

APV DELTA SV1 DN25-100, 1"-4"

BUTTERFLY VALVE

SAFETY AGAINST EXPLOSION - FOR SPECIFIC ATEX-APPLICATIONS



FORM NO.: H330424 REVISION: UK-0-ATEX

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





EU Declaration of Conformity for Valves and Valve Manifolds

SPX Flow Technology Germany GmbH
Gottlieb-Daimler-Str. 13, D-59439 Holzwickede
herewith declares that

APV butterfly valves of the series SV1 ATEX design
in the nominal diameters DN 25 – 100, 1“ – 4“

meet the requirements of:

Machinery Directive 2006/42/EC
(superseding 89/392/EEC and 98/37/EC)
Equipment and Product Safety Act GPSG - 9.GPSGV
and

Directive on the Protection against Explosion 2014/34/EU ATEX (superseding 94/9/EC)
for Equipment Category -/2GD IIB TX

For official inspections, SPX FLOW presents
a technical documentation according to Appendix VII of the Machinery Directive,
this documentation consisting of documents of the development and construction,
description of measures taken to meet the conformity and to comply with
the basic requirements on safety and health, incl. an analysis of the risks,
an analysis of ignition hazards as well as an instruction manual with safety instructions.

The conformity of the valves is guaranteed.

An ATEX documentation is lodged at the notified body DEKRA EXAM GmbH
in Bochum, Germany (No. 0158).

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November 2017

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APV®

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| Turning actuator | RN 01.073 |

1. General Terms

This instruction manual applies for butterfly valves of the series SV1 in the nominal dimensions DN25-100, 1"-4" for use in specific ATEX applications (according to Directive 2014/34/EU).

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

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.

1.1. Symbols



This symbol draws your attention to important directions which have to be observed with regard to the operation in explosive areas.



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

1.2. Responsibility for ATEX certification - scope of supply

SPX FLOW will be held responsible only for the valves supplied and selected according to the operating conditions indicated by the customer or end user and as stated in the order confirmation. If in doubt, contact your SPX FLOW partner.

All other assembled equipment and devices must have a separate certification, provided by the supplier(s) of that equipment and devices, of at least the same or higher grade of protection as the valve supplied by SPX FLOW. The complete unit must be certified separately by the final assembling manufacturer and must have a separate name plate supplied by the unit manufacturer.

2. Safety Instructions

**Danger!**

Do not touch the open valve or the yoke!

Risk of injury due to sudden valve operation.

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

- Regular maintenance including the replacement of all seals and bearing bushes must be scheduled in order to prevent leakages and discharge of liquids.
- Before any maintenance work the line system must be depressurized and drained if possible.
- Separate all electric and pneumatic connections.
- Observe the following Service Instructions to ensure safe maintenance of the valve.

**Danger!**

Welded actuators are preloaded by spring force.

**Opening of the actuators is strictly forbidden.
Danger to life!**

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

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

Please address to your local SPX FLOW representative.

2. Safety Instructions

Installation, connection, start-up, maintenance and repair work must only be carried out by qualified personnel.

The following aspects must be observed:

- The instructions of this manual together with all relevant instructions for the components, equipment and installations installed.
- Warnings and installations fixed to the components.
- The specific regulations for and requirements to the system in which the valve is installed.
- The currently valid regional, national and international regulations.
- The potential equalization between disc and housing by means of the spring must generally be ensured.
- Any special requirement and national legislation relative to the use of flammable liquids or tools, e.g. the risk of ignition in case of spark formation, must be observed.



It must be ensured that the group, the category and the temperature class of the valve complies with the minimum requirements of the operating environment!



Inflammable gas mixtures or dust concentrations in connection with hot, operational and movable parts of the valve can lead to serious or fatal injury!



Before start of assembly the operator must make sure that an explosive atmosphere does not exist (detection/measurement of potential concentration of hazardous substances).



Conductive connection to the pipeline must be provided.
The integration into the internal potential equalization must be guaranteed!

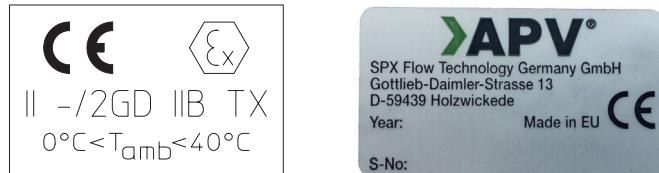


The APV CU2, CU3 and CU4 Control Units are not suited for use in ATEX environments!

3. Identification of valves, Temperature classes, Responsibilities

3.1. Identification of valves for use in ATEX environment

ATEX - identification:



- Equipment group II
 - Equipment category outside 2GD
inside no equipment
 - Explosion subcategroy IIB
- Ambient temperature for the operation
- $0^{\circ}\text{C} \leq \text{T}_{\text{amb}} \leq 40^{\circ}\text{C}$
- temperature classes TX (according to table 3.2)

3.2. Temperature classes and permissible temperatures

| Media temperature | $\leq 75^{\circ}\text{C}$ | $\leq 95^{\circ}\text{C}$ | $\leq 130^{\circ}\text{C}$ | up to 140°C = Tmax. |
|-------------------|---------------------------|---------------------------|----------------------------|---|
| Safety addition | + 5 °C | + 5 °C | + 5 °C | + 5 °C |
| Temperature class | T6 | T5 | T4 | T3 |

Under standard operating conditions the highest surface temperature will be comparably as high as the temperature of the medium plus a safety addition for local temperature increases. The valve must be completely free to the environment in order to provide for sufficient heat release.

All data (temperature classes) refer to an ambient temperature of 0°C to 40°C. If the ambient temperature is above 40°C, the temperature difference must be adjusted. In all cases, contact your responsible SPX FLOW representative!

3. Identification of valves, Temperature classes, Responsibilities

3.3 Responsibilites

It is within the operator's responsibility to ensure that the specified product temperatures are not exceeded and that regular inspections and maintenance are carried out to provide for proper function of the valve.

4. Intended Use

The intended use as field of application of the butterfly valves is the shut-off of line sections, especially in beverage and food installations.

Its use is permissible only within the admissible pressure and temperature margins and under consideration of chemical and corrosive influences.

Any use exceeding the margins and specifications set forth, is considered to be not intended.

Any damage resulting therefrom is not within the responsibility of the manufacturer.

The user will bear the full risk.



Attention!

Improper use of the valve leads to:

- damage
- leakage
- destruction.

Failures in the production process are possible.



Warning!

The valve is suitable for use in hazardous areas as identified on the valve according to Directive 2014/34/EU.

Earthing of the valves must be guaranteed.

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

Authorizations and External Evaluations

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

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

5. Mode of Operation

5.1. 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.

The valves are designed for universal applications and stand out for their increased mechanical reliability and absolute ease of service.

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

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

The butterfly valve can also be used in vacuum systems.

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.

Proximity switches to signal the final position of the valve disc can be mounted in the yoke area.



The use of valve position indicators which are approved for the application in explosive atmosphere is compulsory.

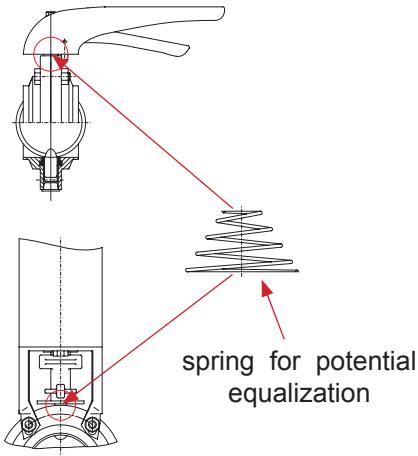
The use and operation of valve position indicators shall be evaluated by the operator of the installation!

5. Mode of Operation

5.2. Potential Equalization

A possible risk may result from a potential difference between the components. With non-conducting media or empty pipeline sections, a conducting connection must be created between the valve components. With butterfly valves, this is reached by the installation of a spring.

