

## BAA S370 EAF Select

### SVP Overflow valve

(right angle, double right angle, cross and sampling variant)

**DN 25 – 100, DN 1" – 4"**

Profile seal - O-ring  
Pneum. operated



Amendment	Date	Name	Amendment	Date	Name	Amendment	Date	Name	Amendment	Date	Name

created on/by 12.10.2009 Graf  
reviewed on/by 12.10.2009 Neumeyer



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## 2. Safety instructions



Danger

***This symbol denotes an imminent danger to life and health of persons!  
Non-observance of these instructions leads to health risks or life-threatening injuries.***



Caution

***This symbol denotes a potentially imminent danger!  
Non-observance of these instructions can lead to light injuries or damage to material property***



**This symbol gives important information on the proper handling of the SVP overflow valve, which must be observed strictly.  
Non-observance of these instructions can result in malfunction of the valve or of the ambient equipment.**

### 2.1. General information

- ⇒ The SVP overflow valves by Südmo Components GmbH have been manufactured in accordance with state-of-the-art standards and the recognized safety rules. However, these SVP overflow valves may constitute a hazard if used by operating personal improperly or for a purpose other than the intended one. This may result in a risk to life and limb of the user or of third parties, or cause damage to the SVP overflow valve and other material property.
- ⇒ Anyone who has been designated by the purchaser to install, start up, operate and maintain these SVP overflow valves must have read and understood the complete operating instructions (especially all stipulated safety instructions).
- ⇒ In addition to these operating instructions the following applies as a matter of course:
  - relevant accident prevention regulations
  - generally recognized safety rules
  - national regulations in the country of use
  - company-internal instructions concerning work and safety

### 2.2. Maintenance and service work

- ⇒ Any maintenance and service work on the SVP overflow valves must be carried out by specially trained, qualified personnel only.
 

Qualified personnel in the sense of these operating instructions are persons who are familiar with installation, start-up and operation of this product and who have the necessary qualification for their work, for example

  - Training or instruction on how to care and use the appropriate safety equipment in accordance with the current safety standards
  - First aid training
  - For systems with explosion protection, training or instruction respectively the authorization to carry out work on systems subject to explosion hazards (observe ATEX regulations).
- ⇒ Prior to carrying out any maintenance and service work, the following must be ensured and observed:
  - Empty the pipeline
  - Carry out this work only in depressurized condition and when the media supply is shut off
  - Get information on possible risks which could be caused by residues of operating material and take the appropriate measures, if necessary (safety gloves, safety goggles etc.)
  - Let the fittings cool down, if necessary.
  - Protect the system from being started up by a third person.
  - Ensure compensation of pressure which may occur in shut pipelines.
  - Carry out the assembly according to the assembly instructions.

- If the closing spring is not pre-tensioned when disassembling the control unit, there is a risk of injury when the clamping joint is released because the spring tension of the drive is released (refer to label – Sketch A)
- Interrupt the power supply.
- Remove the SVP overflow valve from the piping section, if possible.



Sketch A

⇒ Avoid any working method impairing safety and function of the SVP overflow valve.

### 2.3. Modifications on the SVP overflow valve

- ⇒ The user is obliged to operate the SVP overflow valve according to the designated use and safety instructions. Changes emerging on the SVP overflow valve which impair the function and safety, must be reported immediately. The user is obliged to operate the SVP overflow valve only in perfect condition.



Danger

***Modifications to the SVP overflow valve are strictly forbidden***

### 2.4. Storage

- ⇒ Store the valve dry and protected against external influences.
- ⇒ Prior to handling (disassembly of the body / activation of the drives) store the valves temporarily in a dry condition for at least 24 hours at a temperature  $\geq 5^{\circ}\text{C}$ .

### 2.5. Operation



Danger

- ⇒ ***Never touch the valve or the pipelines if hot media are processed or if the sterilizing process is running.***
- ⇒ ***Always adhere to the technical data.***
- ⇒ ***We cannot be held liable for improper operation of the valve***

### 2.6. Spare parts



Caution

- Only use original Norit Südmö spare parts***
- ⇒ ***For Norit Südmö spare parts refer to the enclosed spare parts list***
- ⇒ ***If other spare parts are used***
- ***Exclusion of liability***

### 3. Technical Data

#### 3.1. Valve use



The described valve is an overflow valve which does not meet the requirements to the safety function according to the Pressure Equipment Directive „Directive 97/23/EC“ and, therefore, is not subject to a type examination.

Application	Shut-off valve
For use in	low-germ processes
Shut-off tightness:	adjustable, pressure range order-dependent.

