer with a SW30 wrench to keep the safety nut (27) from turning.
Tightening torque: $M_d = 40 \text{ Nm}$



Caution! Overtightening of the safety nut could result in thread damage on the upper shaft.

10. Screw the operating cam on the upper shaft.
11. Insert the middle seal (10) into the lower shaft (3) using the assembly tool (see page 21).
12. Assembling without the assembly tool:
Press the slightly greased seal into the groove at four locations. Then push in the four loops of seal with a blunt object. Vent the seal groove.
13. Insert the quad ring (18) in the lower shaft (3).
14. Install the O-ring (9) at the guide rod (7).
15. Ensure the key is secure on the guide rod. Slide in the guide rod (7) from the top through the actuator (21) until it stops.
16. Screw in the stop screw (26) until it stops.
Tightening torque $M_d = 10 \text{ Nm}$
The stop screw must be flush with the top of the piston.



Note! Check the position of the lower seat seal (11).

11. Service Instructions

fig. 11.4.

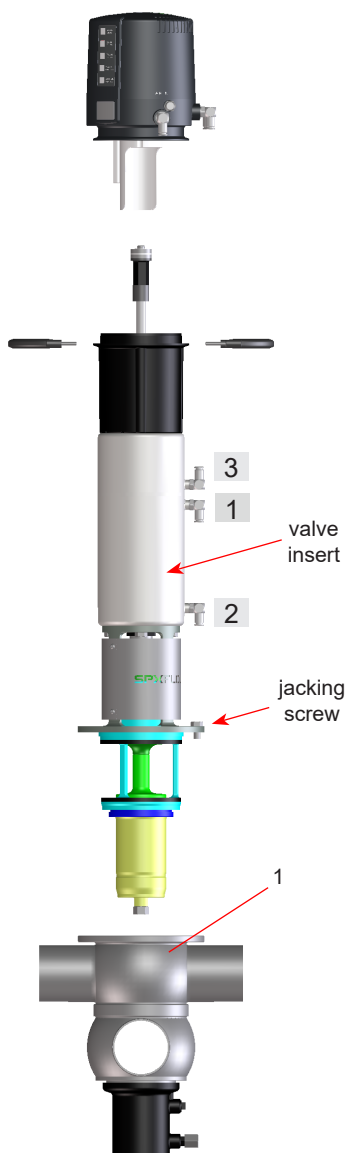
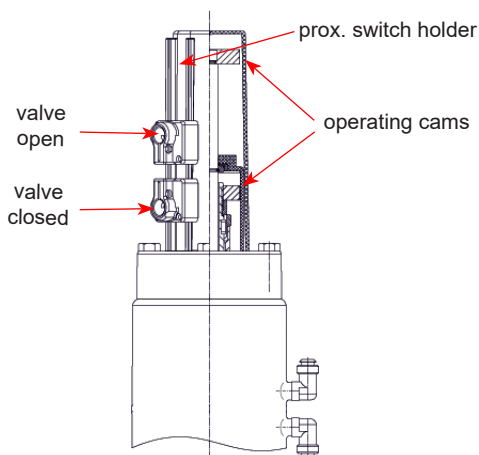


fig. 11.4.1.

DA4 with valve position indication



17. Slide the lower valve shaft (3) on the guide rod (7). Align key and fasten it with the safety nut (19).

Tightening torque: $M_d = 40 \text{ Nm}$

18. Fasten the adapter on the actuator with the 4 screws and ensure that the air fittings on the control unit will align properly with the air fittings on the DA4 valve.

19. Screw the operating cam on the guide rod (7).

11.4. Installation of the valve insert

1. Carefully place the valve insert in the valve housing (1) until the screw stops.

2. Remove the jacking screw and carefully press the valve insert into the housing (1).

3. Screw in the hex. screws (30) and fasten them crosswise.

4. Place the control unit on the adapter. Make sure that the control unit is centered on the adapter.

5. Place the clamp ring and fasten it with the screws.

6. Assemble the compressed air lines.

Air connection 1: to open valve

Air connection 2: to lift upper shaft

Air connection 3: to lift lower shaft

7. Check the valve position indicators

Closed valve position feedback – sensor 1 controlled

To adjust Hall sensor 1, ensure that the valve is in the closed position, the solenoid / manual override are not activated. Turn adjustment screw 3 into the required position. The LED "Valve Closed" lights up.

Open valve position feedback – sensor 2 controlled

To adjust Hall sensor 2, first activate the solenoid valve 1, either manually or electrically. Then turn adjustment screw 1, to adjust the open valve position and the corresponding feedback. When it reaches the required position, the LED "Valve Open" lights up.

Observe the switching hysteresis of the Hall effect sensors!

Therefore, adjust the switch point of the sensors with overlap in order to permit small variations. We recommend additional $2 \times 360^\circ$ turns of the adjustment screw.

8. Design with proximity switch holder:

Set the proximity switch holder in position and fasten it with the screws. Check to see if the "Valve Closed" or "Valve Open" message appears. Re-position the proximity switch if required.

12. Maintenance of Actuator

fig. 12.1



The item numbers refer to the spare parts drawings
DIN and Inch designs: RN 502.047.01

12.1 Removing the actuator screws

1. Remove yoke cover and yoke.
2. Unscrew the two actuator screws (20) with an SW36 socket wrench.
3. Remove the V-seals (24) and O-rings (23).