In explosive atmospheres, we generally recommend to ensure the potential equalization between disc and housing by installation of the spring mentioned below.



| DN 25–100/Inch 1"-4" | |
|--|-----------------------------|
| Designation: | Reference number: |
| * pressure spring SV/SVS1F potential equalization | 000-60-06-003/13 H311618 |

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.

The compatibility of the individually selected cleaning processes and liquids with the respectively used seals must be verified.

7. Installation

7.1. General terms

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.

Separate dismantling by a flange connection, etc. in the continuing pipeline must be provided.

7. Installation

7.2. Connections

Beside the housings with weld ends the following connections are alternatively available:

- threaded and cone port to DIN 11851,
- threaded port RJT, ISS/IDF, SMS.
- clamp connection acc. to 32676 (DN 25 - 100)
- clamp connection acc. to ISO 2852 (Inch 1" - 4")

Attention! Observe welding instructions 7.3.



Conductive connection to the pipeline must be provided.
The integration into the internal potential equalization must be guaranteed!

7.2. Welding Instructions

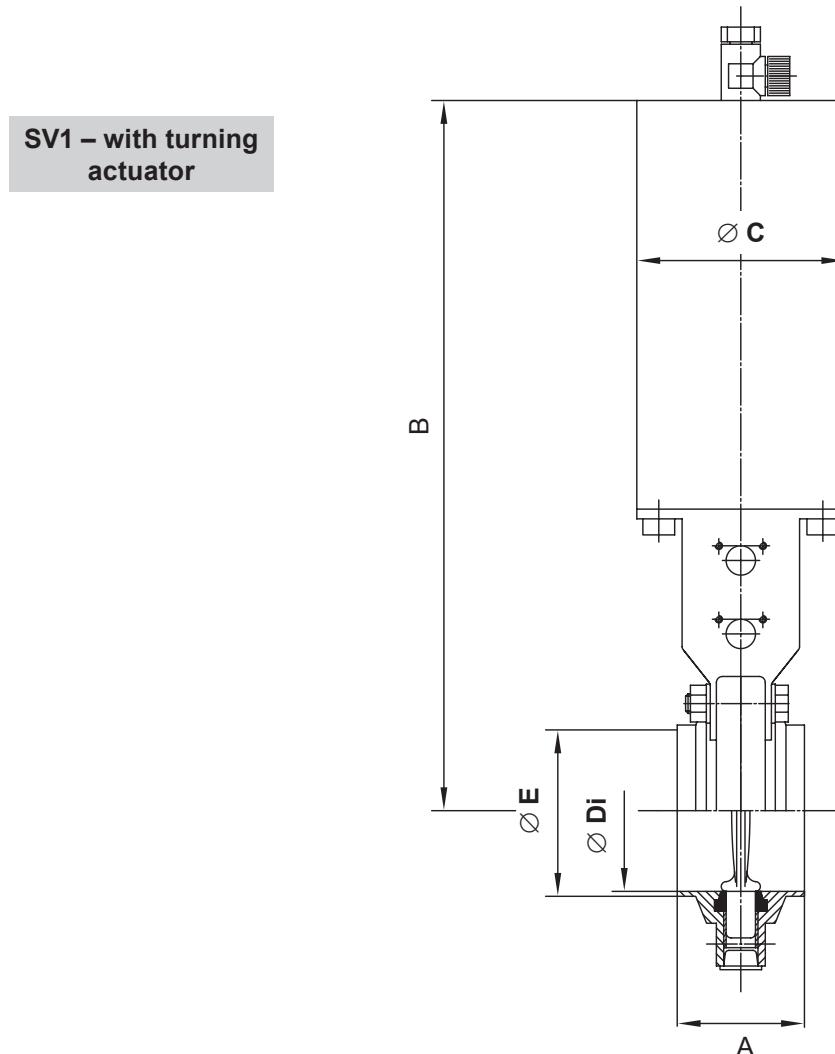
- Welding may only be carried out by certified welders (DIN EN ISO 9606-1). (seam quality DIN EN ISO 5817).
- The welding of the mating flanges must be effected in such a way that deformation strain cannot be transferred to the valve body.
- The preparation of the weld seam up to 3 mm thickness must be carried out as a square butt joint without air.
(Consider shrinkage!)
- TIG orbital welding is the most appropriate method.
- Before welding, all heat sensitive parts (e.g. seal, bearing, disc) of the valve must be removed!

After welding of the mating flanges and after work at the pipelines, the corresponding parts of the installation or pipelines must be cleaned from welding residues and soiling.

If these cleaning instructions are not observed, welding residues and dirt particles can settle in the valve and cause damage or be carried over to other parts of the installation.

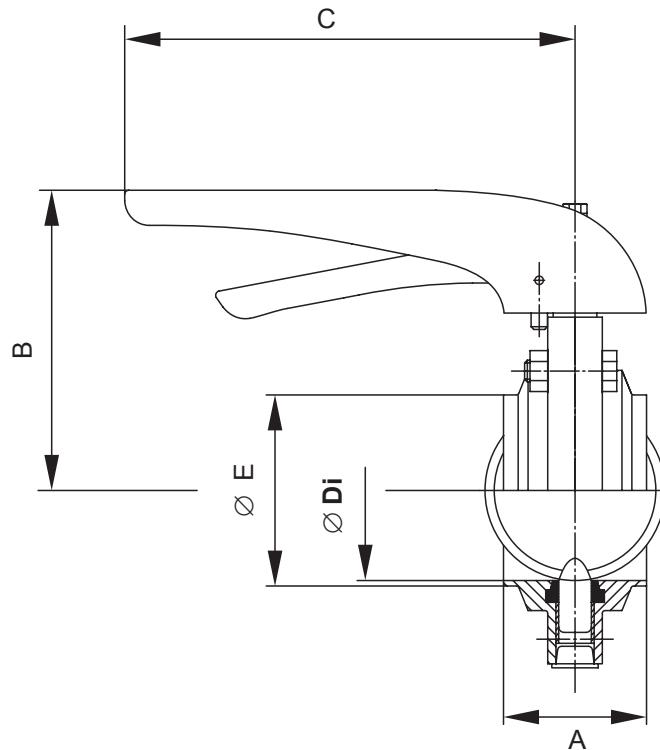
- Any damage resulting from the non-observance of these welding instructions is not subject to our guarantee.

8. Dimensions / Weights



| Dimensions in mm | | | | | | Weight in kg |
|------------------|------|-------|----|------|-------|-----------------|
| DN | A | B | C | D | E | |
| 25 | 52 | 271,5 | 85 | 26 | 29 | 4,0 |
| 40 | 52 | 280 | 85 | 38 | 41 | 4,2 |
| 50 | 52 | 285 | 85 | 50 | 53 | 4,5 |
| 65 | 52,4 | 293,5 | 85 | 66 | 70 | 4,8 |
| 80 | 52,4 | 301 | 85 | 81 | 85 | 5,5 |
| 100 | 52,4 | 311 | 85 | 100 | 104 | 6,1 |
| Inch | | | | | | |
| 1" | 52 | 271,5 | 85 | 22,6 | 25 | 4,0 |
| 1,5" | 52 | 280 | 85 | 34,9 | 38 | 4,2 |
| 2" | 52 | 285 | 85 | 47,6 | 51 | 4,5 |
| 2,5" | 52,4 | 293,5 | 85 | 60,3 | 63,5 | 4,8 |
| 3" | 52,4 | 297 | 85 | 72,9 | 76,1 | 5,5 |
| 4" | 52,4 | 311 | 85 | 97,6 | 101,6 | 6,1 |

