

APV D4 / D4 SL

DOUBLE SEAT MIX PROOF VALVES

FORM NO.: H338531 REVISION: GB-2

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



A[®]
3

>APV[®]



**CE Declaration of Conformity
UKCA Declaration of Conformity**

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.

Holzwiede, 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 Rozendaal, Director Global Pricing

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D4 1,5"-4", DN40-100	RN 500.047.01
D4 6", DN125-150	RN 500.047.03
D4 SL 1,5"-4", DN40-100	RN 501.047.01
D4 SL 6", DN125-150	RN 501.047.03

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 D4 / D4 SL 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.

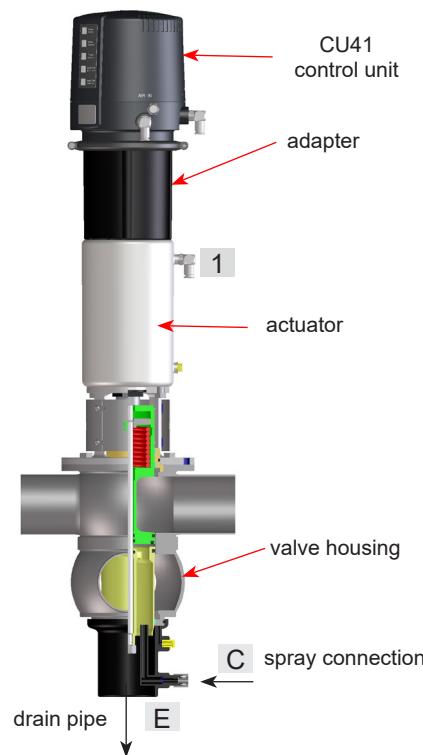
Authorizations and External Approvals

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. D4 valve



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 D4 and D4 SL double seat mix proof valves are suited for applications in the food and beverage industries as well as in pharmaceutical and chemical applications.

- The D4 and D4 SL valves separate 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 D4 valve is equipped with a non-seat lift actuator and a CU41 control unit.
- The standard D4 SL valve is equipped with an actuator including seat lift function and a CU43 control unit.
- D4 SL valve:
Cleaning of the seat 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 D4 and D4 SL can be detected via proximity switches.

fig. 4.1.1. D4 SL valve

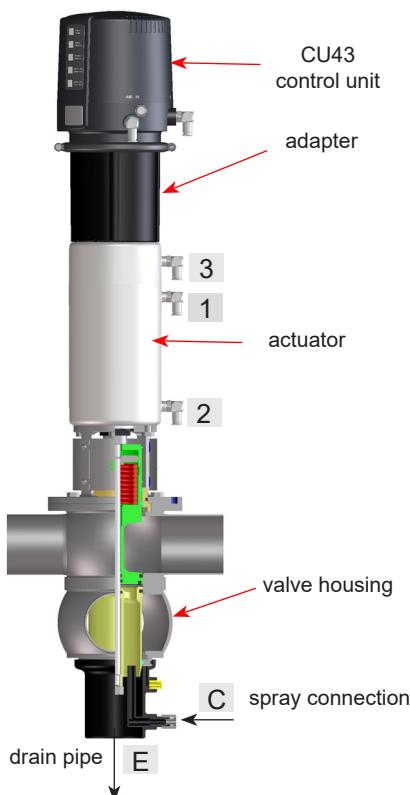
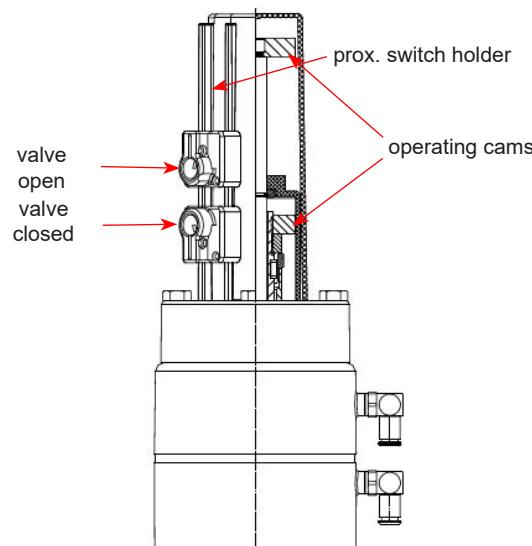
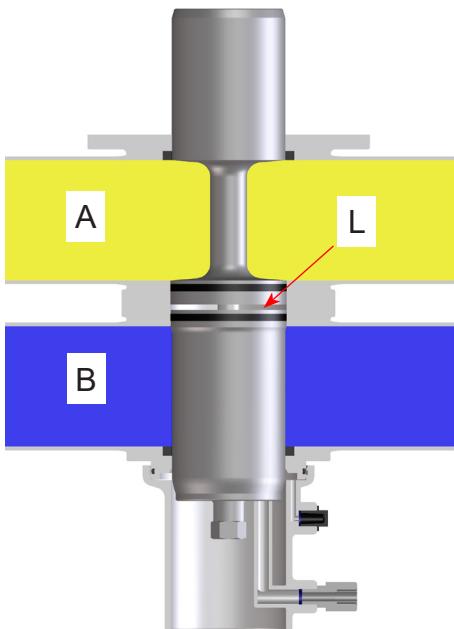


fig. 4.1.2.

D4 / D4 SL with valve position indication

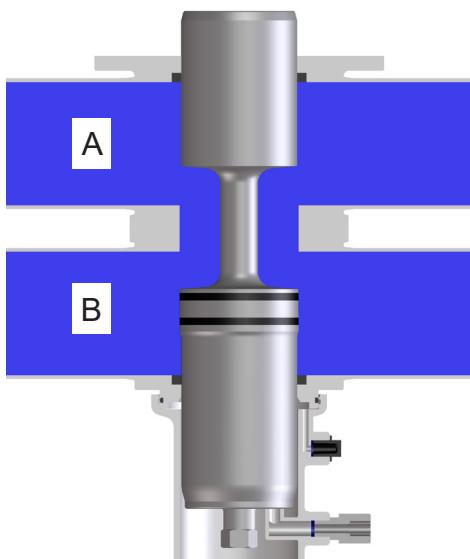


4. Mode of Operation

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

5.1. Control unit and adapter

An adapter is required to assemble the control unit on the D4/D4 SL valve. The following designs are available:

Designation				
	D4		D4 SL	
Ø Air connection	6 mm	1/4" OD	6 mm	1/4" OD
CU4 Control Unit				
Direct Connect	CU41-D4 Direct Connect H336954	CU41-D4 Direct Connect H336959	CU43-D4 Direct Connect H336955	CU43-D4 Direct Connect H336960
Direct Connect M12	CU41-D4-M12 Direct Connect M12 H341342	CU41-D4-M12 Direct Connect M12 H341351	CU43-D4-M12 Direct Connect M12 H341343	CU43-D4-M12 Direct Connect M12 H341352
AS-interface extended	CU41-D4 AS-i extended H336956	CU41-D4 AS-i extended H336961	CU43-D4 AS-i extended H336957	CU43-D4 AS-i extended H336962
AS-interface extended M12	CU41-D4-M12 AS-i extended M12 H338878	CU41-D4-M12 AS-i extended M12 H338900	CU43-D4-M12 AS-i extended M12 H338897	CU43-D4-M12 AS-i extended M12 H338901
AS-interface standard	CU41-D4 AS-i standard H338150	CU41-D4 AS-i standard H338151	CU43-D4 AS-i standard H338152	CU43-D4 AS-i standard H338153
AS-interface standard M12	CU41-D4-M12 AS-i standard M12 H338898	CU41-D4-M12 AS-i standard M12 H338902	CU43-D4-M12 AS-i standard M12 H338899	CU43-D4-M12 AS-i standard M12 H338903
Adapter	CU4 adapter D4 H337098			
CU4plus Control Unit				
AS-interface extended V1	CU41plus-D4-V1 AS-i extended V1 H338819	CU41plus-D4-V1 AS-i extended V1 H338823	CU43plus-D4-V1 AS-i extended V1 H338820	CU43plus-D4-V1 AS-i extended V1 H338824
AS-interface extended V1 M12	CU41plus-D4-V1-M12 AS-i extended V1 M12 H338864	CU41plus-D4-V1-M12 AS-i extended V1 M12 H338868	CU43plus-D4-V1-M12 AS-i extended V1 M12 H338865	CU43plus-D4-V1-M12 AS-i extended V1 M12 H338869
Adapter	CU4plus adapter D4 V1 H336441			

5.2. Valve position indication

Proximity switches to signal the closed and open position of the 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

In the cleaning process of the valves, distinction is made between the following areas: Flow areas, Seat area, and Leakage chamber.

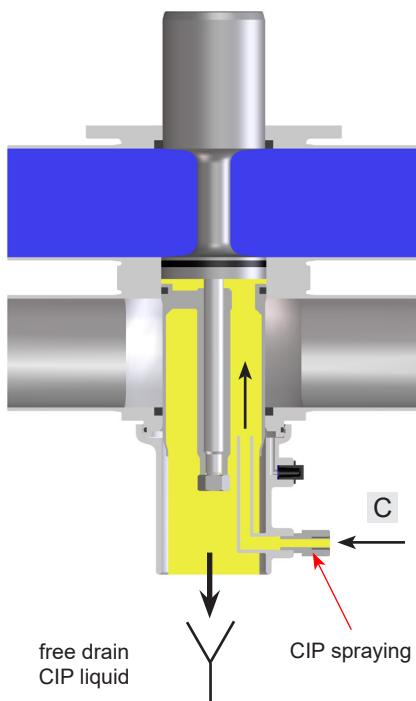
6.1. Flow area

The CIP-fluid cleans the upper and lower passages of the valve during CIP.

6.2. D4 SL valve: Seat area (chapters 6.5. and 6.6.)

The seat area and leakage chamber are cleaned through lifting of the individual valve shafts during cleaning of the respective passage.

fig. 6.3.



6.3. Seat area and Leakage chamber

CIP spraying cleans the seat area and the leakage chamber. The cleaning connection is at item C in fig. 6.3.

D4 valve: CIP spraying must generally be undertaken.

CIP spraying does not produce pressure build-up in the leakage chamber. SPX FLOW recommends performing CIP-spraying in the closed valve position; however, it can also be done in the open valve position.

Under standard conditions 15 valves DN 40-100 / 1,5"-4", 10 valves DN 125-150 / 6" can be cleaned via one spray distribution line DN 25.

6.4. Cleaning recommendation

Cleaning steps	Seat lifting cycle (D4 SL)	CIP spraying
pre-flushing	–	3 x 10 sec.
caustic flushing 80°C	3 x 5 sec.	3 x 10 sec.
intermediate flushing	2 x 5 sec.	2 x 10 sec.
acid flushing	3 x 5 sec.	3 x 10 sec.
subsequent flushing	2 x 5 sec.	2 x 10 sec.

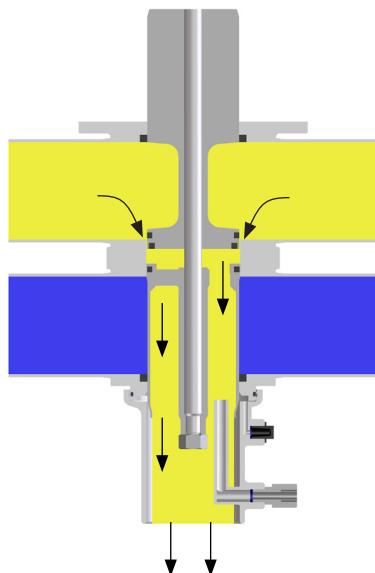
- **D4 SL Valve:** The lifting cycles refer to a cleaning pressure of $p = 2-5$ bar.
- Depending on the pressure ratio, cleaning temperatures, cleaning steps and degree of soiling, time and number of cycles must be adjusted.
- Flushing quantities per CIP spraying cycle:
 DN40-100/1,5-4" about 1,2 ltr/10s
 DN125-150/6" about 5,0 ltr/10s
- Cleaning pressure at CIP cleaning connection: min. 2 bar
 max. 5 bar

Caution!

The cleaning liquid applied must be compatible with the respective seal material.



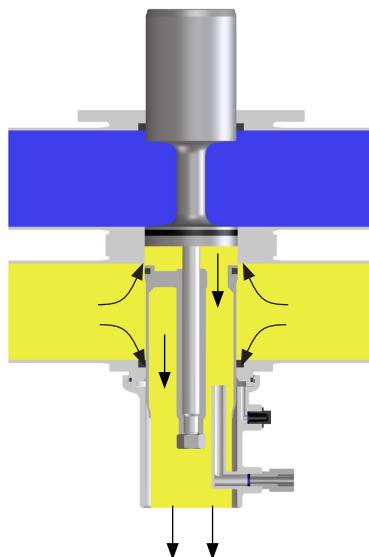
6. Cleaning

fig. 6.5.**6.5. D4 SL valve: Cleaning of upper area (fig. 6.5.)**

The upper valve shaft is lifted via connection (2), as shown in fig. 4.1.1 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.

The lifting stroke is limited by a stop in the actuator.

fig. 6.6.**6.6. D4 SL valve: Cleaning of lower area (fig. 6.6.)**

The lower valve shaft is lifted via connection (3), as shown in fig. 4.1.1 on page 8.

Through the lifting of 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.

The lifting stroke is limited by a stop in the actuator.

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 shaft 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 parts.



DN40-100/1,5-4": Remove the lower shaft seal and guide ring from the housing.

DN125-150/6": It is not necessary to remove the lower shaft seal as it can be damaged during dismantling.



- 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.

