

# APV DELTA UF3(A) / UFR3(A)

## RELIEF VALVE

FORM NO.: 170784 REVISION: UK-7

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







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

We,

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(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.

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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**UF3, UFE3, UFR3, UFRE3**

I. spring cylinder, II. spring cylinder with seat lift actuator DN & Inch RN 01.054.53

**UF3, UFE3, UFR3, UFRE3 - 3A design**

I. spring cylinder, II. spring cylinder with seat lift actuator DN & Inch RN 01.054.574



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## 1. General Terms

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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.

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## 2. Safety Instructions

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**Danger!**



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 or risks for persons or material assets.

- Separate electric and pneumatic connections.
- Before any maintenance work the line system must be depressurized and drained if possible.
- Observe the following Service Instructions to ensure safe maintenance of the valve.

**Danger!**



- 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.
- Regular maintenance including the replacement of all seals and bearing bushes must be scheduled in order to prevent leakages and discharge of liquids.
- The valve must only be assembled, operated, disassembled and maintained by persons who have been trained accordingly.  
If necessary, contact your local SPX FLOW representative.

## 2. Safety Instructions

**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.

## 3. Intended Use

The intended use as field of application of the DELTA DELTA UF3 relief valve is to prevent the max. product pressure from being exceeded or to discharge a certain product quantity.

**Attention:**

In the sense of the Pressure Equipment Directive 2014/68/EU, the DELTA UF3/UFR3 relief valve is a "pressure-retaining component" and is not a "component with safety function", i.e. the valve **must not** be used as safety valve.

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.

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**

ATEX (Directive 2014/34/EU)

3-A Sanitary Standards, Inc.

## 4. Mode of Operation

APV DELTA UF3/ UFR3  
relief valve

### 4.1. General terms

The valve has been developed for use in the brewing and beverage, dairy and food industries as well as for chemical and pharmaceutical applications.

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

The APV UF3/UFR3 relief valve is used to prevent a desired product pressure from being exceeded due to process requirements or to discharge a certain product quantity.

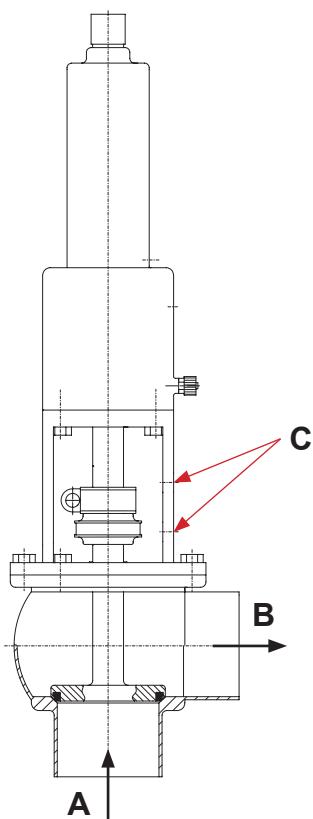
If the preset opening pressure is exceeded, the valve is opened automatically by the imminent line pressure in the supply line (**A**) under the valve seat. The liquid is drained via the discharge line (**B**). If the adjusted set value falls short, the valve is closed by spring force.

The flow direction is always from A → B.

#### Attention:

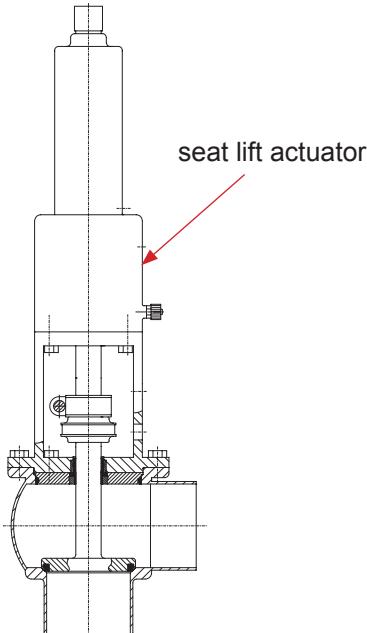
In the sense of the Pressure Equipment Directive 2014/68/EU, the DELTA UF3/UFR3 relief valve is a "pressure-retaining component" and is not a "component with safety function", i.e. the valve **must not** be used as safety valve.

Proximity switches to signal the valve position can be installed in the yoke area (**C**).



## 5. Auxiliary Equipment

fig. 5.1.



### 5.1. Seat lift actuator (fig. 5.1)

The UF3 valve can be equipped with a seat lift cylinder if required for cleaning technical reasons. (see chapter 6.)

### 5.2. Valve position indication

For the valve position indication, proximity switches can be installed in the yoke area.

We recommend to use our APV standard types:

Operating distance: 5mm / Diameter: 11mm.

If the customer decides to use a valve position indication other than APV type, we cannot take over any guarantee for a faultless function.

### 5.3. Valve seat variants (fig. 5.3.)

Valve seat in flat and conical design, for special requirements, are available. Through the use of a valve seat with regulating cone, the flow behaviour at low flow quantities is improved and a "softer" valve closing is achieved.

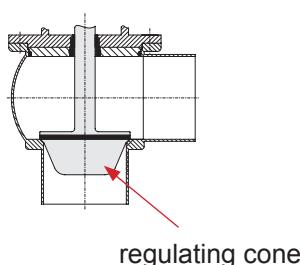
The valve variant is called "UFR3".

### 5.4. Housing configurations (fig. 5.4.)

Different housing shapes can be applied to reduce dead spaces to a minimum.

- \* The spring cylinder is available with scale and hand wheel to allow for a simple adjustment of the response pressure (fig. 5.5.).
- \* As a special version, the pressure relief valves are available in aseptic design (with flat diaphragm or metal bellow).
- Deviations from the standard spare parts lists result. These special drawings and spare parts lists will be supplied separately.
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fig. 5.3.



regulating cone

fig. 5.4.

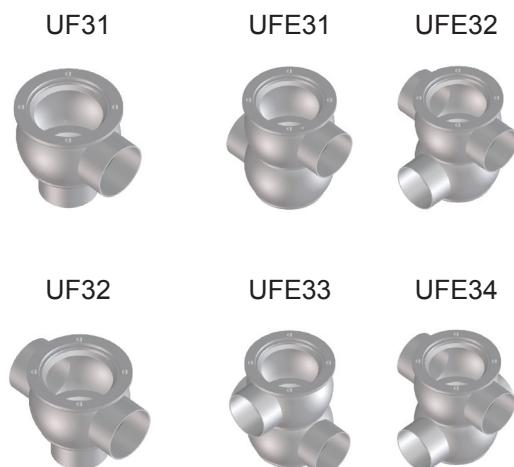
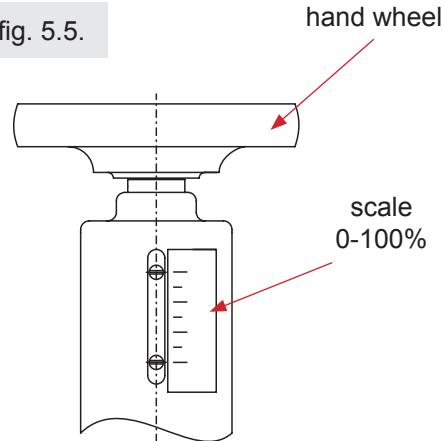
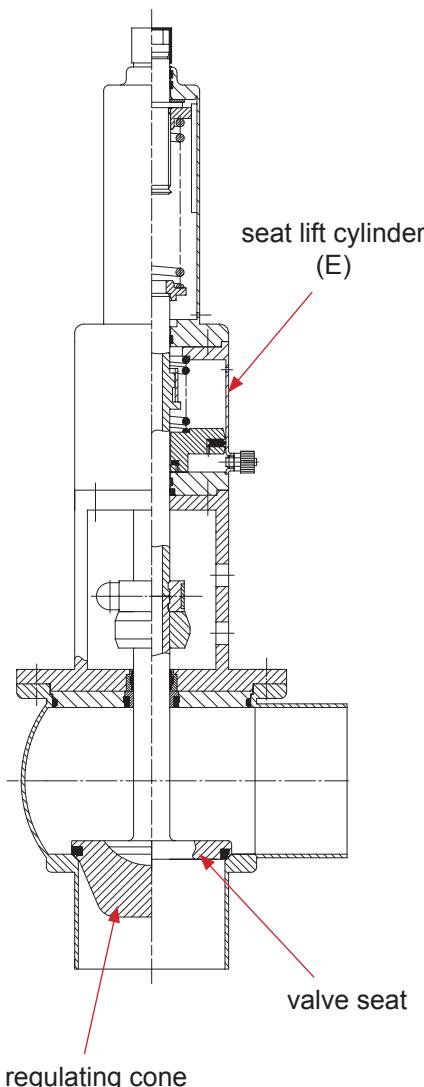


fig. 5.5.



## 6. Cleaning

fig. 6.1.



### 6.1. The flow chambers

The passages of the valve are cleaned by the cleaning liquid during cleaning of the connected pipelines.

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

The compatibility of the individually selected cleaning processes and liquids with the respective seal material must be verified.

## 7. Installation

### 7.1. General terms

Installation has to be done in such a way that liquids can drain off the valve housing. Vertical position is preferred.

Valves can be welded direct into the pipeline (valve insert completely dismantable).

- After the installation, the set value must be adjusted by a pressure gauge.