8. Dimensions / Weights

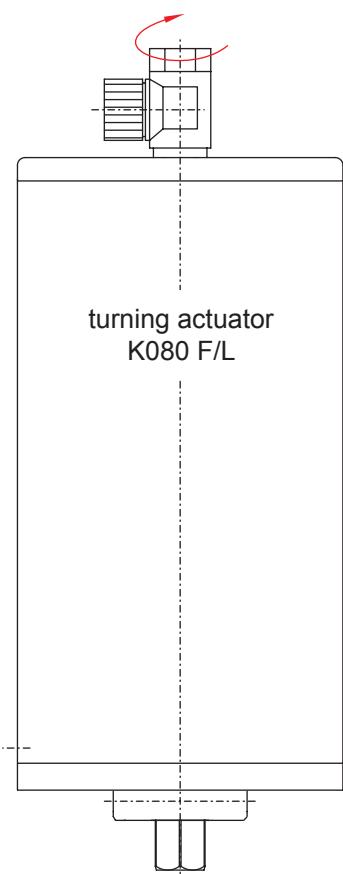
SV1 – with handle

| Dimensions in mm | | | | | | Weight in kg |
|------------------|------|-------|-----|------------------|-----------------|-----------------|
| DN | A | B | C | \varnothing Di | \varnothing E | |
| 25 | 52 | 88 | 165 | 26 | 29 | 1,5 |
| 40 | 52 | 96,5 | 165 | 38 | 41 | 1,6 |
| 50 | 52 | 101,5 | 165 | 50 | 53 | 1,8 |
| 65 | 52,4 | 110 | 165 | 66 | 70 | 2,0 |
| 80 | 52,4 | 117,5 | 165 | 81 | 85 | 2,2 |
| 100 | 52,4 | 127,5 | 165 | 100 | 104 | 2,6 |
| Inch | | | | | | |
| 1" | 52 | 88 | 165 | 22,6 | 25 | 1,5 |
| 1,5" | 52 | 96,5 | 165 | 34,8 | 38 | 1,6 |
| 2" | 52 | 101,5 | 165 | 47,8 | 41 | 1,8 |
| 2,5" | 52,4 | 110 | 165 | 60,3 | 63,5 | 2,0 |
| 3" | 52,4 | 113,5 | 165 | 72,9 | 76,1 | 2,2 |
| 4" | 52,4 | 127,5 | 165 | 97,6 | 101,6 | 2,6 |

9. Technical Data

9.1. General data

elbow union – G1/8“
slewable
Tightening torque 2 Nm



- max. line pressure: 10 bar
- max. operating temperature: 135°C EPDM, HNBR
*FPM, *VMQ
- short-term load: 140°C EPDM, HNBR
*FPM, *VMQ
*(no steam)
- Ambient temperature: 0 - 40 °C
- Air connection (for hose): 6 x 1mm
- max. pneumatic air pressure: 8 bar
- min. pneumatic air pressure: 6 bar

Use dry and clean pneumatic air only.

9.2. Compressed air quality

- Compressed air quality: quality class according to ISO 8573-1
- Content of solid particles: quality class 3,
max. number of particles per m³
10000 of 0,5 µm < d ≤ 1,0 µm
500 of 1,0 µm < d ≤ 5,0 µm
- Content of water: quality class 4,
max. dew point temperature - 20 °C
For installations at lower temperatures
or at higher altitudes, additional
measures must be considered to reduce
the pressure dew point accordingly.
- Content of oil: quality class 1,
max. 0,01 mg/m³

The oil applied must be compatible with Polyurethane elastomer materials.

9. Technical Data

9.3. Opening and closing times

The actuating times depend on the length of the air line between the magnet valve to the air control and the actuator.

For air lines with a length of up to 1 m, the opening time for butterfly valves DN 25/1" to DN 100/4" at 6 bar control air pressure amounts to about 1 second. The closing time, after air shut-off, depends on the nominal dimension and amounts to 2 to 3 seconds.

If the valves are subject to strong friction, e.g. through dry seals, the actuating times extend accordingly.

9.3.1. Opening and closing times - butterfly valves

| | | Opening times in sec. pneumatic pressure 6 bar | Closing times in sec. |
|-----|------|--|-----------------------|
| DN | Inch | hose length 1 m | |
| 25 | 1" | 1 sec. | 1,5 sec. |
| 40 | 1,5" | 1 sec. | 1,5 sec. |
| 50 | 2" | 1 sec. | 1,5 sec. |
| 65 | 2,5" | 1 sec. | 2,5 sec. |
| 80 | 3" | 1 sec. | 3,0 sec. |
| 100 | 4" | 1,2 sec. | 3,5 sec. |

9.4. Tightening torques Md [Nm] - butterfly valves

| DN | Inch | Md (Nm) |
|-----|------|---------|
| 25 | 1" | 10 |
| 40 | 1,5" | 12 |
| 50 | 2" | 16 |
| 65 | 2,5" | 20 |
| 80 | 3" | 22 |
| 100 | 4" | 24 |

9.5. Pneumatic air consumption at 6 bar pneum. air pressure

actuator K080 (F/L) per stroke 1.8 (NL)

9. Technical Data

| 9.6. Kvs-values in m³/h | | |
|---|-------------|------------|
| DN | Inch | |
| 25 | 1" | 40 |
| 40 | 1,5" | 89 |
| 50 | 2" | 160 |
| 65 | 2,5" | 250 |
| 80 | 3" | 440 |
| 100 | 4" | 630 |

10. Materials

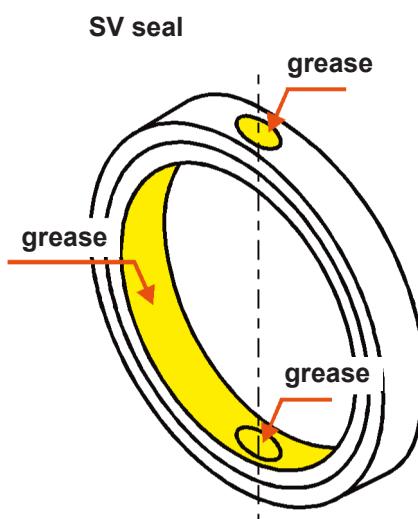
- valve disc **1.4571/1.4404** (DIN EN 10088)
 - housing flange, mating flange
DN 25–100 **1.4301/1.4404** (DIN EN 10088)
 - 1"-4" **1.4404** (DIN EN 10088)
 - SV seal, flange seal
 - standard: EPDM
 - option: HNBR, VMQ, FPM
 - bearing bush polyamide PA 12
 - handle polyamide PA 6.6
 - spring - potential equalization **1.4310**
- Actuator**
- yoke, actuator **1.4301** (DIN EN 10088)
 - coupling **1.4308** (DIN EN 10088)
 - indicator PE – hart
 - piston polyacetal POM
 - spindle bearing polyamide PA 12
 - air connection polyamide PA 6.6

11. Maintenance

The maintenance intervals depend on the corresponding application and are to be determined by the operator himself carrying out temporary checks.



Before start of maintenance and assembly the operator must make sure that an explosive atmosphere does not exist (detection/measurement of potential concentration of hazardous substances). Alternatively, use spark-resistant tools!



- There are a few wear parts on SV1 butterfly valves, principally the SV seal and bearings.

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.
- All seals must be slightly greased before their installation. Grease SV seal according to illustration - especially in the cross bores.
- Assembly of valve and change of valve design NC or NO by installation of the turning actuator according to Service Instructions.
- The inner parts of the actuator are maintenance free.

Attention! Use food-grade special grease being suited for the respective seal material, only.

Recommendation:

APV assembly grease for EPDM, FPM, HNBR and NBR
 (0,75 kg /can) - ref. No. 000 70-01-019/93; H147382
 (60 g /tube) - ref. No. 000 70-01-018/93; H147381
 or

APV assembly grease for VMQ
 (0,6 kg /can) - ref. No. 000 70-01-017/93; H147380
 (60 g /tube) - ref. No. 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.

11. Maintenance

Additionally required maintenance for applications in ATEX environment

SV1 valve - pneumatic and manual actuation:
Replacement of spring for potential equalization if damaged.

