

APV DELTA SV1 DN 125-150

BUTTERFLY VALVE

FORM NO.: H343236 REVISION: GB-0

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

Scan for SV1/SVS1F Valve
Maintenance Video



We,

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AUTHORIZED REPRESENTATIVE: SPX Flow Europe Ltd.
(for UKCA) Building A, Compass House, Manor Royal
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

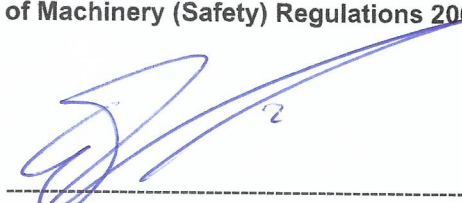
meet the requirements of the Machinery Directive 2006/42/EC
& EN ISO 12100-2010, DIN EN ISO 14159-2008-07, DIN EN 1672-2-2009-07.

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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SV1 – NC DN 125–150	RN 01.038.022
SV1 – H DN 125–150	RN 01.038.023
Manual handle SVS1F DN 125-250	RN 01.038.010
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Turning actuator K-080, K-125, K-180	RN 01.073
Turning actuator K-080, K-125, K-180 for control unit	RN 01.076

1. General Terms

This instruction manual must be read and observed by the responsible 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 is strictly forbidden.
Danger to health and life!**

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

Defective actuators 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!



- **Do not touch the open valve or yoke!**
Risk of injury due to sudden valve operation.



- Risk of injury in dismantled valve state due to sudden valve operation.



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

2. Safety



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



- During disassembly liquid residue can be in the valve.



- Remove the turning actuator before seal replacement.



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



- Regular maintenance including the replacement of all seals must be scheduled in order to prevent leakage and discharge of liquids.



The valve must only be assembled, operated, disassembled, maintained and serviced by trained personnel. Please contact your local SPX FLOW representative if required

3. Intended Use

The intended use as field of application of the butterfly valves is the shut-off of line sections.



Caution! Arbitrary, constructive changes at the valve will influence safety as well as the intended functionality of the valve and are **not** permissible.



Caution! The standard SV1 valve must not be used in explosive atmospheres.

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

SPX FLOW APV 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 ≤ 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

4.1. General terms

Use of high-quality steel and seal materials to the specified requirements, the butterfly valve range DELTA SV1 is applicable in the food and beverage industries as well as in the chemical and pharmaceutical industries.

Valves of the series DELTA SV1 can either be operated manually or remote controlled via a pneumatic actuator. Manual operation and pneumatic actuator including add-on pieces are interchangeable.

In the standard design "NC", the pneumatic turning actuator opens the valve with compressed air.

Reset by spring force into the limit position "closed".

If required, the switching times of the controlled valve can be extended via the pneumatic air throttle or the adjusting screws in the control unit in order to optimize the flow behaviour and to reduce pressure hammers potentially arising in installations.

The butterfly valves can be used in vacuum operation.

The valve opens and closes by turning the disc by 90°.

Smooth valve passage without diversion of line flow.

The opening diameter complies with the size of the inner line diameter.

5. Auxiliary Equipment

5.1. Valve position indication - controlled/manual valve

Proximity switches to signal the limit position of the valve disc can be installed in the yoke area if required.

Feedback of the two disc positions **open** and **closed** is possible.

We recommend to use our APV standard proximity switches.
Three-wire proximity switch (ref.-No. 08-60-011/93, H16223)
Operating distance: 4 mm / diameter: 11 mm / length: 30 mm.

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

5. Auxiliary Equipment

fig. 5.2.



5.2. Control unit

(CU, fig. 5.2.)

Units with feedback switch and solenoid valve for the pneumatic control of the valve are also available in fieldbus technology. The assembly of a control unit on a pneumatic actuator is possible.

The following different designs are available:

Direct Connect	CU41-T-Direct Connect 08-45-101/93; H320461
AS-i extended 62 slaves	CU41-T-AS-i extended 08-45-111/93; H320468
DeviceNet	CU31 DeviceNet 16-31-240/93; H209422
Profibus	CU31 Profibus 08-45-001/93; H315495

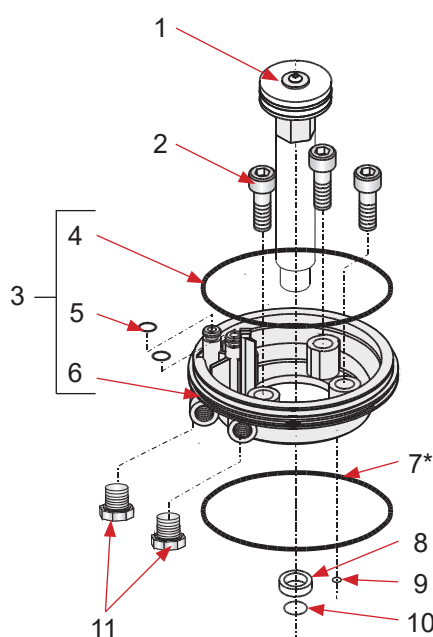
5.3. Adapter for control unit

(fig. 5.3.)

CU31 Profibus, CU31 DeviceNet

The following adapters are required to install the CU3 control unit on the SV1 valve.

fig. 5.3.