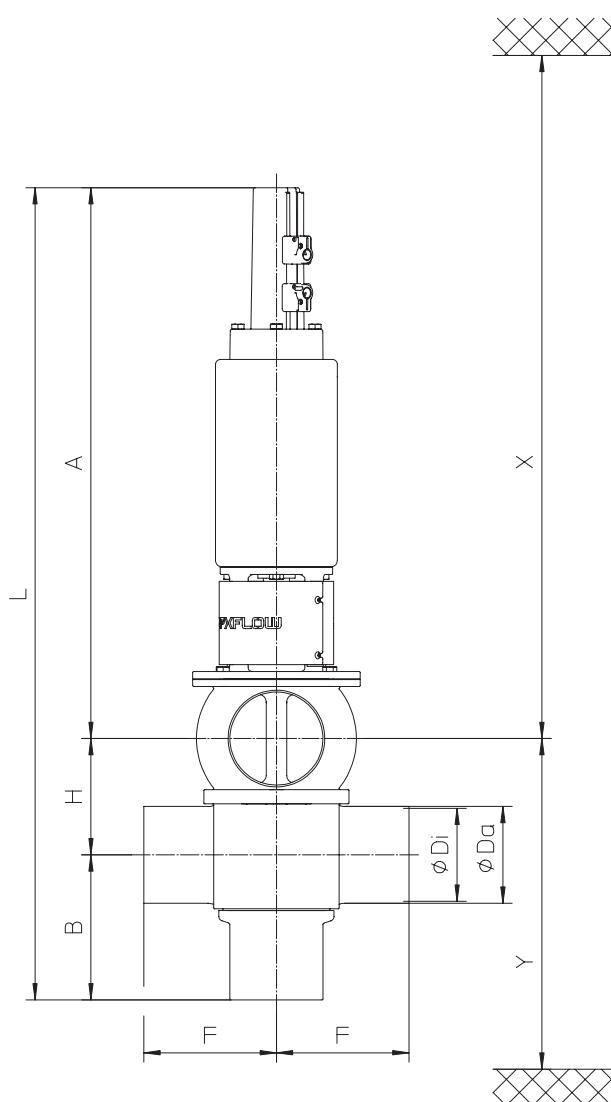
Caution! After welding the valve housing or mating flanges, and after performing any work on the piping, do not operate the valves until the corresponding areas of the installation and piping have been cleaned and welding residue has been removed. If the piping is not cleaned before operation, welding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



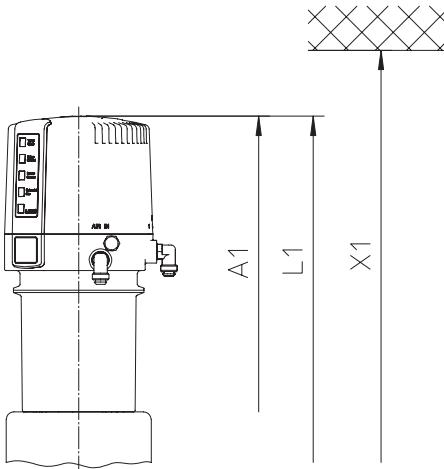
- If these welding instructions are not followed, any resulting damage will not be covered by the warranty.
- Welding directives for aseptic applications shall be drawn from the AWS/ANSI Directives and EHEDG Guidelines.

8. Dimensions / Weights

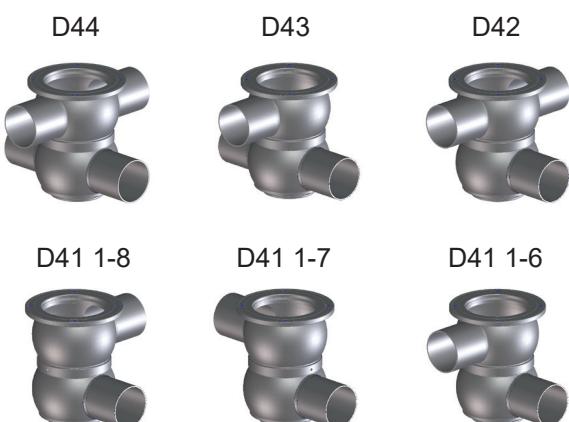
8.1. D4 Valve



CU4 control unit



housing configuration

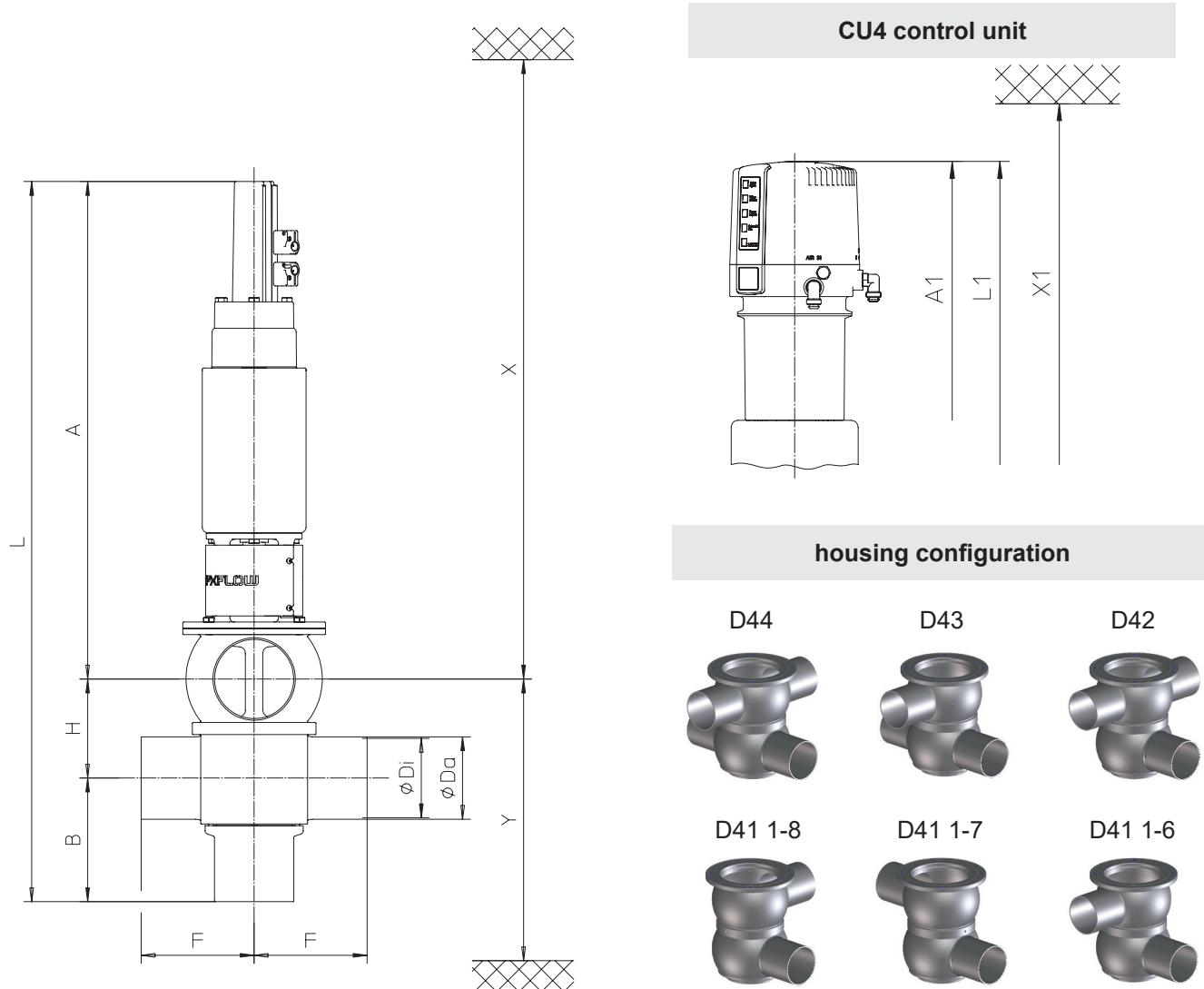


Dimensions in mm											install. dimen. min. in mm			weights in kg with CU
DN	A	A1	B	Ø Da	Ø Di	F	H	L	L1	X*	X1*	Y*		
40	483	566	120	41	38	125	63	666	749	710	790	200	14,9	
50	487	570	126	53	50	125	75	688	771	740	820	218	15,0	
65	495	578	134	70	66	125	91	720	803	780	860	242	16,6	
80	583	666	146	85	81	142,5	106	835	918	890	980	274	25,5	
100	593	676	156	104	100	142,5	125	874	957	940	1020	303	25,9	
125	677	760	179	129	125	150	150	1006	1089	1030	1115	350	41,0	
150	725	793	194	154	150	150	175	1094	1162	1075	1160	390	49,0	
Inch														
1,5"	483	566	119	38,1	34,8	125	63	667	750	710	790	199	14,9	
2"	487	570	125	50,8	47,6	125	75	688	771	740	820	217	15,0	
2,5"	495	578	131	63,5	60,3	125	85,3	708,3	791,3	760	840	234	15,7	
3"	583	666	137	76,1	72,9	125	97,9	732,9	815,9	790	880	252	16,1	
4"	593	676	155	101,6	97,6	142,5	125	874	957	940	1030	302	25,3	
6"	727	794	193	152,4	146,9	150	175	1095	1162	1080	1165	390	49,0	

*Minimum installation and valve insert removal dimensions

8. Dimensions / Weights

8.2. D4 SL Valve



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	524	607	120	41	38	125	63	707	790	750	830	200	15,5	
50	528	611	126	53	50	125	75	729	812	780	860	218	15,6	
65	536	619	134	70	66	125	91	761	844	820	900	242	17,2	
80	618	701	146	85	81	142,5	106	870	953	925	1010	274	25,5	
100	628	711	156	104	100	142,5	125	909	992	980	1060	303	25,9	
125	677	760	179	129	125	150	150	1006	1089	1030	1115	350	41,0	
150	725	793	194	154	150	150	175	1094	1162	1075	1160	390	53,5	
Inch														
1,5"	526	609	119	38,1	34,8	125	63	708	791	750	840	199	15,5	
2"	529	612	125	50,8	47,6	125	75	729	812	780	860	217	15,6	
2,5"	534	617	131	63,5	60,3	125	85,3	750,3	833,3	800	890	234	16,3	
3"	540	623	137	76,1	72,9	125	97,9	774,9	857,9	830	920	252	16,7	
4"	629	712	155	101,6	97,6	142,5	125	909	992	980	1060	302	25,9	
6"	727	794	193	152,4	146,9	150	175	1095	1162	1080	1165	390	53,5	

*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	
DN40–100/1,5"-4" standard	EPDM
DN40–100/1,5"-4" options	HNBR, FPM
DN125-150, 6" standard	EPDM/PTFE compound
DN125-150, 6" options	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
Valves > DN100/4"	CIP cleaning liquids up to 100 °C
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
DN 125-150/6"	10 x 1 mm
Ø Air connection	
Max. pneumatic air pressure	6 x 1 mm, 1/4" OD
Min. pneumatic air pressure	8 bar
	5 bar

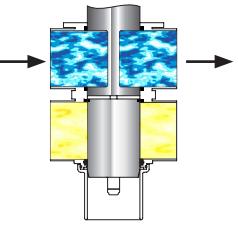
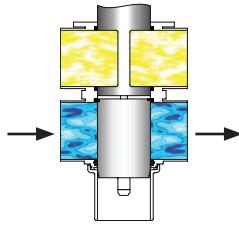
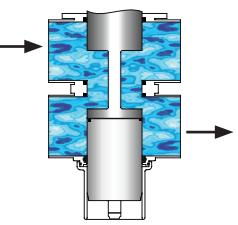
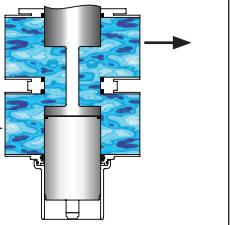
9.2. Compressed air quality

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	D4	D4 SL	D4	D4 SL	D4	D4 SL	D4	D4 SL
40	49	48	44	44	33	24	33	24
50	94	91	75	75	53	48	52	46
65	170	184	150	150	83	74	80	74
80	211	210	170	170	135	131	132	126
100	369	370	246	246	174	170	155	156
125	588	588	380	380	270	270	258	258
150	844	844	567	567	393	393	371	371
Inch								
1,5"	43	42	38	38	31	24	30	23
2"	87	83	71	71	51	46	51	46
2,5"	156	147	122	122	74	67	72	67
3"	192	183	160	160	88	83	85	82
4"	359	367	237	237	170	167	152	156
6"	808	808	548	548	386	386	370	370

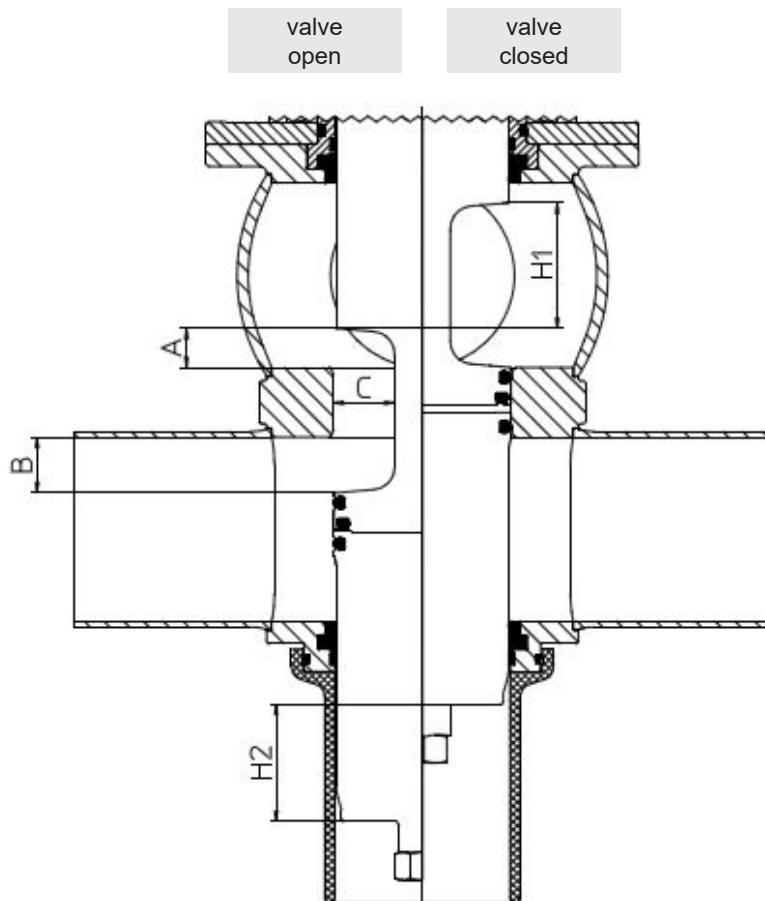
9.4. Air consumption / Switching times

D4 Valve		Air consumption at 5 bar		Switching times in seconds at 5 bar / CU41	
		Actuator	NL/stroke valve open		
DN	Inch	NL/stroke valve open		Open	Closed
40	1,5"	1,6		1,0	1,4
50	2"	1,8		1,1	1,7
65	2,5"	2		1,7	2,0
	3"	2		1,7	2,0
80	4"	3,7		2,6	3,3
		3,7		2,6	3,3
125		5,5		3,4	5,2
150	6"	8,6		3,5	9,3