SV1 Valve - pneumatic actuation



| Valve maintenance for actuator with spring | Note |
|---|--|
| Functional test, visual inspection of actuator movement (turning angle) and control of abnormal running noise of spring | 1 x per year |
| Change interval of actuator (turning actuator) | In case of damage, incomplete actuator movement (turning angle), considerable running noise of spring as well as after 250,000 cycles* as preventive measure, however, after 10 years at the latest. |

*complies with about 8 years in 1-shift-operation and 10-15 cycles per hour.

12. Service Instructions

12.1. Dismantling from the line system

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



Danger!

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 support of proximity switches. Pull off proximity switch.
4. Release additional separate connection in the pipeline.

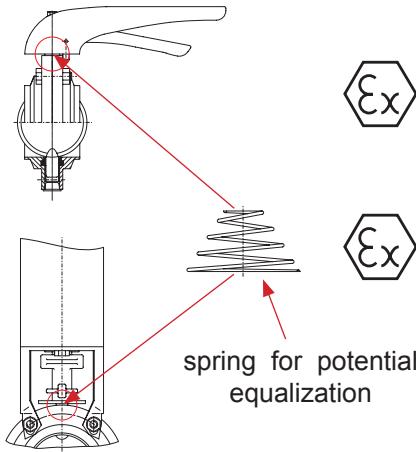
12.2. Dismantling of the actuating device

Corresponding spare parts lists are available.

Manual design RN: ATEX 037-14

Pneumatic design RN: ATEX 037.5-9

- **Manual actuation with limit switch:**
Screw off fastening screw at the handle and lift off handle to the top. Remove spring for potential equalization.
- **Pneumatic turning actuator:**
Remove the fastening screws at the yoke. Lift off actuator with yoke to the top. Lift off coupling, position indicator and spring for potential equalization also to the top.



12.3. Dismantling of the inner parts

Dismantling is only possible via an additional separate connection in the pipeline.

Seal ring, bearing bushes, valve disc

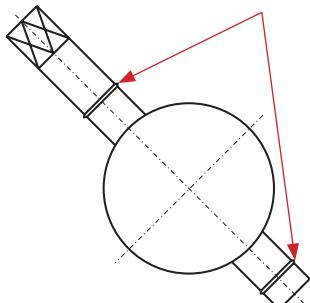
- Remove all fastening screws around the housing halves and part the housing halves.
- Remove the inner parts.

12. Service Instructions

12.4. Replacement of seal

fig. 1

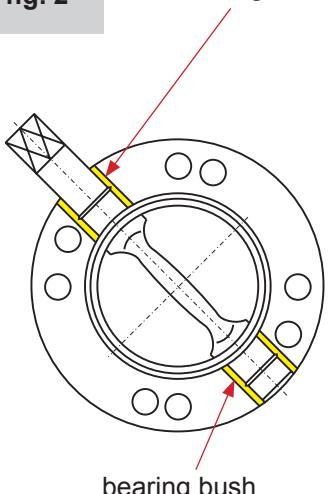
projecting ring
on the disc bolt



1. Turn the disc in the seal ring into open position.
2. Remove bearings.
3. By a slight pressing, the seal ring is deformed in its longitudinal axis, and, thus, can be pulled off via the short bearing spindle.
4. Pull the seal ring off the actuating spindle.
5. Clean the valve disc.
6. Grease the holes of the new seal ring according to chapter 11 and insert the long actuating spindle of the valve disc.
7. Turn the disc in the seal ring into open position.
8. By slight pressure the seal ring is deformed in its longitudinal axis, and, thus, can be pushed on via the short bearing spindle.

fig. 2

bearing bush



12.5. Installation of seals and bearings

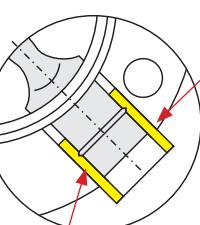
The current design of the valve disc has a projected ring on the disc bolt (fig. 1).

The new valve disc can also be installed in old housings.

1. Place bearings on the spindle of the disc. The bearing bushes must be flush with the housing flange (fig. 2).
2. Insert the disc in open position with seal ring and bearings into one housing half.
3. Assemble the housing halves with the screws alternately crosswise. During the assembly of the housing halves, the projecting ring presses into the plastic surface of the bearing bush and secures the bearing bush against longitudinal movement.

fig. 3

wrong assembly



bearing bush

Attention!

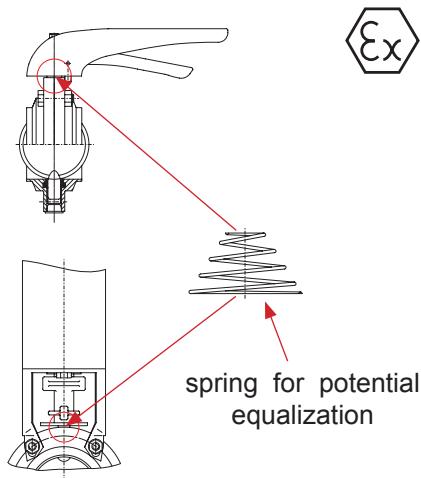
Tightening of the screws, the valve disc must be in **open** position.

Damage of valve disc seal during assembly in **closed** position is possible.

Bearings must not project the housing flange (fig. 3).

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. Place the spring for potential equalization on the square of the actuating spindle.
4. Attach the position indicator to align with the valve disc onto the square of the actuating spindle of the disc.
5. Observe the design of the valve for the installation of the coupling on butterfly valves with feedback
 - **FZ** = normally closed
Valve disc is closed, place coupling .
The upper operating cam must be adjusted to the **upper** yoke bore.
 - **FO** = normally open
Valve disc is open, place coupling .
The lower operating cam must be adjusted to the **lower** yoke bore.
6. Place turning actuator with yoke and fasten them with the screws.