12.2 Installing the seals and assembling the actuator

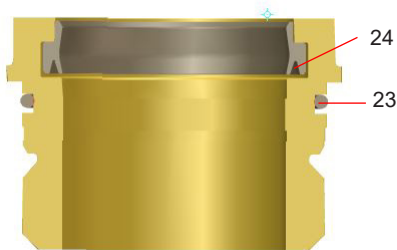
1. Install the slightly greased O-rings (23) and V-seals (24) in the actuator screws (20) (fig. 12.2). Check the correct installation position of the V-seal (24).

Recommendation for actuator:

Pneumatic grease
(25 ml /tube - ref.-No. 000 70-01-008/93; H164725)

2. Place the assembly tool (H338580) on the end of the piston rod. Screw the actuator screws (20) with a socket wrench SW36 over the piston rod at both sides of the actuator and fasten them.
3. Re-install yoke and yoke cover.

fig. 12.2



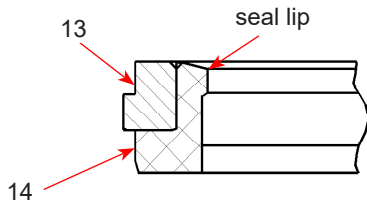
actuator screw

Assembly tool for actuator screw (H338580)

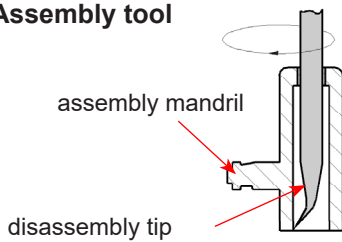


13. Assembly Instructions and Tools for Seals

Seal



Assembly tool



13.1. Lower shaft seal (pos. 13, 14)

For a simple disassembly and assembly of the lower shaft seal (13, 14) the universal tool (ref.-No. 000 51-13-100/17; H171889) can be used. This tool is especially recommended for valves of the small series (DN 40-65, 1,5"-3") as access to the lower shaft seal from the top is impossible as a result of the narrow seat.



Caution!

Do not damage the seal lip of the PTFE seal during assembly.

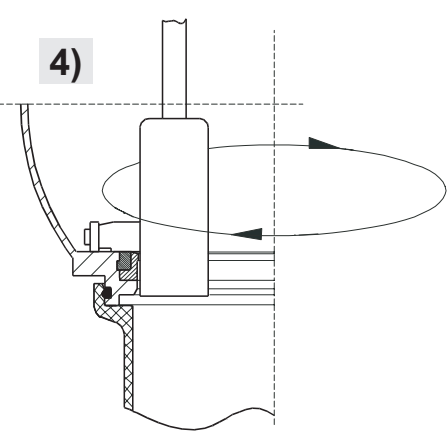
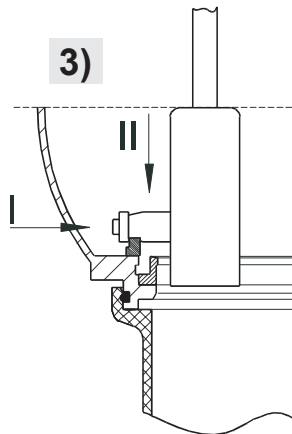
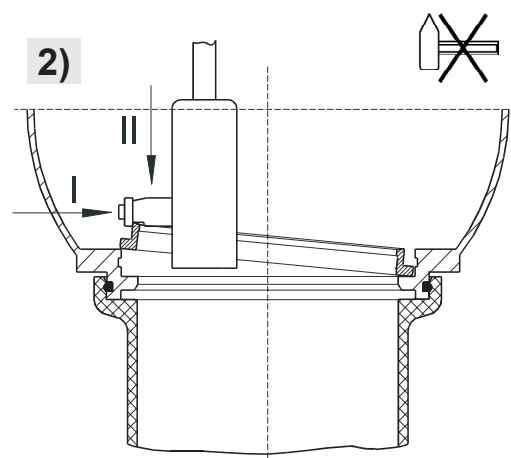
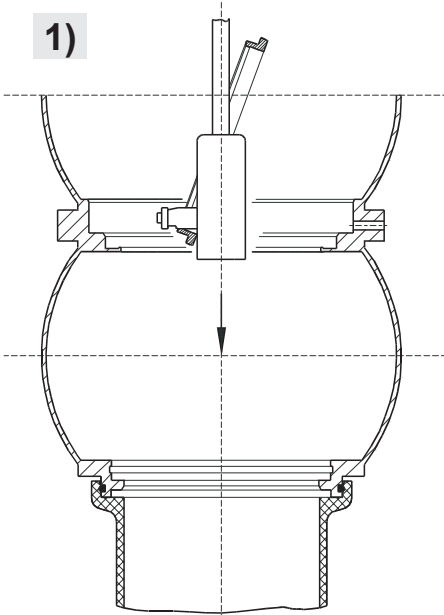
To avoid injuries the disassembly tip must be covered by the assembly mandril if not used.

13.2. PTFE seal (fig. 1, 2)

1. Press the PTFE ring (14) into an oval shape.
2. Introduce the PTFE ring (14) from the top using the assembly tool, the wide side to the front, through the intermediate ring of the housing into the lower housing (fig. 1).
3. Pull the PTFE ring (14) into a round shape with the assembly mandril (fig. 2/I) and press it into the groove. Do not knock or beat (fig. 2/II)!