D4 SL Valve		Air consumption at 5 bar			Switching times in seconds at 5 bar / CU43	
		Actuator	Seat lift actuator			
DN	Inch	NL/stroke valve open	NL/stroke upper seat lift	NL/stroke lower seat lift	Open	Closed
40	1,5"	1,5	3,4	0,22	1,5	1,7
50	2"	1,7	3,4	0,22	1,5	1,7
65	2,5"	1,8	3,4	0,22	1,6	1,9
	3"	2	3,4	0,22	1,7	2,0
80	4"	3,7	7,7	0,22	2,6	3,3
		3,7	7,7	0,22	2,6	3,3
125		5,5	10,5	0,22	3,4	5,2
150	6"	8,6	16,5	0,74	3,5	9,3

9. Technical Data

9.5. Valve stroke / Opening cross section



D4 Valve: Dimensions in mm					
DN	A	B	C	stroke H1 upper shaft	stroke H2 lower shaft
40	6	7	22	32	29
50	13	12	22	37	34
65	21	20	22	45	42
80	30	25	36	50	47
100	49	25	36	50	47
125	58	35	43	60	57
150	78	40	53	65	62
Inch					
1,5"	6	7	22	32	29
2"	13	12	22	37	34
2,5"	15,3	20	22	45	42
3"	27,9	20	22	45	42
4"	49	25	36	50	47
6"	78	40	53	65	62

D4 SL Valve: Dimensions in mm					
DN	A	B	C	stroke H1 upper shaft	stroke H2 lower shaft
40	4	4	22	29	26
50	9	9	22	34	31
65	13	12	22	45	42
80	24	25	36	50	47
100	43	25	36	50	47
125	58	35	43	60	57
150	78	40	53	65	62
Inch					
1,5"	4	4	22	29	26
2"	9	9	22	34	31
2,5"	14,3	14	22	39	36
3"	20,9	20	22	45	42
4"	43	25	36	50	47
6"	78	40	53	65	62

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
- long hook with 45° tip or long nose pliers
- pick tool for O-ring and rubber seal removal
- double joint forceps
- assembly stick D4 for assembly of lower shaft seal, see page 25
- disassembly and assembly tool for lower shaft seal, see page 25
- assembly tool for middle seal, see page 26
- assembly tool for seat seals, see page 27
- 2 long M8 hex screws for safe removal of valve insert
- For valve maintenance SPX FLOW offers complete seal kits (see spare parts lists).



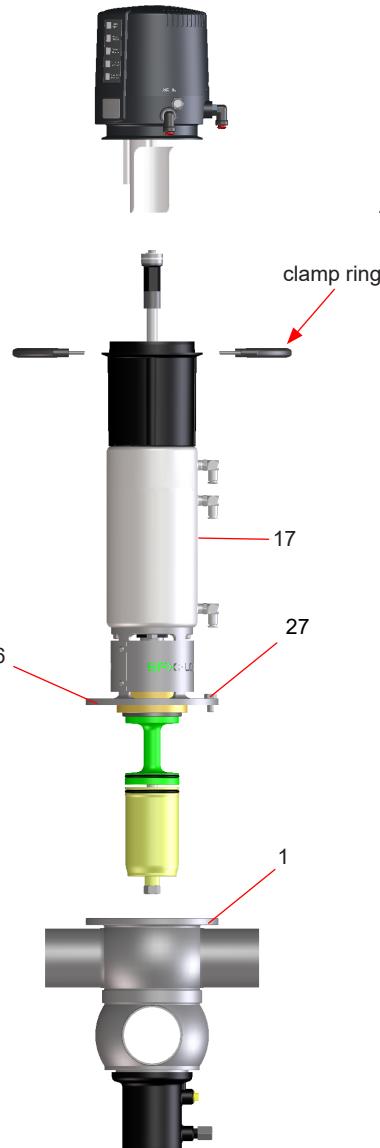
Caution!

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 section 11.2 to 11.3.
- 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 section 11.3.

11. Service Instructions

fig. 11.1.



The item numbers refer to the spare parts drawings

D4 1,5"-4", DN40-100	RN 500.047.01
D4 6", DN125-150	RN 500.047.03
D4 SL 1,5"-4", DN40-100	RN 501.047.01
D4 SL 6", DN125-150	RN 501.047.03

For the Disassembly/Assembly tools, see chapter 13.

11.1. Removal from the line system

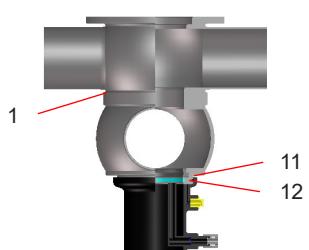
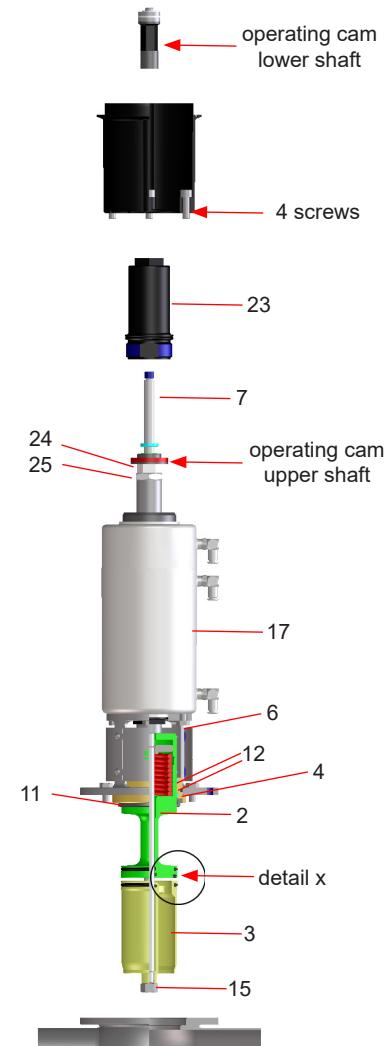


Caution!

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 (17).
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 (27) 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 (27) 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.

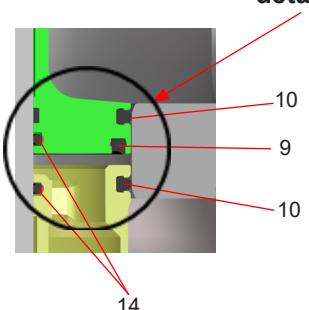


For the Disassembly/Assembly tools, see chapter 13.

11.2. Removal of product-wetted parts

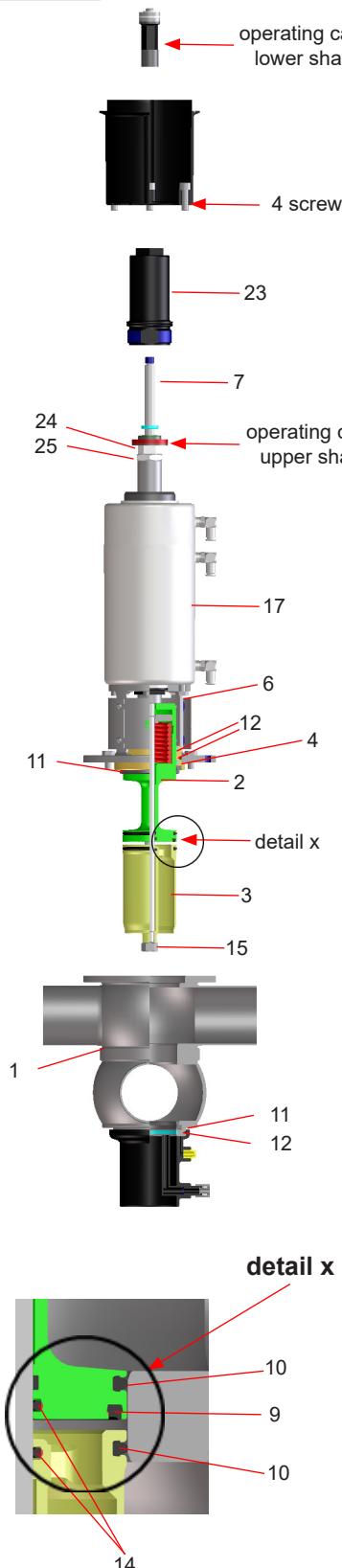
1. Remove the operating cam from the guide rod (7).
2. In order to take off the adapter, remove the 4 screws.
3. Release the lower safety nut (15). Hold the lower shaft (3) with an SW17 wrench to keep it from turning.
4. After removing the nut (15), lift off the lower shaft (3).
5. Place the point of the tool along the side of the seat seal (10) and pull it out of the groove. Take the quad ring (14) out of the groove.
6. Remove the stop screw (23).
7. Take the guide rod (7) out through the top of the actuator.
8. Remove the operating cam at the upper shaft.
9. Unscrew the safety nut (24). Hold up the lock washer (25) with a SW30 key to keep it from turning. Remove the lock washer.
10. Lift off the actuator (17) with yoke (6).
11. Slide the shaft bearing (4) over the balancer of the upper valve shaft (2).
12. Remove the shaft seal (11), DN125/150,6" also (11.1), and guide rings (12) from the grooves.
13. Removing the seals in the upper shaft
Place the point of the tool along the side of the seat seal (10) and middle seal (9) and pull them out of the groove. Take the quad ring (14) out of the groove.
14. Removing the lower shaft seal from the housing
Place the point of the disassembly tool along the side of the shaft seal (11) and pull it out through the top of the housing (1).
15. Only applies for sizes DN40-100, 1,5"-4": Place the metal point of a hook in the gap of the guide ring (12). Slightly turn the hook to lift the guide ring (12) out of the groove and housing (1).

detail X



11. Service Instructions

fig. 11.3.



For the Disassembly/Assembly tools, see chapter 13.

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. Only applies for sizes DN40-100, 1,5"-4": Install the guide ring (12) in the lower flange of the housing (1) using a double joint forceps or long nose pliers.
2. Install the lower shaft seal (11), DN125/150,6" also (11.1), in the lower housing flange. For the small size, we recommend using the 2 insertion tools, see chapter 13.
3. Install the quad ring (14) in the upper shaft (2) and lower shaft (3).
4. Insert the middle seal (9) in the upper shaft (3) using the assembly tool (see chapter 13.2).
5. Insert the 2 seat seals (10) in the grooves of the upper shaft (2) and lower shaft (3).
6. Install the shaft seal (11) and the two guide rings (12) in the shaft bearing (4).
7. Slide the shaft bearing (4) over the balancer of the upper shaft (2).
8. Slide the upper shaft (2) and the shaft bearing (4) through the yoke (6) and actuator (17).
9. Align key and fasten the upper valve shaft (2) with the lock washer (25) and safety nut (24). Hold the lock washer (25) with a SW30 wrench to keep the lock washer from turning.
Tightening torque: $Md = 40 \text{ Nm}$

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. Ensure the key is secure on the guide rod. Slide in the guide rod (7) from the top through the actuator (17) until it stops.
12. Screw in the stop screw (23) until it stops.
Tightening torque $Md = 10 \text{ Nm}$
The stop screw must be flush with the top of the collar (D4) or piston (D4 SL).
13. Slide the lower valve shaft (3) on the guide rod (7). Align the lower shaft to the key on the guide rod and fasten it with the safety nut (15). Tightening torque: $Md = 40 \text{ Nm}$
14. Fasten the adapter on the actuator with the 4 screws and ensure that the air fittings on the CU will align properly with the air fittings on the D4 valve.
15. Screw the operating cam on the guide rod (7).

11. Service Instructions

fig. 11.4.

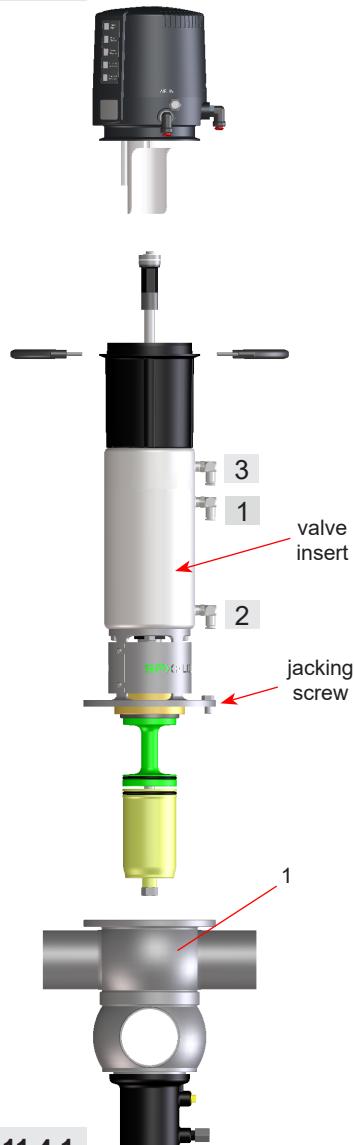
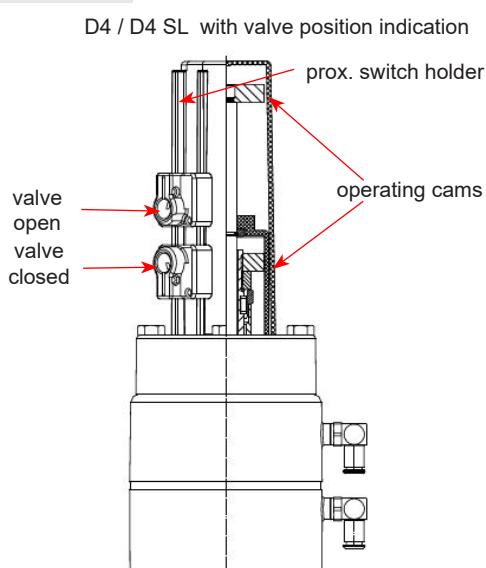


fig. 11.4.1.