12.7. Installation of proximity switches

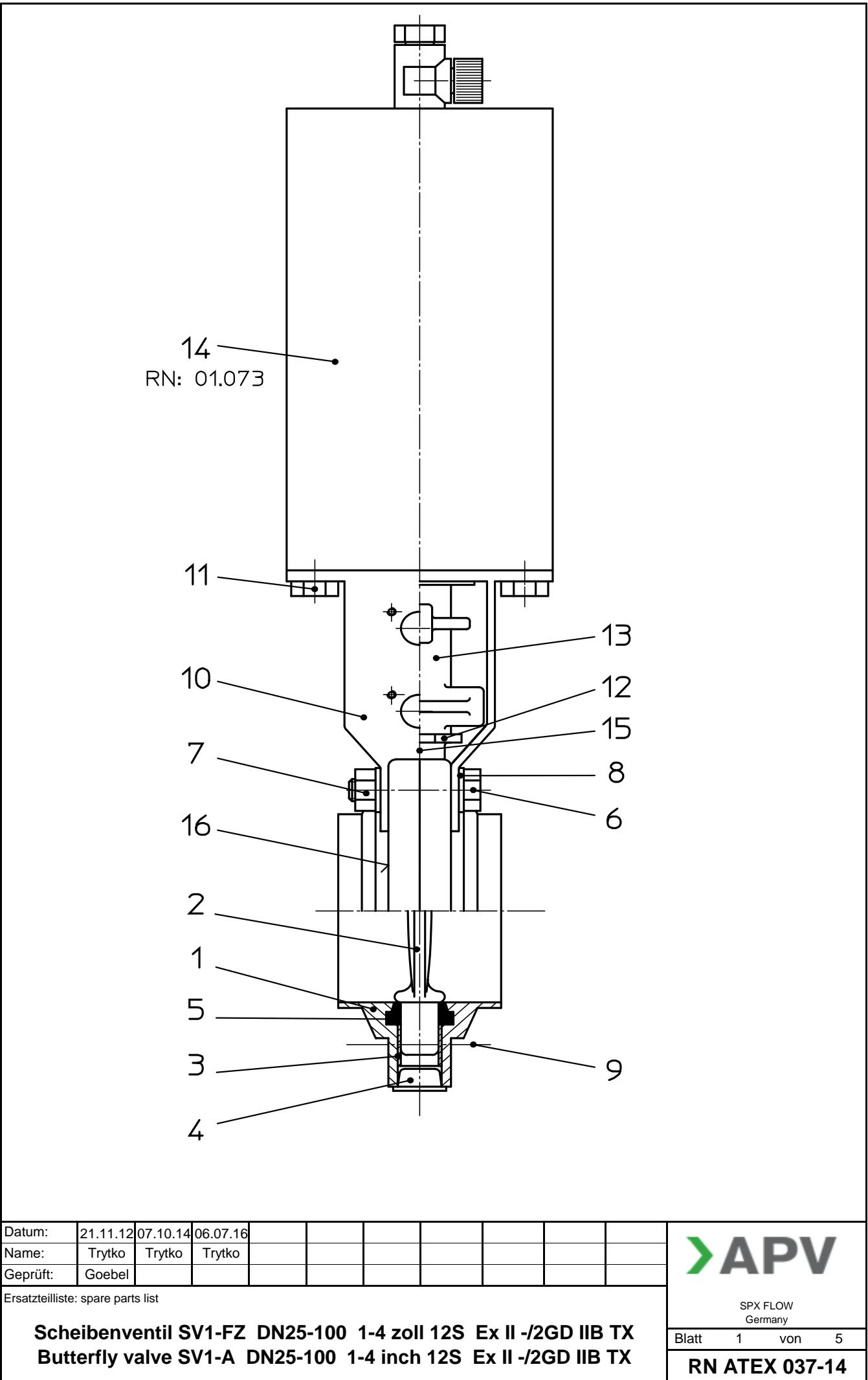
- **Valve position indication OPEN:**
Installation of the feedback unit in the **lower** yoke bore.
- **Valve position indication CLOSED:**
Installation of the feedback unit in the **upper** yoke bore.
- Insert proximity switch support into the yoke bore and fasten it.
Introduce the proximity switch into the support until it stops and fix it by the clamp connection.

13. 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 parts required
- reference number
- designation.



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Ersatzteilliste: spare parts list

Scheibenventil SV1-FZ DN25-100 1-4 zoll 12S Ex II -2GD IIB TX Butterfly valve SV1-A DN25-100 1-4 inch 12S Ex II -2GD IIB TX

RN ATEX 037-14

| | | Beschreibung | | Material | DN25 | 1" | DN40 | 1,5" | DN50 | 2" |
|------|------|--------------------------------|-------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| pos. | item | quantity | description | material | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. |
| | | | | | | | | | | |
| 1 | 2 | Gehäusehälfte Housing half | 1.4404 matt/satin fin. H22883 | 09-93-277/42 H23562 | 09-94-319/42 H22928 | 09-93-377/42 H23588 | 09-94-419/42 H22980 | 09-93-427/42 H23611 | 09-94-469/42 H23611 | 09-94-469/42 H23611 |
| 1 | 2 | Gehäusehälfte Housing half | 1.4301 matt/satin fin. H22879 | 09-93-277/12 H22879 | 09-94-319/12 H22924 | 09-93-377/12 H22976 | 09-94-419/12 H22976 | 09-93-427/12 H22976 | 09-94-469/12 H22976 | 09-94-469/12 H22976 |
| 2 | 1 | Klappe Disc | 1.4404 | 08-55-276/43 H16037 | 08-55-318/43 H114442 | 08-55-376/43 H16047 | 08-55-418/43 H114440 | 08-55-426/43 H16059 | 08-55-468/43 H114977 | 08-55-468/43 H114977 |
| 3 | 2 | Lagerbuchse Bearing | PA12 30%GF | | | | | | | |
| 4 | 1 | Verschlussstopfen Lock plug | Kunststoff | | | | | | | |
| | | | | | | | | | | |
| | 1 | Dichtung SV Seal SV | EPDM FDA-konform H77435 | 58-33-278/93 H77451 | 58-33-325/93 H77459 | 58-33-378/93 H77477 | 58-33-425/93 H77484 | 58-33-428/93 H77484 | 58-33-475/93 H77502 | 58-33-475/93 H77502 |
| 5 | 1 | Dichtung SV Seal SV | FPM FDA-konform H77433 | 58-33-278/73 H77450 | 58-33-325/73 H77457 | 58-33-378/73 H77475 | 58-33-425/73 H77482 | 58-33-428/73 H77482 | 58-33-475/73 H77500 | 58-33-475/73 H77500 |
| 5 | 1 | Dichtung SV Seal SV | Hnbr FDA-konform H168744 | 58-33-278/33 H168263 | 58-33-325/33 H168745 | 58-33-378/33 H168930 | 58-33-425/33 H168826 | 58-33-428/33 H168826 | 58-33-475/33 H168234 | 58-33-475/33 H168234 |
| | 1 | Dichtung SV Seal SV | V/MQ FDA-konform H77432 | 58-33-278/13 H77449 | 58-33-325/13 H77456 | 58-33-378/13 H77474 | 58-33-425/13 H77481 | 58-33-428/13 H77481 | 58-33-475/13 H77499 | 58-33-475/13 H77499 |
| 6 | | Skt. Schraube Hex. Screw | DIN EN 24017-A2-70 | 1.4301 | | | | | | |
| 7 | | Skt. Mutter Hex. Nut | DIN EN 24032-A2 | 1.4301 | | | | | | |
| 8 | 4 | Scheibe Disk | I=8,4 | 1.4301 | | | | | | |
| 9 | | Skt. Schraube Hex. Screw | DIN EN 24017-A2-70 | 1.4301 | | | | | | |
| 10 | 1 | Laterne Yoke | | 1.4301 | | | | | | |
| 11 | 2 | Skt. Schraube Hex. Screw | DIN EN 24017-A2-70 | 1.4301 | 15-40-030/17 H173105 | | | | | |
| 12 | 1 | Zeiger Position indicator | | | | | | | | |



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Blatt 2 von 5

RN ATEX 037-14

Datum: 21.11.12 07.10.14 06.07.16

Name: Trytko Trytko Trytko

Geprüft Goebel

Datum: 21.11.12 07.10.14 06.07.16

Name: Trytko Trytko Trytko

Geprüft

08-01-150/93

H13832

08-01-150/93

H138

Ersatzteilliste: spare parts list



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Scheibenventil SV1-FZ DN25-100 1-4 zoll 12S Ex II -/2GD IIB TX
Butterfly valve SV1-A DN25-100 1-4 inch 12S Ex II -/2GD IIB TX

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Ersatzteilliste: spare parts list

Scheibenventil SV1-FZ DN25-100 1-4 zoll 12S Ex II -2GD IIB TX Butterfly valve SV1-A DN25-100 1-4 inch 12S Ex II -2GD IIB TX