Spare parts for CU2 adapter

Item	Pcs.	Designation	reference No. ID No.
-	-	CU2 adapter SVS1F125-250, DKR80-100	000 08-48-417/93 H209432
1	1	CU operating cam compl. SVS/DKR	000 08-60-779/93 H208853
2	3	cyl. screw ISO1207 M5x18-A2-7	000 08-60-760/15 H208835
3	1	adapter set	000 08-60-333/93 H310442
- 4	1	O-ring 88,62-1,78 NBR	000 58-06-387/83 H208639
- 5	2	O-ring 5,28-1,78 NBR	000 58-06-044/83 H208640
- 6	1	CU adapter for SVS, DKR	000 08-60-728/93 H208803
7*	1	O-ring 90-2 NBR *scope of supply actuator	000 58-06-426/83 H143352
8	1	V-seal 20x28x4	000 58-32-010/83 H171060
9	1	O-ring 13,0-2,0 NBR 70	000 58-06-049/83 H208642
10	1	O-ring 11-3 NBR	000 58-06-039/83 H208632
11	2	blind plug G1/8"	000 08-60-740/93 H208815

5. Auxiliary Equipment

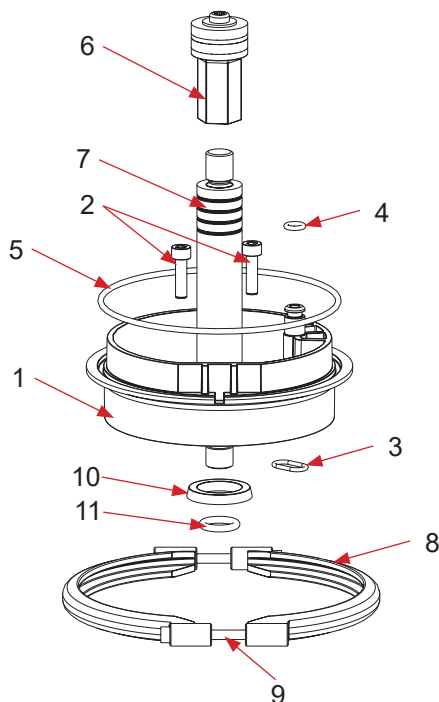
5.3.1. Adapter for control unit

(fig. 5.3.1.)

CU41-T-Direct Connect, CU41-T-AS-i extended

The following adapters are required to install the CU4 control unit on the SV1 valve.

fig. 5.3.1.



Spare parts for CU4 T-adapter

Item	Pcs.	Designation	reference No. ID No.
-	-	CU4 Tmax-adapter cpl.	000 08-48-611/93 H 321987
1	1	CU4 T-adapter	000 08-46-571/93 H319875
2	3	cyl. screw ISO1207 M5x16-A2-70	000 65-05-054/13 H79000
3	1	O-ring 11,11-1,78 NBR 70shore A	000 58-06-034/83 H321897
4	1	O-ring 6-2 NBR	000 58-06-059/83 H320505
5	1	O-ring 101,27-2,62	000 58-06-493/83 H148389
6	1	CU4 operating cam complete	000 08-60-900/93 H320479
7	1	CU4 SVS, DKR operating rod	000 08-60-906/93 H321990
8	2	CU4 clamp halves complete	000 08-46-569/93 H319873
9	2	cyl. screw ISO 4762 M4x40 inner hexagon	000 65-05-040/13 H320360
10	1	V-seal	000 58-32-010/83 H171060
11	1	O-ring 11 x 3	000 58-06-039/83 H208632

5.4. Turning actuator for control unit

- For the assembly of a control unit on the butterfly valve a special turning actuator is required.

The standard turning actuator must be replaced.

Turning actuator for control unit

DN 125–150/K125 F/L-RME	ref. No.: 000 15-37-106/17 ID No.: H128942
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6. Cleaning

6.1. Cleaning recommendation

The valve passage is cleaned by the cleaning liquids during cleaning of the connected pipelines.

Depending on the degree and constituents of soiling, the cleaning liquids, times and processes must be scheduled for the individual application.



Caution!

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

7. Installation and Startup

In normal installation position, the actuator is positioned vertically to the top. Depending on the respective application, optional installation positions can, however, also be realized.

SV1 valves with weld ends are welded direct into the product line. It must be observed that a separate dismantling option via flange connections, etc. exists within the continuing pipeline.



Caution!

Observe Welding Instructions 7.1.



Before first startup:

- Check the function of the control unit of valve position indication, if installed.
- Check for possible leakages during commissioning. Replace defective seals.

7.1. Welding Instructions

- Before welding, all sensitive parts of the valve must be removed! Remove valve core with seals, etc. from the mating flanges.
- Welding may only be carried out by certified welders (DIN EN ISO 9606-1). (seam quality DIN EN ISO 5817).
- Welding of the housing halves must be undertaken in such a way that the flanges are not deformed.
- TIG orbital welding is recommended.
- The preparation of the weld seam up to 3 mm thickness must be carried out as a square butt joint without air. Consider shrinkage!



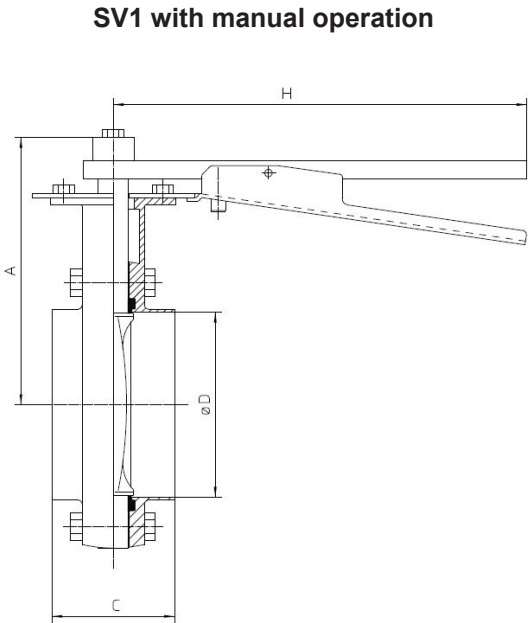
Caution!