#### 3.2. Material data

##### Sealing materials

⇒ <u>EPDM</u>	Temperature for continuous application in air:	from -40° C up to +130° C
	Resistant against:	up to 100° C
	Hot water:	up to 130° C Steady load, short-time up to 150° C
	Steam:	up to 100° C
	Wort:	up to 100° C
	Soda lye:	up to 100° C and a concentration up to 5 %
	Nitric acid:	up to 60° C and a concentration up to 3 %
	Peracetic acid:	up to 80° C and a concentration up to 0.7 %
	Raspberry flavor	at room temperature
	Cherry flavor	at room temperature
⇒ <u>VMQ</u>	Temperature for continuous application in air:	from -50° C to +200° C
	Resistant against:	up to 100° C
	Hot water:	up to 60° C and a concentration up to 2.5 %
	Soda lye:	up to 60° C and a concentration up to 1.2 %
	Nitric acid:	up to 80° C and a concentration up to 0.7 %
	Peracetic acid:	
⇒ <u>HNBR</u>	Temperature for continuous application in hot water:	from -25° C up to +130° C
	Resistant against:	up to 100° C
	Hot water:	up to 130° C Steady load, for a short period up to 150° C
	Steam:	up to 100° C and a concentration of up to 5 %
	Soda lye:	up to 60° C and a concentration of up to 1.5 %
	Nitric acid:	

⇒ **FPM**

Temperature for continuous application in air:  
Resistant against:

Hot water:  
Soda lye:  
Peracetic acid:  
Orange flavor  
Mandarin flavor

from -20° C up to +200° C  
up to 80° C  
up to 60° C and a concentration of up to 2.5 %  
at room temperature and a concentration of up to 0.7 %  
at room temperature  
at room temperature



**The application parameters of the seals depend on:**

- ⇒ **Operating time per day**
- ⇒ **Switching intervals**
- ⇒ **Type of product, temperature etc.**
- ⇒ **Type of cleaning (CIP / SIP)**

**Stainless steels**

In contact with the product: 1,4404  
Not in contact with product: 1,4301

**3.3. CIP in-line cleaning**



- ⇒ **Valve inner chambers must be cleaned regularly**
- ⇒ **Observe the safety information sheets issued by the detergent manufacturers!**
- ⇒ **Only use detergents which are non-aggressive and non-abrasive towards seals and stainless steel.**

**3.4. Surfaces**

Surfaces in contact with product:  $R_a \leq 0.8 \mu\text{m}$   
Optional: e-polished  
Surfaces not in contact with product: bright metal finish,  
 $R_a \leq 1.6 \mu\text{m}$

**3.5. Electrical and pneumatic connections**

**Electrical connections**

Carry out the electrical connections after installation of the valve.



***Electrical installation to be carried out by specially trained, qualified personnel***

- ⇒ Observe VDE, power utility and other locally applicable regulations.
- ⇒ Before connecting check if operating voltage and current intensity match specifications.

**Pneumatic connections**

- ⇒ Angular screw-in union G 1/8, air hose PE  $\varnothing 6/4$
- ⇒ USA:  
Angular screw-in union G 1/8, air hose PE  $\frac{1}{4}$ " ( $\varnothing 6.35$ )