RN ATEX 037-14

| | | Beschreibung | | Material | DN65 | 2,5" | 3" | DN80 | DN100 | 4" |
|------|------|--------------------------------|---------------------------|-------------------------|-------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------|--------------------------------|
| pos. | item | description | Material | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. |
| | | Gehäusehälfte Housing half | 1.4404 matt/satin fin. | 09-93-477/42 H23039 | 09-94-519/42 H23640 | 09-93-552/42 H23123 | 09-93-527/42 H23092 | 09-93-627/42 H23154 | 09-94-669/42 H23684 | 09-94-669/42 H23684 |
| 1 | 2 | Gehäusehälfte Housing half | 1.4301 matt/satin fin. | 09-93-477/12 H23035 | 09-94-519/12 H23035 | 09-93-552/12 H23088 | 09-93-527/12 H23150 | 09-93-627/12 H23150 | 09-94-669/12 H23684 | 09-94-669/12 H23684 |
| 2 | 1 | Klappe Disc | 1.4571 | 08-55-476/43 H16071 | 08-55-518/43 H114978 | 08-55-527/43 H16090 | 08-55-526/43 H16082 | 08-55-626/43 H16102 | 08-55-668/43 H114979 | 08-55-668/43 H114979 |
| 3 | 2 | Lagerbuchse Bearing | PA12 30%GF | | 08-01-150/93 H13832 | | | | 08-01-151/93 H13833 | |
| 4 | 1 | Verschlussstopfen Lock plug | Kunststoff | | 08-74-010/93 H16503 | | | | | |
| | 1 | Dichtung SV Seal SV | EPDM FDA-konform | 58-33-478/93 H77509 | 58-33-525/93 H77532 | 58-33-503/93 H77528 | 58-33-523/93 H77539 | 58-33-628/93 H77579 | 58-33-675/93 H77601 | 58-33-675/93 H77601 |
| 5 | 1 | Dichtung SV Seal SV | FPM FDA-konform | 58-33-478/73 H77507 | 58-33-525/73 H77530 | 58-33-503/73 H77526 | 58-33-523/73 H77537 | 58-33-624/8/73 H77577 | 58-33-675/73 H77599 | 58-33-675/73 H77599 |
| 5 | 1 | Dichtung SV Seal SV | HNBR FDA-konform | 58-33-478/33 H168827 | 58-33-525/33 H169235 | 58-33-503/33 H169236 | 58-33-528/33 H168832 | 58-33-528/33 H166721 | 58-33-675/33 H166722 | 58-33-675/33 H166722 |
| | 1 | Dichtung SV Seal SV | V/MQ FDA-konform | 58-33-478/13 H77506 | 58-33-525/13 H77529 | 58-33-503/13 H77525 | 58-33-528/13 H77536 | 58-33-528/13 H77576 | 58-33-675/13 H77598 | 58-33-675/13 H77598 |
| 6 | | Skt. Schraube Hex. Screw | DIN EN 24017-A2-70 | 1.4301 | | | | 65-01-095/15 2xM8x35 H78791 | | |
| 7 | 7 | Skt. Mutter Hex. Nut | DIN EN 24032-A2 | 1.4301 | | 65-50-060/15 4xM8 H79281 | | | 65-50-060/15 6xM8 H79281 | |
| 8 | 8 | Scheibe Disk | I=8,4 | 1.4301 | | | | 67-01-022/15 H79594 | | 67-01-085/15 4xM8x28 H78778 |
| 9 | 9 | Skt. Schraube Hex. Screw | DIN EN 24017-A2-70 | 1.4301 | | 67-01-085/15 2xM8x28 H78778 | | | 67-01-085/15 4xM8x28 H78778 | |
| 10 | 10 | Laterne Yoke | | 1.4301 | | | | | 15-40-025/17 H173103 | |
| 11 | 11 | Skt. Schraube Hex. Screw | DIN EN 24017-A2-70 | 1.4301 | | | | | 65-01-080/15 M8x12 H78770 | |
| 12 | 12 | Zeiger Position indicator | | | | | | | 08-29-021/93 H14634 | |

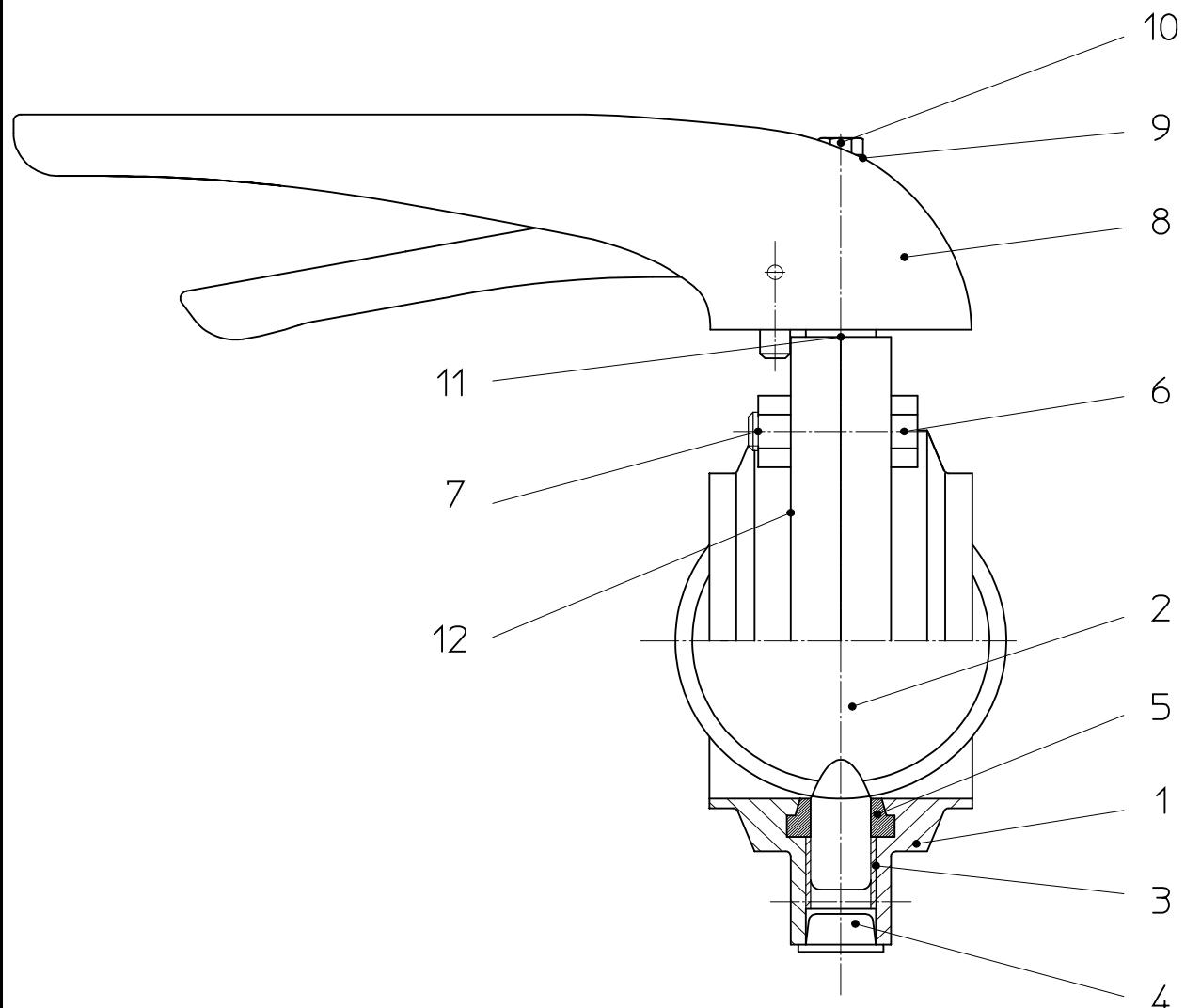


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RN ATEX 037-14

Blatt 4 von 5



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| | | | | | | | | | | |
|----------|----------|----------|--|--|--|--|--|--|--|--|
| Datum: | 20.11.12 | 06.07.16 | | | | | | | | |
| Name: | Trytko | Trytko | | | | | | | | |
| Geprüft: | Goebel | | | | | | | | | |

Ersatzteilliste: spare parts list

Scheibenventil SV1-H DN25-100 1-4 zoll 12S Ex II -/2GD IIB TX
Butterfly valve SV1-handle DN25-100 1-4 inch 12S Ex II -/2GD IIB TX

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Blatt 1 von 5
RN ATEX 037.5-9

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Ersatzteilliste: spare parts list

Scheibenventil SV1-H DN25-100 1-4 zoll 12S Ex II -/2GD IIB TX Butterfly valve SV1-handle DN25-100 1-4 inch 12S Ex II -/2GD IIB TX