Adjustment:      turn right      =      pressure increase  
                      turn left      =      pressure reduction

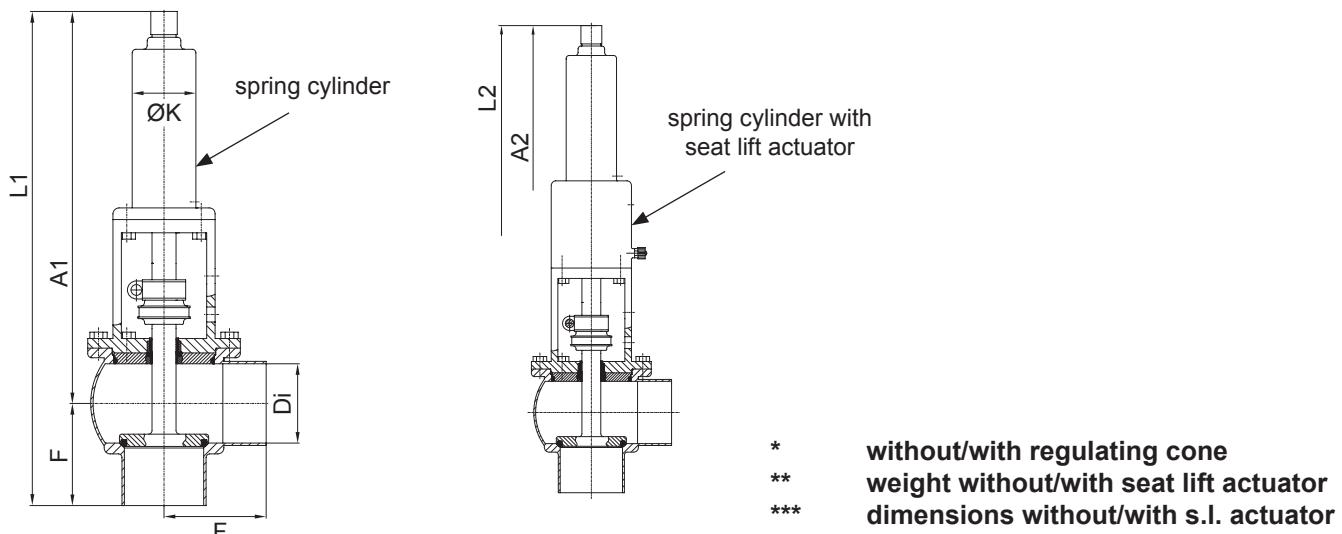
If required, the value can be corrected during production by turning the adjusting screw at the spring cylinder.

**Attention!**      Observe Welding Instructions 7.2.

### 7.2. Welding Instructions

- Before welding of the valve, the valve insert must be dismantled from the housing. Careful handling to avoid damage to the parts is necessary.
- 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 best!
- After welding of the valve housings or 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.
- Any damage resulting from the non-observance of these welding instructions is not subject to our guarantee.

## 8. Dimensions / Weights



		*		***				F	***		Weight in kg	**	
		Pressure range (bar)		A1	A2	Ø Di			L1	L2	Ø K		
		DN	Inch	flat	cone	without	with	DN	Inch	without	with	without	with
25	1"	0-6,8	0-5,4	310	395	26	22,2	50	360	445	53	2,4	4,9
25	1"	0-10,0	0-10,0	353	438	26	22,2	50	403	488	53	2,6	5,1
40	1,5"	0-3,5	0-2,9	316	401	38	34,9	67	383	468	53	3,3	5,8
40	1,5"	0-7,5	0-6,3	359	444	38	34,9	67	426	511	53	3,5	6,0
40	1,5"	0-10,0	0-10,0	389	474	38	34,9	67	456	541	85	5,6	8,1
50	2"	0-2,1	0-1,8	322	407	50	47,6	72	394	479	53	3,8	6,3
50	2"	0-4,5	0-4,0	365	450	50	47,6	72	437	522	53	4,0	6,5
50	2"	0-10,0	0-10,0	395	480	50	47,6	72	467	552	85	6,1	8,6
65	2,5"	0-1,2	0-1,1	330	415	66	60,3	85	415	500	53	5,2	7,7
65	2,5"	0-2,7	0-2,4	373	458	66	60,3	85	458	543	53	5,4	7,9
65	2,5"	0-7,6	0-7,0	403	488	66	60,3	85	488	573	85	7,5	10,0
65	2,5"	0-10,0	0-10,0	451	536	66	60,3	85	536	621	85	8,0	10,5
	3"	0-1,1	0-1,0	333	418		72,9	90	423	508	53	6,6	9,1
	3"	0-2,3	0-2,1	376	461		72,9	90	466	551	53	6,8	9,3
	3"	0-6,5	0-6,0	406	491		72,9	90	496	581	85	8,8	11,3
	3"	0-10,0	0-10,0	454	539		72,9	90	544	629	85	9,3	11,8
80		0-0,9	0-0,8	338	423	81		98	436	521	53	6,7	9,2
80		0-1,8	0-1,7	381	466	81		98	479	564	53	6,9	9,4
80		0-5,2	0-4,8	411	496	81		98	509	594	85	9,0	11,5
80		0-10,0	0-10,0	459	544	81		98	557	642	85	9,5	12,6
100	4"	0-0,6	0-0,5	347	432	100	97,6	111	458	543	53	8,5	11,0
100	4"	0-1,2	0-1,1	390	475	100	97,6	111	501	586	53	8,7	11,2
100	4"	0-3,5	0-3,2	420	505	100	97,6	111	531	616	85	10,8	13,3
100	4"	0-8,3	0-7,7	468	553	100	97,6	111	579	664	85	11,3	13,8

## 9. Technical Data

### 9.1. General data

- Product-wetted parts: 1.4404 (DIN EN 10088)
- Other parts: 1.4301 (DIN EN 10088)
- Seals: standard design EPDM
- option: HNBR, VMQ, FPM
- max. line pressure 10 bar or acc. to drawing data
- max. operating temperature: 135°C EPDM, HNBR \*FPM, \*VMQ
- short-term load: 140°C EPDM,  
HNBR \*FPM, \*VMQ  
(\*no steam)
- air connection (for hose): 6 x 1mm
- control pressure for seat lift actuator: 10 bar max. / 6 bar min.

Depending on the size of the spring cylinder, the response pressure can be adjusted variably or up to max. 10 bar. (or according to drawing data)

- The minimum response pressure can be > 0 bar depending on the valve mounting position and the friction of the shaft seal.

Use dry and clean control 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 m<sup>3</sup>  
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, additional measures must be considered to reduce the pressure dew point accordingly.
- Content of oil: quality class 1,  
max. 0,01 mg/m<sup>3</sup>

The oil applied must be compatible with Polyurethane elastomer materials.

## 10. Maintenance

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

The valve must not be cleaned with products containing abrasive or polishing material. Especially the valve shaft must not, under any circumstances, be cleaned with such agents. Damage of the valve shaft can lead to leakages.

Exchange of seals is done according to Service Instructions. Customer stock keeping of spare seals is recommended. For valve service actions we supply complete seal kits including seal grease (see spare parts lists).

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

Recommendation:

APV assembly grease for EPDM, FPM, HNBR and NBR

(0,75 kg/tin - 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 (Silicone)

(0,6 kg/tin - 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.

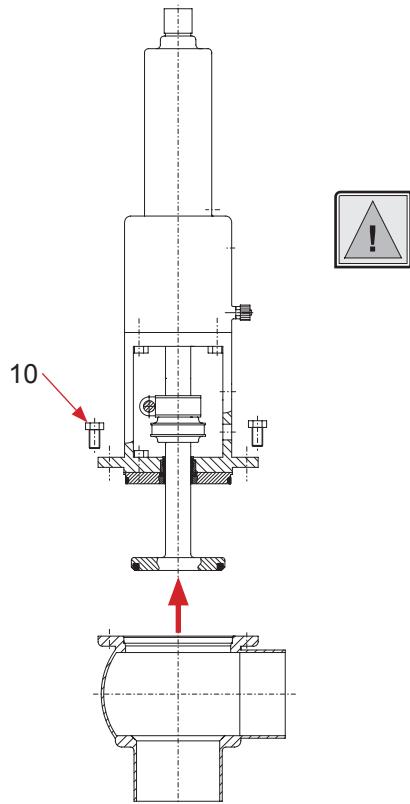
Less suited grease types can influence function and service life.

## 11. Service Instructions

### Corresponding spare parts list:

DN design / Inch design: RN 01.053.53

DN design / Inch design: RN 01.054.574 (3A version)

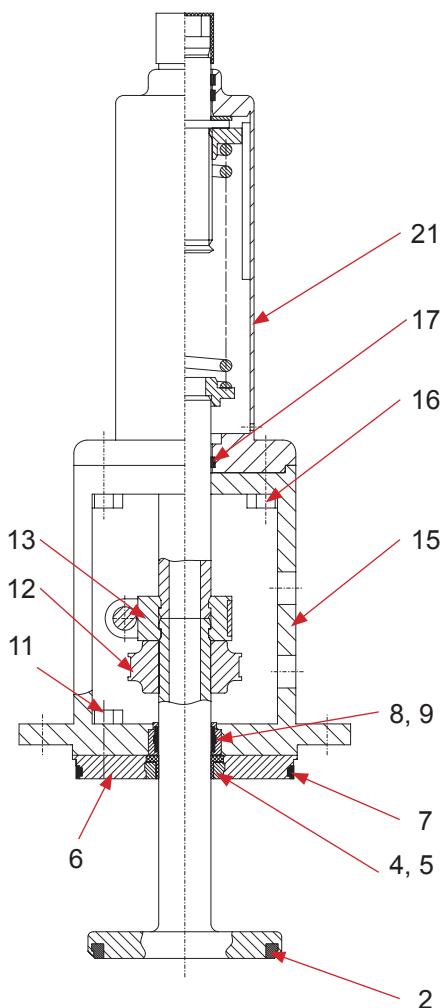


#### 11.1. Dismantling from the line system

1. Shut off line pressure in the product line and drain lines if possible.
2. Remove pneumatic air lines (seat lift actuator).
3. Release clamp screw at the feedback support and extract proximity switches. (If valve is not equipped with feedback, omit 11.1.3).
4. Remove flange screws (10).
5. Screw two flange screws into the threaded bores of the valve yoke, slightly lifting the complete valve insert.
6. Remove the flange screws and carefully lift the valve insert vertically out of the valve housing.

## 11. Service Instructions

UF3 - without seat lift actuator



### 11.2. Dismantling of wear parts (product-wetted parts)

1. Remove housing screws (7) from housing cover (6).
2. Release screw of coupling (13) and dismantle.
3. Take the valve shaft (3) from the housing cover, simultaneously removing the operating cam (12) and the intermediate piece (14) of the UF valve without seat lift actuator.
4. Prick into the seat seal (2) with a peak object and carefully take it out of the groove.
5. Release screw (11). This is to position the housing cover. Remove the housing cover (6) and take out the two seal parts (4, 5).
6. Press the guide ring (8) out of the yoke flange.
7. Take the guide bush (9) out of the guide ring.
8. Remove the screws (16) and separate the complete spring cylinder(21) from the yoke (15).
9. UF3 with seat lift actuator: remove the O-ring (19).  
UF3 without seat lift actuator: remove the guide band (17).