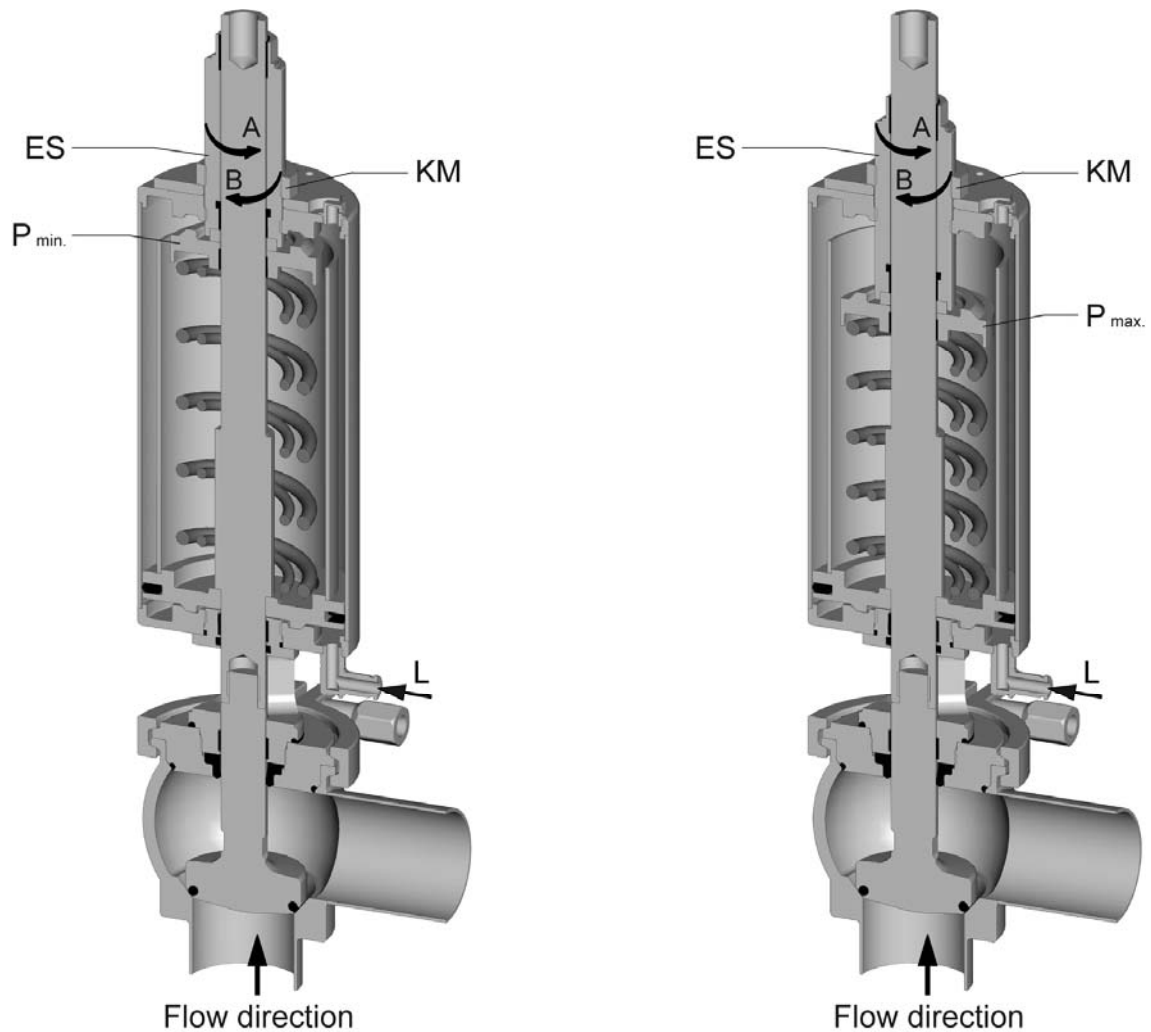
**Air hose**

Always use hose quality according to Norit Südmo article no. 0490227 (6/4 hose) and 0735563 (8/6 hose) or similar:

- ⇒ Air hose black



#### 4. Valve function



##### 4.1.1. Valve position „Open“

- ⇒ Control air pressure 6 bar to air connection L<sub>1</sub>
- ⇒ Valve open

##### 4.1.2. Valve position "Closed"

- ⇒ Control air pressure 0 bar to air connection L<sub>1</sub>
- ⇒ Safety position
- ⇒ Closing force against product pressure 6 bar.

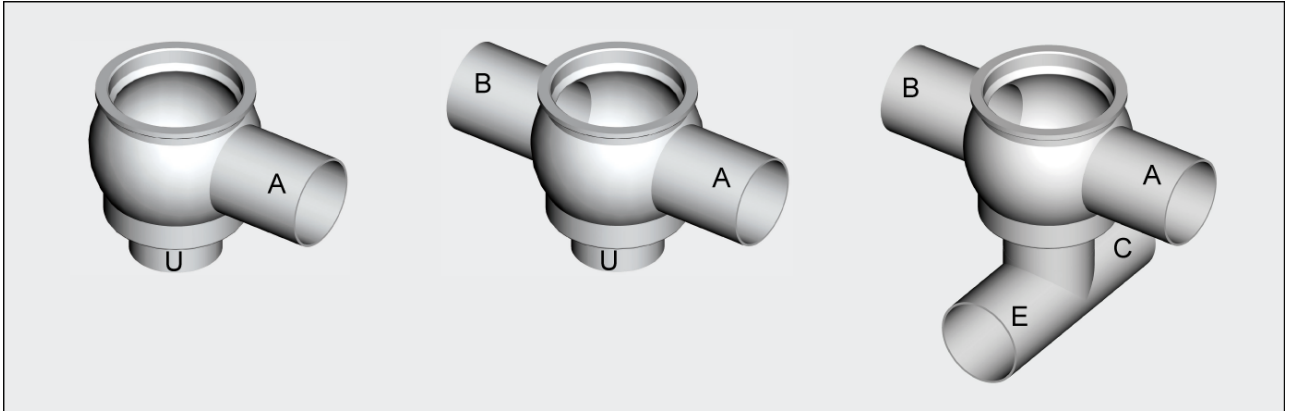
##### 4.1.3. Adjustment of the SVP control unit

Pressure range ⇒ adjustable, order-dependent

###### Setting the pressure range

- ⇒ Prior to adjustment loosen the locking of the adjusting screw (ES) / lock nut (KM) (wrench SW27 / SW46).
- ⇒ Pressure range > Turn the adjusting screw (ES) in the direction of the arrow **A** (counterclockwise).  
Lock after the stroke adjustment.
- ⇒ Pressure range > Turn the adjusting screw (ES) in the arrow direction **B** (clockwise).  
Lock after the stroke adjustment.