RN ATEX 037.5-9

| | | | | Datum: | 20.11.12 | 06.07.16 | | |
|----------|----------|--|-------------------------------------|-------------------------|-------------------------|-------------------------|--------------------------------|-------------------------|
| Name: | Trytko | Name: | Trytko | | | | | |
| Geprüft: | Goebel | Geprüft: | | | | | | |
| | | Datum: | | | | | | |
| | | Name: | | | | | | |
| | | Geprüft: | | | | | | |
| | | | | | | | | RN ATEX 037.5-9 |
| pos. | item | Beschreibung | Material | DN25 | 1" | DN40 | 1,5" | DN50 |
| Menge | quantity | description | material | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. |
| 1 | 2 | Gehäusehälfte Housing half | 1.4404 matt/satin fin. H22883 | 09-93-277/42 H23562 | 09-94-319/42 H22928 | 09-93-377/42 H23588 | 09-94-419/42 H22980 | 09-93-427/42 H23611 |
| 1 | 2 | Gehäusehälfte Housing half | 1.4301 matt/satin fin. H22879 | 09-93-277/12 H22924 | 09-94-319/12 H22976 | 09-93-377/12 H22976 | 09-94-419/12 H22976 | 09-94-469/12 H23611 |
| 2 | 1 | Klappe Disc | 1.4404 | 08-55-276/43 H16037 | 08-55-318/43 H114442 | 08-55-376/43 H16047 | 08-55-418/43 H114440 | 08-55-426/43 H16059 |
| 3 | 2 | Lagerbuchse Bearing | PA12 30%GF | | | | | |
| 4 | 1 | Verschlussstopfen Lock plug | Kunststoff | | | | | |
| | 1 | Dichtung SV Seal SV | EPDM FDA-konform H77435 | 58-33-278/93 H77451 | 58-33-325/93 H77459 | 58-33-378/93 H77477 | 58-33-425/93 H77484 | 58-33-475/93 H77502 |
| 5 | 1 | Dichtung SV Seal SV | FPM FDA-konform H77433 | 58-33-278/73 H77450 | 58-33-325/73 H77457 | 58-33-378/73 H77475 | 58-33-428/73 H77482 | 58-33-475/73 H77500 |
| 5 | 1 | Dichtung SV Seal SV | HNBR FDA-konform H168744 | 58-33-278/33 H168263 | 58-33-325/33 H168745 | 58-33-378/33 H168930 | 58-33-428/33 H168826 | 58-33-475/33 H168234 |
| | 1 | Dichtung SV Seal SV | V/MQ FDA-konform H77432 | 58-33-278/13 H77449 | 58-33-325/13 H77456 | 58-33-378/13 H77474 | 58-33-428/13 H77481 | 58-33-475/13 H77499 |
| 6 | | Skt. Schraube Hex. Screw | DIN EN 24017-A2-70 | 1.4301 | | | 65-01-085/15 4xM8x28 H78778 | |
| 7 | | Skt. Mutter Hex. Nut | DIN EN 24032-A2 | 1.4301 | | | 65-50-060/15 4xM8 H79281 | |
| 8 | 1 | Handbetätigung Handle | | | PA6.6 30%GF schwarz | | 08-41-065/93 H15059 | |
| 9 | 1 | Sicherungsscheibe M5 Safety disk M5 | | 1.4301 | | | 67-01-010/93 H79581 | |
| 10 | 1 | Skt. Schraube Hex. Screw | DIN EN 24014 -M5x28-A2-70 | 1.4301 | | | 65-01-037/15 H78740 | |
| 11 | 1 | Druckfeder -Potentialausgleich Pressure feather equipotential | | 1.4310 | | | 60-06-003/13 H311618 | |
| 12 | 1 | Atex-Typschild 2GD für Scheibenventile Atex-Label 2GD for butterfly valve | Polyesterfolie | | | | 08-29-284/93 H315081 | |

Ersatzteilliste: spare parts list

Scheibenventil SV1-H DN25-100 1-4 zoll 12S Ex II -2GD IIB TX
Butterfly valve SV1-handle DN25-100 1-4 inch 12S Ex II -2GD IIB TX



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RN ATEX 037.5-9

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Ersatzteilliste: spare parts list

Scheibenventil SV1-H DN25-100 1-4 zoll 12S Ex II -2GD IIB TX Butterfly valve SV1-handle DN25-100 1-4 inch 12S Ex II -2GD IIB TX

RN ATEX 037-5-9

| | | | | Datum: | 20.11.12 | 06.07.16 | | |
|------|----|--|------------------------------|-------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------|
| | | Name: | Trytko | Trytko | | | | |
| | | Geprüft: | Goebel | | | | | |
| | | Datum: | | | | | Blatt | 4 von 5 |
| | | Name: | | | | | RN ATEX 037-5-9 | |
| | | Geprüft: | | | | | | |
| pos. | | Beschreibung | Material | DN65 | 2,5" | 3" | DN80 | DN100 |
| item | | description | material | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. |
| 1 | 2 | Gehäusehälfte Housing half | 1.4404 matt/satin fin. | 09-93-477/42 H23039 | 09-94-519/42 H23640 | 09-93-552/42 H23123 | 09-93-527/42 H23092 | 09-93-627/42 H23154 |
| 2 | 2 | Gehäusehälfte Housing half | 1.4301 matt/satin fin. | 09-93-477/12 H23035 | 09-94-519/12 | 09-93-552/12 | 09-93-527/12 H23088 | 09-93-627/12 H23150 |
| 2 | 1 | Klappe Disc | 1.4571 | 08-55-476/43 H16071 | 08-55-518/43 H114978 | 08-55-527/43 H16090 | 08-55-526/43 H16082 | 08-55-626/43 H16102 |
| 3 | 2 | Lagerbuchse Bearing | PA12 30%GF | | 08-01-150/93 H13832 | | | 08-01-151/93 H13833 |
| 4 | 1 | Verschlussstopfen Lock plug | Kunststoff | | 08-74-010/93 H16503 | | | |
| | 1 | Dichtung SV Seal SV | EPDM FDA-konform | 58-33-478/93 H77509 | 58-33-525/93 H77532 | 58-33-503/93 H77528 | 58-33-523/93 H77539 | 58-33-628/93 H77579 |
| | 1 | Dichtung SV Seal SV | FPM FDA-konform | 58-33-478/73 H77507 | 58-33-525/73 H77530 | 58-33-503/73 H77526 | 58-33-523/73 H77537 | 58-33-62478/73 H77577 |
| | 1 | Dichtung SV Seal SV | HNBR FDA-konform | 58-33-478/33 H168827 | 58-33-525/33 H169235 | 58-33-503/33 H169236 | 58-33-528/33 H168832 | 58-33-675/33 H166721 |
| | 1 | Dichtung SV Seal SV | V/MQ FDA-konform | 58-33-478/13 H77506 | 58-33-525/13 H77529 | 58-33-503/13 H77525 | 58-33-528/13 H77536 | 58-33-675/13 H77576 |
| | 6 | Skt. Schraube Hex. Screw | DIN EN 24017-A2-70 | 1.4301 | 65-01-085/15 4xM8x28 H78778 | | 65-01-085/15 6xM8x28 H78778 | |
| | 7 | Skt. Mutter Hex. Nut | DIN EN 24032-A2 | 1.4301 | 65-50-060/15 4xM8 H79281 | | 65-50-060/15 6xM8 H79281 | |
| | 8 | Handbetätigung Handle | | | | | 08-41-065/93 H15059 | |
| | 9 | Sicherungsscheibe M5 Safety disk M5 | | 1.4301 | | | 67-01-010/93 H79581 | |
| | 10 | Skt. Schraube Hex. Screw | DIN EN 24014 -M5x28-A2-70 | 1.4301 | | | 65-01-037/15 H78740 | |
| | 11 | Druckfeder -Potentialausgleich Pressure feather equipotential | | 1.4301 | | | 60-06-003/13 H311618 | |
| | 12 | Atex-Typschild 2GD für Scheibenventile Atex-Label 2GD for butterfly valve | Polyesterfolie | | | | 08-29-284/93 H315081 | |