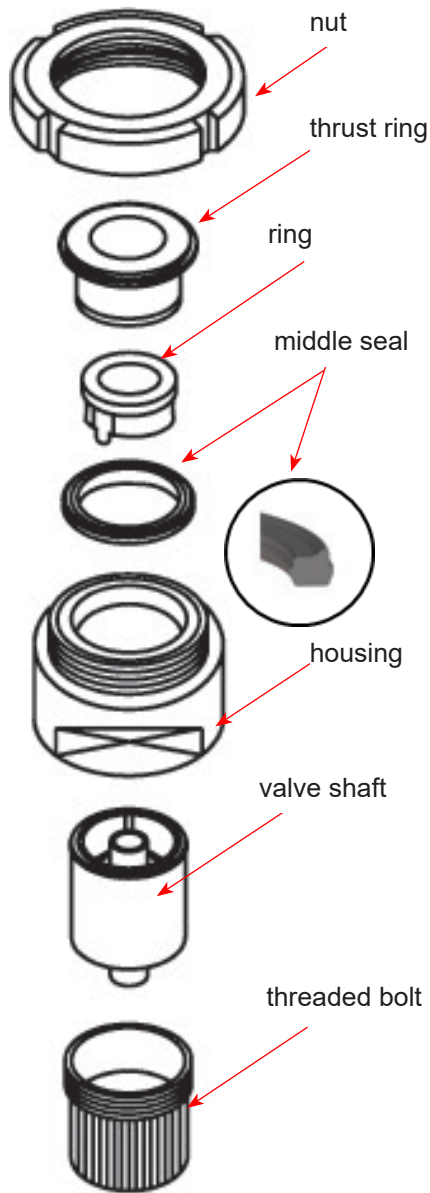
13.3. Seat seal (fig. 1, 3, 4)

1. Slightly grease the seal (13).
2. Use the assembly tool to insert the seat seal (13) from the top, the wide side to the front, through the intermediate ring of the housing into the lower housing ball (fig. 1).
3. Position the seat seal (13) using the groove of the assembly mandril (fig. 3/I).
4. Press in the seat seal (13) at one spot between the housing flange and the PTFE seal (14) (fig. 3/II).
5. Slide the assembly mandril around the seat seal (13) to insert the seal completely into the groove (fig. 4). Make sure the seat seal (13) fits evenly in the groove.



13. Assembly Instructions and Tools for Seals

13.4 Middle Seal



The assembly tool consists of:

- nut
- thrust ring
- ring with venting tip
- housing
- threaded bolt

Installation of the middle seal in the valve shaft

1. Insert the valve shaft into the housing making sure that the seal groove is in the housing.
2. Use the threaded bolt to clamp the shaft into the housing. Clamp the housing into a vice.
3. Slightly grease the middle seal with assembly grease. Then install the seal on the ring.
4. Insert the ring with the installed seat seal into the housing. Make sure that the venting tip is positioned in the seal groove.
5. Insert the thrust ring around the ring in the housing. Screw on the nut and tighten it with a hook spanner until it stops.
6. Release the nut. Take the ring and thrust ring off the housing.
7. Take the housing out of the vice. Take off the threaded bolt. Detach the valve shaft from the housing.

Make sure the middle seal fits evenly.

Assembly tool for middle seal			
DN	Inch	Designation	Reference number
40	1,5"	DA3 - 62	51 - 13 - 210/17 H207310
50	2"		
65	2,5" 3"		
80	4"	DA3 - 92	51 - 13 - 211/17 H207311
100			

14. Trouble Shooting

Failure	Valve position		Required seal replacement
	closed	open	
Leakage at upper housing flange	x	x	upper housing seal (12)
Leakage from the leakage bore between the connecting ports	x	x	lower housing seal (12) and seat seals (11)
Leakage from the yoke	x	x	upper shaft seal (13, 14) and seal of flushing chamber (15)
Leakage from the inside of the lower valve shaft	x		seat seals (11) and upper shaft seal (13, 14)
Leakage from the inside of the lower valve shaft		x	middle seal (10)
Leakage at the outside of the lower valve shaft (remove spray connection for this purpose)	x	x	lower shaft seal (13, 14)

The position numbers refer to the spare parts drawing.

15. Spare Parts Lists

The reference numbers of the spare parts for the different valve designs and sizes are included in the attached spare parts drawings with corresponding lists.

Please indicate the following data to place an order for spare parts:

- number of required parts
- reference number
- designation

Data are subject to change.

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Spare parts list:

Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100

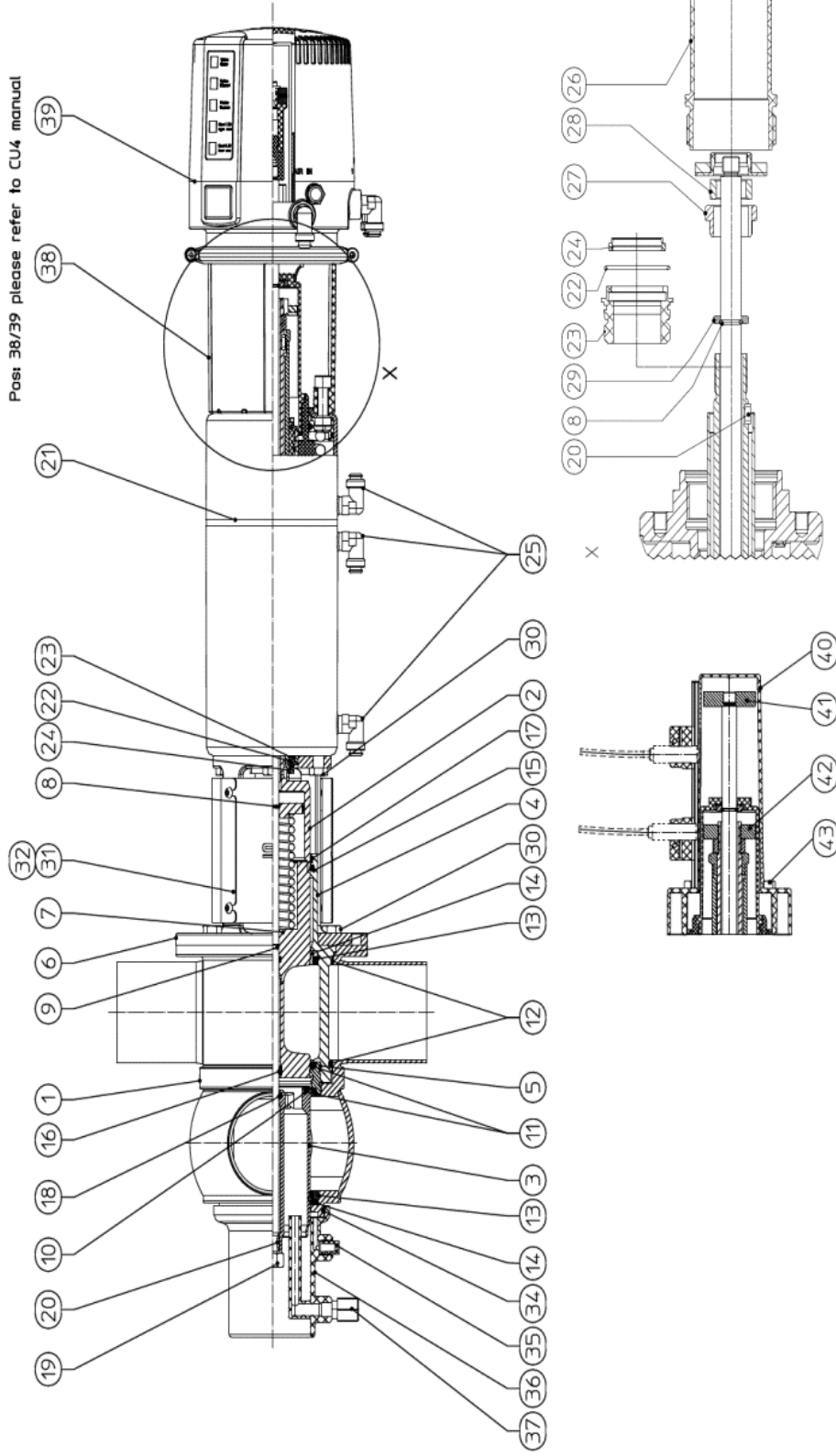
Date:	21.03.18	30.10.18	11.10.19	17.06.20
Name:	C.Keil	C.Keil	Sze-Si.	C.Keil
Approved by:				
Date:	13.02.24			
Name:	N.Shre			
Approved by:				

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Pos: 38/39 please refer to CU4 manual



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		C.Keil		N.Shre	
Name:					
Approved by:					
Date:				Page 2 of 22	
Name:				RN 502.047.01	
Approved by:					

Spare parts list:

Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100
DN 40

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
		D41 1-6		1.4404	H337210	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337200	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
		D41 1-8		1.4404	H337220	21	1	Actuator	22, 23, 24	1.4301	H335475
1	1	Housing		1.4404	H337043	22	2	O-ring	30 x 2,5	NBR	H337897
		DA2		1.4404	H337053	23	2	Actuator screw		Igildur J350	H334376
		DA3		1.4404	H335509	24	2	V-seal		NBR	H334379
		DA4		1.4404	H341275	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
2	1	Upper valve shaft	16, 20, 28	1.4404	H335369	26	1	Stop screw		Grivory	H334382
3	1	Lower valve shaft		1.4404	H335363	27	1	Lock washer D4		1.4301	H335172
4	1	Valve seat		1.4404	H334441	28	1	Safety nut D3		1.4301	H147640
5	1	Seat ring		1.4404	H334450	29	1	Thrust ring		1.4057	H123151
6	1	Yoke		1.4404	H341304	30	8	Hex. screw M8 x 16		A2	H78772
7	1	Guide rod	8, 9, 19, 20	1.4404	H14883	31	1	Yoke cover D4	32	1.4301	H341315
8	2	Retainer ring		1.4310	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
9	1	O-ring 9.25 x 1.78		EPDM	H327602	33					
10	1	Middle seal		EPDM	H332652	34	1	O-ring		EPDM	H77039
				HNBR	H332653	35	1	Venting plug G-1/8"		PE-Hard	H16507
				FPM	H149618	36	1	Spray connection DE3		PP	H168321
11	2	Seat seal		EPDM	H168900	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
				HNBR	H326355	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
12	2	Housing seal		EPDM	H77543	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				HNBR	H170075	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
13	2	Seat seal		EPDM	H77515	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
				HNBR	H166678	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
14	2	Shaft seal		FPM	H326354	43	4	Hex. screw M8x40		A2-70	H336675
15	1	Quad ring		PTFE	H335232						
16	1	Guide ring		EPDM	H150898						
17	1	Piston ring		Igildur A500	H320447						
18	1	Quad ring	12,37x 2,62	Igildur A500	H334863						
				EPDM	H311646						