## 5. Valve connection piping



### 5.1. Installation position

Vertical, horizontal

Ensure that product can drain from valve and piping.

### 5.2. Valve connections

Connection A, B, C, E and U:

- Welding end
- Threaded connection
- Clamp connection
- Small flange connection

For welding instructions refer to page 10.

### 5.3. Installation instructions

For valve disassembly refer to page 12.



- ⇒ **Dismantle the seals before carrying out any welding work.**
- ⇒ **Valve body must be free from tension and distortions when welded.**
- ⇒ **Welding work must be carried out only by qualified personnel (DIN 287-1 W11).**
- ⇒ **Do not allow any foreign bodies to enter the piping.**

## 6. Installation instructions

### 6.1. General remarks

It is strongly recommended to have installation work done by specially trained, qualified personnel.



**Welding work must be carried out only by qualified personnel (DIN 287-1 W11).**

We cannot be held liable for any damage resulting from incorrect installation.

**6.2. Delivery condition**

- ⇒ Factory-tested and configured.
- ⇒ Ready for installation respectively prepared for welding in the piping

**6.3. Installation instructions**

**6.3.1. Installation space**

Before starting the assembly work determine and define the connection axes. Observe the installation dimensions specified in the dimensional drawings.

Ensure that there is sufficient space available for both operation and maintenance.

**6.3.2. Assembly**

Make sure that the fittings and piping are not subject to any tensile or compressive stresses.

**6.4. Welding directives**

**6.4.1. Field of application**

Welding of fittings into pipes according to DIN 11850 series 1, 2; OD-Tube; DIN EN ISO 1127

**6.4.2. Welding process**

TIG (tungsten inert-gas welding)

**6.4.3. Type of weld:**

- ⇒ Preparation of the weld according to DIN 2559 (edge form I / for I-welds)
- ⇒ Welds correspond to DIN EN ISO 5817 → Quality group B (high)

**6.5. Weld preparation**

Saw off the pipe ends planar at the right angle and debur them (pipe saw M882). Align the welding ends of the valve body and piping radially and axially, ensuring they are fitted flush together (centering device).



**There must be no gap at the flush-fitted welding ends as the quality and corrosion resistance of the welding joint would be impaired by the escaping forming gas.**

**6.6. Welding**

Connect the forming gas. Tack at 3 or 4 points. Type of welding: TIG-manual or orbital (automatic welding).

**6.7. Welding filler**

Material allocation

Material of parts to be welded	Suitable welding filler		
	1.4430	1.4440	1.4519
1.4404	X		
1.4435	X	X	X
1.4571	X	X	

**6.8. Weld finishing**

**6.8.1. Interior**

Weld finishing not required. Improvement of surface finish by scotching (at accessible points).

### 6.8.2. Exterior

Weld finishing methods

- ⇒ Pickling - Ensure proper disposal of pickling paste
- ⇒ Brushing
- ⇒ Grinding
- ⇒ Polishing

### 6.9. Cleaning

Clean thoroughly before assembly.

### 6.10. Assembly

Carry out the assembly according to the assembly instructions.

## 7. Disassembly - Assembly

### 7.1. Prior to disassembly

Carry out the assembly according to the assembly instructions.

Before disconnecting the valve connections and the clamp connections of the valve bodies, carry out the following steps:



- ⇒ **Make sure that no process is running in the respective area during maintenance and service work.**
- ⇒ **Drain off all piping elements leading to the SVP overflow valve, clean and rinse them if necessary.**
- ⇒ **Shut off the control air if it is not needed for disassembly.**
- ⇒ **When dismantling the control unit of spring-closed valves, the closing spring must be preloaded with auxiliary assembling air.**
- ⇒ **If the closing spring is not preloaded when disassembling the control unit of spring-closing valves there is a risk of injury when the clamp connection is removed because the spring tension of the drive is released**
- ⇒ **Interrupt the power supply.**
- ⇒ **Remove the SVP overflow valve from the piping section, if possible.**

Prior to assembly, clean and grease the shafts and sliding surfaces. Grease the sealing elements before installation.

Sealing material	Grease type
EPDM	PARALIQ GTE 703
VMQ	BARRIERTA L 55/3
HNBR	PARALIQ GTE 703
FPM	PARALIQ GTE 703
NBR	RENOLIT SI 410 M



- ⇒ **If other grease is used**  
→ **corrosion of the sealing elements.**
- ⇒ **Do not use mineral greases and animal fat.**
- ⇒ **Do not use petroleum grease.**






**7.2. Spare parts**



**Only use original Norit Südmo spare parts**

- ⇒ **For Norit Südmo spare parts refer to the enclosed spare parts list**
- ⇒ **If other spare parts are used**
- **Exclusion of liability**