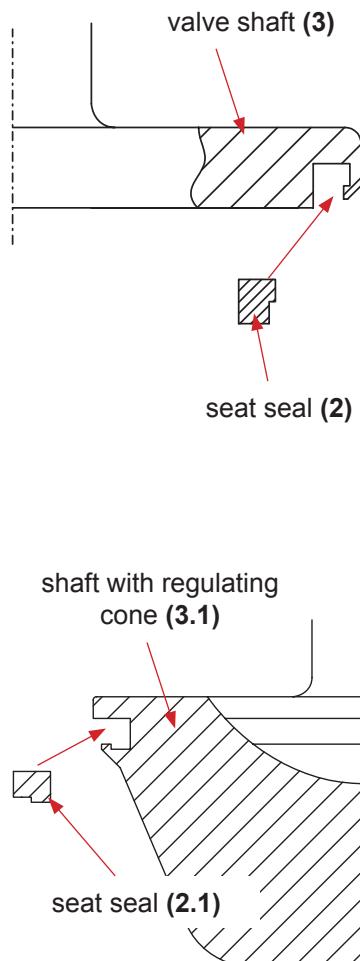
### 11.3. Assembly of spring cylinder

1. UF3 with seat lift actuator: insert the O - ring (19).  
UF3 without seat lift actuator: insert the guide band (17).

## 11. Service Instructions

### 11.4. Installation of seals and assembly of valve

1. Fasten the spring cylinder (21) at the yoke (15) by the screws (16).
2. Insert the guide bush (9) in the guide ring (8) and press the complete unit into the yoke flange.
3. Insert the greased seal parts (4, 5) into the groove of the housing cover.
4. Screw the housing cover (6) to the yoke (15) by the hexagon screws (11).
5. Before installing the valve shaft, insert the seat seal (2).
  - \* UF3 valve without regulating cone - use assembly tool for seat seal (2).
  - \* UF3 valve with regulating cone - install seal as follows:  
Press the slightly greased seal at four spots, the wide side to the front and the graduation to the top, into the groove. Introduce the seal, at the four protruding loops, e.g. by a thin, dull screwdriver into the groove and insert it by strong thumb pressure. Proceed alternately at the four loops to get an even fit of the seal. Finally, flatten the seal by strong pressure, e.g. by the handle of a screwdriver and prick the blade of a small screwdriver between the groove edge and the inner side of the seal down to the groove ground to vent the groove.  
Check the even fit of the seal after the installation.



6. UF3 valve without seat lift actuator - press the intermediate piece (14) from the bottom into the spring cylinder (21).
7. Slide the shaft (3) carefully through the housing cover (6).
8. Attach the operating cam (12) on the valve shaft (3).
9. Push the valve shaft against the intermediate piece and connect both shaft ends with the coupling clamp (13).

**Attention:** The distance tube must be between the two coupling halves when tightening the screws. The coupling screw must not slew into the feedback area.

10. Check the firm fit of the adjusting screw (11).
11. Insert the slightly greased housing seal (7) into the groove of the housing cover (6).

## 11. Service Instructions

### 11.5. Installation of valve

1. Place the complete valve insert carefully into the valve housing (1).
2. Enter the screws (10) and tighten them crosswise.
3. UF3 valve with seat lift actuator: mount the pneumatic air lines.
4. Installation of valve feedback.

basic adjustment: Push the proximity switch into the holder with a 2 mm distance to the operating cam (12)

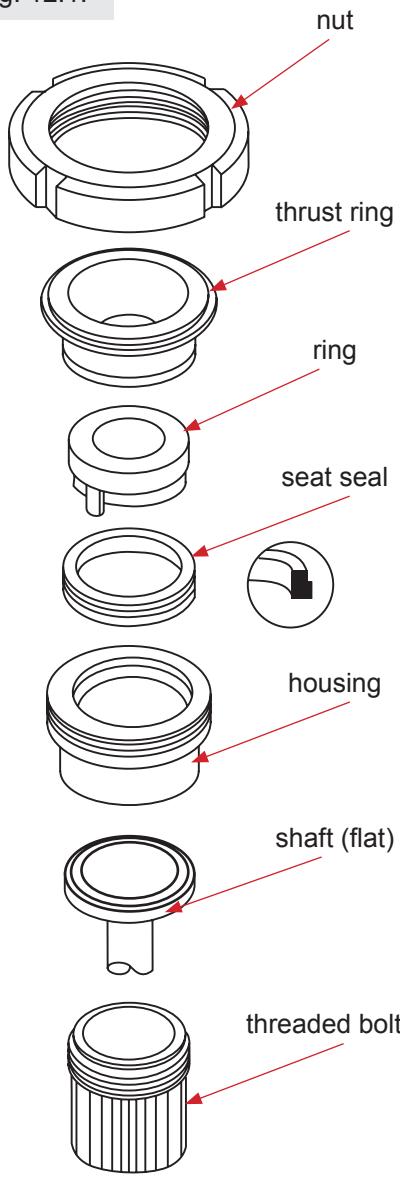
fine adjustment: By slightly displacing the switch, the shift point can be adjusted more precisely if necessary. Observe the luminous diode at the switch during this adjustment.

Fix the switch by the clamp screw.

## 12. Installation of Seat Seal

### 12.1. Installation of seat seal (2) in valve shaft

fig. 12.1.



**The assembly tool (fig. 12.1) consists of:**

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

1. Insert the valve shaft into the housing in such a way that the seal groove is in the housing.
2. Clamp the shaft into the housing by means of the threaded bolt.
3. Slightly grease the seat seal with APV assembly grease. Then install the seal on the ring with the venting nose until it stops.
4. Introduce the ring with the installed seat seal into the housing and press it down until it stops sensibly.
5. Insert the thrust ring into the housing. Screw on the nut and tighten it with a hook spanner until it stops.
6. Release the nut. Take ring and thrust ring off the housing.
7. Take housing out of the vice, take off the threaded bolt. Detach the valve shaft from the housing.

**Check the even fit of the seat seal.**

**Attention:**

The tool is not suited for the installation of seals in valve shafts of UFR valves with regulating cone.

**To simplify the installation of the seat seal, the following assembly tools are available:**

Assembly tool for seat seal			
DN	Inch	Reference number	ID number
25	1"	000 51-13-110/17	H179465
40	1,5"	000 51-13-111/17	H179466
50	2"	000 51-13-112/17	H179467
	2,5"	000 51-13-12017	H179468
65		000 51-13-113/17	H179469
	3"	000 51-13-121/17	H179470
80		000 51-13-114/17	H179471
100	4"	000 51-13-115/17	H179472

## 13. Trouble Shooting

<b>Failure</b>	<b>Remedy</b>
<b><i>Valve closed</i></b>	
Leakage at discharge side	Replace seat seal (2, 2.1). Check line pressure ( <b>max. 10 bar</b> ).
	Check control of seat lift actuator.
Leakage between housing and yoke flange	Check housing seal (7) and shaft seal (4, 5), replace damaged seals.
Leakage at valve shaft	Replace shaft seal (4, 5).
<b><i>Spring cylinder</i></b>	
Correction at spring cylinder is not possible.	Replace complete spring cylinder (21).
<b><i>Seat lift actuator</i></b>	
Seat lift actuator does not work (air escapes permanently from the shaft rod).	Replace o-ring (19).
Seat lift actuator does not work (air escapes permanently from the vent bore).	Replace complete spring cylinder. Do not open cylinder by force. Spring force!
<b><i>Valve position indication</i></b>	
No feedback.	Carry out fine adjustment.

## 14. Spare Parts Lists

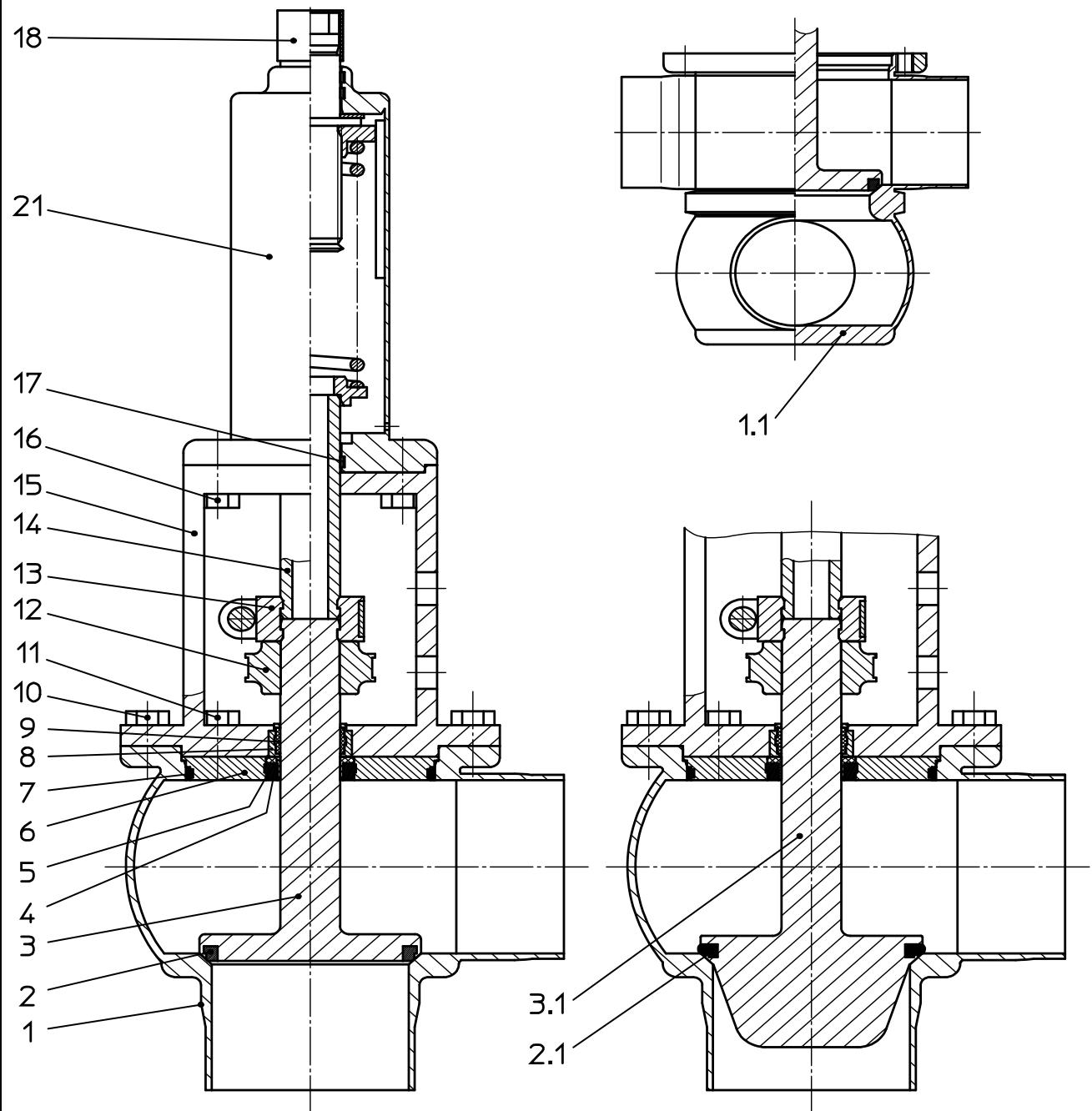
The reference numbers of the spare parts for the different valve designs and sizes are included in the attached spare parts drawings with corresponding lists.

