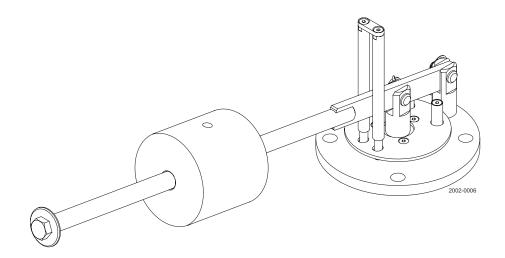


Alfa Laval SB Pressure Relief Valve



Lit. Code 200007939-1-EN-GB

Instruction Manual

Published by Alfa Laval Kolding A/S Albuen 31 DK-6000 Kolding, Denmark +45 79 32 22 00

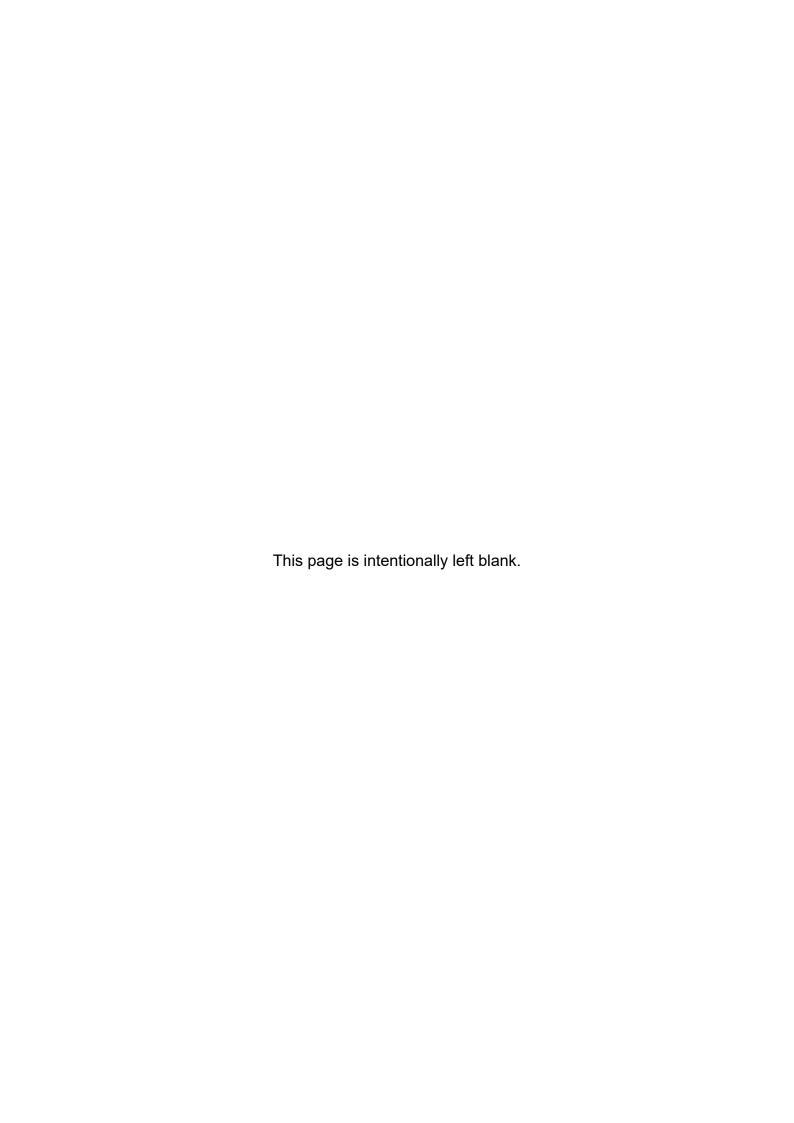
The original instructions are in English

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1 Declarations of Conformity

1.1 EU Declaration of Conformity

	•		
The designated company			
Alfa Laval Kolding A/S, Albuen 31, DK	-6000 Kolding, Denmark, +45 79 3	32 22 00	
Company name, address and phone number			
Hereby declare that			
Valve			
Designation			
SB Pressure Relief Valve			
Туре			
Serial number from AAB000000001 to	AAC999999999		
Serial number from 100700000001 to			
is in conformity with the following directives	s with amendments:		
Machinery Directive 2006/42/EC			
Pressure Equipment Directive (PED) 20	014/68/EU Category IV, Fluids Group	II	
Conformity Assessment According to Directive 2014/68/EU Annex III Module D PED Quality Certificate No. QS-005-19 rev2 Notified Body Number: 1336 Inspecta Estonia OÜ Teaduspargi 8 12618 Tallinn ESTONIA			
The person authorised to compile the to Vice President BU Hygi	ienic Fluid Handling		
Head of Product Management Title		Mikkel Nordkvist Name	
Kolding, Denmark	2024–09–01	Oli Well Dovallet	
Place	Date (YYYY-MM-DD)	Signature	