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		C.Keil		N.Shre	
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Date:				Page 4 of 22	
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Spare parts list:

**Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100
1,5"**

SPX FLOW

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
		D41 1-6		1.4404	H337215	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337205	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
		D41 1-8		1.4404	H337225	21	1	Actuator	22, 23, 24	1.4301	H335475
1	1	Housing		1.4404	H337048	22	2	O-ring	30 x 2,5	NBR	H337897
		DA2		1.4404	H337058	23	2	Actuator screw		Igilidur J350	H334376
		DA3		1.4404	H335511	24	2	V-seal		NBR	H334379
		DA4		1.4404	H341275	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
2	1	Upper valve shaft	16, 20, 28	1.4404	H335369	26	1	Stop screw		Grivory	H334382
3	1	Lower valve shaft		1.4404	H335363	27	1	Lock washer D4		1.4301	H335172
4	1	Valve seat		1.4404	H334441	28	1	Safety nut D3		1.4301	H147640
5	1	Seat ring		1.4404	H334450	29	1	Thrust ring		1.4057	H123151
6	1	Yoke		1.4404	H341304	30	8	Hex. screw M8 x 16		A2	H78772
7	1	Guide rod	8, 9, 19, 20	1.4310	H14883	31	1	Yoke cover D4	32	1.4301	H341315
8	2	Retainer ring		EPDM	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
9	1	O-ring 9.25 x 1.78		EPDM	H327602	33					
10	1	Middle seal		HNBR	H332652	34	1	O-ring		EPDM	H77039
				FPM	H332653	35	1	Venting plug G-1/8"		PE-Hard	H16507
				EPDM	H149618	36	1	Spray connection DE3		PP	H168321
11	2	Seat seal		HNBR	H168900	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
				FPM	H326355	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
12	2	Housing seal		HNBR	H77543	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				FPM	H170075	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
13	2	Seat seal		EPDM	H77515	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
				HNBR	H166678	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
14	2	Shaft seal		FPM	H326354	43	4	Hex. screw M8x40		A2-70	H336675
15	1	Quad ring		PTFE	H335232						
16	1	Guide ring		EPDM	H150898						
17	1	Piston ring		Igilidur A500	H320447						
18	1	Quad ring	12,37x 2,62	Igilidur A500	H334863						
				EPDM	H311646						

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		Name: C.Keil	Size-Si:	N. Shre		
		Approved by:				
		Date:			Page 6	of 22
		Name:			RN 502.047.01	
		Approved by:				

**Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100
DN 50**

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
		D41 1-6		1.4404	H337211	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337201	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
		D41 1-8		1.4404	H337221	21	1	Actuator	22, 23, 24	1.4301	H335474
1	1	Housing	DA2	1.4404	H337044	22	2	O-ring	30 x 2,5	NBR	H337897
			DA3	1.4404	H337054	23	2	Actuator screw		Igildur J350	H334376
			DA44	1.4404	H335510	24	2	V-seal		NBR	H334379
2	1	Upper valve shaft	16, 20, 28	1.4404	H341276	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
3	1	Lower valve shaft		1.4404	H335370	26	1	Stop screw		Grivory	H334382
4	1	Valve seat		1.4404	H335364	27	1	Lock washer D4		1.4301	H335172
5	1	Seat ring		1.4404	H334441	28	1	Safety nut D3		1.4301	H147640
6	1	Yoke		1.4301	H334450	29	1	Thrust ring		1.4057	H123151
7	1	Guide rod	8, 9, 19, 20	1.4404	H341305	30	8	Hex. screw M8 x 16		A2	H78772
8	2	Retainer ring		1.4310	H14883	31	1	Yoke cover D4	32	1.4301	H341315
9	1	O-ring 9.25 x 1.78		EPDM	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
10	1	Middle seal		EPDM	H327602	33					
				HNBR	H332652	34	1	O-ring		EPDM	H77039
				FPM	H332653	35	1	Venting plug G-1/8"		PE-Hard	H16507
				EPDM	H149618	36	1	Spray connection DE3		PP	H168321
11	2	Seat seal		HNBR	H168900	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
				FPM	H326355	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
12	2	Housing seal		HNBR	H77543	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				FPM	H170075	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
13	2	Seat seal		EPDM	H326353	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
				HNBR	H77515	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
14	2	Shaft seal		PTFE	H335232	43	4	Hex. screw M8x40		A2-70	H336675
15	1	Quad ring		EPDM	H150898						
16	1	Guide ring		Igildur A500	H320447						
17	1	Piston ring		Igildur A500	H334863						
18	1	Quad ring	12,37x 2,62	EPDM	H311646						

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		C.Keil		N.Shre	
Name:					
Approved by:					
Date:				Page 8 of 22	
Name:				RN 502.047.01	
Approved by:					

Spare parts list:

Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100
2"