After welding of the housing halves, 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, seals and plant.

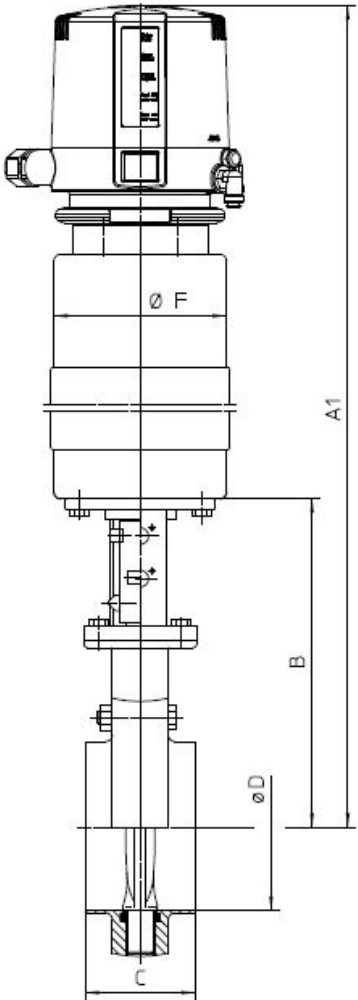
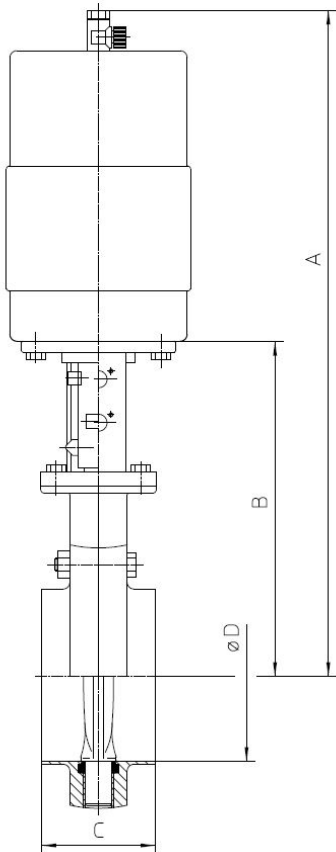
- If these welding instructions are not followed, any resulting damage will not be covered by the warranty.

8. Dimensions/Weights

SV1 with turning actuator
and CU4 control unit



SV1 with turning actuator



Dimensions in mm

DN	A	A1	B	Ø D	E	Ø F	G	H
125	491	637	247	125	83	130	130	280
150	505	652	261	150	83	130	130	280

Weights in kg			
DN	manual	actuated	actuated with control unit
125	12,2	17,4	18,6
150	13,8	19,0	20,2

9. Technical Data

9.1. General data

- max. line pressure: 10 bar
- max. operating temperature: 135 °C EPDM, HNBR
* VMQ, * FPM
- short-term load: 140 °C EPDM, HNBR
* VMQ, * FPM
* (no steam)
- valves > DN100/4" CIP cleaning liquids
up to 100 °C
- vacuum tightness: 2 mbar
- opening angle butterfly valves: 90°
min. pneumatic air pressure: 6 bar
max. pneumatic air pressure: 10 bar
- air connection (for hose): 6 x 1
angle union – G1/8"
slewable: tightening torque 2 Nm

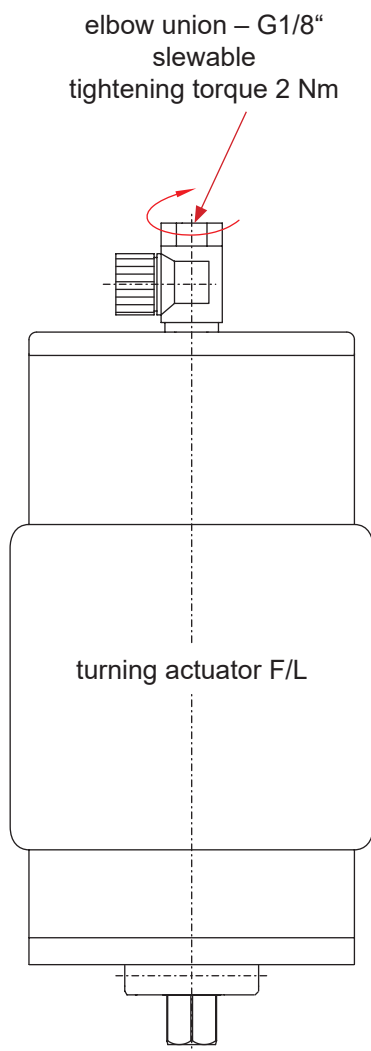
9.2. Compressed air quality

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.

9.3. Tightening torque, Pneumatic air consumption, Kvs-value

DN	125	150	200	250
turning actuator	K125	K125	K180	K180
required torque Md Nm	30	45	65	80
pneumatic air consumption at 6 bar V NL	5,5	5,5	11	11
Kvs-values in m ³ /h	850	1500	2500	4000



10. Materials

- valve disc	1.4404/1.4571 (DIN EN 10088)
- housing flange	1.4404 (DIN EN 10088)
- SV seal, flange seal	
standard:	EPDM
option:	HNBR, VMQ, FPM
- bearing bush	polyamide
- handle	1.4301
Actuator	
- yoke, actuator, bracket	1.4301 (DIN EN 10088)
- coupling	1.4301 (DIN EN 10088)
- socket	PE-hard
- indicator	PE-hard
- spindle bearing	polyamide PA 12/POM
- piston	polyacetale POM
- air connection	polyamide PA 6.6

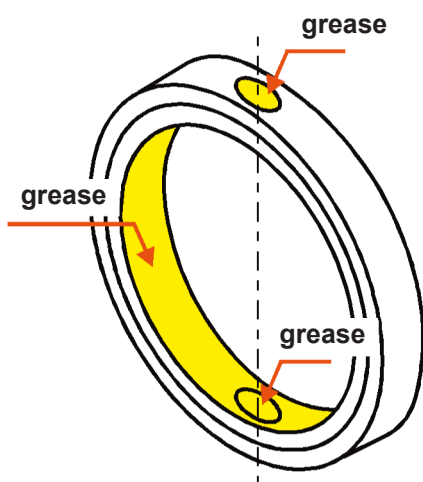
11. Maintenance



Note!