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

- number of required parts
- reference number
- designation

subject to change

Weitergabe sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung  
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 Paragraph 106 UrhG). Eigentum und alle Rechte, auch für Patenterteilung und  
 Gebrauchsmustereintragung, vorbehalten. SPX FLOW, Germany.



Datum:	14.07.14	10.07.17							
Name:	Trytko	Keil							
Geprüft:									

Ersatzteilliste: spare parts list

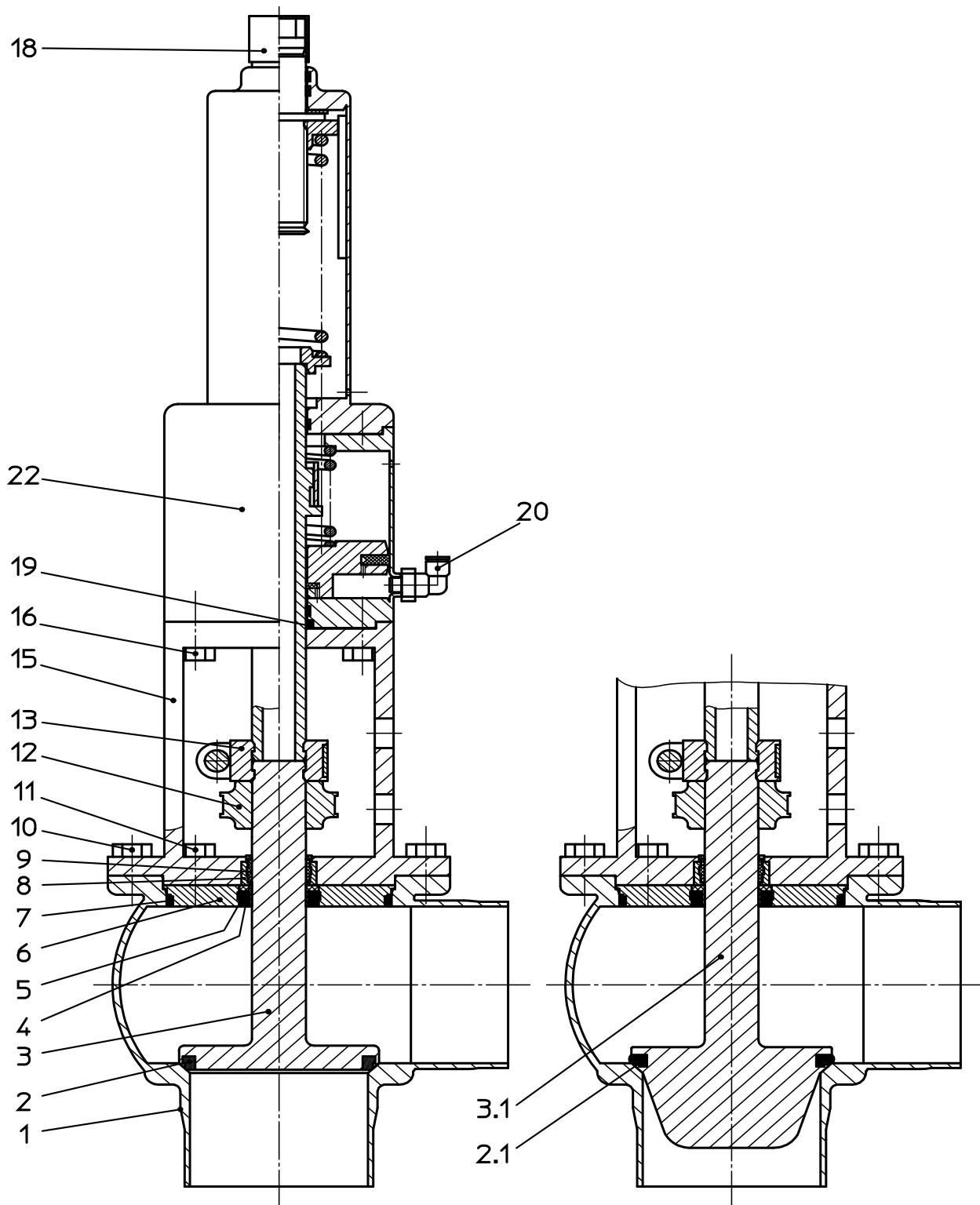
**Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3**  
**Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzyylinder**  
**Designs: I. spring cylinder and II. spring cylinder with seat lift actuator**  
**DN 25-100 ; 1-4 Zoll / inch**

**>APV**

SPX FLOW  
Germany

Blatt 1 von 10

**RN 01.054.53**



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Datum:	14.07.14	10.07.17								
Name:	Trytko	Keil								
Geprüft:										
Ersatzteilliste: spare parts list										
<b>Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3</b> <b>Ausführungen: I. Federzylinder und II. Federzylinder mit Anlängtzylinder</b> <b>Designs: I. spring cylinder and II. spring cylinder with seat lift actuator</b> <b>DN 25-100 ; 1-4 Zoll / inch</b>										

**>APV**

SPX FLOW  
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Blatt 2 von 10

**RN 01.054.53**

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### Ersatzteilliste: spare parts list

## Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3 Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzyylinder Designs: I. spring cylinder and II. spring cylinder with seat lift actuator DN 25-100 ; 1-4 Zoll / inch

		Beschreibung		Material	DN25	1"	DN40	1,5"	DN50	2"
pos.	item	description	Material	WS-Nr. ref.-no.						
1	Gehäuse Housing	UF31 1+2S	1.4404	15-41-276/47 H34161	15-41-324/47 H34176	15-41-376/47 H34180	15-41-424/47 H34196	15-41-426/47 H34200	15-41-474/47 H34221	15-42-426/47 H34230
1	Gehäuse Housing	UF32 1+2+3S	1.4404	15-42-276/47 H34341	15-42-313/47 H34351	15-42-376/47 H34354	15-42-413/47 H34360	15-42-463/47 H34363	15-42-463/47 H34370	15-46-426/47 H34370
1	Gehäuse Housing	UFE31 1+2S	1.4404	15-46-276/47 H34631	15-46-313/47 H34634	15-46-376/47 H34636	15-46-413/47 H34639	15-46-463/47 H34641	15-46-463/47 H34645	15-47-426/47 H34688
1	Gehäuse Housing	UFE32 1+2+3S	1.4404	15-47-276/47 H34680	15-47-313/47 H34682	15-47-376/47 H34684	15-47-413/47 H34686	15-47-463/47 H34690	15-47-463/47 H34690	15-48-376/47 H34716
1.1	Gehäuse Housing	UFE33 1+2+3S	1.4404	15-48-276/47 H34710	15-48-313/47 H34712	15-48-376/47 H34714	15-48-413/47 H34755	15-48-426/47 H34757	15-48-463/47 H34761	15-49-426/47 H34779
1	Tellerdichtung Seat seal		EPDM FDA-konform	58-33-293/93 H77442	58-33-293/73 H77442	58-33-293/73 H77442	58-33-393/93 H77467	58-33-393/93 H77491	58-33-443/93 H77491	58-33-443/93 H77491
1	Tellerdichtung Seat seal		FPM FDA-konform	58-33-293/73 H77441	58-33-293/73 H77441	58-33-293/73 H77466	58-33-393/73 H77466	58-33-443/73 H77490	58-33-443/73 H77490	58-33-443/73 H77490
2	Tellerdichtung Seat seal		HNBR FDA-konform	58-33-293/33 H170176	58-33-293/33 H170176	58-33-293/33 H166676	58-33-393/33 H166676	58-33-443/33 H166085	58-33-443/33 H166085	58-33-443/33 H166085
1	Tellerdichtung Seat seal		VIMQ FDA-konform	58-33-293/13 H77440	58-33-293/13 H77440	58-33-293/13 H77465	58-33-393/13 H77465	58-33-443/13 H77489	58-33-443/13 H77489	58-33-443/13 H77489
1	Tellerdichtung Seat seal		EPDM FDA-konform	58-33-294/93 H77445	58-33-294/93 H77445	58-33-294/93 H77470	58-33-394/93 H77470	58-33-444/93 H77493	58-33-444/93 H77493	58-33-444/93 H77493
2.1	Tellerdichtung Seat seal		FPM FDA-konform	58-33-294/73 H77444	58-33-294/33 H172173	58-33-294/33 H172175	58-33-394/33 H172175	58-33-444/33 H165709	58-33-444/33 H165709	58-33-444/33 H165709
1	Tellerdichtung Seat seal		VIMQ FDA-konform	58-33-294/13 H77443	58-33-294/13 H77443	58-33-394/13 H77468	58-33-444/13 H77468	58-33-444/13 H77492	58-33-444/13 H77492	58-33-444/13 H77492
3	Schaft Shaft	UF3	1.4404	15-22-284/42 H30078	15-22-170/42 H105422	15-22-384/42 H30162	15-22-417/42 H30207	15-22-434/42 H30231	15-22-467/42 H30290	15-22-467/42 H30290
3.1	Schaft mit Regelkegel Shaft with control cone	UFR3	1.4404	15-22-150/42 H29982	15-22-171/42 H105424	15-22-164/42 H29983	15-22-165/42 H140321	15-22-165/42 H29983	15-22-165/42 H29983	15-22-165/42 H29983