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 (27) 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.
- | | | |
|---------------------|-------------------|---------------------|
| D4 Valve: | Air connection 1: | to open valve |
| D4 SL Valve: | 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 1 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 2, to adjust the open valve position and the corresponding feedback. When it reaches the required position, the LED "Valve Open" lights up.

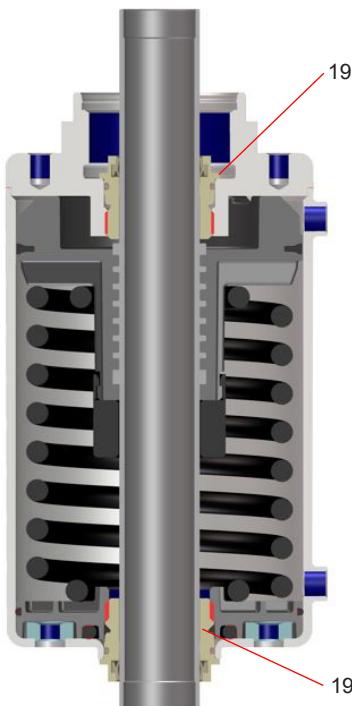
Observe the switching hysteresis of the Hall effect sensors! Therefore, adjust the switch point of the sensors with overlap in order to permit small variations. We recommend additional 2 x 360° turns of the adjustment screw.

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.: D4 Valve actuator



The item numbers refer to the spare parts drawings	
D4 1,5"-4", DN40-100	RN 500.047.01
D4 6", DN125-150	RN 500.047.03
D4 SL 1,5"-4", DN40-100	RN 501.047.01
D4 SL 6", DN125-150	RN 501.047.03

12.1 Removing the actuator screws

1. Remove yoke cover and yoke.
2. Unscrew the two actuator screws (19) with an SW36 socket wrench.
3. Remove the V-seals (20) and O-rings (18).

12.2 Installing the seals and assembling the actuator

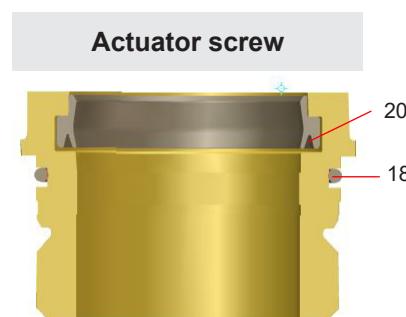
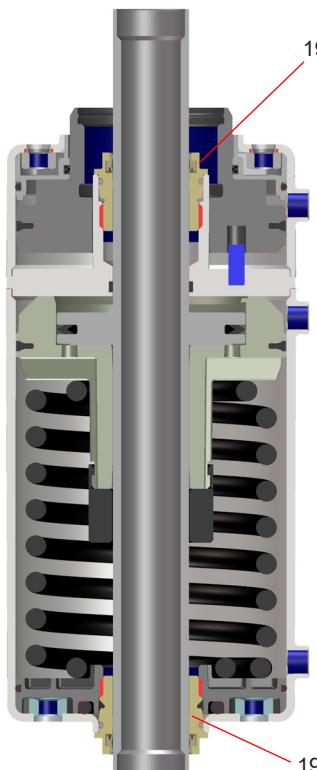
1. Install the slightly greased O-rings (18) and V-seals (20) in the actuator screws (19). Check the correct installation position of the V-seal (20).

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 (19) 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.: D4 SL Valve actuator

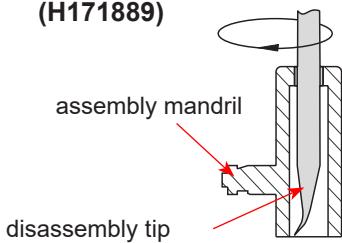


**Assembly tool
for actuator screw (H338580)**



13. Assembly Instructions and Tools for Seals

**Assembly tool
(H171889)**



13.1. Lower shaft seal

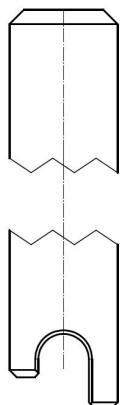
For the simple assembly of the lower shaft seal (11), the assembly/disassembly tool (H171889) and the assembly stick (H338450) can be used. These tools are especially recommended for valves of small series (DN40-65, 1,5"-3") as access to the lower shaft seal from the top is impossible as a result of the narrow seat.



Caution!

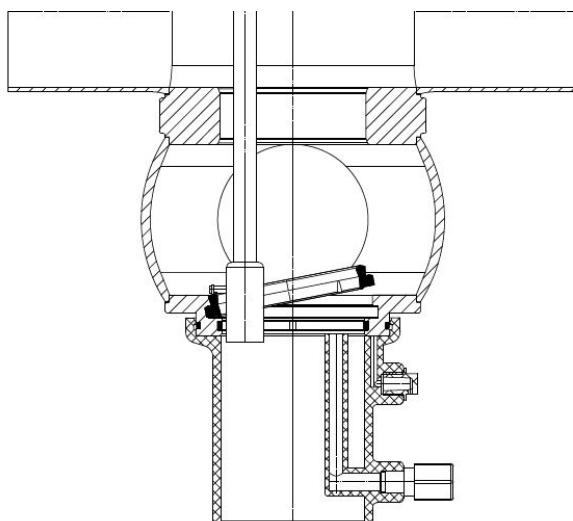
To avoid injuries the disassembly tip must be covered by the assembly mandrel if not used.

**Assembly stick
(H338450)**

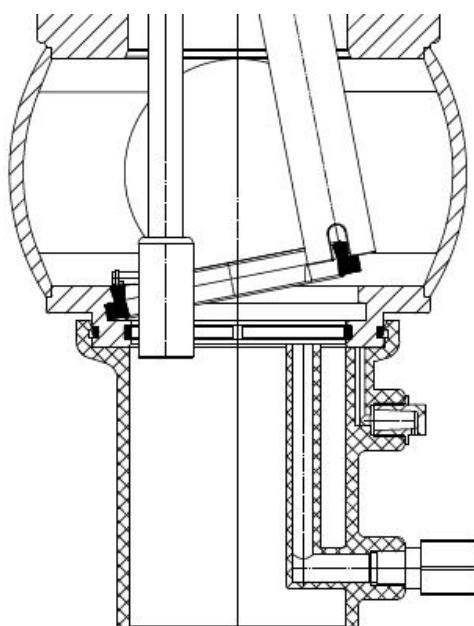


1. Slightly grease the shaft seal (11).
2. Use the assembly tool to insert the shaft seal from the top, the wide side to the front, through the intermediate ring of the housing into the lower flange housing ball (fig 1.).
3. Position the shaft seal (11) using the groove of the assembly mandrel.
4. Press the shaft seal (11) at one spot in the groove of the housing flange and continue to press on the shaft seal.
5. Position the groove of the assembly stick on the seal lip. Slightly turn the stick and position the shaft seal (11) in the groove. Slide further around the seal lip and insert the shaft seal in a similar manner until the shaft seal is completely in the groove.

1.

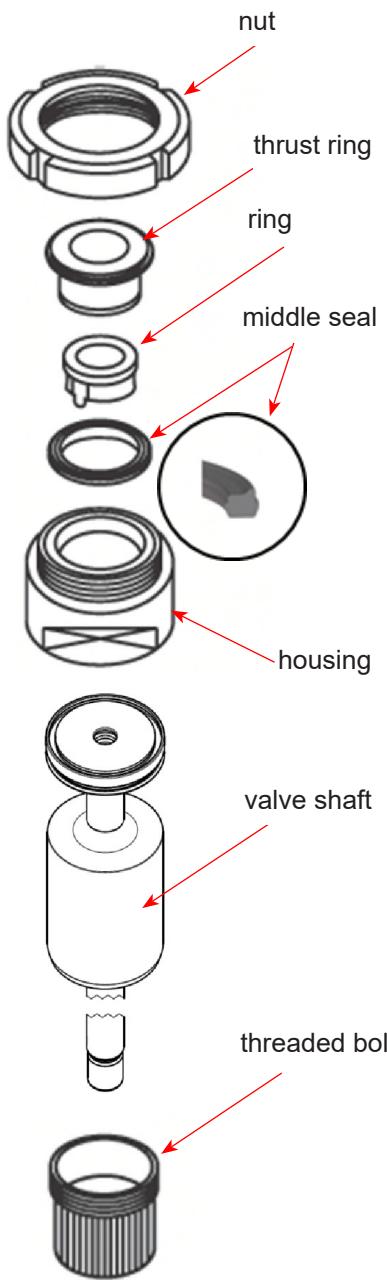


2.



13. Assembly Instructions and Tools for Seals

13.2. 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

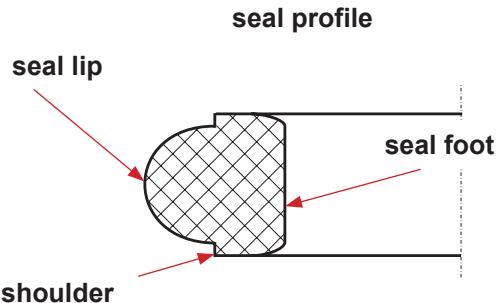
1. Insert the valve shaft into the housing making sure that the seal groove is in the housing.
2. Use the threaded bolt to clamp the shaft into the housing. Clamp the housing into a vice.
3. Slightly grease the middle seal with assembly grease. Then install the seal on the ring.
4. Insert the ring with 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.

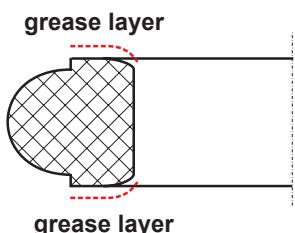
Assembly tool for middle seal			
DN	Inch	Designation	Reference number
40	1,5"	DA3 - 62	51-13-210/17 H207310
50	2"		
65	2,5"		
	3"		
80	4"	DA3 - 92	51-13-211/17 H207311
100			
125		D4 - 114	51-13-675/17 H340758
150	6"	D4 - 138	51-13-677/17 H340823

13. Assembly Instructions and Tools for Seals

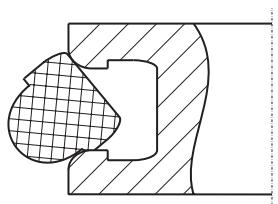
13.3. Seat seals



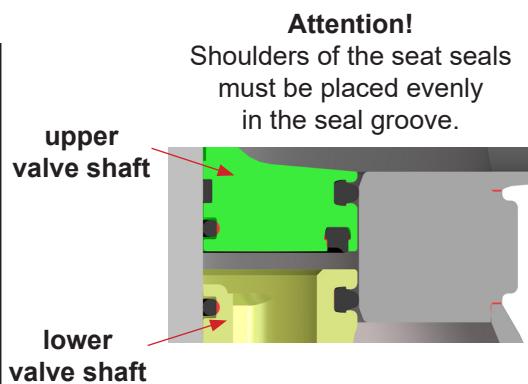
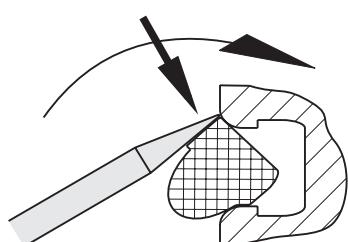
- Provide the seal shoulder with a thin layer of grease.



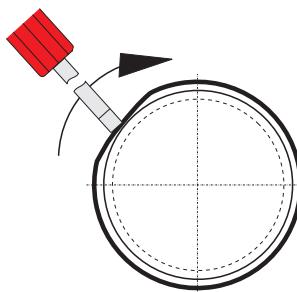
- Insert the seat seal into the valve shaft; see to an even inclined position of the seal.



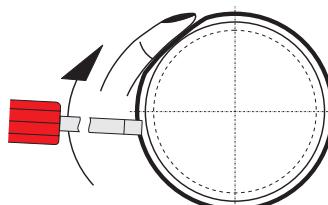
- Press the seal circumferentially into the groove by means of an assembly tool (use screw driver with round edges). Place the assembly tool at the upper seal shoulder. To get an even fit of the seal, proceed step by step:



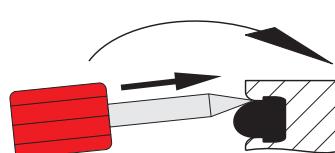
- Press a short piece part of the seal into the groove.



- Fix the seal - already pressed in - by your finger (to prevent loops). Use the assembly tool to press a short part of the seal into finger direction. Install the seal in the groove circumferences.



- Press the assembly tool between the seal shoulder and the groove edge (both sides). Proceed around the circumferences. Then proceed around the circumferences of the lower seal shoulder. This is to vent the seal groove and to lock the seal shoulder.



14. Trouble Shooting

Failure	Valve position		Required seal replacement
	closed	open	
Leakage at upper housing flange or yoke	x	x	upper shaft seal (11)
Leakage from the inside of the lower valve shaft	x		seat seals (10)
Leakage from the inside of the lower valve shaft		x	middle seal (9)
Leakage at the outside of the lower valve shaft (remove spray connection for this purpose)	x	x	lower shaft seal (11)

The position numbers refer to the spare parts drawings.

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 consider that the spare parts lists for the **D4 valve** and the **D4 SL valve** - respectively standard and large sizes - are different. You find **four separate lists** in the annex to this instruction manual.