DoC Revison_ 01_092024 / This Declaration of Conformity replaces Declaration of Conformity dated 2023–10–25





1.2 UK Declaration of Conformity

The designated company		
Alfa Laval Kolding A/S, Albuen 31, DK-6000 Kolding, Denmark, +45 79 32 22 00		
Company name, address and phone number		
Hereby declare that		
Valve		
Designation		
SB Pressure Relief Valve		
Туре		
Serial number from AAB000000001 to ASerial number from 100700000001 to 1		
is in conformity with the following directives	with amendments:	
 The Supply of Machinery (Safety) Regul 	lations 2008	
 The Pressure Equipment (Safety) Regul 	lations 2016 Category IV, Fluids Gro	up II
PED Quality Certificate No. QS-005-19 rev2 Notified Body Number: 1336 Inspecta Estonia OÜ Teaduspargi 8 12618 Tallinn ESTONIA		
Signed on behalf of: Alfa Laval Kolding	A/S.	
Vice President BU Hygie Head of Product N	_	Mikkel Nordkvist
Title		Name
Kolding, Denmark	2024–09–01	Oli Well Dovallet
Place	Date (YYYY-MM-DD)	Signature
DoC Revison_ 03_092024		

2 Safety

Read this first

This Instruction Manual is designed for operators and service engineers working with the supplied Alfa Laval product.

Operators must read and understand the **Safety, Installation and Operating** instructions of the supplied Alfa Laval product before carrying out any work or before you put the supplied Alfa Laval product into service!





Not following the instructions can result in serious accidents.

This documentation describes the authorized way to use the supplied Alfa Laval product. Alfa Laval will take no responsibility for injury or damage if the equipment is used in any other way.

This Instruction Manual is designed to provide the user with the information to perform tasks safely for all phases in the lifetime of the supplied Alfa Laval product.

The operator shall always read the chapter *Safety* first. Hereafter the operator can skip to the relevant section for the task to be carried out or for the information needed.

Always read the chapter Technical Data thoroughly.

This is the complete Instruction Manual for the supplied Alfa Laval product.

● NOTE

The illustrations and specifications in this Instruction Manual were effective at the date of printing. However, as continuous improvements are our policy, we reserve the right to alter or modify the Instruction Manual without prior notice or any obligation.

The English version of the Instruction Manual is the original manual. Alfa Laval cannot be held responsible for incorrect translations. In case of doubt, the English version applies.

2.1 Safety Signs

Mandatory Action Signs

0	General mandatory action sign.
	Refer to instruction manual.
	Use eye protection - safety glasses.
	Use protective hand wear - safety gloves.
	Wear protective equipment - safety helmet.
	Use ear protection in noisy environments - noise protector.
	Wear protective equipment - safety shoes.

Warning Signs

<u>^</u>	General warning.
	Transportation with forklift truck or other industrial vehicles if heavy.
	Hot surface and burning danger.
	Cutting danger.



Corrosive substance.



Crushing of hands.

2.2 Safety Precautions

All warnings in the Instruction Manual are summarised on these pages. Pay special attention to the instructions below so that severe personal injury and/or damage to the supplied Alfa Laval product is avoided.

General



To prevent unexpected start and contact with electrical live and moving parts.

Always disconnect the power supply safely:

 The power supply disconnecting device must be disconnected (in off position) and locked.

Transportation and Lifting



Never lift or elevate in any way other than described in this manual.

Always use the original packaging or similar during transportation.



Always ensure that personnel must have experience with lifting operations.

Always ensure that all connections are disconnected before attempting to remove the valve from the installation.



Always ensure that no leakage of lubricants can occur.

Always drain liquid out of the valves before transportation.

Always ensure sufficient fixing of the valve during transportation - if specially designed packaging material is available, it must be used.

Always ensure that compressed air is released.



Always use designated lifting points if defined. Ensure that the lifting equipment is suitable for the supplied Alfa Laval product.

Always ensure that the unit is securely fixed during transportation.



Always ensure the lifting point to be in line with center of gravity. Adjust lifting point if necessary.

Always use suitable transport device ie. forklift or pallet lifter.

Always use appropriate lifting equipment for heavy parts when relevant. Use lifting logs when available.

Always keep an eye on the load and stay clear during the lifting operation.

Installation



If the local safety regulations prescribe that the installation has to be inspected and approved by responsible authorities before the valve is put into service, consult with such authorities before installing the equipment and have the projected installation approved by them.

Always release compressed air after use.

Always assemble the valve completely before startup and make sure everything is in place and correctly tightened.





Always ensure that the valve and pipelines are depressurized, emptied, and cooled down to ambient temperature before installation, inspection, assembly, or dismantling of the valve.



Never work on the valve or touch moving parts if the actuator is supplied with compressed air.

Operation



Always read Technical Data thoroughly.

Never operate the valve unless a correct installation has been verified.

Never cover or in any way restrict the valve, the valve must be able to work unobstructed at all time.