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#### Ersatzteilliste: spare parts list

### Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3

#### Ausführungen: I. Federzylinder und II. Federzyylinder mit Anlüftzyylinder

#### Designs: I. spring cylinder and II. spring cylinder with seat lift actuator

#### DN 25-100 ; 1-4 Zoll / inch

				Datum:		14.07.14 10.07.17		>APV	
				Name: Geprüft:		Trytto Keil		SPX FLOW Germany	
				Datum: Name: Geprüft:		Blatt 4 von 10			
								<b>RN 01.054.53</b>	
pos. item Menge	Quantity	Beschreibung description	Material material	DN25 WS-Nr. ref.-no.	1" WS-Nr. ref.-no.	DN40 WS-Nr. ref.-no.	1,5" WS-Nr. ref.-no.	DN50 WS-Nr. ref.-no.	2" WS-Nr. ref.-no.
4	1	Schafftdichtung Shaft seal	Turcon MF6	EPDM FDA-konform					
5	1	Tellerdichtung Seat seal		FPM FDA-konform				58-33-293/93 H77442	
	1	Tellerdichtung Seat seal		HNBR FDA-konform				58-33-293/73 H77441	
	1	Tellerdichtung Seat seal		V/MQ FDA-konform				58-33-293/33 H170176	
	1	Tellerdichtung Seat seal						58-33-293/13 H77440	
6	1	Gehäusedeckel Housing cover	1.4404	15-00-065/42 H156869		15-00-069/42 H156409		15-00-793/42 H148194	
	1	Gehäusedichtung Housing seal		EPDM FDA-konform	58-33-292/93 H77439	58-33-392/93 H77464		58-33-442/93 H77488	
7	1	Gehäusedichtung Housing seal		HNBR FDA-konform	58-33-292/33 H170017	58-33-392/33 H170018		58-33-442/33 H168714	
	1	Gehäusedichtung Housing seal		FPM FDA-konform	58-33-292/73 H77438	58-33-392/73 H77463		58-33-442/73 H77487	
8	1	Führungsbuchse Bushing			1.4301			08-01-18/1/2 H148192	
9	1	Führungsbuchse Bushing		PTFE + 25% Kohle				08-01-178/23 H207154	
10	4	Skt. Schraube Hex. screw	DIN EN 24017-A2-70	1.4301				65-01-081/15 M8x16 H78772	
11	1	Skt. Schraube Hex. screw	DIN EN 24017-A2-70	1.4301	65-01-056/13 M6x16 H78751			65-01-081/15 M8x16 H78772	
12	1	Schaltincke Operating cam		1.4301 / PA12		08-60-082/12 H16295		08-52-135/93 H165885	
13	1	Kupplung Coupling		1.4301				09-87-084/42 H19710	
14	1	Zwischenstück Intermediate piece		1.4404				09-87-085/42 H19711	

## Ersatzteilliste: spare parts list

Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3		Spx Flow Germany		Blatt 5 von
Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzylinder				
Designs: I. spring cylinder and II. spring cylinder with seat lift actuator				
DN 25-100 : 1-4 7/8" / inch				
C-00000000				

Ersatzteiliste: spare parts list		Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3				Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzylinder				>APV SPX FLOW Germany			
		Beschreibung		Datum: Name: Geprüft:		Datum: Name: Geprüft:		Datum: Name: Geprüft:		Blatt 5 von 10		RN 01.054.53	
pos.	Menge quantity	item itemno.	Beschreibung description	Material	DN25	1"	DN40	1,5"	DN50				2"
itemno.	Menge quantity	item itemno.	Beschreibung 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.	
15	1	Laterne Yoke	1.4308		16-40-091/17 H164718			16-40-385/17 H40502		16-40-435/17 H40511			
16	4	Skt. Schraube Hex. screw	1.4301							65-01-079/15 M8x14 H78768			
17	1	Führungsband PTFE guide strap	Turcite							08-39-079/93 H14879			
18	1	Verschlusskappe Cap	PE-weich-gelb							08-60-006/93 H16219			
19	1	O-Ring O-ring	20,2x3	NBR						58-06-078/83 H76943			
20	1	W-Verschraubung Elbow connector	G1/8" 6x1	1.4301/PA						08-60-750/93 H208825			
21	1	Federzylinder Spring cylinder	1.4301	Nr.31 16-30-170/17 H39536	Nr.32 16-30-171/17 H39537	Nr.33 16-30-172/17 H39538	Nr.34 16-30-173/17 H39539						
22	1	Federzylinder mit Anlüftzylinder Spring cylinder with seat lift actuator	1.4301	Nr.31-12 16-30-180/17 H39543	Nr.32-12 16-30-182/17 H39545	Nr.33-12 16-30-184/17 H39547	Nr.34-25 16-30-185/17 H39548						



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### Ersatzteilliste: spare parts list

## Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3 Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzyylinder Designs: I. spring cylinder and II. spring cylinder with seat lift actuator DN 25-100 ; 1-4 Zoll / inch

pos. Menge item				Beschreibung description	Material material	DN65	2,5"	3"	DN80	DN100	DN100 4"
					WS-Nr. ref.-no.						
1	1	Gehäuse Housing	UF31 1+2S	1.4404	15-41-476/47 H34225	15-41-524/47 H34244	15-41-551/47 H34263	15-41-526/47 H34248	15-41-626/47 H34277	15-41-674/47 H34292	
1	1	Gehäuse Housing	UF32 1+2+3S	1.4404	15-42-476/47 H34374	15-42-513/47 H34382	15-42-551/47 H34390	15-42-526/47 H34396	15-42-626/47 H34402	15-42-674/47 H34402	
1	1	Gehäuse Housing	UFE31 1+2S	1.4404	15-46-476/47 H34647	15-46-513/47 H34650	15-46-551/47 H34655	15-46-526/47 H34652	15-46-626/47 H34658	15-46-663/47 H34663	
1	1	Gehäuse Housing	UFE32 1+2+3S	1.4404	15-47-476/47 H34692	15-47-513/47 H34694	15-47-551/47 H34698	15-47-526/47 H34696	15-47-626/47 H34700	15-47-663/47 H34703	
1.1	1	Gehäuse Housing	UFE33 1+2+3S	1.4404	15-48-476/47 H34723	15-48-513/47 H34726	15-48-551/47 H34730	15-48-526/47 H34728	15-48-626/47 H34734	15-48-663/47 H34737	
1	1	Gehäuse Housing	UFE34 1+2+3+4S	1.4404	15-49-476/47 H34764	15-49-513/47 H34766	15-49-551/47 H34770	15-49-526/47 H34768	15-49-626/47 H34773	15-49-663*47 H34775	
1	1	Tellerdichtung Seat seal		EPDM FDA-konform	58-33-493/93 H77515	58-33-568/93 H77561	58-33-568/93 H77546	58-33-543/93 H77586	58-33-643/93 H77586	58-33-643/93 H77586	
1	1	Tellerdichtung Seat seal		FPM FDA-konform	58-33-493/73 H77514	58-33-568/73 H77560	58-33-543/73 H77545	58-33-643/73 H77785	58-33-643/73 H77785	58-33-643/73 H77785	
2	1	Tellerdichtung Seat seal		HNBFR FDA-konform	58-33-493/33 H166678	58-33-568/33 H166679	58-33-543/33 H166681	58-33-643/33 H166682	58-33-643/33 H166682	58-33-643/33 H166682	
1	1	Tellerdichtung Seat seal		VMIQ FDA-konform	58-33-493/13 H77513	58-33-568/13 H77559	58-33-543/13 H77544	58-33-643/13 H77584	58-33-643/13 H77584	58-33-643/13 H77584	
1	1	Tellerdichtung Seat seal		EPDM FDA-konform	58-33-494/93 H77518	58-33-569/93 H77564	58-33-544/93 H77549	58-33-644/93 H77589	58-33-644/93 H77589	58-33-644/93 H77589	
2.1	1	Tellerdichtung Seat seal		FPM FDA-konform	58-33-494/73 H77517	58-33-569/73 H77563	58-33-544/73 H77548	58-33-644/73 H77588	58-33-644/73 H77588	58-33-644/73 H77588	
1	1	Tellerdichtung Seat seal		HNBFR FDA-konform	58-33-494/33 H172178	58-33-569/33 H176688	58-33-544/33 H172180	58-33-644/33 H172183	58-33-644/33 H172183	58-33-644/33 H172183	
3	1	Schaft Shaft	UF3	VMIQ FDA-konform	58-33-494/13 H77516	58-33-569/13 H77562	58-33-544/13 H77547	58-33-644/13 H77587	58-33-644/13 H77587	58-33-644/13 H77587	
3.1	1	Schaft mit Regelkegel Shaft with control cone	UFR3	1.4404	15-22-484/42 H30314	15-22-517/42 H30363	15-22-534/42 H30439	15-22-634/42 H30485	15-22-667/42 H30532	15-22-667/42 H30532	
3.1	1	Schaft mit Regelkegel Shaft with control cone		1.4404	15-22-153/42 H29986	15-22-154/42 H29995	15-22-156/42 H29990	15-22-156/42 H29991	15-22-218/42 H144652	15-22-218/42 H144652	

Ersatzteilliste: spare parts list

Überströmventil / Relief valve UEF3 UEF3-UEB3-UEF3

**Ausführungen:** I. Federzylinder und II. Federzylinder mit Anlüftzylinder  
**Designs:** I. spring cylinder and II. spring cylinder with seat lift actuator