- The maintenance intervals are different depending on the application and must be determined by the operator performing regular checks.
- The butterfly valve possesses just a few spare parts: SV seal, flange seal and bearing bushes.
- Customer stock keeping of spare seals is recommended. For valve service actions we supply complete seal kits (see spare parts lists).
- If damaged seals are replaced, generally all seals and bearings should be changed.
- Dismantling and installation of seals according to Service Instructions.
- Assembly of valve and change of valve design NC (FZ) or NO (FO) according to Service Instructions.
- Installation of turning actuator according to Service Instructions.
- The inner parts of the actuator are maintenance free.

SV seal



Note!

Provide all seals with a thin layer of grease before their installation. Grease SV seal according to illustration - especially in the cross bores.



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.

Recommendation:

APV assembly grease for EPDM, FPM, HNBR and NBR

(0,75 kg/tin - ID 000 70-01-019/93 ; H147382)

(60 g/tube - ID 000 70-01-018/93 ; H147381)

or

APV assembly grease for VMQ (silicone)

(0,6 kg/tin - ID 000 70-01-017/93 ; H147380)

(60 g/tube - ID 000 70-01-016/93 ; H147379)

Do not use grease containing mineral oil for EPDM seals!

Do not use Silicone-based grease for VMQ seals!



Less suited grease types can influence the function and life time.

12. Service Instructions

12.1. Dismantling from the line system



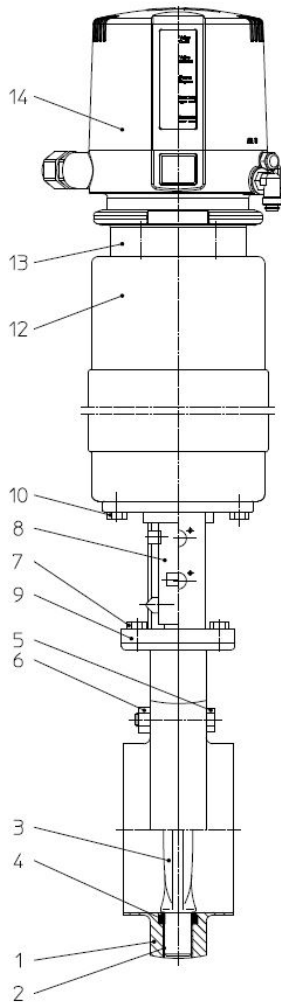
Caution!

The valve can only be dismantled via an additional separate connection in the continuing pipeline.



Caution!

1. Shut off connecting lines, let down line pressure and drain pipeline if possible.
2. Disconnect electric and pneumatic connections.
3. Release clamp connection at the proximity switch holder.
4. Release additional separate connection in the pipeline.



12.2. Dismantling of the actuating device

Design with pneumatic actuation

(spare parts list RN 01.038.022):

Remove the two fastening screws (7) at the yoke (9). Lift off the actuator (12) with yoke and coupling (8) to the top.

The control unit does not need to be removed from the actuator.

Design with manual actuation

(spare parts lists RN 01.038.10 or RN 01.038.10-1):

Remove fastening screws (2) and lift the complete handle.

12. Service Instructions

12.3. Dismantling of inner parts

Dismantling is only possible via a separate connection in the pipeline.

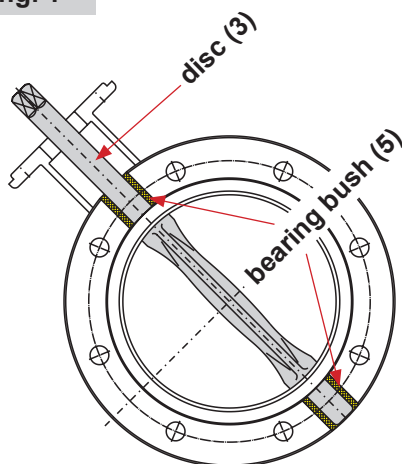
Seal ring, bearing bushes, valve disc

1. Remove all fastening screws (6) around the valve housing and part the housing halves.
2. Remove inner parts.

12.4. Replacement of seals

1. Turn the disc (3) in the seal ring into open position.
2. Remove bearing bushes (5) from the bearing spindle.
3. By a slight pressing, the seal ring is deformed in its longitudinal axis. Pull the seal ring off via the short bearing spindle and slide it down via the long bearing spindle.
4. Clean the valve disc (3).

fig. 1



12.5. Installation of seals and bearing bushes



Caution!

Use only the assembly grease being suited for the respective seal material.

1. Before the installation, provide the inner surfaces of the cross holes and the sealing surface and bearing spindles with a thin layer of grease (see chapter 11).
2. Install the seal ring over the long bearing spindle, at first, and then over the short bearing spindle on the disc (3).
3. Slide the bearing bushes (5) on the bearing spindle. The bearing bushes must be flush with the housing half (fig. 1).
4. Turn the valve disc in the seal ring in open position.
5. Place the valve disc with seal ring and bearing bushes in one housing half. Adopt the other housing half and tighten the assembly crosswise with the screws (6).