**7.3. Assembly tools**

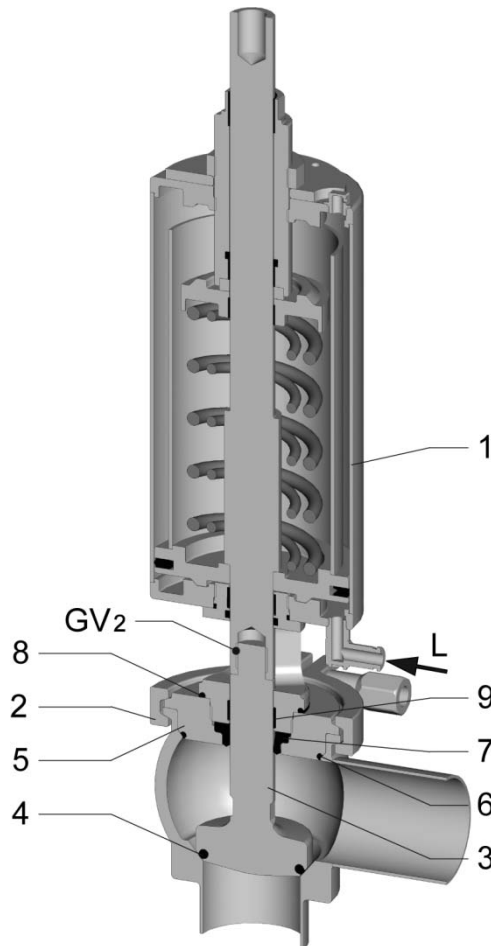
Tools	for	Article no.	Use
Drift punch ø6 	DN 25 – DN 100 DN 1" – DN 4"	2123663	SVP Overflow valve
Fork wrench 17 – 19 mm 	DN 25 – DN 100 DN 1" – DN 4"	0098558	SVP Overflow valve
Open-jawed wrench 27 mm 	DN 25 – DN 100 DN 1" – DN 4"	2307035	SVP Overflow valve
Open-jawed wrench 46 mm 	DN 25 – DN 100 DN 1" – DN 4"	2123662	SVP Overflow valve
Pin wrench 45/50 	DN 25 – DN 100 DN 1" – DN 4"	2153550	SVP Overflow valve

**7.4. Replacement of the seals in contact with the product**



Caution

**Avoid any damage to the metallic surfaces of the valve disks and to the valve disk seals.**



Valve disassembly

- I.1. Release electrical and pneumatic cables and compressed air lines.
- I.2. Preload actuator spring



Danger

⇒ **Control air pressure min. 5 bar (auxiliary assembly air) to connection L.**

- I.3. Remove clamp (2).
- I.4. Release actuator spring.



Danger


⇒ **Control air pressure 0 bar (auxiliary assembly air) to connection L.**  
 ⇒ **Upper part comes out of the body**  
 ⇒ **Disconnect pneum. supply line.**

- I.5. Remove the upper part of the valve (1).

- I.6. Dismantle the valve disk (3) and remove O-ring (4).
- I.7. Unscrew support (5) and remove O-ring (6) and profile seal (7).
- I.8. Remove O-ring (8).
- I.9. Remove friction bearing (9).

Seal Replacement

- I.10. Replace seals and friction bearings




Only use original Norit Südmo spare parts

- ⇒ For Norit Südmo spare parts refer to the enclosed spare parts list
- ⇒ If other spare parts are used  
→ Exclusion of liability

- I.11. Grease the sealing elements before installation.


Sealing material	Grease type
EPDM	PARALIQ GTE 703
VMQ	BARRIERTA L 55/3
HNBR	PARALIQ GTE 703
FPM	PARALIQ GTE 703
NBR	RENOLIT SI 410 M



- ⇒ If other grease is used  
→ corrosion of the sealing elements.
- ⇒ Do not use mineral greases and animal fat.
- ⇒ Do not use petroleum grease.

Valve assembly


- I.12. Prior to assembly, clean and grease the shafts and sliding surfaces.
- I.13. Install friction bearing (9) and O-ring (8).
- I.14. Install O-ring (6) and profile seal (7) into the support (5) and screw the cpl. support onto the drive (1).
- I.15. Install O-ring (4) into the valve disk (3).
- I.16. Install valve disk (3) onto the drive (1).



Secure the threaded connection **GV<sub>1</sub>** with the adhesive (article no. 0630210).


Assembly tool  
- Fork wrench 17 – 19 mm

- I.17. Preload actuator spring



- ⇒ Control air pressure min. 5 bar (auxiliary assembly air) to connection L.

- I.18. Insert the upper part of the valve (1) into the valve body and mount clamp (2).
- I.19. Release actuator spring



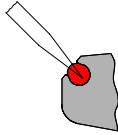
- ⇒ Control air pressure 0 bar (auxiliary assembly air) to connection L.
- ⇒ Disconnect pneum. supply line.

- I.20. Mount electrical and pneumatic cables and compressed air lines.