SPX FLOW

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
		D41 1-6		1.4404	H337216	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337206	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
		D41 1-8		1.4404	H337226	21	1	Actuator	22, 23, 24	1.4301	H335474
1	1	Housing		1.4404	H337049	22	2	O-ring	30 x 2,5	NBR	H337897
		DA2		1.4404	H337059	23	2	Actuator screw		Igilidur J350	H334376
		DA3		1.4404	H335512	24	2	V-seal		NBR	H334379
		DA4		1.4404	H341276	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
2	1	Upper valve shaft	16, 20, 28	1.4404	H335370	26	1	Stop screw		Grivory	H334382
3	1	Lower valve shaft		1.4404	H335364	27	1	Lock washer D4		1.4301	H335172
4	1	Valve seat		1.4404	H334441	28	1	Safety nut D3		1.4301	H147640
5	1	Seat ring		1.4404	H334450	29	1	Thrust ring		1.4057	H123151
6	1	Yoke		1.4404	H341305	30	8	Hex. screw M8 x 16		A2	H78772
7	1	Guide rod	8, 9, 19, 20	1.4310	H14883	31	1	Yoke cover D4	32	1.4301	H341315
8	2	Retainer ring		EPDM	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
9	1	O-ring 9.25 x 1.78		EPDM	H327602	33					
10	1	Middle seal		HNBR	H332652	34	1	O-ring		EPDM	H77039
				FPM	H332653	35	1	Venting plug G-1/8"		PE-Hard	H16507
				EPDM	H149618	36	1	Spray connection DE3		PP	H168321
11	2	Seat seal		HNBR	H168900	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
				FPM	H326355	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
12	2	Housing seal		HNBR	H77543	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				FPM	H170075	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
13	2	Seat seal		EPDM	H77515	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
				HNBR	H166678	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
14	2	Shaft seal		FPM	H326354	43	4	Hex. screw M8x40		A2-70	H336675
15	1	Quad ring		PTFE	H335232						
16	1	Guide ring		EPDM	H150898						
17	1	Piston ring		Igilidur A500	H320447						
18	1	Quad ring	12,37x 2,62	Igilidur A500	H334863						
				EPDM	H311646						

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Spare parts list:

Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100
DN 65

SPX FLOW

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
						19	1	Safety nut M10x1		A2	H118903
		D41 1-6		1.4404	H337212	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
		D41 1-7		1.4404	H337202	21	1	Actuator	22, 23, 24	1.4301	H334430
1	1	Housing		1.4404	H337222	22	2	O-ring 30 x 2,5		NBR	H337897
		DA2		1.4404	H337045	23	2	Actuator screw		Igildur J350	H334376
		DA3		1.4404	H337055	24	2	V-seal		NBR	H334379
		DA44		1.4404	H334418	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
2	1	Upper valve shaft	16, 20, 28	1.4404	H341277	26	1	Stop screw		Grivory	H334382
3	1	Lower valve shaft		1.4404	H334422	27	1	Lock washer D4		1.4301	H335172
4	1	Valve seat		1.4404	H334439	28	1	Safety nut D3		1.4301	H147640
5	1	Seat ring		1.4404	H334441	29	1	Thrust ring		1.4057	H123151
6	1	Yoke		1.4301	H334450	30	8	Hex. screw M8 x 16		A2	H78772
7	1	Guide rod	8, 9, 19, 20	1.4404	H341306	31	1	Yoke cover D4	32	1.4301	H341315
8	2	Retainer ring		1.4310	H14883	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
9	1	O-ring 9.25 x 1.78		EPDM	H148388	33					
10	1	Middle seal		EPDM	H327602	34	1	O-ring		EPDM	H77039
				HNBR	H332652	35	1	Venting plug G-1/8"		PE-Hard	H16507
				FPM	H332653	36	1	Spray connection DE3		PP	H168321
11	2	Seat seal		EPDM	H149618	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
				HNBR	H168900	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
12	2	Housing seal		FPM	H326355	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				HNBR	H77543	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
13	2	Seat seal		EPDM	H170075	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
				HNBR	H326353	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
14	2	Shaft seal		PTFE	H335232	43	4	Hex. screw M8x40		A2-70	H336675
15	1	Quad ring		EPDM	H150898						
16	1	Guide ring		Igildur A500	H320447						
17	1	Piston ring		Igildur A500	H334863						
18	1	Quad ring	12,37x 2,62	EPDM	H311646						

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Spare parts list:											
Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100 2,5"											
Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.

		D41 1-6		1.4404	H337217	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337227	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
1	1	Housing		1.4404	H337207	21	1	Actuator	22, 23, 24	1.4301	H334430
		DA2		1.4404	H337050	22	2	O-ring	30 x 2,5	NBR	H337897
		DA3		1.4404	H337060	23	2	Actuator screw		Igildur J350	H334376
		DA4		1.4404	H335513	24	2	V-seal		NBR	H334379
2	1	Upper valve shaft	16, 20, 28	1.4404	H341278	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
3	1	Lower valve shaft		1.4404	H335371	26	1	Stop screw		Grivory	H334382
4	1	Valve seat		1.4404	H335565	27	1	Lock washer D4		1.4301	H335172
5	1	Seat ring		1.4404	H334441	28	1	Safety nut D3		1.4301	H147640
6	1	Yoke		1.4301	H334450	29	1	Thrust ring		1.4057	H123151
7	1	Guide rod	8, 9, 19, 20	1.4404	H341307	30	8	Hex. screw M8 x 16		A2	H78772
8	2	Retainer ring		1.4310	H14883	31	1	Yoke cover D4	32	1.4301	H341315
9	1	O-ring 9.25 x 1.78		EPDM	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
10	1	Middle seal		EPDM	H327602	33					
				HNBR	H332652	34	1	O-ring		EPDM	H77039
				FPM	H332653	35	1	Venting plug G-1/8"		PE-Hard	H16507
11	2	Seat seal		EPDM	H149618	36	1	Spray connection DE3		PP	H168321
				HNBR	H168900	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
12	2	Housing seal		FPM	H326355	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
				HNBR	H77543	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				FPM	H170075	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
13	2	Seat seal		EPDM	H77515	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
				HNBR	H166678	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
14	2	Shaft seal		FPM	H326354	43	4	Hex. screw M8x40		A2-70	H336675
15	1	Quad ring		PTFE	H335232						
16	1	Guide ring		EPDM	H150898						
17	1	Piston ring		Igildur A500	H320447						
18	1	Quad ring	12,37x 2,62	Igildur A500	H334863						
				EPDM	H311646						