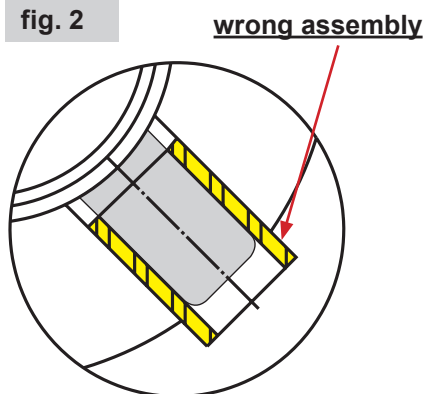


Caution!

While tightening the screws, the valve disc must be in **open** position. Damage of valve disc seal during assembly in **closed** position is possible.

The bearing bushes must not project the housing flange (fig. 2).

fig. 2



12. Service Instructions

12.6. Installation of the actuating device

1. Observe the steps mentioned in 12.2 in reverse order
2. With manual butterfly valves, the disc and the handle are in a line.
3. Observe the required valve design **NC** or **NO** during the installation of the turning actuator.

- **NC (FZ) = normally closed**

Valve disc is closed. Place the turning actuator with yoke and coupling on the valve and fasten the assembly with the screws (7). The **upper** operating cam must be adjusted to the **upper** yoke bore.

- **NO (FO) = normally open**

Valve disc is open. Place the turning actuator with yoke and coupling on the valve and fasten the assembly with the screws (7). The **lower** operating cam must be adjusted to the **lower** yoke bore.

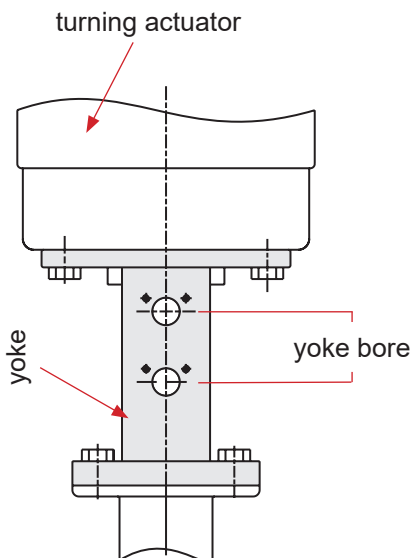


Caution! Do not touch the open valve after the installation of the turning actuator. Risk of bruising at movable valve parts.
Risk of injury by sudden valve operation.

12.7. Installation of feedback units

- Valve position indication **OPEN**:
Installation of the feedback unit in the **lower** yoke bore.
- Valve position indication **CLOSED**:
Installation of the feedback unit in the **upper** yoke bore.

Insert proximity switch support into the yoke bore and fasten it.
Introduce the proximity switch into the support until it stops and fix it with the clamp screw.



13. Spare Parts Lists

If damaged seals are replaced, generally all seals should be changed.

For valve maintenance we supply complete seal kits (see 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.

Technical drawing of a mechanical assembly in cross-section, labeled with numbers 1 through 11. The drawing shows a vertical assembly with a central shaft and various components. A label 'RN 01.073' is present near the top left.