Ersatzteilliste: spare parts list

Drehantrieb K080, K125, K180 F/L Actuator K080, K125, K180 spring/air

>APV

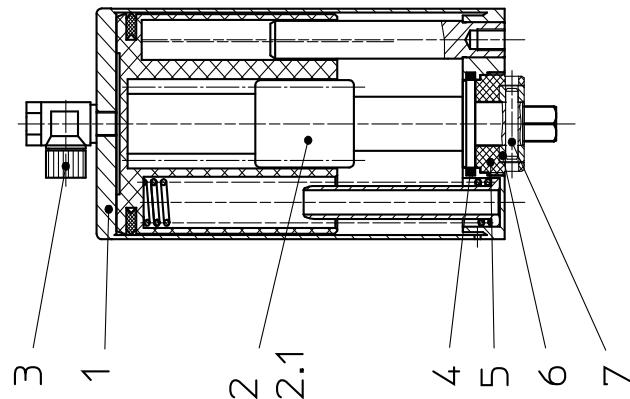
SPX FLOW
Germany

RN 01.073

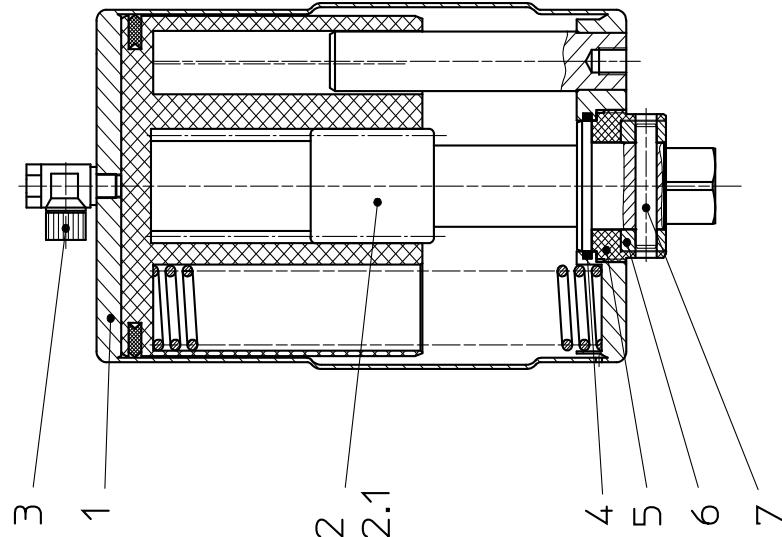
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|----------|----------|----------|
| Datum: | 22.11.12 | 12.03.14 |
| Name: | Trytko | |
| Geprüft: | Goebel | |
| Datum: | | |
| Name: | | |
| Geprüft: | | |

Blatt 1 von 2

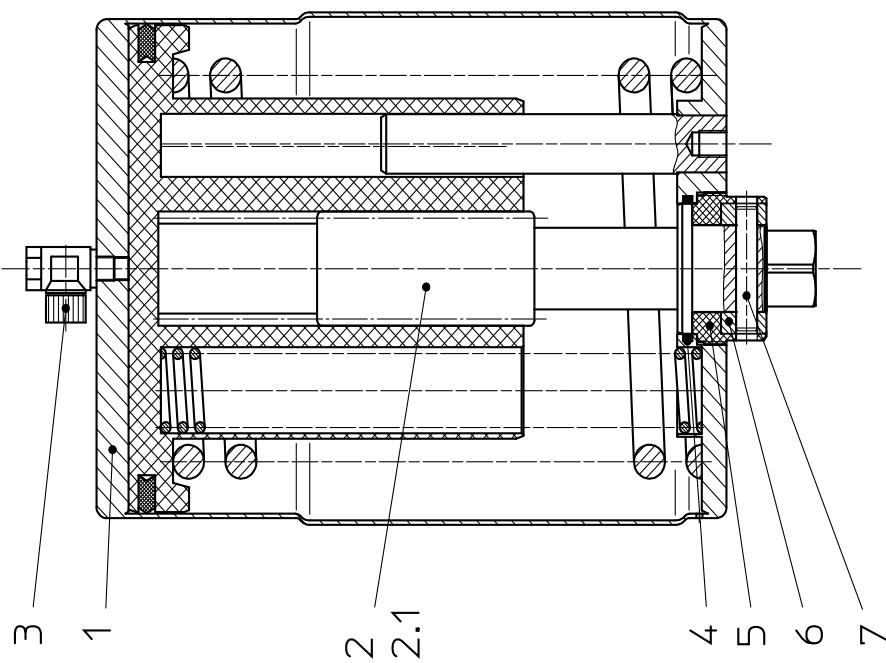
DRAT K080



DRAT K125



DRAT K180



Ersatzteiliste: spare parts list



SPX FLOW
Germany

RN 01-073

| >APV | | | | | | | |
|---------------------|--|--------------------------|-------------------------------|-------------------------------|-----------------------------|--------------------|--------------------|
| SPX FLOW Germany | | | | | | | |
| Datum: | 22.11.12 | 12.03.14 | Name: | Trytko | Trytko | Geprüft: | Goebel |
| Datum: | | | Name: | | | Geprüft: | |
| Blatt | 2 | von | 2 | | | | RN 01.073 |
| Menge/Quantity | | Beschreibung/Description | | Material | | K080 | |
| pos. | item | description | material | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. | WS-Nr. ref.-no. |
| 1 | Drehantrieb komplett Actuator complete | 1.4301 matt-glänzend | 15-31-055/17 H105500 | 15-31-057/17 H105502 | 15-31-923/17 H32589 | | |
| 1 | Drehantrieb komplett Actuator complete | 1.4301 poliert | 15-31-055/13 H135919 | 15-31-057/13 H131940 | 15-31-923/13 H32588 | | |
| 1 | Drehantrieb Schweißteil Actuator welded | 1.4301 | 15-31-054/17 H105499 | 15-31-056/17 H105501 | 15-31-922/17 H32587 | | |
| 2 | Spindel komplett mit Lager Shaft complete with bearing | 1.4301 | 15-24-021/13 H31494 | 15-24-031/13 H31502 | 15-24-033/13 H31504 | | |
| 2,1 | Spindel Shaft | 1.4301 | 15-24-020/13 H31493 | 15-24-030/13 H31501 | 15-24-032/13 H31503 | | |
| 3 | Winkelverschraubung G1/8" schwenkbar Elbow union G1/8" slewable | Polyamid/ Glasf | 08-63-221/93 H16371 | | | | |
| 4 | O-Ring O-ring | NBR | 58-06-130/83 32,2x3 H76965 | | | | |
| 1 | O-Ring O-ring | FPM | | 58-06-222/73 49,5x3 H77000 | | | |
| 5 | Lager für Drehantrieb Bearing for actuator | POM | 15-28-002/34 H31673 | | | | |
| 1 | Lager für Drehantrieb Bearing for actuator | PA12 | | 15-28-009/63 H31684 | | | |
| 6 | Steiring Adjust ring | 1.4301 | 67-08-007/13 H79757 | 67-08-008/13 H79758 | | | |
| 7 | Zyl. Kerbstift Cyl. pin | DIN EN ISO 8740-V2A | 1.4305 | 67-15-035/13 5x26 H79916 | 67-15-036/13 8x45 H79917 | | |



APV DELTA SV1
DN25-100, 1"-4"

BUTTERFLY VALVE
FOR SPECIFIC ATEX-APPLICATIONS

SPX FLOW

Design Center

Gottlieb-Daimler-Straße 13
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SPX FLOW

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SPX FLOW reserves the right to incorporate the latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this manual, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.spxflow.com.

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