**7.5. Assembly of the O-ring**

**7.5.1. Disassembly**

- ⇒ The O-ring is installed in positive contact under pretension.
- ⇒ Remove the O-ring as shown in the drawing.



Caution

**Do not damage the seal groove (edges of groove)**

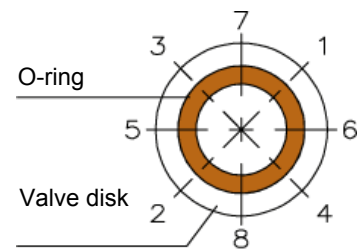
**7.5.2. Assembly**

- ⇒ Press the O-ring in sequence 1- 2, 3 – 4 etc. into the groove.
- ⇒ Roll the O-ring section by section 1 – 6, 5 – 2 into the groove.
- ⇒ For the assembly use round objects made of plastic or wood.

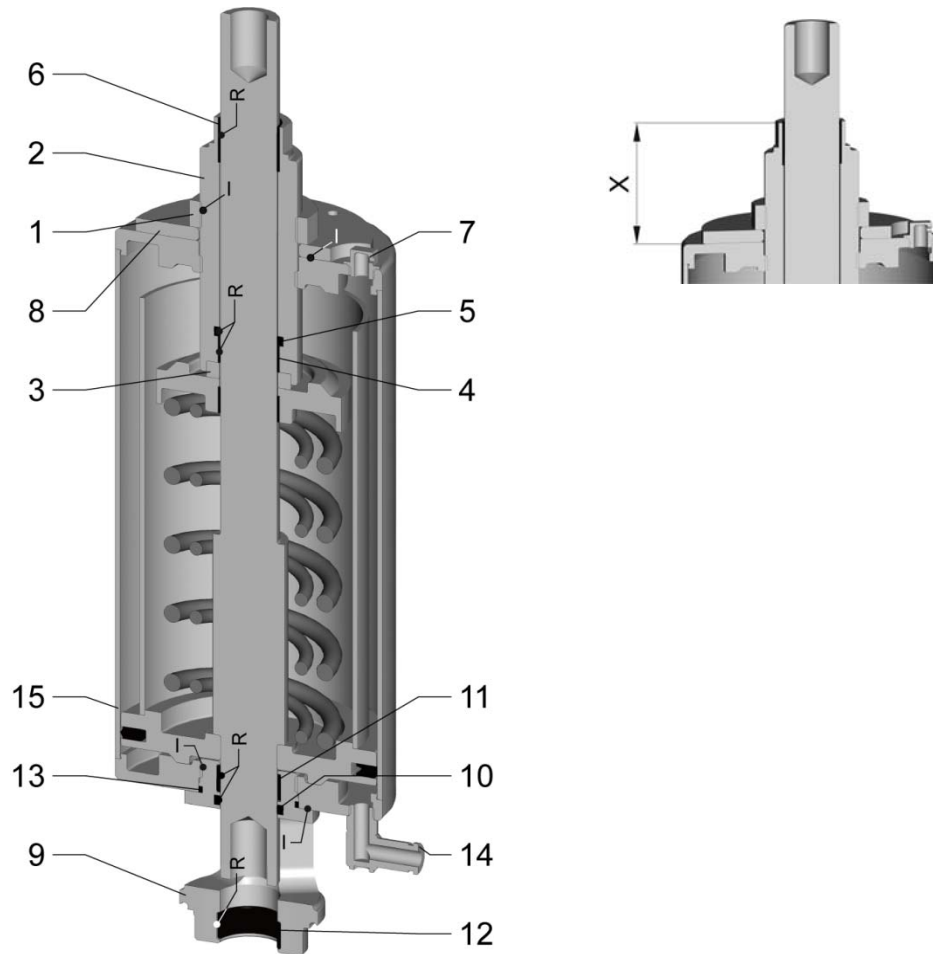


Caution

**Avoid twisting and damaging the O-ring.**



**7.6. Pneum. control unit**



Drive disassembly

- II.1. Record the adjustment dimension "X".
- II.2. Dismantle the lock nut (1).
- II.3. Dismount the adjusting screw (2) and sliding ring (4, 6) and remove the O-ring (5).
- II.4. Remove the sliding ring (3).
- II.5. Remove the adapter disk (8).
- II.6. Unscrew the threaded plug (7).
- II.7. Dismantle closing head support (9) and remove friction bearings (11, 12) and O-rings (10, 13).

Assembly tools

- Fork wrench                    17 – 19 mm
- Open-jawed wrench        46 mm
- Pin wrench                    45/50

- II.8. Disconnect the air connection (14).

Seal Replacement

- II.9. Replace seals and friction bearings.



**Only use original Norit Südmo spare parts**

⇒ **For Norit Südmo spare parts refer to the enclosed spare parts list**

⇒ **If other spare parts are used  
→ Exclusion of liability**

- II.10. Prior to assembly, clean and grease the shafts and sliding surfaces. Grease the sealing elements before installation.