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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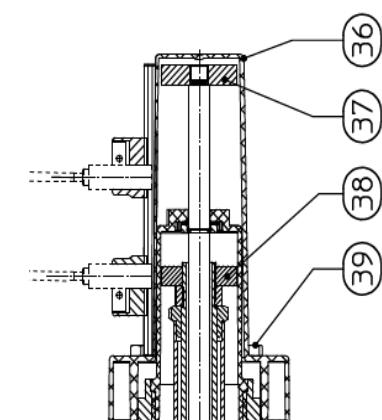
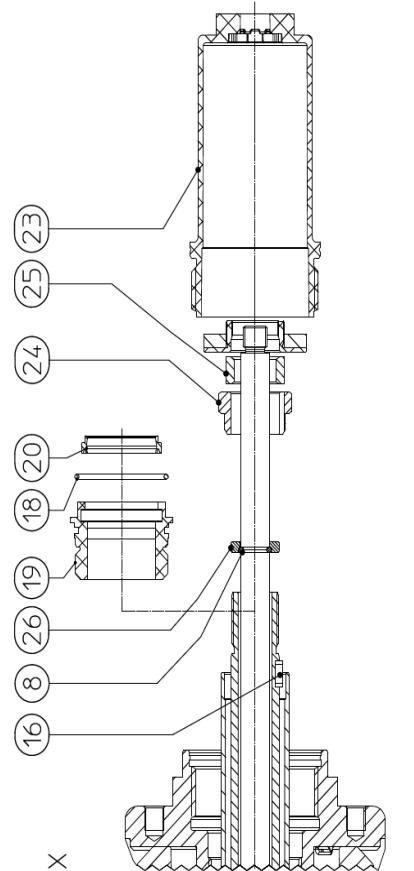
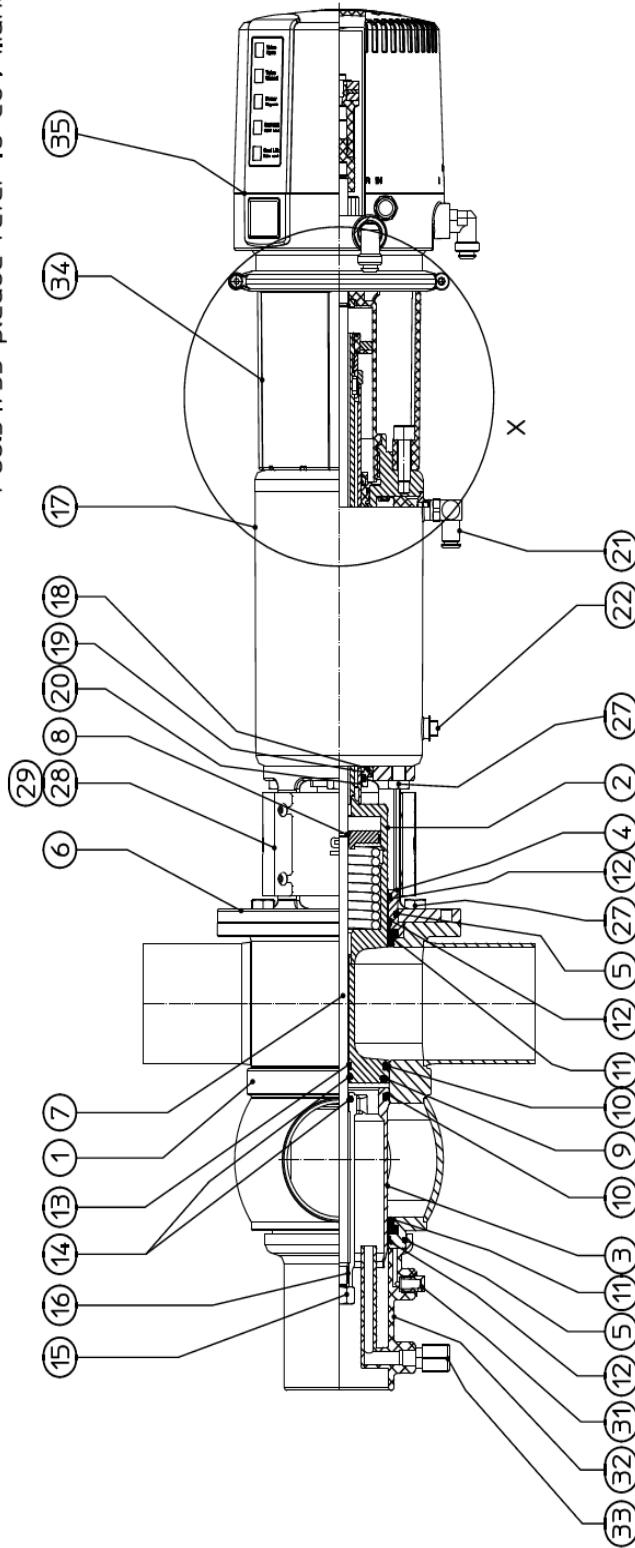
Spare Parts List

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100

SPX FLOW		
Name:	C.Keil	C.Keil
Reviewed:		
Date:		
Name:		
Reviewed:		

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RN 500.047.01

Pos:34/35 please refer to CU4 manual



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Spare parts list

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100

Date:	16.3.18	07.10.19	
Name:	C.Keil	Sze-Si	
Reviewed:			

SPX FLOW

Date:		Page	2
Name:		of	9

RN 500.047.01

Pos.	Item	Description	included in spare parts (pos.)	Material	DN40	1.5"	DN50	2"	DN65	2.5"
					Reference no. Part no.					
1	Housing	D41 1-6		1.4404	000 16-61-387/47 H337180	000 16-61-412/47 H337185	000 16-61-437/47 H337181	000 16-61-462/47 H337186	000 16-61-487/47 H337182	000 16-61-512/47 H337187
1	Housing	D41 1-7		1.4404	000 16-61-397/47 H337170	000 16-61-422/47 H337175	000 16-61-447/47 H337171	000 16-61-472/47 H337176	000 16-61-497/47 H337172	000 16-61-522/47 H337177
1	Housing	D41 1-8		1.4404	000 16-61-391/47 H337190	000 16-61-416/47 H337195	000 16-61-441/47 H337191	000 16-61-466/47 H337196	000 16-61-491/47 H337192	000 16-61-516/47 H337197
1	Housing	D42		1.4404	000 16-62-397/47 H337023	000 16-62-422/47 H337028	000 16-62-447/47 H337024	000 16-62-472/47 H337029	000 16-62-497/47 H337025	000 16-62-522/47 H337030
1	Housing	D43		1.4404	000 16-63-397/47 H337033	000 16-63-422/47 H337038	000 16-63-447/47 H337034	000 16-63-472/47 H337039	000 16-63-497/47 H337035	000 16-63-522/47 H337040
1	Housing	D44		1.4404	000 16-64-397/47 H335273	000 16-64-422/47 H335272	000 16-64-447/47 H335274	000 16-64-472/47 H335271	000 16-64-497/47 H334443	000 16-64-522/47 H335270
2	1	Upper valve shaft	13, 16, 25	1.4404	000 16-25-390/00 H341253			000 16-25-440/00 H341254	000 16-25-490/00 H341255	000 16-25-515/00 H341256
3	1	Lower valve shaft		1.4404	000 16-25-389/42 H334986		000 16-25-439/42 H334987	000 16-25-489/42 H334446	000 16-25-514/42 H335391	
4	1	Shaft bearing		1.4404				000 16-28-300/12 H334381		
5	2	O-ring		EPDM				000 58-06-295/64 H77039		
6	1	Yoke		1.4301				000 16-40-200/12 H334383		
7	1	Guide rod	8, 15, 16	1.4404	000 16-25-386/00 H341282		000 16-25-436/00 H341283	000 16-25-486/00 H341284	000 16-25-511/00 H341285	
8	2	Retainer ring		1.4310						
9	1	Middle seal		EPDM						
9	1	Middle seal		HNBR						
9	1	Middle seal		FPM						

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Spare parts list

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100

			Date:	16.3.18	07.10.19	SPX FLOW	
			Name:	C.Keil	Sze-Si		
			Reviewed:				
			Date:				
			Name:				
			Reviewed:				
			RN 500.047.01			Page 3 of 9	
Pos.	Quantity	Description	included in spare parts (pos.)	Material	DN40	1.5"	DN50
Item					Reference no. Part no.	Reference no. Part no.	Reference no. Part no.
10	2	Seat seal		EPDM			000 58-33-132/93 H168192
							000 58-33-132/33 H171561
							000 58-33-132/73 H171559
11	2	Shaft seal		EPDM			000 58-33-400/93 H337476
							000 58-33-400/33 H337478
							000 58-33-400/73 H337477
12	3	Guide ring		Iglidur A500			000 58-01-610/99 H334863
							000 08-39-380/99 H334865
13	1	Guide band		Acoffon			000 58-01-049/63 H311646
							000 65-50-087/15 H118903
14	1	Quad ring 12,37x2,62		EPDM			000 29-02-190/17 H335171
							000 29-02-179/17 H335443
15	2	Hex. Screw M10x1		A2			000 58-06-113/83 H337897
							000 16-28-330/93 H334376
16	2	Square key DIN6885 - A - 3x3x10		A2			000 58-01-600/73 H334379
17	1	Actuator	18, 19, 20	1.4301	000 29-02-178/17 H335446		000 29-02-180/17 H334365
18	2	O-ring 30 x 2,5		NBR			
19	2	Actuator screw		Iglidur J350			
20	2	V-seal		NBR			

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Spare parts list

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100

		Date: Name: Reviewed:		Date: Name: Reviewed:		Page 5 of 9	
		C.Keil Sze-Si C.Keil				Page 5 of 9	
						RN 500.047.01	
		2"		DN65		DN65	
Pos. Item		included in spare parts (pos.)	Material	DN40 Reference no. Part no.	1.5" Reference no. Part no.	2" Reference no. Part no.	2.5" Reference no. Part no.
1	CU41 D4 DC ø6mm		PA 6.6 GF30 black				
1	CU41 D4 M12 DC ø6mm		PA 6.6 GF30 black				
1	CU41 D4 AS-i Ext. ø6mm		PA 6.6 GF30 black				
1	CU41 D4 M12 AS-i Ext. ø6mm		PA6.6 GF30 black				
35	1 CU41 D4 AS-i Std. ø6mm		PA 6.6 GF30 black				
1	CU41 D4 M12 AS-i Std. ø6mm		PA 6.6 GF30 black				
1	CU41plus D4 V1 AS-i Ext. ø6mm		PA6.6 GF30 black				
1	CU41plus D4 V1 M12 AS-i Ext. ø6mm		PA6.6 GF30 black				
36	1 Prox. switch holder D4 cmpl.		PA 6.6 GF30 black				
37	1 Operating cam D4 bottom		1.4523 / 444FR				
38	1 Operating cam D4 top		1.4523 / 444FR				
39	4 Hex. screw M8x40		A2-70				
		Pos. 9, 10, 11, 12, 14 available as complete seal kits only					
	1 Seal kit		EPDM				000 58-38-005/01 H337884
	1 Seal kit		FPM				000 58-38-005/00 H337886
	1 Seal kit		HNBR				000 58-38-005/06 H337885

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Spare parts list

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100

SPX FLOW

RN 500.047.01

Date: 16.3.18
Name: C.Keil
Reviewed:

Date: 07.10.19
Name: Sze-Si
Reviewed:

Date: 00 16-61-662/47
Name: H337189
Reviewed:

Date: 00 16-61-637/47
Name: H337183
Reviewed:

Date: 00 16-61-537/47
Name: H337188
Reviewed:

Date: 00 16-61-547/47
Name: H337173
Reviewed:

Date: 00 16-61-541/47
Name: H337174
Reviewed:

Date: 00 16-61-641/47
Name: H337194
Reviewed:

Date: 00 16-62-647/47
Name: H337027
Reviewed:

Date: 00 16-62-647/47
Name: H337026
Reviewed:

Date: 00 16-63-547/47
Name: H337036
Reviewed:

Date: 00 16-63-547/47
Name: H337042
Reviewed:

Date: 00 16-64-647/47
Name: H335279
Reviewed:

Date: 00 16-63-647/47
Name: H335280
Reviewed:

Date: 00 16-63-640/00
Name: H341259
Reviewed:

Date: 00 16-25-540/00
Name: H341257
Reviewed:

Date: 00 16-25-565/00
Name: H341258
Reviewed:

Date: 00 16-25-564/42
Name: H335392
Reviewed:

Date: 00 16-25-539/42
Name: H335393
Reviewed:

Date: 00 16-28-300/12
Name: H334381
Reviewed:

Date: 00 16-40-200/12
Name: H77039
Reviewed:

Date: 00 16-25-561/00
Name: H341287
Reviewed:

Date: 00 16-25-536/
Name: H341286
Reviewed:

Date: 00 08-39-083/13
Name: H14883
Reviewed:

Date: 00 16-25-636/00
Name: H341288
Reviewed:

Date: 00 58-33-997/93
Name: H327985
Reviewed:

Date: 00 58-33-997/33
Name: H332649
Reviewed:

Date: 00 58-33-997/71
Name: H332648
Reviewed:

Date: 00 16-40-209/12
Name: H335994
Reviewed:

Date: 00 16-28-301/12
Name: H335713
Reviewed:

Date: 00 58-06-490/63
Name: H77061
Reviewed:

Date: 00 16-40-209/12
Name: H335994
Reviewed:

Date: 00 16-25-636/00
Name: H341288
Reviewed:

Date: 00 58-33-997/93
Name: H327985
Reviewed:

Date: 00 58-33-997/33
Name: H332649
Reviewed:

Date: 00 58-33-997/71
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Date: 00 16-25-636/00
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Date: 00 16-25-636/00
Name: H341288
Reviewed:

Date: 00 58-33-997/93
Name: H327985
Reviewed:

Date: 00 58-33-997/33
Name: H332649
Reviewed:

Date: 00 58-33-997/71
Name: H332648
Reviewed:

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Spare parts list

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100

				Date:	16.3.18	07.10.19	SPX FLOW	
				Name:	C.Keil	Sze-Si		
				Reviewed:				
				Date:			Page	7 of 9
				Name:			RN 500.047.01	
				Reviewed:				
Pos.	Quantity	Description	included in spare parts (pos.)	Material	3"	DN80	DN100	4"
Item	Q				Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.
10	2	Seat seal		EPDM	000 58-33-132/93 H168192		000 58-33-132/93 H168153	
				HNBR	000 58-33-132/33 H171561		000 58-33-133/33 H171565	
				FPM	000 58-33-132/73 H171559		000 58-33-133/73 H171563	
11	2	Shaft seal		EPDM	000 58-33-400/93 H337476		000 58-33-405/93 H337668	
				HNBR	000 58-33-400/33 H337478		000 58-33-405/33 H337670	
				FPM	000 58-33-400/73 H337477		000 58-33-405/73 H337669	
12	3	Guide ring		Iglour A500	000 58-01-610/99 H334863		000 58-01-612/99 H335702	
13	1	Guide band		Acofлон			000 08-39-380/99 H334865	
14	1	Quad ring 12,37x2,62		EPDM			000 58-01-049/63 H311646	
15	2	Hex. Screw M10x1		A2			000 65-50-087/15 H118903	
16	2	Square key DIN6885 - A - 3x3x10		A2			000 67-40-010/12 H335171	
17	1	Actuator	18, 19, 20	1.4301	000 29-02-180/17 H334365		000 29-02-205/17 H335686	
18	2	O-ring 30 x 2,5		NBR			000 58-06-113/83 H337897	
19	2	Actuator screw		Iglidur J350			000 16-28-330/93 H334376	
20	2	V-seal		NBR			000 58-01-600/73 H334379	