DN 25-100 : 1-4 Zoll / inch

Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3				Datum: 14.07.14	10.07.17		>APV	
Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzyliner				Name: Trytko	Keil		SPX FLOW Germany	
Designs: I. spring cylinder and II. spring cylinder with seat lift actuator				Name:			Blatt 8 von 10	
DN 25-100 ; 1-4 Zoll / inch				Name:			RN 01.054.53	
Pos.	Quantity	Beschreibung	Material	Material	DN65	2,5"	DN80	DN100
item	quantity	description	material	WS-Nr. ref.-no.	WS-Nr. ref.-no.	3"	WS-Nr. ref.-no.	WS-Nr. ref.-no.
4	1	Schaftdichtung Shaft seal	Turcon MF6				3A0 58-33-151/24	4"
5	1	Teillerdichtung Seat seal	EPDM FDA-konform				H323082	
1	1	Teillerdichtung Seat seal	FPM FDA-konform				H77442	58-33-293/93
1	1	Teillerdichtung Seat seal	HNBR FDA-konform				H77441	58-33-293/73
1	1	Teillerdichtung Seat seal	VMQ FDA-konform				H170176	58-33-293/33
6	1	Gehäusedeckel Housing cover	1.4404		15-00-794/42 H151968	15-00-799/42 H159895	15-00-797/42 H156593	15-00-798/42 H159888
1	1	Gehäusedichtung Housing seal	EPDM FDA-konform	58-33-492/93 H77512	58-33-567/93 H77558	58-33-542/93 H77543	58-33-642/93 H77583	
7	1	Gehäusedichtung Housing seal	HNBR FDA-konform	58-33-492/33 H168759	58-33-567/33 H170013	58-33-542/33 H170075	58-33-642/33 H170074	
1	1	Gehäusedichtung Housing seal	FPM FDA-konform	58-33-492/73 H77511	58-33-567/73 H77557	58-33-542/73 H77542	58-33-642/73 H77582	
8	1	Führungsbuchse Bushing	1.4301				H156220	08-01-179/12
9	1	Führungsbuchse Bushing	PTFE + 25% Kohle				H207154	08-01-178/23
10	4	Skt. Schraube Hex. screw	DIN EN 24017-A2-70	1.4301	65-01-081/15 M8x16 H78772			65-01-130/15 M10x16 H78806
11	1	Skt. Schraube Hex. screw	DIN EN 24017-A2-70	1.4301				08-52-135/93 H165885
12	1	Schaltnocke Operating cam		1.4301 / PA12				08-52-110/13 H15938
13	1	Kupplung Coupling		1.4301				09-87-085/42 H19711
14	1	Zwischenstück Intermediate piece		1.4404				

## Ersetzteiliste: spare parts list

Überströmventil / Relief valve UEF3 UEF3-UEB3-UEF3

**Ausführungen:** I. Federzylinder und II. Federzylinder mit Anlüftzylinder  
**Designs:** I. spring cylinder and II. spring cylinder with seat lift actuator

**DN 25-100 : 1-4 Zoll / inch**

Ersatzteiliste: spare parts list

Überströmventil / Belief valve IEEE3 IIEB3 IEEE3

**Ausführungen:** I. Federzylinder und II. Federzylinder mit Anlüftzylinder  
**Designs:** I. spring cylinder and II. spring cylinder with seat lift actuator

**DN 25-100 : 1-4 Zoll / inch**

pos.	Beschreibung description	Material material	DN65 WS-Nr. ref.-no.	2,5" WS-Nr. ref.-no.	3" WS-Nr. ref.-no.	DN80 WS-Nr. ref.-no.	DN100 WS-Nr. ref.-no.	4" WS-Nr. ref.-no.
<b>Dichtungssatz / seal kit UF3, UFE3</b>								
Pos. 2, 4, 5, 7, 9 nur im kompletten Dichtungssatz erhältlich / Item 2, 4, 5, 7, 9 available as complete seal kits only								
	Dichtungssatz Seal kit	FPM	58-34-441/00 H179245		58-34-443/00 H179261	58-34-442/00 H179251		58-34-44/00 H179257
	Dichtungssatz Seal kit	EPDM		58-34-441/01 H179247	58-34-443/01 H179262	58-34-442/01 H179253		58-34-44/01 H179258
	Dichtungssatz Seal kit	VMQ		58-34-441/02 H179249	58-34-443/02 H179263	58-34-442/02 H179254		58-34-44/02 H179259
	Dichtungssatz Seal kit	HNBR		58-34-441/06 H179250	58-34-443/06 H179264	58-34-442/06 H179255		58-34-44/06 H179260

**richtungssatz / seal kit UEBR3 UEBR3 (mit Belegkegel / with control cone)**

Item 2.1, 4.5, 7.9 only as complete seal kits only  
Item 2.1, 4.5, 7.9 available as complete seal kits only

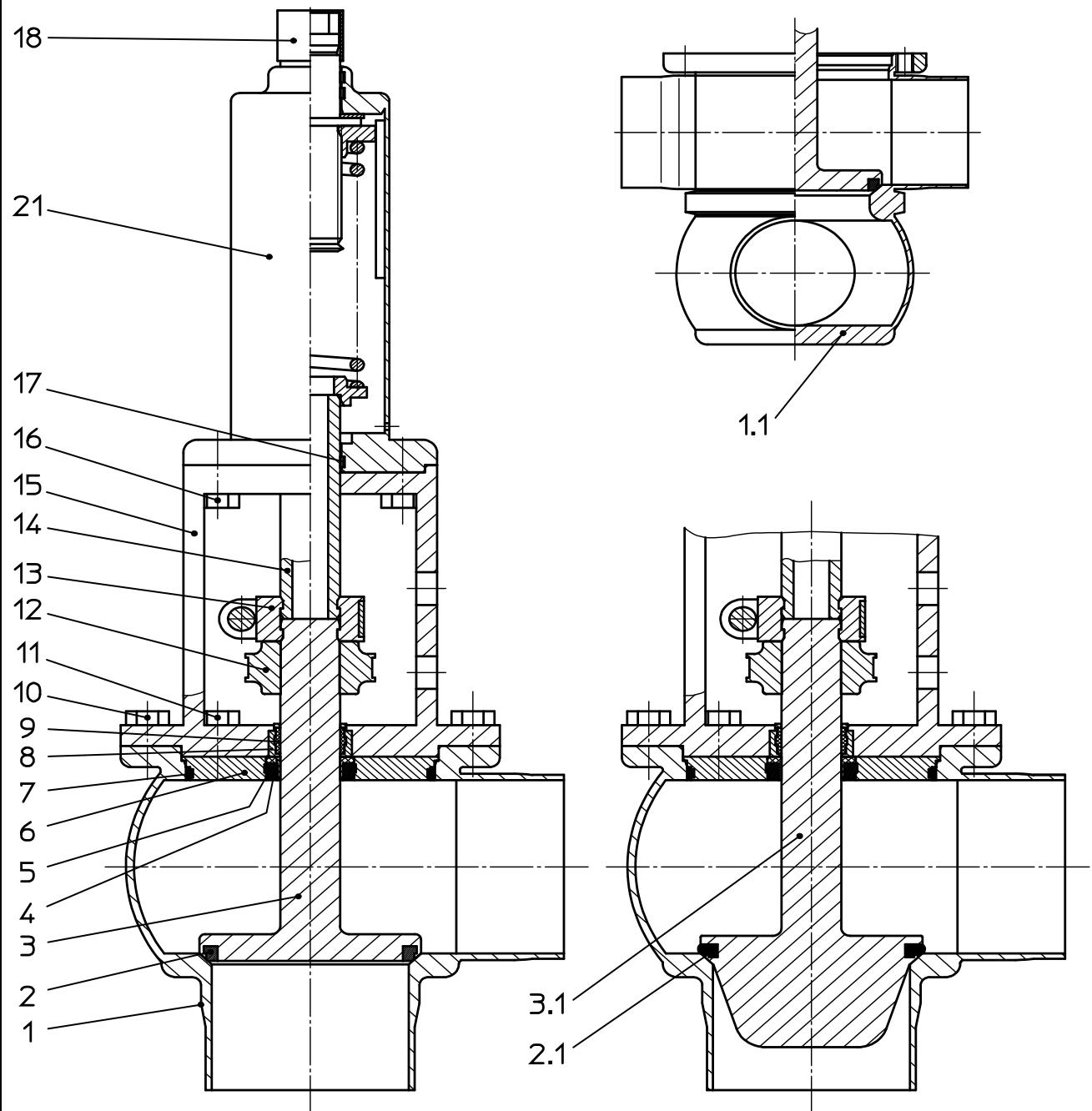
ichtungssatz eal kit	FPM	58-34-453/00 H179277	58-34-455/00 H179290	58-34-454/00 H179281	58-34-456/00 H179285
ichtungssatz eal kit	EPDM	58-34-453/01 H179278	58-34-455/01 H179291	58-34-454/01 H179282	58-34-456/01 H179286
ichtungssatz eal kit	VMQ	58-34-453/02 H179279	58-34-455/02 H179292	58-34-454/02 H179283	58-34-456/02 H179287
ichtungssatz eal kit	HNBR	58-34-453/06 H179280	58-34-455/06 H179297	58-34-454/06 H179284	58-34-456/06 H179289

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SPX FLOW  
Germany

RN 01-054-53

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Datum:	18.0714								
Name:	Trytko								
Geprüft:									