Lubrication plan

Apply R = RENOLIT SI 410 M - at the periphery using a brush  
 Skim I =IFB PW 119 - at the periphery using a brush

Assembly of the drive

- II.11. Reconnect the air connection (14)  
 II.12. Install friction bearings (11, 12) and O-rings (10, 13) in the closing head support (8).  
 II.13. Screw closing head support (8) onto the driving cylinder (15).

Assembly tools

- Fork wrench 17 – 19 mm
- Open-jawed wrench 46 mm
- Pin wrench 45/50

- II.14. Unscrew the threaded plug (7).  
 II.15. Install the adapter washer (8) onto the drive cylinder (15).  
 II.16. Install friction bearing (4, 6) and O-ring (5) in the adjusting screw (2).  
 II.17. Screw the adjusting screw (1) onto the drive cylinder (13).  
 II.18. Set the adjustment dimension "X" and fix it by means of a lock nut (1).

## 8. Commissioning



Caution

- ⇒ **Ensure that no foreign objects are present in the piping system.**
- ⇒ **Avoid temperature shock!**  
**Warm up the fitting slowly to the operating temperature.**

### 8.1. Functional check

Switch the valve several times controlling it by means of the compressed air.  
 The system must be cleaned before the first product run.

### 8.2. Leak test

Check visually if the seals have any leaks.  
 Replace defective seals.

## 9. Maintenance

### 9.1. Before maintenance



Danger

- ⇒ *Depressurize piping system, drain all liquids and shut off control air supply.*
- ⇒ *For spring-closed valves, the closing spring must be preloaded using auxiliary assembly air.*
- ⇒ *If the closing spring is not preloaded when disassembling the control unit of spring-closing valves there is a risk of injury when the clamp connection is removed because the spring tension of the drive is released*
- ⇒ *Observe the electrical supply voltage, switch off the power supply if necessary.*
- ⇒ *Maintenance work must be carried out by qualified and trained personnel only.*

### 9.2. Inspection

Norit Südmo valves do not require special maintenance. Between the maintenance intervals, however, the tightness and correct operation of the seals should be verified by means of periodic visual inspection.

### 9.3. Maintenance

Practice-oriented maintenance intervals can only be determined by the respective user/operator as they depend on the following application parameters:

- ⇒ Operating time per day
- ⇒ Switching intervals
- ⇒ Type of the product
- ⇒ Type of cleaning (CIP / SIP)

We can recommend the following data as reference values:

- ⇒ for liquids with solid particles and temperatures of 80° C to 100° C approx. every 3 – 6 months
- ⇒ for liquids with solid particles and temperatures of 60° C every 12 months
- ⇒ for liquids without solid particles and temperatures of max. 60° C every 24 months

In cleaning systems, intervals of 12 months are recommended.

Of course, the intervals stated above require sufficient chemical resistance of the sealing materials.

## 10. Malfunctions - Troubleshooting



- ⇒ **Never touch the valve or the pipelines if hot media are processed or if the sterilizing process is running.**
- ⇒ **Always adhere to the technical data.**
- ⇒ **We cannot be held liable for improper operation of the valve**



- ⇒ **In case of malfunctions, shut off the valve immediately and secure it against restart.**
- ⇒ **Malfunctions must be eliminated only by qualified and trained personnel while observing the safety instructions.**

Malfunctions	Cause	Troubleshooting
Valve does not work	⇒ Fault in the control system	⇒ Check the system configuration
	⇒ No compressed air	⇒ Check compressed air supply
	⇒ Compressed air level is too low	⇒ Check if air hoses are free and tight
	⇒ Fault in the electrical system	⇒ Check activation / process control unit and electrical lines
Air escapes from the drive	⇒ Seal on the spindle is defective	⇒ Replace the seals
	⇒ Seals in the drive are defective	⇒ Replace the drive cylinder
Valve does not close	⇒ Dirt / foreign objects in the seat area	⇒ Clean valve body and area of the seal, valve disk/closing sleeve
Valve closes too slowly	⇒ Seals in the drive are dry (friction losses)	⇒ Grease the seals - See lubrication plan
Leakage on support or spindle lead-through	⇒ Seals are defective	⇒ Replace the seals
Valve closes jerkily	⇒ Seals are dry (friction losses)	⇒ Grease the seals - See lubrication plan ⇒ Replace the seals



## 12. EC Manufacturer's Declaration

for machines/systems according to EC directive 98/37/EC, Appendix II B

The manufacturer,

**Südmo Components GmbH**  
**Industriestraße 7**  
**D-73469 Riesbürg-Pflaumloch**

hereby declares that the machine/system described below

### **Overflow valve SVP Select**

**Type:** S370 EAF Select

**Art. No.:** S371 EAF Select – S372 EAF Select


complies with the basic requirements of the **Machinery Directive (98/37/EC)**. The machine / system component furthermore complies with all regulations of the **Electrical equipment (2006/95/EC)** and **Electromagnetic compatibility (2004/108/EC)** directives.