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Spare parts list

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100						
			SPX FLOW			
			Date:	16.3.18	07.10.19	
			Name:	C.Keil	Sze-Si	
			Reviewed:			
			RN 500.047.01			
			Date:	Page	8	of 9
			Name:			
			Reviewed:			
Pos.	Description	in spare parts (pos.)	Material	DN80	DN100	4"
Item	Quantity	Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.
21	3	W-union G1/8" Ø6mm	hard nickel-plated	000 08-60-750/93 H208825		
22	1	Venting plug G1/8"	PE-Hard	000 08-60-005/93 H16218		
23	1	Stop screw	Griory	000 16-28-340/39 H334382		
24	1	Lock washer D4	1.4301	000 67-03-030/12 H335172		
25	1	Safety nut D3	1.4301	000 65-50-137/15 H147640		
26	1	Thrust ring	1.4057	000 08-48-106/12 H123151		
27	8	Hex. screw M8 x 16	A2	000 65-01-081/15 H78772		
28	1	Yoke cover D4	29	000 16-40-220/00 H341311	000 16-40-224/00 H341312	
29	4	Savetix head screw M4 x 8 washer M4 as set	1.4301		000 65-06-010/12 H336707	
30						
31	1	Venting plug G1/8"	PE-Hard		000 08-74-014/93 H16507	
32	1	Spray connection DE3	PP		000 09-40-114/93 H168322	
33	1	G-union 8x1-G1/8"	PVDF-schwarz		000 08-63-003/13 H16388	
34	1	CU4 D4 adapter compl.	PA6.6 GF30 black		000 08-46-646/93 H337098	
	1	CU4plus D4 V1 adapter compl.	PA6.6 GF30 black		000 08-46-666/93 H336441	

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Spare parts list

Double seat mix proof valve D4 1.5" - 4"; DN 40 - 100

SPX FLOW

Date: 20.3.18
Name: C.Keil
Reviewed:

Date: 07.10.19
Name: Sze-Si
Reviewed:

RN 500.047.01

Pos. Item	Description	Included in spare parts (pos.)	Material	3"	DN80	DN100	4"	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.
1	CU41 D4 DC ø6mm		PA 6.6 GF30 black					000 08-45-380/93 H336954			
1	CU41 D4 M12 DC ø6mm		PA 6.6 GF30 black					000 08-45-570/93 H341342			
1	CU41 D4 AS-i Ext. ø6mm		PA 6.6 GF30 black					000 08-45-382/93 H336956			
1	CU41 D4 M12 AS-i Ext. ø6mm		PA 6.6 GF30 black					000 08-45-386/93 H338878			
34	CU41 D4 AS-i Std. ø6mm		PA 6.6 GF30 black					000 08-45-384/93 H338150			
1	CU41 D4 M12 AS-i Std. ø6mm		PA 6.6 GF30 black					000 08-45-388/93 H338898			
1	CU41plus D4 V1 AS-i Ext. ø6mm		PA 6.6 GF30 black					000 08-45-555/93 H338819			
1	CU41plus D4 V1 M12 AS-i Ext. ø6mm		PA 6.6 GF30 black					000 08-45-339/93 H338864			
35	Prox. switch holder D4 cmpl.		PA 6.6 GF30 black					000 16-33-050/93 H336751			
36	Operating cam D4 top		1.4523 / 444FR					000 08-60-460/99 H334387			
37	Operating cam D4 bottom		1.4523 / 444FR					000 08-60-461/99 H334386			
38	Operating cam D4 top		1.4523 / 444FR					000 08-60-460/99 H334387			
	Pos. 9, 10, 11, 12, 14 available as complete seal kits only										
1	Seal kit		EPDM	000 58-38-005/01 H337884				000 58-38-006/01 H337887			
1	Seal kit		FPM	000 58-38-005/00 H337886				000 58-38-006/00 H337889			
1	Seal kit		Hnbr	000 58-38-005/06 H337885				000 58-38-006/06 H337888			

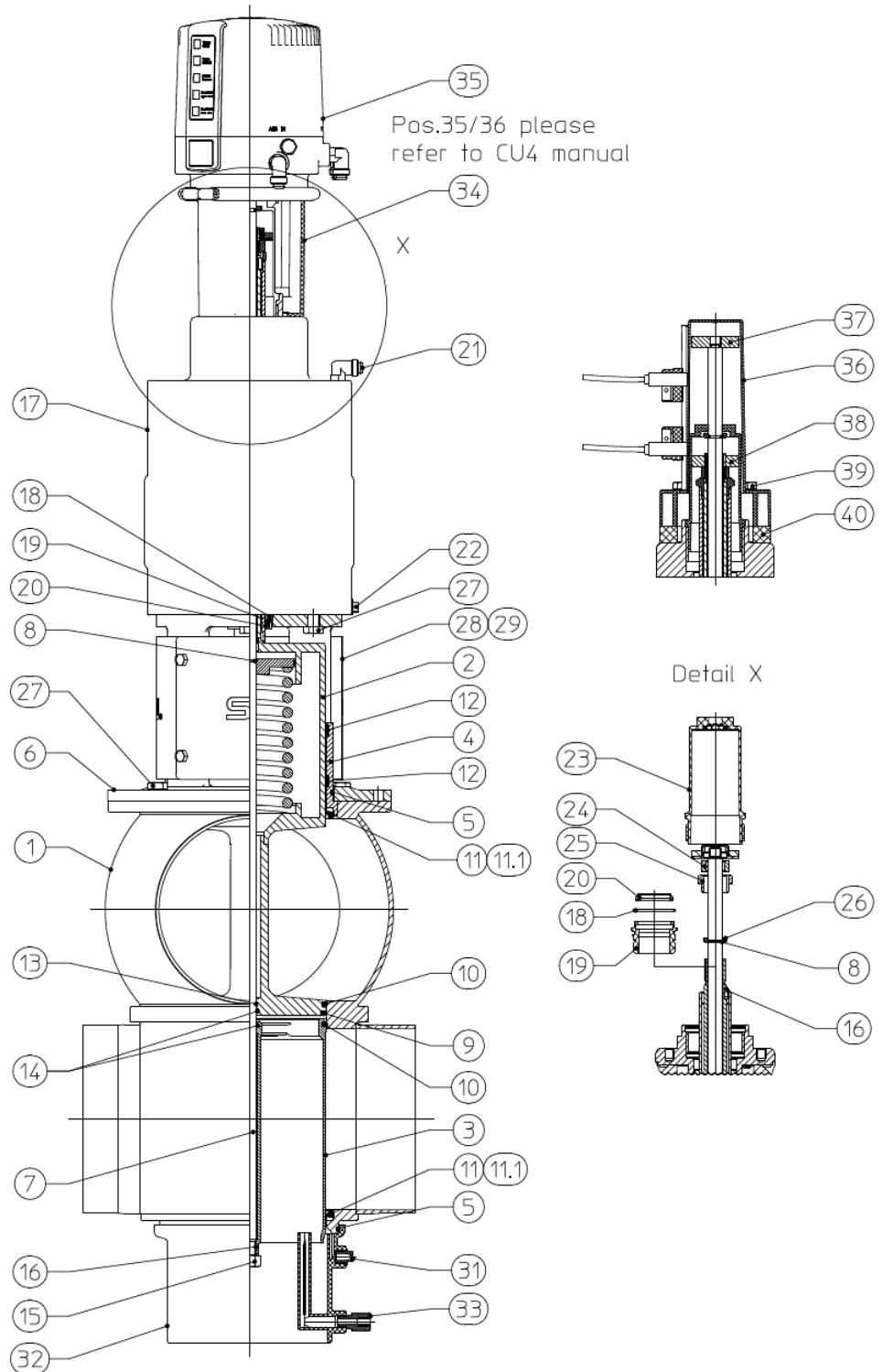
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Spare Parts list

Double seat mix proof valve D4 - 125-150-6"

SPX FLOW		
Date:	11.10.19	10.06.20
Name:	Sze-Si.	C.Keil
Reviewed:		
Date:		
Name:		
Reviewed:		
Page	1	of
		5
RN 500 047.03		



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Spare Parts list

Double seat mix proof valve D4 - 125-150-6"

Spare Parts list				Date:	11.10.19	Name:	Sze-Si.	SPX FLOW			
				Reviewed:							
				Date:		Name:					
				Reviewed:				RN 500 047.03			
Pos.	Qty.	Description	Material	DN125	DN150	6"					
Reference no.	Part no.	Reference no.	Part no.	Reference no.	Part no.	Reference no.	Part no.	Reference no.	Part no.	Reference no.	Part no.
1	Housing	D41 / 1-6	1.4404	000 16-61-687/47	H340122	000 16-61-737/47	H340135	000 16-61-762/47	H340141		
1	Housing	D41 / 1-7	1.4404	000 16-61-697/47	H340123	000 16-61-747/47	H340136	000 16-61-772/47	H340142		
1	Housing	D41 / 1-8	1.4404	000 16-61-691/47	H340124	000 16-61-741/47	H340137	000 16-61-766/47	H340143		
1	Housing	D42	1.4404	000 16-62-697/47	H340121	000 16-62-747/47	H340134	000 16-62-772/47	H340140		
1	Housing	D43	1.4404	000 16-63-697/47	H340120	000 16-63-747/47	H340133	000 16-63-772/47	H340139		
1	Housing	D44	1.4404	000 16-64-697/47	H340119	000 16-64-747/47	H340132	000 16-64-772/47	H340138		
2	1	Upper valve shaft	13, 16, 25	1.4404	000 16-25-694/00			000 16-25-234/00			
3	1	Lower valve shaft		1.4404	000 16-25-689/42			000 16-25-520/42			
4	1	Shaft bearing		1.4404	000 16-28-302/12			000 16-28-303/12			
5	2	O-ring		EPDM	000 58-06-555/63			000 58-06-655/63			
6	1	Yoke			H77074			H77081			
7	1	Guide rod	8, 15, 16	1.4404	000 16-40-202/12			000 16-40-204/12			
8	2	Retainer ring		1.4310	H340244			H340323		000 16-25-545/00	
					H341298			H341299		08-39-083/13	
										H14883	
1	Middle seal			EPDM	000 58-33-996/93			000 58-33-995/93			
9	1	Middle seal			H340247			H340325			
1	Middle seal			Hnbr	000 58-33-996/33			000 58-33-995/33			
				FPM	000 58-33-996/73			H340326			
					H340294			H340327			

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Spare Parts list

Double seat mix proof valve D4 - 125-150-6"

Spare Parts list				Date:	11.10.19	Name:	Sze-Si.	SPX FLOW		
				Reviewed:						
				Date:		Name:		Page 3 of 5		
								RN 500 047.03		
pos.	Quantity	Description	included in spare parts (pos.)	Material	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	6"		
	2	Seat seal		EPDM	000 58-33-135/93 H173940	000 58-33-134/93 H173739				
10	2	Seat seal		Hnbr	000 58-33-135/33 H173939	000 58-33-134/33 H173738				
	2	Seat seal		FPM	000 58-33-135/73 H340246	000 58-33-134/73 H338070				
	2	Shaft seal		EPDM	000 58-33-693/93 H77611	000 58-33-743/93 H77628				
11	2	Shaft seal		Hnbr	000 58-33-693/33 H170178	000 58-33-743/33 H170177				
	2	Shaft seal		FPM	000 58-33-693/73 H77610	000 58-33-743/73 H77627				
11.1	2	PTFE Shaft seal		PTFE	000 58-33-156/23 H340295	000 58-33-157/23 H340328				
12	2	Guide ring		Igidur A500	000 58-01-674/99 H340198	000 58-01-673/99 H340182				
13	1	Guide band		Acfion	000 08-39-380/99 H334865	000 08-39-380/99 H334865				
14	2	Quad ring 12,37x 2,62		EPDM	000 58-01-049/63 H311646	000 58-01-049/63 H311646				
15	2	Hex. Screw M10x1		A2	000 65-50-087/15 H118903	000 65-50-087/15 H118903				
16	2	Square key DIN6885 - A - 3x3x10		A2	000 29-02-190/17 H335171	000 29-02-190/17 H335171				
17	1	Actuator	18, 19, 20	1.4301	000 29-02-202/17 H340639	000 29-02-201/17 H340636				
18	2	O-ring 30 x 2,5		NBR	000 58-06-113/83 H337897	000 58-06-113/83 H337897				
19	2	Actuator screw		Igidur J350	000 16-28-330/93 H334376	000 16-28-330/93 H334376				
20	2	V-seal		NBR	000 58-01-600/73 H334379	000 58-01-600/73 H334379				

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Spare Parts list

Double seat mix proof valve D4 - 125-150-6"

Spare Parts list					
Double seat mix proof valve D4 - 125-150-6"					
pos.	item	Description	included in spare parts (pos.)	125	150
			Material	Reference no. Part no.	Reference no. Part no.
21	1	W-union G1/8" Ø6mm	hard nickel-plated	000 08-60-750/93 H208825	
22	1	Venting plug G-1/8"	PE-Hard	000 08-60-005/93 H16218	
23	1	Stop screw	Grivory	000 16-28-340/39 H334382	
24	1	Safety nut D3	1.4301	000 65-50-137/15 H147640	
25	1	Lock washer D4	1.4301	000 67-03-030/12 H335172	
26	1	Thrust ring	1.4057	000 08-48-106/12 H123151	
27	8	Hex. screw M10 x 20	A2	000 65-01-134/13 H340472	
28	1	Yoke cover D4	29	1.4301 H341313	000 16-40-226/00 H341314
29	4	Savetix head screw M6 x 8 washer M6 as set	1.4301	000 65-06-011/12 H340632	
30					
31	1	Venting plug G-1/8"	PE-Hard	000 08-74-014/93 H16507	
32	1	Spray connection DE3	PP	000 09-40-117/93 H178450	000 09-40-118/93 H200320
33	1	G-union 10/8-G1/4" with supp. Sleeve cpl.	1.4571	000 16-38-200/42 H329696	
34	1	CU4 D4 adapter cpl.	PA6.6 GF30 black	000 08-46-646/93 H337098	
	1	CU4plus D4 V1 adapter cpl.	PA6.6 GF30 black	000 08-46-666/93 H336441	