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Spare parts list:		Date:	21.03.18	11.10.19	13.02.24	SPX FLOW	
		Name:	C.Keil	Size-Si.	N.Shre		
Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100 3"		Approved by:				Page 14 of 22 RN 502.047.01	
		Date:					
		Name:					
		Approved by:					

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
		D41 1-6		1.4404	H337218	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337208	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
1	1	Housing		1.4404	H337228	21	1	Actuator	22, 23, 24	1.4301	H334430
		DA2		1.4404	H337051	22	2	O-ring	30 x 2,5	NBR	H337897
		DA3		1.4404	H337061	23	2	Actuator screw		Igildur J350	H334376
		DA4		1.4404	H335514	24	2	V-seal		NBR	H334379
2	1	Upper valve shaft	16, 20, 28	1.4404	H341280	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
3	1	Lower valve shaft		1.4404	H335372	26	1	Stop screw		Grivory	H334382
4	1	Valve seat		1.4404	H335366	27	1	Lock washer D4		1.4301	H335172
5	1	Seat ring		1.4404	H334441	28	1	Safety nut D3		1.4301	H147640
6	1	Yoke		1.4301	H335748	29	1	Thrust ring		1.4057	H123151
7	1	Guide rod	8, 9, 19, 20	1.4404	H341309	30	8	Hex. screw M8 x 16		A2	H78772
8	2	Retainer ring		1.4310	H14883	31	1	Yoke cover D4	32	1.4301	H341315
9	1	O-ring 9.25 x 1.78		EPDM	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
10	1	Middle seal		EPDM	H327602	33					
				HNBR	H332652	34	1	O-ring		EPDM	H77039
				FPM	H332653	35	1	Venting plug G-1/8"		PE-Hard	H16507
11	2	Seat seal		EPDM	H149618	36	1	Spray connection DE3		PP	H168321
				HNBR	H168900	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
12	2	Housing seal		FPM	H326355	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
				HNBR	H170075	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
13	2	Seat seal		EPDM	H77515	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
				HNBR	H166678	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
14	2	Shaft seal		FPM	H326354	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
15	1	Quad ring		PTFE	H335232	43	4	Hex. screw M8x40		A2-70	H336675
16	1	Guide ring		EPDM	H150898						
17	1	Piston ring		Igildur A500	H320447						
18	1	Quad ring	12,37x 2,62	Igildur A500	H334863						
				EPDM	H311646						

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Spare parts list:

Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100
DN 80

SPX FLOW

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
		D41 1-6		1.4404	H337213	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337203	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
		D41 1-8		1.4404	H337223	21	1	Actuator	22, 23, 24	1.4301	H335883
1	1	Housing		1.4404	H337046	22	2	O-ring	30 x 2,5	NBR	H337897
		DA2		1.4404	H337056	23	2	Actuator screw		Igildur J350	H334376
		DA3		1.4404	H335845	24	2	V-seal		NBR	H334379
		DA4		1.4404	H341279	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
2	1	Upper valve shaft	16, 20, 28	1.4404	H335373	26	1	Stop screw		Grivory	H334382
3	1	Lower valve shaft		1.4404	H335367	27	1	Lock washer D4		1.4301	H335172
4	1	Valve seat		1.4404	H335872	28	1	Safety nut D3		1.4301	H147640
5	1	Seat ring		1.4404	H335748	29	1	Thrust ring		1.4057	H123151
6	1	Yoke		1.4404	H341308	30	8	Hex. screw M8 x 16		A2	H78772
7	1	Guide rod	8, 9, 19, 20	1.4404	H14883	31	1	Yoke cover D4	32	1.4301	H341316
8	2	Retainer ring		1.4310	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
9	1	O-ring 9.25 x 1.78		EPDM	H327985	33					
10	1	Middle seal		EPDM	H332649	34	1	O-ring		EPDM	H77061
				HNBR	H332648	35	1	Venting plug G-1/8"		PE-Hard	H16507
				FPM	H149619	36	1	Spray connection DE3		PP	H168322
11	2	Seat seal		HNBR	H168901	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
				FPM	H153318	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
12	2	Housing seal		EPDM	H77583	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				HNBR	H170074	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
				FPM	H77582	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
13	2	Seat seal		EPDM	H77586	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
				HNBR	H166682	43	4	Hex. screw M8x40		A2-70	H336675
				FPM	H336388						
14	2	Shaft seal		PTFE	H335934						
15	1	Quad ring		EPDM	H148387						
16	1	Guide ring		Igildur A500	H320447						
17	1	Piston ring		Igildur A500	H335702						
18	1	Quad ring	12,37x 2,62	EPDM	H311646						

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Spare parts list:

Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100
DN 100

SPX FLOW

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
		D41 1-6		1.4404	H337214	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337204	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
		D41 1-8		1.4404	H337224	21	1	Actuator	22, 23, 24	1.4301	H335883
1	1	Housing	DA2	1.4404	H337047	22	2	O-ring	30 x 2,5	NBR	H337897
			DA3	1.4404	H337057	23	2	Actuator screw		Igildur J350	H334376
			DA44	1.4404	H335848	24	2	V-seal		NBR	H334379
2	1	Upper valve shaft	16, 20, 28	1.4404	H341281	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
3	1	Lower valve shaft		1.4404	H335374	26	1	Stop screw		Grivory	H334382
4	1	Valve seat		1.4404	H335368	27	1	Lock washer D4		1.4301	H335172
5	1	Seat ring		1.4404	H335872	28	1	Safety nut D3		1.4301	H147640
6	1	Yoke		1.4301	H335748	29	1	Thrust ring		1.4057	H123151
7	1	Guide rod	8, 9, 19, 20	1.4404	H341310	30	8	Hex. screw M8 x 16		A2	H78772
8	2	Retainer ring		1.4310	H14883	31	1	Yoke cover D4	32	1.4301	H341316
9	1	O-ring 9.25 x 1.78		EPDM	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
10	1	Middle seal		EPDM	H327985	33					
				HNBR	H332649	34	1	O-ring		EPDM	H77061
				FPM	H332648	35	1	Venting plug G-1/8"		PE-Hard	H16507
				EPDM	H149619	36	1	Spray connection DE3		PP	H168322
11	2	Seat seal		HNBR	H168901	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
				FPM	H15318	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
12	2	Housing seal		HNBR	H170074	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				FPM	H77582	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
13	2	Seat seal		EPDM	H77586	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
				HNBR	H16682	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
14	2	Shaft seal		FPM	H336388	43	4	Hex. screw M8x40		A2-70	H336675
15	1	Quad ring		PTFE	H335934						
16	1	Guide ring		EPDM	H148387						
17	1	Piston ring		Igildur A500	H320447						
18	1	Quad ring	12,37x 2,62	Igildur A500	H335702						
				EPDM	H311646						

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Spare parts list:

Double seat mix proof valve DA4 1.5" - 4"; DN 40 - 100 4"

Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.	Item	Quantity	Description	Included in spare parts (Pos.)	Material	Part no.
		D41 1-6		1.4404	H337219	19	1	Safety nut M10x1		A2	H118903
		D41 1-7		1.4404	H337209	20	2	Square key DIN6885 - A - 3x3x10		A2	H335171
		D41 1-8		1.4404	H337229	21	1	Actuator	22, 23, 24	1.4301	H335883
1	1	Housing		1.4404	H337052	22	2	O-ring	30 x 2,5	NBR	H337897
		DA2		1.4404	H337062	23	2	Actuator screw		Igildur J350	H334376
		DA3		1.4404	H335851	24	2	V-seal		NBR	H334379
		DA4		1.4404	H341281	25	3	W-union G1/8" Ø6mm		hard nickel-plated	H208825
2	1	Upper valve shaft	16, 20, 28	1.4404	H341281	26	1	Stop screw		Grivory	H334382
3	1	Lower valve shaft		1.4404	H335368	27	1	Lock washer D4		1.4301	H335172
4	1	Valve seat		1.4404	H335872	28	1	Safety nut D3		1.4301	H147640
5	1	Seat ring		1.4404	H335748	29	1	Thrust ring		1.4057	H123151
6	1	Yoke		1.4301	H341310	30	8	Hex. screw M8 x 16		A2	H78772
7	1	Guide rod	8, 9, 19, 20	1.4404	H14883	31	1	Yoke cover D4	32	1.4301	H341316
8	2	Retainer ring		1.4310	H148388	32	4	Savetix head screw M4 x 8 washer M4 as set		1.4301	H336707
9	1	O-ring 9.25 x 1.78		EPDM	H148388	33					
10	1	Middle seal		EPDM	H327985	34	1	O-ring		EPDM	H77061
				HNBR	H332649	35	1	Venting plug G-1/8"		PE-Hard	H16507
				FPM	H332648	36	1	Spray connection DE3		PP	H168322
11	2	Seat seal		EPDM	H149619	37	1	G-union 8x1-G1/8"		PVDF-black	H16388
				HNBR	H168901	38	1	CU4 , CU4plus adapter cmpl.		PA6.6 GF30 black	See page 22
12	2	Housing seal		FPM	H77583	39	1	CU43 , CU43plus .		PA6.6 GF30 black	See page 22
				HNBR	H170074	40	1	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black	H336751
13	2	Seat seal		EPDM	H77582	41	1	Operating cam D4 top		1.4523 / 444FR	H334387
				HNBR	H16682	42	1	Operating cam D4 bottom		1.4523 / 444FR	H334386
14	2	Shaft seal		FPM	H336388	43	4	Hex. screw M8x40		A2-70	H336675
15	1	Quad ring		PTFE	H335934						
16	1	Guide ring		EPDM	H148387						
17	1	Piston ring		Igildur A500	H320447						
18	1	Quad ring	12,37x 2,62	Igildur A500	H335702						
				EPDM	H311646						

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Item		Quantity		Description		Air connections		Material		Part no.																																																																																																																																																	
Spare parts list:																																																																																																																																																											
Double seat mix proof valve DA4 Control unit and adapter																																																																																																																																																											
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SPX FLOW

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APV DA4

DOUBLE SEAT MIX PROOF VALVE



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