### **Applied harmonized standards**

- ⇒ DIN EN 12100-1 Safety of machinery – Basic terms, general principles for design - Part 1: Basic terminology, methods
- ⇒ DIN EN 12100-2 Safety of machinery – Basic terms, general principles for design, part 2: Technical principles and specifications
- ⇒ DIN EN 60204-1 Safety of machinery - Electrical equipment of machines - Part 1: General requirements

Do not put the machine / system component into operation unless it has been verified that the machine/system which the machine/system component is to be built into complies with the regulations of the machinery directive (98/37/EC).

TD authorized person

  
Engineering management: Werner Deger,  
Südmo Components GmbH  
Industriestraße 7, D-73469 Riesbürg

Riesbürg, 12.10.2009

  
Managing Director  
Oliver Rupp

### 13. Declaration of Conformity

according to Appendix VII of the pressure equipment directive "Directive 97/23/EC"

The manufacturer,

**Südmo Components GmbH**  
**Industriestraße 7**  
**D-73469 Riesbürg-Pflaumloch**

hereby declares in sole responsibility that the product

**Overflow valve SVP Select**

**Type: S370 EAF Select**

**Art. No.: S371 EAF Select – S372 EAF Select**

to which this declaration refers complies with the pressure equipment directive "Directive 97/23/EC" and has been subject to the following conformity procedure:

**Module A .**

**Applied harmonized European standards**

- ⇒ DIN EN 10088-1
- ⇒ DIN EN 10088-2
- ⇒ DIN EN 10088-3
- ⇒ DIN EN 287-1
- ⇒ DIN EN 287-2

**Other applied standards and technical specifications**

- ⇒ AD-2000 regulations
- ⇒ DIN EN 12266-1

**Additions to the Declaration of Conformity**

- ⇒ The nominal diameters DN 125 and larger are not suitable for "Group 1 fluids – hazardous" according to the definition in the pressure equipment directive 97/23/EC especially "Fluid property according to article 9"  
The mentioned hazardous products are also defined by the pressure equipment directive 97/23/EC especially within the database for hazardous substances.
- ⇒ The nominal diameters DN 25 and smaller are defined according to the definition in the pressure equipment directive 97/23/EC" according to Article 3 Paragraph 3 good engineering practice and **must not be marked** with the CE mark.
- ⇒ Valve manifolds:  
The pressure test on the complete valve manifold cannot be carried out in the factory for manufacturing reasons. This test must be carried out when commissioning the complete system at the customer's facilities. The individual valves have been tested by the manufacturer.

Riesbürg, 12.10.2009



Managing Director  
Oliver Rupp

## 14. Manufacturer's declaration for use at locations subject to explosion hazards

The manufacturer,

**Südmo Components GmbH**  
**Industriestraße 7**  
**D-73469 Riesbürg-Pflaumloch**

hereby declares in sole responsibility that the product

### **Overflow valve SVP Select**

**Type:** S370 EAF Select  
**Art. No.:** S371 EAF Select – S373 EAF Select

when used according to its designated use does not show any potential risk of ignition as defined by the EC directive 94/9/EC Article 1 and, thus, does not fall within the scope of the EC directive 94/9/EC.

### **Information regarding its designated use**

- Underground use must be excluded.
- An equipotential bonding of the complete system must be ensured.
- The maximum surface temperature of the fitting depends on the temperature of the substance to be transported but due to friction the pneumatically operated fittings will reach up to +80°C at an outside temperature of +40°C. This restricts the ignition and glowing temperature of the substances being transported through the fitting.
- The fitting must not be used in Zone 0 for fluids of explosion group IIC (according to DIN EN 50014).
  - The surface area of non-conducting components is < 80 cm<sup>2</sup>
  - All non-conducting components are surrounded by a conducting frame.

### **Classification of the hazardous areas**

- We would like to point out that the classification in group, category, zone, protection class and temperature class and the definition of any special operating conditions have to be specified by the system manufacturer.
- Please note that leaks in a sealing element may result in the medium escaping from the valve interior into the atmosphere.

### **Applied harmonized European directives and standards and other regulations:**

- ⇒ EN 1127-1
- ⇒ EN 13463-1
- ⇒ DIN EN 50014

### **Other applied standards and technical specifications:**

- ⇒ EC Directive 94/9/EC
- ⇒ BGR 132

**Components not included in the operating instructions are excluded from the manufacturer's declaration. Documentation must be ordered separately.**

Riesbürg, 12.10.2009



Managing Director  
Oliver Rupp

## Operating Instructions

SVP overflow valve  
actuated pneumat.  
profile seal – O-ring  
DN 25 – 100, DN 1" – 4"

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**15. Service address**

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Subject to technical modifications

**Original operating instructions**