Ersatzteilliste: spare parts list

Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3

Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzylinder

Designs: I. spring cylinder and II. spring cylinder with seat lift actuator

1-4 Zoll / inch

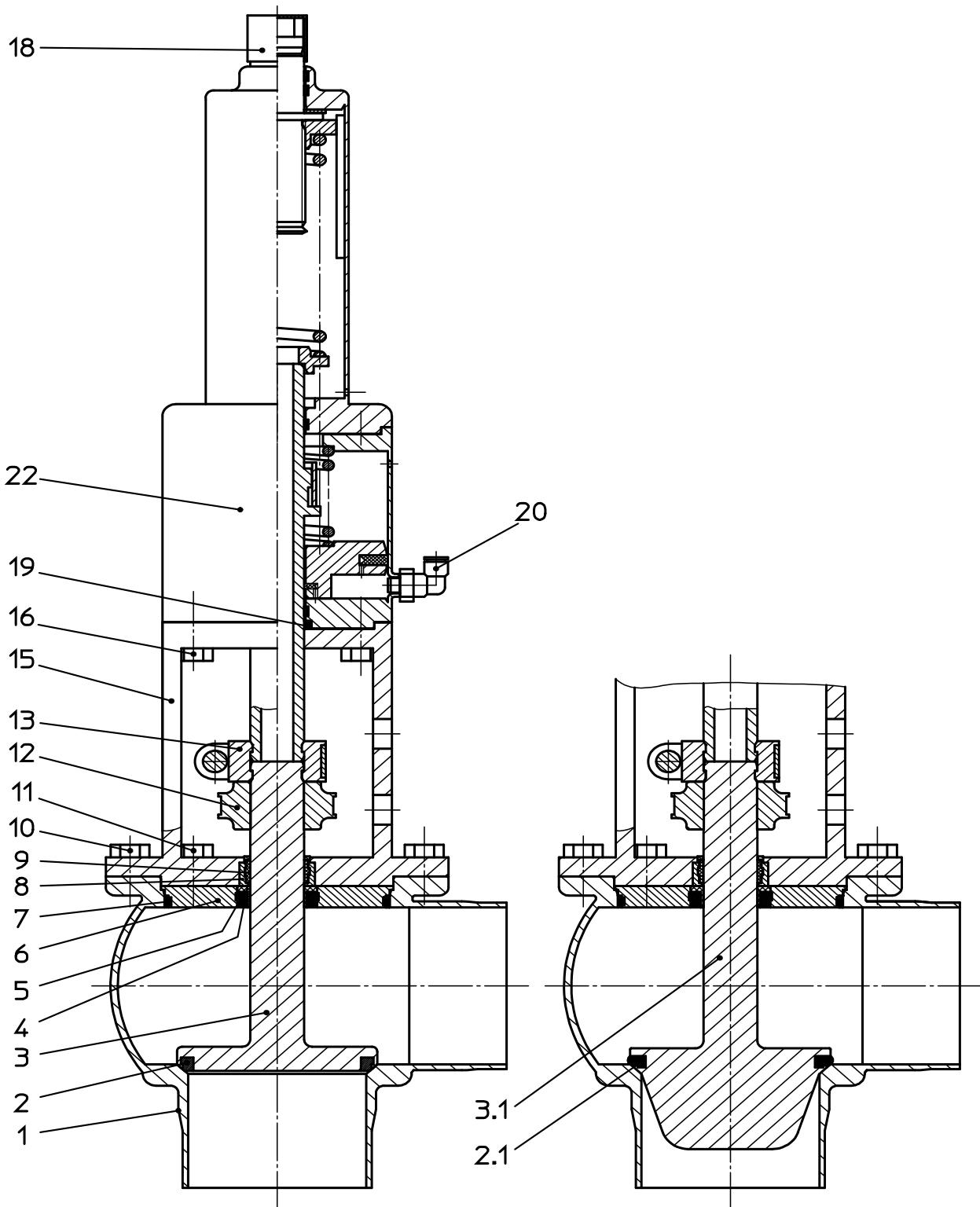


SPX FLOW  
Germany

Blatt 1 von 7

RN 01.054.574

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Datum:	18.0714								
Name:	Trytko								
Geprüft:									
Ersatzteilliste: spare parts list									
<b>Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3</b>									
<b>Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzylinder</b>									
<b>Designs: I. spring cylinder and II. spring cylinder with seat lift actuator</b>									
1-4 Zoll / inch									



SPX FLOW  
Germany

Blatt 2 von 7

RN 01.054.574

**Ersatzteilliste: spare parts list**

**Überströmventil / Relief valve UFE3, UFE3, UFR3, UFR3  
Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzylinder  
Designs: I. spring cylinder and II. spring cylinder with seat lift actuator  
1-4 Zoll / inch**

				Datum: 18.07.14				>APV	
				Name: Trytko				SPX FLOW Germany	
				Geprüft:				Blatt 3 von 7	
<b>RN 01.054.574</b>									
pos.	quantity	Beschreibung	Material	1"	1,5"	2"	2,5"	3"	4"
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.
1	Gehäuse Housing	UF31 1+2S blank geschliffen / bright ground	1.4404	3A0 15-41-324/43 H207629	3A0 15-41-424/43 H207465	3A0 15-41-474/43 H206981	3A0 15-41-524/43 H207451	3A0 15-41-551/43 H207124	3A0 15-41-674/43 H312067
1	Gehäuse Housing	UF31 1+2S matt-glänzend / satin finish	1.4404	3A0 15-41-324/47 H324735	3A0 15-41-424/47 H207628	3A0 15-41-474/47 H326982	3A0 15-41-524/47 H320314	3A0 15-41-551/47 H320211	3A0 15-41-674/47 H320603
1	Gehäuse Housing	UF32 1+2+3S blank geschliffen / bright ground	1.4404	3A0 15-42-313/43 H207628	3A0 15-42-413/43 H207628	3A0 15-42-463/43 H320314	3A0 15-42-513/43 H207462	3A0 15-42-551/43 H207462	3A0 15-42-674/43 H207462
1	Gehäuse Housing	UF32 1+2+3S matt-glänzend / satin finish	1.4404	3A0 15-42-313/47 H207628	3A0 15-42-413/47 H207628	3A0 15-42-463/47 H320314	3A0 15-42-513/47 H207462	3A0 15-42-551/47 H207462	3A0 15-42-674/47 H207462
1	Gehäuse Housing	UFE31 1+2S blank geschliffen / bright ground	1.4404	3A0 15-46-313/43 H207628	3A0 15-46-413/43 H207628	3A0 15-46-463/43 H320314	3A0 15-46-513/43 H207462	3A0 15-46-551/43 H207462	3A0 15-46-663/43 H207462
1	Gehäuse Housing	UFE31 1+2S matt-glänzend / satin finish	1.4404	3A0 15-46-313/47 H207628	3A0 15-46-413/47 H207628	3A0 15-46-463/47 H320314	3A0 15-46-513/47 H207462	3A0 15-46-551/47 H207462	3A0 15-46-663/47 H207462
1	Gehäuse Housing	UFE32 1+2+3S blank geschliffen / bright ground	1.4404	3A0 15-47-313/43 H207628	3A0 15-47-413/43 H207628	3A0 15-47-463/43 H320314	3A0 15-47-513/43 H207462	3A0 15-47-551/43 H207462	3A0 15-47-663/43 H207462
1	Gehäuse Housing	UFE32 1+2+3S matt-glänzend / satin finish	1.4404	3A0 15-47-313/47 H207628	3A0 15-47-413/47 H207628	3A0 15-47-463/47 H320314	3A0 15-47-513/47 H207462	3A0 15-47-551/47 H207462	3A0 15-47-663/47 H207462
1.1	Gehäuse Housing	UFE33 1+2+3S blank geschliffen / bright ground	1.4404	3A0 15-48-313/43 H207628	3A0 15-48-413/43 H207628	3A0 15-48-463/43 H320314	3A0 15-48-513/43 H207462	3A0 15-48-551/43 H207462	3A0 15-48-663/43 H207462
1	Gehäuse Housing	UFE33 1+2+3S matt-glänzend / satin finish	1.4404	3A0 15-48-313/47 H207628	3A0 15-48-413/47 H207628	3A0 15-48-463/47 H320314	3A0 15-48-513/47 H207462	3A0 15-48-551/47 H207462	3A0 15-48-663/47 H207462
1	Gehäuse Housing	UFE34 1+2+3+4S blank geschliffen / bright ground	1.4404	3A0 15-49-313/43 H207628	3A0 15-49-413/43 H207628	3A0 15-49-463/43 H320651	3A0 15-49-513/43 H207462	3A0 15-49-551/43 H207462	3A0 15-49-663/43 H207462
1	Gehäuse Housing	UFE34 1+2+3+4S matt-glänzend / satin finish	1.4404	3A0 15-49-313/47 H207628	3A0 15-49-413/47 H207628	3A0 15-49-463/47 H77467	3A0 15-49-513/47 H77467	3A0 15-49-551/47 H77467	3A0 15-49-663/47 H77467
1	Tellerdichtung Seat seal	EPDM FDA-konform	58-33-293/93 H77442	58-33-393/93 H77467	58-33-443/93 H77491	58-33-493/93 H77515	58-33-568/93 H77561	58-33-643/93 H77586	
2	Tellerdichtung Seat seal	FPM FDA-konform	58-33-293/73 H77441	58-33-393/73 H77466	58-33-443/73 H77490	58-33-493/73 H77514	58-33-568/73 H77560	58-33-643/73 H77785	
1	Tellerdichtung Seat seal	Hnbr FDA-konform	58-33-293/33 H170176	58-33-393/33 H166676	58-33-443/33 H166035	58-33-493/33 H166678	58-33-568/33 H166679	58-33-643/33 H166682	
1	Tellerdichtung Seat seal	V/MQ FDA-konform	58-33-293/13 H77440	58-33-393/13 H77465	58-33-443/13 H77489	58-33-493/13 H77513	58-33-568/13 H77559	58-33-643/13 H77584	

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## Ersatzteilliste: spare parts list