SPX FLOW					
Date:	11.10.19	10.06.20	C.Keil		
Name:	Sze-Si.				
Reviewed:					

Date:	Page
Name: Reviewed:	4 of 5 RN 500 047.03

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Spare Parts List

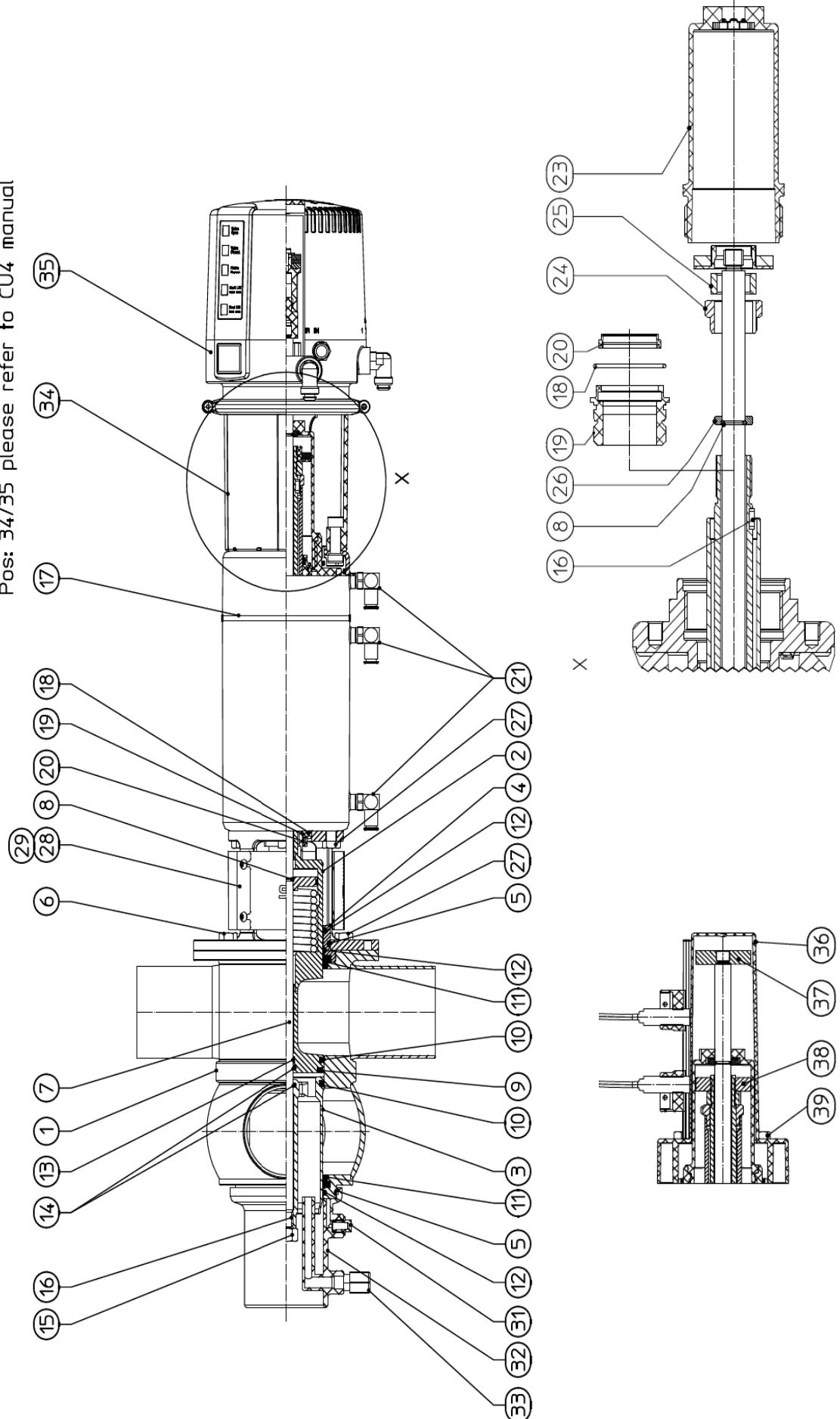
Double seat mix proof valve D4 SL 1.5 " - 4"; DN 40 - 100

SPX FLOW			
Date:	16.3.18	30.10.18	11.10.19
Name:	C.Keil	C.Keil	Sze-Si.
Reviewed:			
Date:			
Name:			
Reviewed:			

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Pos: 34/35 please refer to CU4 manual



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Spare Parts List

Double seat mix proof valve D4 SL 1.5 " - 4"; DN 40 - 100

Date: 16.3.18
Name: C.Keil
Reviewed:

SPX FLOW

Date: 11.10.19
Name: Sze-Si.
Reviewed:

RN 501.047.01

Date: 2
Name:
Reviewed:

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Date: 2 of 9
Name:
Reviewed:

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Pos.	Quantity	Description	included in spare parts (pos.)	Material	DN40	1.5"	DN50	2"	DN65	2.5"
1	Housing	D41 1-6		1.4404	000 16-61-387/47 H337180	000 16-61-412/47 H337185	000 16-61-437/47 H337181	000 16-61-462/47 H337186	000 16-61-487/47 H337182	000 16-61-512/47 H337187
1	Housing	D41 1-7		1.4404	000 16-61-397/47 H337170	000 16-61-422/47 H337175	000 16-61-447/47 H337171	000 16-61-472/47 H337176	000 16-61-497/47 H337172	000 16-61-522/47 H337177
1	Housing	D41 1-8		1.4404	000 16-61-391/47 H337190	000 16-61-416/47 H337195	000 16-61-441/47 H337191	000 16-61-466/47 H337196	000 16-61-491/47 H337192	000 16-61-516/47 H337197
1	Housing	D42		1.4404	000 16-62-397/47 H337023	000 16-62-422/47 H337028	000 16-62-447/47 H337024	000 16-62-472/47 H337029	000 16-62-497/47 H337025	000 16-62-522/47 H337030
1	Housing	D43		1.4404	000 16-63-397/47 H337033	000 16-63-422/47 H337038	000 16-63-447/47 H337034	000 16-63-472/47 H337039	000 16-63-497/47 H337035	000 16-63-522/47 H337040
1	Housing	D44		1.4404	000 16-64-397/47 H335273	000 16-64-422/47 H335272	000 16-64-447/47 H335274	000 16-64-472/47 H335271	000 16-64-497/47 H334443	000 16-64-522/47 H335270
2	1	Upper valve shaft	13, 16, 25	1.4404	000 16-25-391/00 H341262		000 16-25-441/00 H341263		000 16-25-491/00 H341264	000 16-25-516/00 H341265
3	1	Lower valve shaft		1.4404	000 16-25-389/42 H334986		000 16-25-439/42 H334987		000 16-25-489/42 H334446	000 16-25-514/42 H335391
4	1	Shaft bearing		1.4404				000 16-28-300/12 H334383		
5	2	O-ring			EPDM			000 58-06-295/64 H77039		
6	1	Yoke		1.4301				000 16-40-200/12 H334383		
7	1	Guide rod	8, 15, 16	1.4404	000 16-25-387/00 H341291		000 16-25-437/00 H341292		000 16-25-487/00 H341293	000 16-25-512/00 H341294
8	2	Retainer ring		1.4310				000 08-39-083/13 H14883		
9	1	Middle seal			EPDM				000 58-33-998/93 H327602	
9	1	Middle seal			HNBR				000 58-33-998/33 H332652	
1	Middle seal				FPM				000 58-33-998/71 H332653	

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Spare Parts List

Double seat mix proof valve D4 SL 1.5 " - 4"; DN 40 - 100

SPX FLOW

Date: 16.3.18
Name: C.Keil
Reviewed:

Date: 11.10.19
Name: Sze-Si.
Reviewed:

Date: 3
Name: 9
Reviewed:

RN 501.047.01

Pos.	Quantity	Description	included in spare parts (pos.)	Material	DN40	1.5"	DN50	2"	DN65	2.5"
Item				Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.
2	2	Seat seal		EPDM					000 58-33-132/93 H168/192	
10	2	Seat seal		HNBR					000 58-33-132/33 H171/561	
2	2	Seat seal		FPM					000 58-33-132/73 H171/559	
11	2	Shaft seal		EPDM					000 58-33-400/93 H337/476	
11	2	Shaft seal		HNBR					000 58-33-400/33 H337/478	
2	2	Shaft seal		FPM					000 58-33-400/73 H337/477	
12	3	Guide ring		Iglidur A500					000 58-01-610/99 H334/863	
13	1	Guide band		Acofлон					000 08-39-380/99 H334/865	
14	1	Quad ring	12,37x2,62	EPDM					000 58-01-049/63 H311/646	
15	2	Hex. screw M10x1		A2					000 65-50-087/15 H118903	
16	2	Square key	3x3x10 DIN6885 Form A	A2					000 29-02-190/17 H335/171	000 29-02-189/17 H335/469
17	1	Actuator	18, 19, 20	1.4301	000 29-02-187/17 H335/470		000 29-02-188/17 H335/469		000 58-06-113/83 H337/897	000 29-02-189/17 H334/394
18	2	O-ring	30 x 2,5	NBR					000 16-28-330/93 H334/376	
19	2	Actuator screw		Iglidur J350					000 58-01-600/73 H334/379	
20	2	V-seal		NBR						

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Spare Parts List

Double seat mix proof valve D4 SL 1,5"- 4"; DN 40 - 100

Spare Parts List						
Double seat mix proof valve D4 SL 1.5 " - 4"; DN 40 - 100						
Pos.	Quantity	Description	in spare parts (pos.)	Material	Date: Name: Reviewed:	
					Date: Name: Reviewed:	Date: Name: Reviewed:
21	3	W-union G1/8" Ø6mm		hard nickel-plated	DN40 Reference no. Part no.	1.5" Reference no. Part no.
23	1	Stop screw		Grivory	DN50 Reference no. Part no.	2" Reference no. Part no.
24	1	Lock washer D4		1.4301		
25	1	Safety nut D3		1.4301		
26	1	Thrust ring		1.4057		
27	8	Hex. screw M8 x 16		A2		
28	1	Yoke cover D4	29	1.4301		
29	4	Savetix head screw M4 x 8 washer M4 as set		1.4301		
30						
31	1	Venting plug G-1/8"		PE-Hard		
32	1	Spray connection DE3		PP		
33	1	G-union 8x1-G1/8"		PVDF-black		
34	1	CU4 D4 adapter compl.		PA6.6 GF30 black	PA6.6 GF30 black	
34	1	CU4plus D4 V1 adapter compl.				

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Spare Parts List

Double seat mix proof valve D4 SL 1.5"- 4"; DN 40 - 100

Spare Parts List						
Double seat mix proof valve D4 SL 1.5 " - 4"; DN 40 - 100						
Pos. Item	Quantity Item	Description	included in spare parts (pos.)	Material	Date: Name: Reviewed:	16.3.18 C.Keil C.Keil
					Reference no. Part no.	Reference no. Part no.
	1	CU43 D4 DC ø6mm		PA 6.6 GF30 black	DN40 Reference no. Part no.	DN50 Reference no. Part no.
	1	CU43 D4 M12 DC ø6mm		PA6.6 GF30 black	1.5"	2"
	1	CU43 D4 AS-i Ext. Ø6mm		PA 6.6 GF30 black	000 08-45-381/93 H336955	000 08-45-571/93 H341343
	1	CU43 D4 M12 AS-i Ext. ø6mm		PA6.6 GF30 black	000 08-45-383/93 H336957	000 08-45-387/93 H338897
35	1	CU43 D4 AS-i Std. ø6mm		PA 6.6 GF30 black	000 08-45-385/93 H338152	000 08-45-385/93 H338152
	1	CU43 D4 M12 AS-i Std. ø6mm		PA 6.6 GF30 black	000 08-45-391/93 H338899	000 08-45-391/93 H338899
	1	CU43plus D4 V1 AS-i Ext. ø6mm		PA6.6 GF30 black	000 08-45-556/93 H338820	000 08-45-556/93 H338820
	1	CU43plus D4 V1 M12 AS-i Ext. ø6mm		PA6.6 GF30 black	000 08-45-341/93 H338865	000 08-45-341/93 H338865
	36	1 Prox. switch holder D4 cmpl.		black	000 16-33-050/93 H336751	000 16-33-050/93 H336751
	37	1 Operating cam D4 bottom		1.4523 / 444FR	000 08-60-461/99 H334386	000 08-60-461/99 H334386
	38	1 Operating cam D4 top		1.4523 / 444FR	000 08-60-460/99 H334387	000 08-60-460/99 H334387
	39	4 Hex. screw M8x40		A2-70	000 65-01-086/15 H336675	000 65-01-086/15 H336675
		Pos. 9, 10, 11, 12, 14 available as complete seal kits only				
	1	Seal kit		EPDM	000 58-38-005/01 H337884	000 58-38-005/01 H337884
	1	Seal kit		FPM	000 58-38-005/00 H337886	000 58-38-005/00 H337886
	1	Seal kit		HNBR	000 58-38-005/06 H337885	000 58-38-005/06 H337885

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Spare Parts List

Double seat mix proof valve D4 SL 1.5 " - 4"; DN 40 - 100

SPX FLOW

RN 501.047.01

Date:	16.3.18	11.10.19
Name:	C.Keil	Sze-Si.
Reviewed:		

Date:		
Name:		
Reviewed:		