11
RN 01.073

10

8

7

5

3

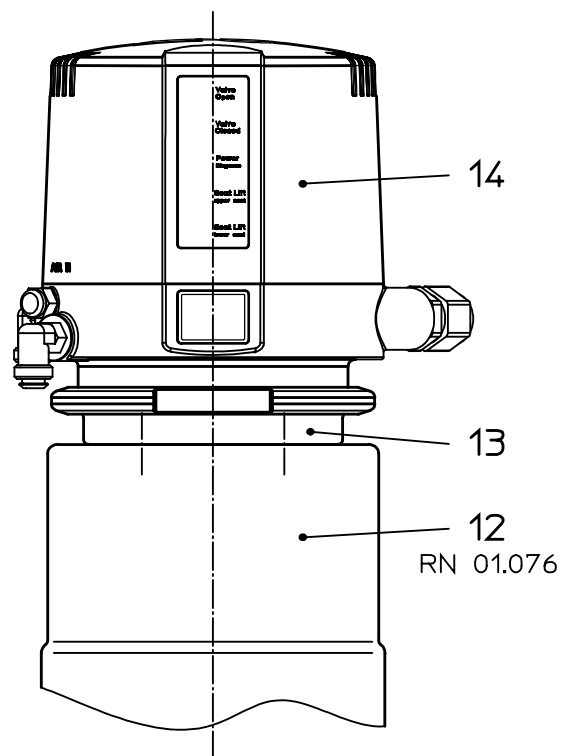
1

9

6

4

2



Datum:	13.05.19									
Name:	Waltenbe									
Gepprüft:	D.Schulz									

Scheibenventil SV1 -FZ-CU
Butterfly valve SV1 -A-CU
DN125-150 1+2S

SPX

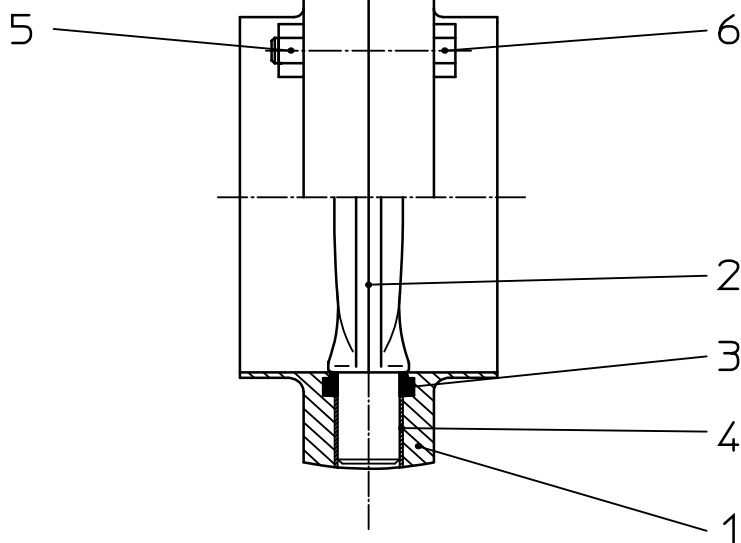
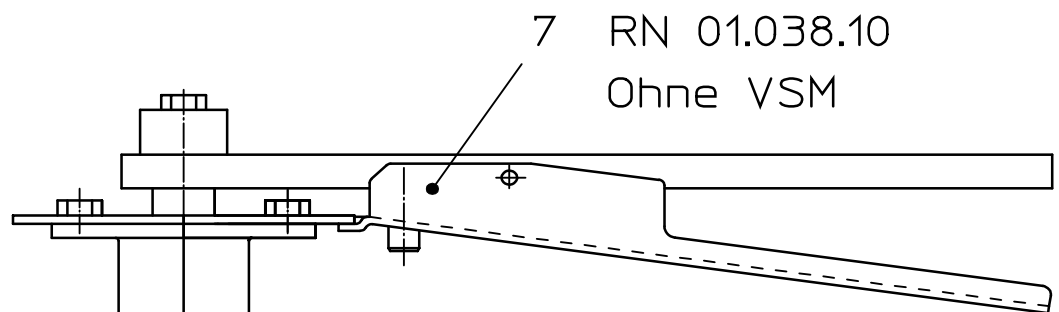
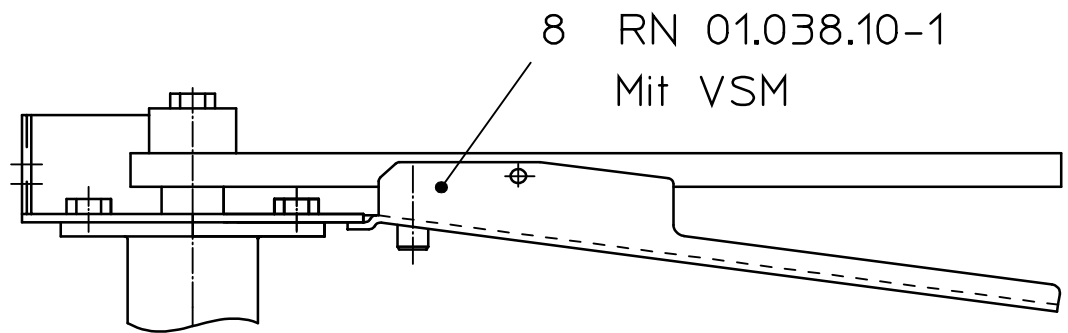
RN 01.038.022

SPX
SPX FLOW
Germany

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RN01.038.022		

SPX
SPX FLOW
Germany

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Datum:	13.05.19																			
Name:	Waltenb																			
Geprüft:	D.Schulz																			

Ersatzteilliste: spare parts list

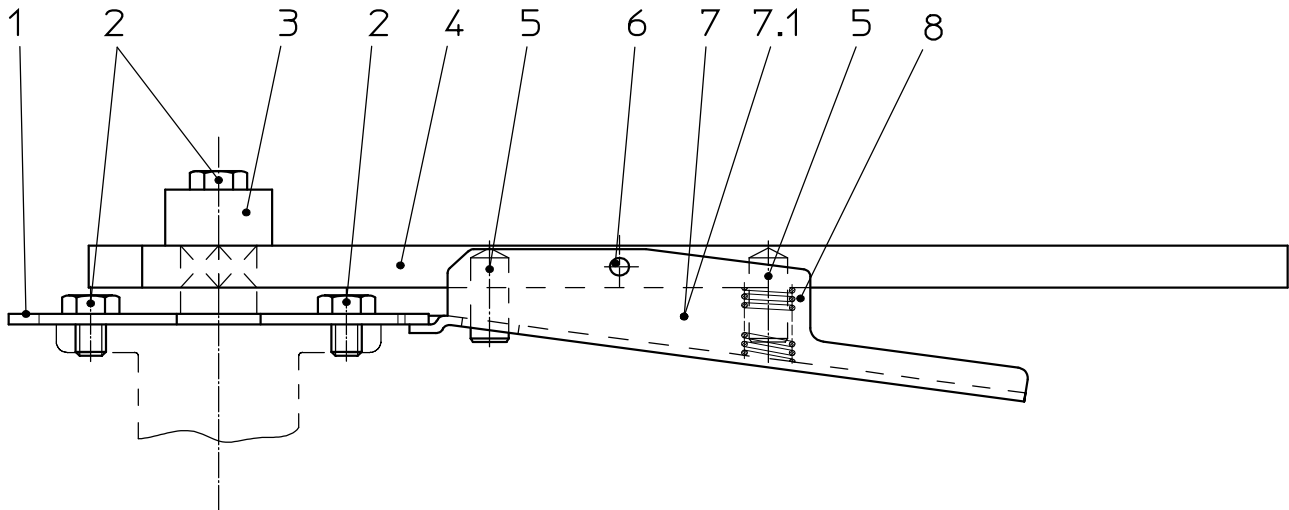
Scheibenventil SV1 -Handbetätigung und Handbetätigung für Ventilstellungsmeldung
Butterfly valve SV1 -handle and handle with position indicator
DN125-150 1+2S