Überströmventil / Beließ valve UEE3. UEE3. UEE3

Ausführungen: I Eddarzylinder und II Edderzylinder mit Anlüftzylinder

11 17oz / inch

Beschreibung description		Material material	1"	1,5"	2"	2,5"	3"	4"	
itemno. Menge quantity		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.	
itemno. Name: Geprüft:		58-33-294/93 FDA-konform	H77445	58-33-394/93 H77470	H77494	58-33-444/93 H77516	58-33-569/13 H77561	58-33-644/13 H77587	
itemno. Name: Geprüft:		58-33-294/73 FDA-konform	H77444	58-33-394/73 H77469	H77493	58-33-444/73 H165709	58-33-569/33 H77517	58-33-644/33 H172183	
itemno. Name: Geprüft:		58-33-294/33 FDA-konform	H172173	58-33-394/33 H172175	H165709	58-33-444/33 H77518	58-33-569/73 H77563	58-33-644/73 H77588	
itemno. Name: Geprüft:		58-33-294/13 FDA-konform	H77443	58-33-394/13 H77468	H77492	58-33-444/13 H30290	58-33-569/93 H30363	58-33-644/93 H30532	
itemno. Name: Geprüft:		1.4404 UFR3	15-22-170/42 H105422	15-22-171/42 H30207	15-22-467/42 H140321	15-22-165/42 H29993	15-22-154/42 H29995	15-22-218/42 H144652	
itemno. Name: Geprüft:		Turcon MF6		3A0 58-33-151/24 H323082		58-33-293/93 H77442		58-33-293/73 H77441	
itemno. Name: Geprüft:		EPDM FDA-konform	58-33-293/93 H77442		58-33-293/73 H77441		58-33-293/33 H170176		
itemno. Name: Geprüft:		FPM FDA-konform	58-33-293/13 H77440		58-33-293/13 H77440		58-33-293/13 H77440		
itemno. Name: Geprüft:		HNBR FDA-konform	58-33-293/13 H77440		58-33-293/13 H77440		58-33-293/13 H77440		
itemno. Name: Geprüft:		VMQ FDA-konform	58-33-293/13 H77440		58-33-293/13 H77440		58-33-293/13 H77440		
itemno. Name: Geprüft:		1.4404 H156869	15-00-069/42 H156409	15-00-793/42 H148194	15-00-794/42 H151968	15-00-799/42 H158985	15-00-798/42 H159888	15-00-798/42 H159888	
itemno. Name: Geprüft:		EPDM FDA-konform	58-33-292/93 H77439	58-33-392/93 H77464	58-33-442/93 H77488	58-33-492/93 H77512	58-33-567/93 H77558	58-33-642/93 H77583	
itemno. Name: Geprüft:		HNBR FDA-konform	58-33-292/33 H170017	58-33-392/33 H170018	58-33-442/33 H168714	58-33-492/33 H168759	58-33-567/33 H170013	58-33-642/33 H170074	
itemno. Name: Geprüft:		FPM FDA-konform	58-33-292/73 H77438	58-33-392/73 H77463	58-33-442/73 H77487	58-33-492/73 H77511	58-33-567/73 H77557	58-33-642/73 H77582	
itemno. Name: Geprüft:		1.4301 Führungsbuchse Bushing	08-01-181/12 H148192		08-01-179/12 H156220		08-01-179/12 H156220		

#### Ersatzteilliste: spare parts list

### Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3 Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzylinder Designs: I. spring cylinder and II. spring cylinder with seat lift actuator 1-4 Zoll / inch

				Datum:	18.07.14					>APV	
		Name:	Trytko <th>Geprüft:</th> <td></td> <th></th> <th></th> <th></th> <th></th> <th data-cs="2" data-kind="parent">SFX FLOW Germany</th> <th data-kind="ghost"></th>	Geprüft:						SFX FLOW Germany	
		Datum:		Name:		Blatt	5	von	7		
		<b>RN 01.054.574</b>									
pos.	item	Beschreibung description	Material material	1"	1,5"	2"	2,5"	3"	4"		
Menge quantity	item	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.	WS-Nr. ref.-no.		
9	1	Führungsbuchse Bushing	Ketronpeak 1000								
10	4	Skt. Schraube Hex. screw	DIN EN 24017-A2-70	1.4301							
11	1	Skt. Schraube Hex. screw	DIN EN 24017-A2-70	1.4301	65-01-056/13 M6x16 H78751						
12	1	Schaltnocke Operating cam		1.4301 / PA12	08-60-082/12 H16295						
13	1	Kupplung Coupling		1.4301							
14	1	Zwischenstück Intermediate piece		1.4404	09-87-084/42 H19710						
15	1	Laterne Yoke	Ausf. 3A-blank geschl. design 3A-bright ground fin.	1.4308	3A0 16-40-091/13 H207630	3A0 16-40-465/17 H206275	3A0 16-40-515/13 H206277	3A0 16-40-565/17 H206278	3A0 16-40-096/13 H328054		
16	4	Skt. Schraube Hex. screw	DIN EN 24017-A2-70	1.4301	16-40-091/17 H164718	16-40-385/17 H40502	16-40-435/17 H40511	16-40-560/17 H40529	16-40-096/17 H40547		
17	1	Führungsband PTFE guide strap									
18	1	Verschlußkappe Cap			PE-weich-gelb						
19	1	O-Ring O-ring	20,2x3		NBR						
20	1	W-Verschraubung Elbow connector	G1/8" 1/4" OD	1.4301/PA							
21	1	Federzylinder Spring cylinder	Ausf. 3A-blank geschl. design 3A-bright ground finish	1.4301	Nr.31 3A0 16-30-170/13 H207529	Nr.32 3A0 16-30-171/13 H207639	Nr.33 3A0 16-30-172/13 H314296	Nr.34 3A0 16-30-173/13 H310629			
										je nach Druckbereich entsprechenden Federzylinder einsetzen use spring cylinder depending on required pressure range	

**Ersatzteilliste: spare parts list**

**Überströmventil / Relief valve UF3, UFE3, UFR3, UFRE3**

**Ausführungen: I. Federzylinder und II. Federzylinder mit Anlüftzylinder  
Designs: I. spring cylinder and II. spring cylinder with seat lift actuator**

**1-4 Zoll / inch**

				Datum:		18.07.14				>APV	
				Name:		Trytko				SPX FLOW	
		Geprüft:								Germany	
		Datum:								Blatt	
		Name:						6		von	
		Geprüft:						7			
										<b>RN 01.054.574</b>	
pos.	item	Beschreibung	Material	1"	1,5"	2"	2,5"	3"	4"		
		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.		
21	1	Federzylinder Spring cylinder	Ausführung matt-gl. design satin finish	1.4301	Nr.31 16-30-170/17 H39536	Nr.32 16-30-171/17 H39537	Nr.33 16-30-172/17 H39538	Nr.34 16-30-173/17 H39539			
22	1	Federzylinder mit Anlüftzylinder Spring cylinder with seat lift actuator	Ausf. 3A-blank geschl. design 3A-bright ground finish	1.4301	3A0 16-30-180/13 Nr.31-12 3A0 16-30-181/13 Nr.31-25	3A0 16-30-182/13 Nr.32-12 H207772 3A0 16-30-183/13 Nr.32-25 H319112	3A0 16-30-184/13 Nr.33-12 H207469 3A0 16-30-185/13 Nr.33-25 H206978	3A0 16-30-186/13 Nr.34-25 H207122			
22	1	Federzylinder mit Anlüftzylinder Spring cylinder with seat lift actuator	Ausführung matt-gl. design satin finish	1.4301	Nr.31-12 16-30-180/17 H39543 Nr.31-25 16-30-181/17 H39544	Nr.32-12 16-30-182/17 H39545 Nr.32-25 16-30-183/17 H39546	Nr.33-12 16-30-184/17 H39547 Nr.33-25 16-30-185/17 H39548	Nr.34-25 16-30-186/17 H39549			

Ersatzteilliste: spare parts list

## Überströmventil / Relief valve IEEE3 IEEE3 IEEE3 IEEE3

**Ausführungen: I. Federzylinder und II. Federzylinder mit Anlängtzylinder**

1-4 Zoll / inch

pos.	item quantity	Beschreibung description	Material material	1" WS-Nr. ref.-no.	1,5" WS-Nr. ref.-no.	2" WS-Nr. ref.-no.	2,5" WS-Nr. ref.-no.	3" WS-Nr. ref.-no.	4" WS-Nr. ref.-no.
<b>Dichtungssatz / seal kit UF3, UFE3</b>									
Pos. 2, 4, 5, 7, 9 nur im kompletten Dichtungssatz erhältlich / Item 2, 4, 5, 7, 9 available as complete seal kits only									
		Dichtungssatz Seal kit	FPM	3A0 58-34-438/00	3A0 58-34-439/00	3A0 58-34-440/00	3A0 58-34-441/00	3A0 58-34-443/00	3A0 58-34-444/00
		Dichtungssatz Seal kit	EPDM	3A0 58-34-438/01 H322816	3A0 58-34-439/01 H322817	3A0 58-34-440/01 H322818	3A0 58-34-441/01 H322819	3A0 58-34-443/01 H322820	3A0 58-34-444/01 H322821
		Dichtungssatz Seal kit	VMQ	3A0 58-34-438/02	3A0 58-34-439/02	3A0 58-34-440/02	3A0 58-34-441/02	3A0 58-34-443/02	3A0 58-34-444/02
		Dichtungssatz Seal kit	HNBR	3A0 58-34-438/06	3A0 58-34-439/06	3A0 58-34-440/06	3A0 58-34-441/06	3A0 58-34-443/06	3A0 58-34-444/06

Dichtungssatz / seal kit UFR3: UFER3 (mit Regelkegel / with control cone)

Pos. 2, 1, 4, 5, 7, 9 nur im kompletten Dichtungssatz erhältlich / Item 2, 1, 4, 5, 7, 9 available as complete seal kits only

Dichtungssatz Seal kit	FPM	3A0 58-34-450/00	3A0 58-34-451/00	3A0 58-34-452/00	3A0 58-34-453/00	3A0 58-34-455/00	3A0 58-34-456/00
Dichtungssatz Seal kit	EPDM	3A0 58-34-450/01 H322822	3A0 58-34-451/01 H322823	3A0 58-34-452/01 H322824	3A0 58-34-453/01 H322825	3A0 58-34-455/01 H322826	3A0 58-34-456/01 H322827
Dichtungssatz Seal kit	VMQ	3A0 58-34-450/02	3A0 58-34-451/02	3A0 58-34-452/02	3A0 58-34-453/02	3A0 58-34-455/02	3A0 58-34-456/02
Dichtungssatz Seal kit	HNBR	3A0 58-34-450/06	3A0 58-34-451/06	3A0 58-34-452/06	3A0 58-34-453/06	3A0 58-34-455/06	3A0 58-34-456/06

# APV DELTA UF3(A) / UFR3(A)

RELIEF VALVE

**SPX FLOW**

## SPX FLOW

### Design Center

Gottlieb-Daimler-Straße 13  
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SPX FLOW reserves the right to incorporate the latest design and material changes without notice or obligation.

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