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Pos. Item	Description	Included in spare parts (pos.)	Material	3"	DN80	DN100	4"	
Pos. Item	Description	Included in spare parts (pos.)	Material	Reference no. Part no.				
1	Housing D41 1-6		1.4404	000 16-61-562/47 H337188	000 16-61-537/47 H337183	000 16-61-637/47 H337184	000 16-61-662/47 H337189	
1	Housing D41 1-7		1.4404	000 16-61-572/47 H337178	000 16-61-547/47 H337173	000 16-61-647/47 H337174	000 16-61-672/47 H337179	
1	Housing D41 1-8		1.4404	000 16-61-566/47 H337198	000 16-61-541/47 H337193	000 16-61-641/47 H337194	000 16-61-666/47 H337199	
1	Housing D42		1.4404	000 16-62-572/47 H337031	000 16-62-547/47 H337026	000 16-62-647/47 H337027	000 16-62-672/47 H337032	
1	Housing D43		1.4404	000 16-63-572/47 H337041	000 16-63-547/47 H337036	000 16-63-647/47 H337037	000 16-63-672/47 H337042	
1	Housing D44		1.4404	000 16-64-572/47 H335275	000 16-64-547/47 H335278	000 16-64-647/47 H335279	000 16-64-672/47 H335280	
2	Upper valve shaft 13, 16, 25	1.4404		000 16-25-566/00 H341267	000 16-25-541/00 H341266		000 16-25-641/00 H341268	
3	Lower valve shaft		1.4404	000 16-25-564/42 H335392	000 16-25-539/42 H335393		000 16-25-639/42 H335394	
4	Shaft bearing		1.4404	000 16-28-300/12 H334381			000 16-28-301/12 H335713	
5	O-ring		EPDM	000 58-06-295/64 H77039			000 58-06-490/63 H77061	
6	Yoke		1.4301	000 16-40-200/12 H334383			000 16-40-209/12 H335994	
7	Guide rod	8, 15, 16	1.4404	000 16-25-562/00 H341296	000 16-25-537/00 H341295		000 16-25-637/00 H341297	
8	Retainer ring		1.4310				000 08-39-083/13 H14883	
9	Middle seal		EPDM	000 58-33-998/93 H327602			000 58-33-997/93 H327985	
9	Middle seal		HNBR	000 58-33-998/33 H332652			000 58-33-997/33 H332649	
1	Middle seal		FPM	000 58-33-998/71 H332653			000 58-33-997/71 H332648	

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Spare Parts List

Double seat mix proof valve D4 SL 1.5 " - 4"; DN 40 - 100

Pos.	Quantity	Description	included in spare parts (pos.)	Material	3"	DN80	DN100	4"	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.
					Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.				
2	Seat seal			EPDM	000 58-33-132/93 H168192				000 58-33-133/93 H168153			
10	2	Seat seal		HNBR	000 58-33-132/33 H171561				000 58-33-133/33 H171565			
				FPM	000 58-33-132/73 H171559				000 58-33-133/73 H171563			
2	Shaft seal			EPDM	000 58-33-400/93 H337476				000 58-33-405/93 H337668			
11	2	Shaft seal		HNBR	000 58-33-400/33 H337478				000 58-33-405/33 H337670			
				FPM	000 58-33-400/73 H337477				000 58-33-405/73 H337669			
12	3	Guide ring		Iglidur A500	000 58-01-610/99 H334863				000 58-01-612/99 H335702			
13	1	Guide band		Acoflon					000 08-39-380/99 H334865			
14	1	Quad ring	12,37x2,62	EPDM					000 58-01-049/63 H311646			
15	2	Hex. screw M10x1		A2					000 65-50-087/15 H118903			
16	2	Square key	3x3x10 DIN6885 Form A	A2					000 67-40-010/12 H335171			
17	1	Actuator	18, 19, 20	1.4301	000 29-02-190/17 H334394				000 29-02-206/17 H335862			
18	2	O-ring	30 x 2,5	NBR					000 58-06-113/83 H337897			
19	2	Actuator screw		Iglidur J350					000 16-28-330/93 H334376			
20	2	V-seal		NBR					000 58-01-600/73 H334379			

Date:	16.3.18	11.10.19	SPX FLOW
Name:	C.Keil	Sze-Si.	
Reviewed:			

Date:	Reviewed:	RN 501.047.01
Name:		

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Spare Parts List

Double seat mix proof valve D4 SL 1.5 "- 4"; DN 40 - 100

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Spare Parts List

Double seat mix proof valve D4 SL 1.5"- 4"; DN 40 - 100

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Spare Parts list

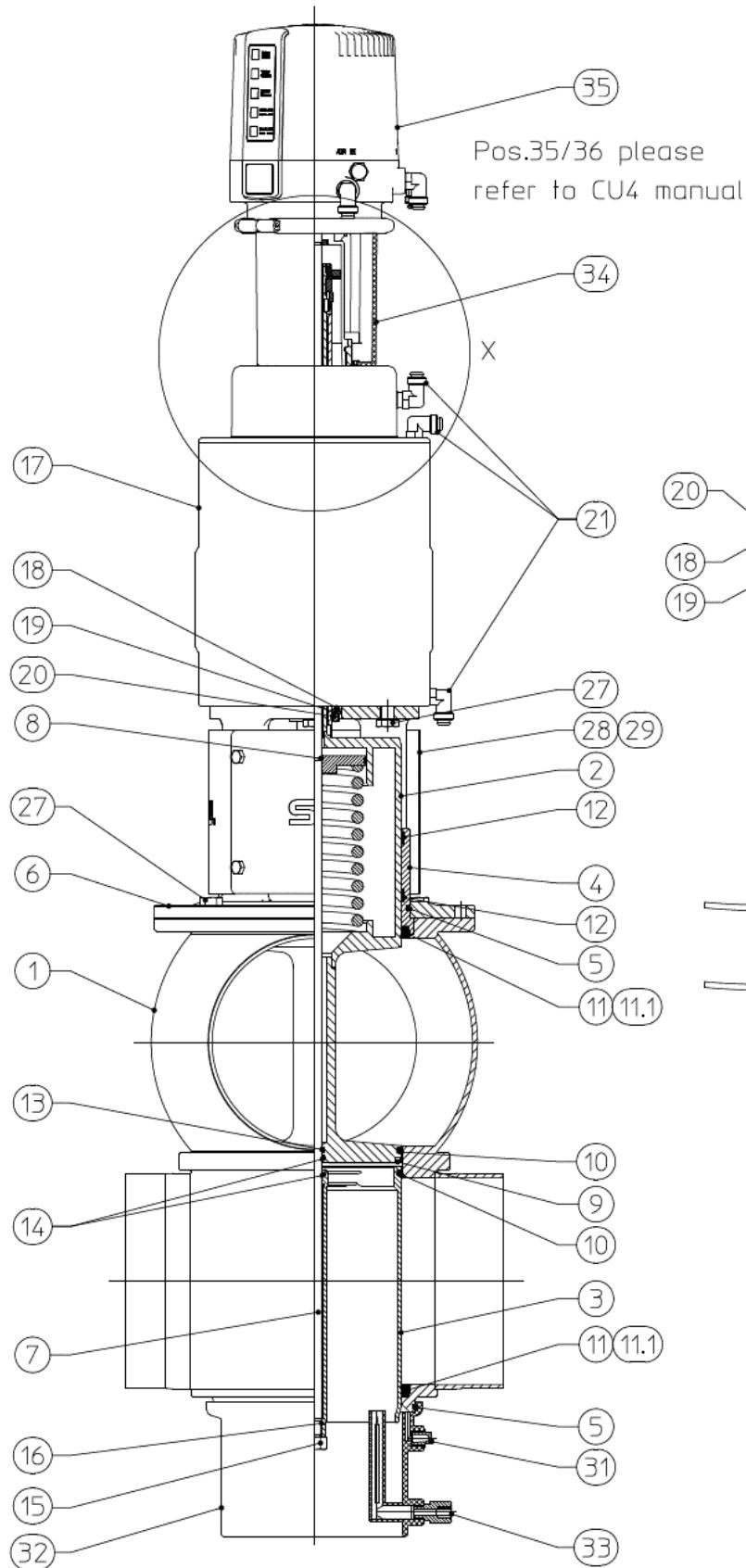
Double seat mix proof valve D4 SL - 125-150-6"

SPX FLOW

RN 501.047.03

Date:	11.10.19	10.06.20
Name:	Sze-Si.	C.Keil
Reviewed:		

Date:	11.10.19	10.06.20
Name:	Sze-Si.	C.Keil
Reviewed:		



Detail X

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Spare Parts list

Double seat mix proof valve D4 SL - 125-150-6"

SPX FLOW			
Date:	11.10.19	Name:	Sze-Si.
Reviewed:			
Date: Page 2 of 5			
RN 501.047.03			

Pos.	Qty.	Description	Material	DN125	DN150	6"	
				Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	
1	1	Housing D41 / 1-6	1.4404	000 16-61-687/47 H340122	000 16-61-737/47 H340135	000 16-61-762/47 H340141	
1	1	Housing D41 / 1-7	1.4404	000 16-61-697/47 H340123	000 16-61-747/47 H340136	000 16-61-772/47 H340142	
1	1	Housing D41 / 1-8	1.4404	000 16-61-691/47 H340124	000 16-61-741/47 H340137	000 16-61-766/47 H340143	
1	1	Housing D42	1.4404	000 16-62-697/47 H340121	000 16-62-747/47 H340134	000 16-62-772/47 H340140	
1	1	Housing D43	1.4404	000 16-63-697/47 H340120	000 16-63-747/47 H340133	000 16-63-772/47 H340139	
1	1	Housing D44	1.4404	000 16-64-697/47 H340119	000 16-64-747/47 H340132	000 16-64-772/47 H340138	
2	1	Upper valve shaft	13, 16, 25	1.4404	000 16-25-694/00 H341269	000 16-25-234/00 H341270	
3	1	Lower valve shaft		1.4404	000 16-25-689/42 H340230	000 16-25-520/42 H340311	
4	1	Shaft bearing		1.4404	000 16-28-302/12 H340243	000 16-28-303/12 H340322	
5	2	O-ring		EPDM	000 58-06-555/63 H77074	000 58-06-655/63 H77081	
6	1	Yoke		1.4301	000 16-40-202/12 H340244	000 16-40-204/12 H340323	
7	1	Guide rod	8, 15, 16	1.4404	000 16-25-687/00 H341298	000 16-25-545/00 H341299	
8	2	Retainer ring		1.4310		08-39-083/13 H14883	
	1	Middle seal		EPDM	000 58-33-996/93 H340247	000 58-33-995/93 H340325	
9	1	Middle seal		HNBR	000 58-33-996/33 H340248	000 58-33-995/33 H340326	
	1	Middle seal		FPM	000 58-33-996/73 H340294	000 58-33-995/73 H340327	

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Spare Parts list

Double seat mix proof valve D4 SL - 125-150-6"

SPX FLOW			
Date:	11.10.19	Name:	Sze-Si.
Reviewed:			
Page 3 of 5			RN 501.047.03

pos.	Quantity	Description	included in spare parts (pos.)	Material	Reference no. Part no.	Reference no. Part no.	Reference no. Part no.	6"
	2	Seat seal		EPDM	000 58-33-135/93 H173940	000 58-33-134/93 H173739		
10	2	Seat seal		HNBR	000 58-33-135/33 H173939	000 58-33-134/33 H173738		
	2	Seat seal		FPM	000 58-33-135/73 H340246	000 58-33-134/73 H338070		
	2	Shaft seal		EPDM	000 58-33-693/93 H77611	000 58-33-743/93 H776238		
11	2	Shaft seal		HNBR	000 58-33-693/33 H170178	000 58-33-743/33 H170177		
	2	Shaft seal		FPM	000 58-33-693/73 H77610	000 58-33-743/73 H77627		
11.1	2	PTFE Shaft seal		PTFE	000 58-33-156/23 H340295	000 58-33-157/23 H340328		
12	2	Guide ring		Iglidur A500	000 58-01-614/99 H340198	000 58-01-613/99 H340182		
13	1	Guide band		Acoflon	000 08-39-380/99 H334865			
14	2	Quad ring 12,37x2,62		EPDM	000 58-01-049/63 H311646			
15	2	Hex. Screw M10x1		A2	000 65-50-087/15 H118903			
16	2	Square key DIN6885 - A - 3x3x10		A2	000 29-02-190/17 H335171	000 29-02-207/17 H340181		
17	1	Actuator	18, 19, 20	1.4301	000 29-02-208/17 H340197	000 29-02-207/17 H340181		
18	2	O-ring 30 x 2,5		NBR	000 58-06-113/83 H337897			
19	2	Actuator screw		Iglidur J350	000 16-28-330/93 H334376			
20	2	V-seal		NBR	000 58-01-600/73 H334379			

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Spare Parts list

Double seat mix proof valve D4 SL - 125-150-6"

SPARE PARTS LIST				Date:	11.10.19	10.06.20		SPX FLOW	
pos.	item	Description	Quantity	included in spare parts (pos.)	Material	Reference no. Part no.	Reference no. Part no.	Name:	C.Keil
21	3	W-union G1/8" Ø6mm			hard nickel-plated	000 08-60-750/93 H208825			
22									
23	1	Stop screw			Gri Ivory	000 16-28-340/39 H334382			
24	1	Lock washer D4			1.4301	000 67-03-030/12 H335172			
25	1	Safety nut D3			1.4301	000 65-50-137/15 H147640			
26	1	Thrust ring			1.4057	000 08-48-106/12 H123151			
27	8	Hex. screw M10 x 20			A2	000 65-01-134/13 H340472			
28	1	Yoke cover D4	29		1.4301	000 16-40-226/00 H341313	000 16-40-227/00 H341314		
29	4	Savetix head screw M6 x 8			1.4301	000 65-06-011/12 H340632			
30		washer M6 as set							
31	1	Venting plug G-1/8"			PE-Hard	000 08-74-014/93 H16507			
32	1	Spray connection DE3			PP	000 09-40-117/93 H178450	000 09-40-118/93 H200320		
33	1	G-union 10/8-G1/4" with supp. sleeve cpl.			1.4571	000 16-38-200/42 H329696			
34	1	CU4 D4 adapter cmpl.			PA6.6 GF30 black	000 08-46-646/93 H337098			
34	1	CU4plus D4 V1 adapter cmpl.			PA6.6 GF30 black	000 08-46-666/93 H336441			

SPX FLOW

RN 501.047.03

Date: Name: Sze-Si. Reviewed: Date: Name: Reviewed:

Name: Reviewed: Date: Name: Reviewed:

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Spare Parts list

**Double seat mix proof valve
D4 SL - 125-150-6"**

APV D4 / D4 SL

DOUBLE SEAT MIX PROOF VALVES



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