SPX

SPX FLOW
Germany

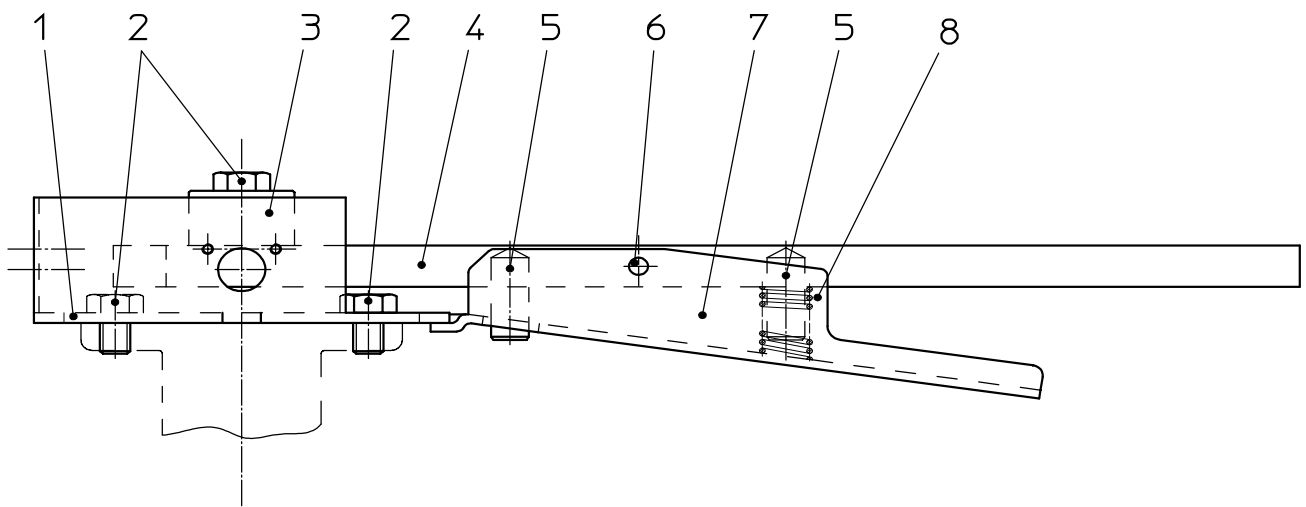
Blatt 1 von 2

RN 01.038.023



Datum:	10.02.14										
Name:	Trytko										
Geprüft:											
Ersatzteilliste: spare parts list											
Handbetätigung mit Endlagenverriegelung und Handbetät. abschließbar für SVS1F Handle with lockingdevice and handle lockable for butterfly valves SVS1F DN125-250											

			
SPX FLOW Germany			
Blatt	1	von	2
RN01.038.10			



Datum:	10.02.14										
Name:	Trytko										
Geprüft:											

Ersatzteilliste: spare parts list

Handbetätigung mit Endlagenverriegelung für Ventilstellungsmeldung SVS1F
Handle with lockingdevice for valve position indicator for batterfly valves SVS1F
DN125-250



SPX FLOW
Germany

Blatt

1

von

2

RN01.038.10-1

[illegible]

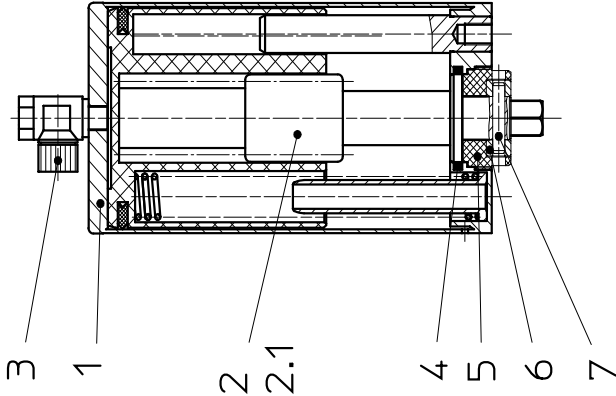
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Spare parts list

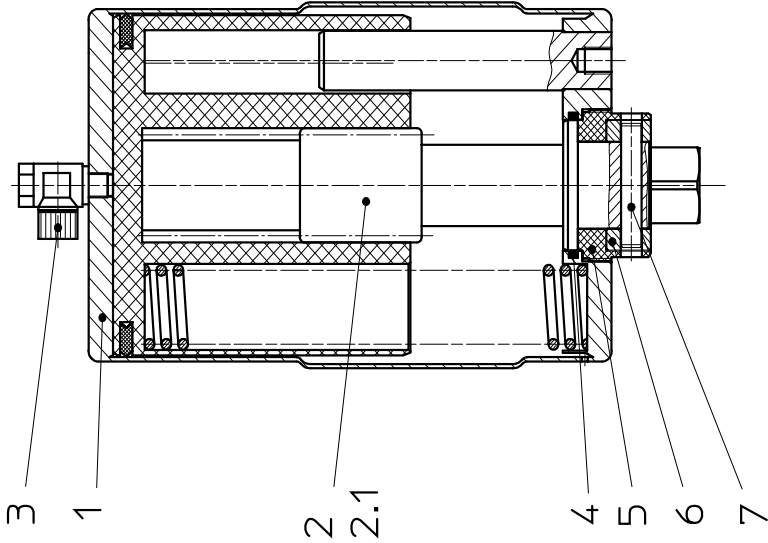
Actuator K080, K125, K180 spring/air

Date:	22.11.12	12.03.14	SPX FLOW	
Name:	Trytko	Trytko		
Reviewed:	Goebel			
Date:			Page 1	of 2
Name:			RN 01.073	
Reviewed:				

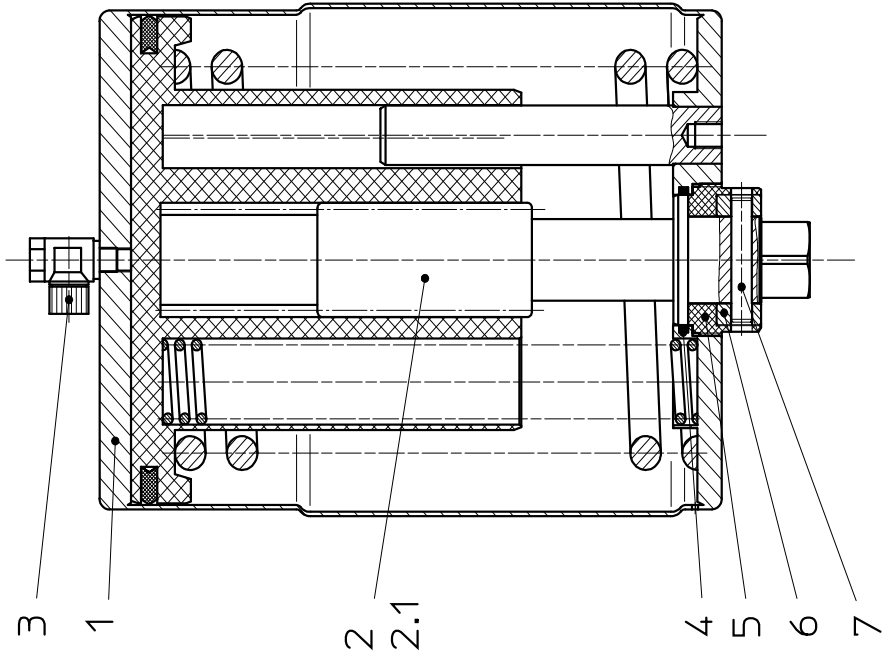
DRAT K080



DRAT K125



DRAT K180



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Spare parts list

Actuator K080, K125, K180 spring/air

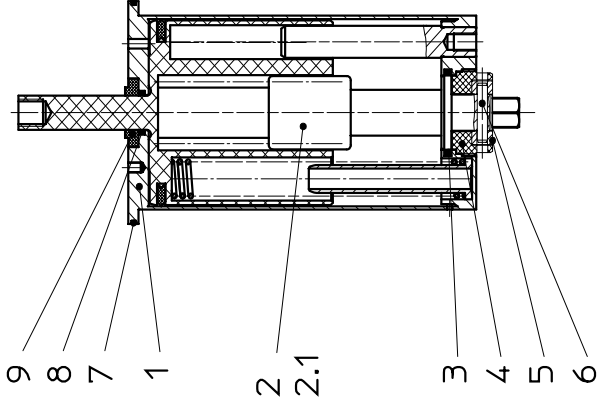
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Spare parts list

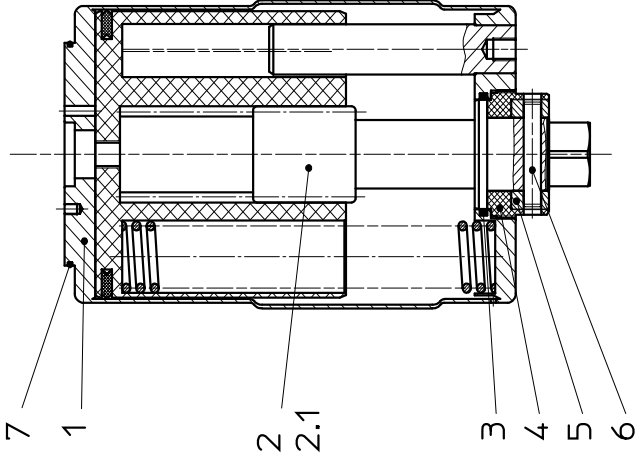
Actuator K080, K125, K180 spring/air for control unit

Date:	28.03.13	08.05.14	SPX FLOW	
Name:	Trytko	Trytko		
Reviewed:				
Date:			Page	1 of 2
Name:			RN 01.076	
Reviewed:				

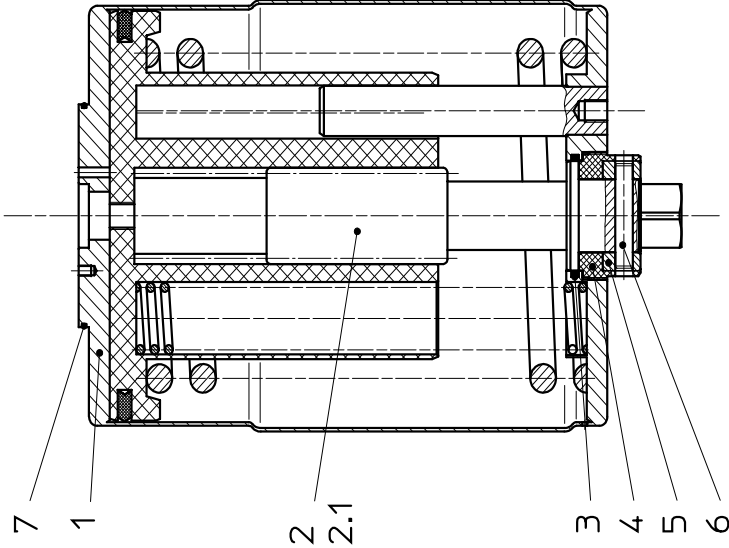
DRAT K080-RM



DRAT K125-RM



DRAT K180-RM



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Spare parts list

Actuator K080, K125, K180 spring/air for control unit

[illegible]

APV DELTA SV1 DN 125-150

BUTTERFLY VALVE



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Scan for SV1/SVS1F Valve
Maintenance Video