Never dismantle or touch the actuator for force opening if supplied with compressed air.



Never touch the valve or pipelines when hot.



Always rinse well with clean water after cleaning.

Always handle lye and acid with great care.

Always follow the instructions in the safety data sheets from the suppliers of cleaning agents, detergents, oils etc.



Never touch moving parts of the valve during operation.

Never dismantle the valve during operation or when pressurized.

Always release compressed air after use.

Maintenance

In order to optimise the operation of the supplied Alfa Laval product and to minimize the down time due repair activities, the maintenance includes:

Inspection and maintenance of the supplied Alfa Laval product: strictly follow the technical documentation



- Preventive maintenance: visual inspection of the supplied Alfa Laval product followed by necessary adjustments and planned periodic replacement of wear and tear parts
- Repairs: unscheduled break down of a component, often causing the system to stop. Damaged components must be replaced
- Stock of Alfa Laval genuine spare parts: Alfa Laval recommend keeping a stock of genuine spare parts facilitating preventive maintenance and reducing downtime in case of unplanned break downs

Always release compressed air after use.



Always ensure that the valve and pipelines are depressurized, emptied, and cooled down to ambient temperature before dismantling the valve.



Never stick your fingers through the valve ports if the actuator is supplied with compressed air.

Never put your fingers between the valve and actuator for force opening.

Never touch the moving parts if the actuator for force opening is supplied with compressed air.



Never work on the valve or touch moving parts if the actuator is supplied with compressed air.

Storage

Alfa Laval recommend:



- Store the supplied Alfa Laval product as supplied in original packaging
- Port opening(s) should be protected against any ingress
- Store in a clean, dry place without direct sunlight or UV light
- Temperature range -5 °C to +40 °C (23 °F 104 °F)
- Relative humidity less than 60%
- No exposure to corrosive substances (including contained air)

Noise



Under certain operating conditions, the supplied Alfa Laval product and/or the systems in which they are installed can produce high sound pressure levels. Appropriate noise protection measures should be taken when necessary and in accordance with local legislation.

Hazards



Burn Hazard

Lubrication oil, machine parts and various machine surfaces can be hot and cause burns. Wear protective gloves





Corrosive Hazard

- Always handle cleaning liquids, lye and acid with great care and in accordance with separate instructions for those fluids
- When using chemical cleaning agents and lubricants, make sure you follow the general rules and suppliers recommendation regarding ventilation, personnel protection etc.





Cut Hazard

Sharp edges, especially on bowl discs and threads, can cause cuts. Wear protective gloves





Crushing Hazard

· Avoid placing hands into valve orifice pinch points



Safety check

A visual inspection of any protective device (shield, guard, cover or other) on the supplied Alfa Laval product shall be carried out at least every 12 months. If the protective device is lost or damaged, especially when this leads to deterioration of safety performance, it shall be replaced. The fixing of the protective device should only be replaced with fixings of the same or an equivalent type.



Inspection acceptance criteria:

- It should not be possible to reach moving parts originally protected by a protective device
- The protective device must be securely mounted
- Ensure that screws for the protective device are securely tightened

Procedure in case of non-acceptance:

Fix and/or replace the protective device

2.3 Warning Signs in Text

Pay attention to the safety instructions in this Instruction Manual.

Below are definitions of the four grades of warning signs used in the text where there is a risk for injury to personnel or damage to the supplied Alfa Laval product.



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate damage to the supplied Alfa Laval product.



Indicates important information to simplify or clarify procedures.

2.4 Requirements of Personnel

Operators

The operators shall read and understand this Instruction Manual.

Maintenance personnel

The maintenance personnel shall read and understand this Instruction Manual. The maintenance personnel or technicians shall be skilled within the field required to carry out the maintenance work safely.

Trainees

Trainees can perform tasks under the supervision of an experienced employee.

People in general

The public shall not have access to the supplied Alfa Laval product.

In some cases, specially skilled personnel may need to be hired (i.e. electricians, welders). In some cases the personnel has to be certified according to local regulations with experience of similar types of work.

2.5 Recycling Information

Unpacking

Packing material may consist of wood, plastics, cardboard boxes and in some cases metal straps.



- Wood and cardboard boxes can be reused, recycled or used for energy recovery
- Plastics should be recycled or burnt at a licensed waste incineration plant
- Metal straps should be sent for material recycling

Maintenance

During maintenance, oil (if used) and wear parts in the supplied Alfa Laval product should be replaced.

- · Oil and all non-metal wear parts must be disposed of in accordance with local regulations
- Rubber and plastics should be burnt at a licensed waste incineration plant. If not available they should be disposed of in accordance with local regulations
- · Bearings and other metal parts should be sent to a licensed handler for material recycling
- · Seal rings and friction linings should be disposed of to a licensed land fill site. Check your local regulations
- All metal parts should be sent for material recycling
- Worn out or defected electronic parts should be sent to a licensed handler for material recycling

Scrapping

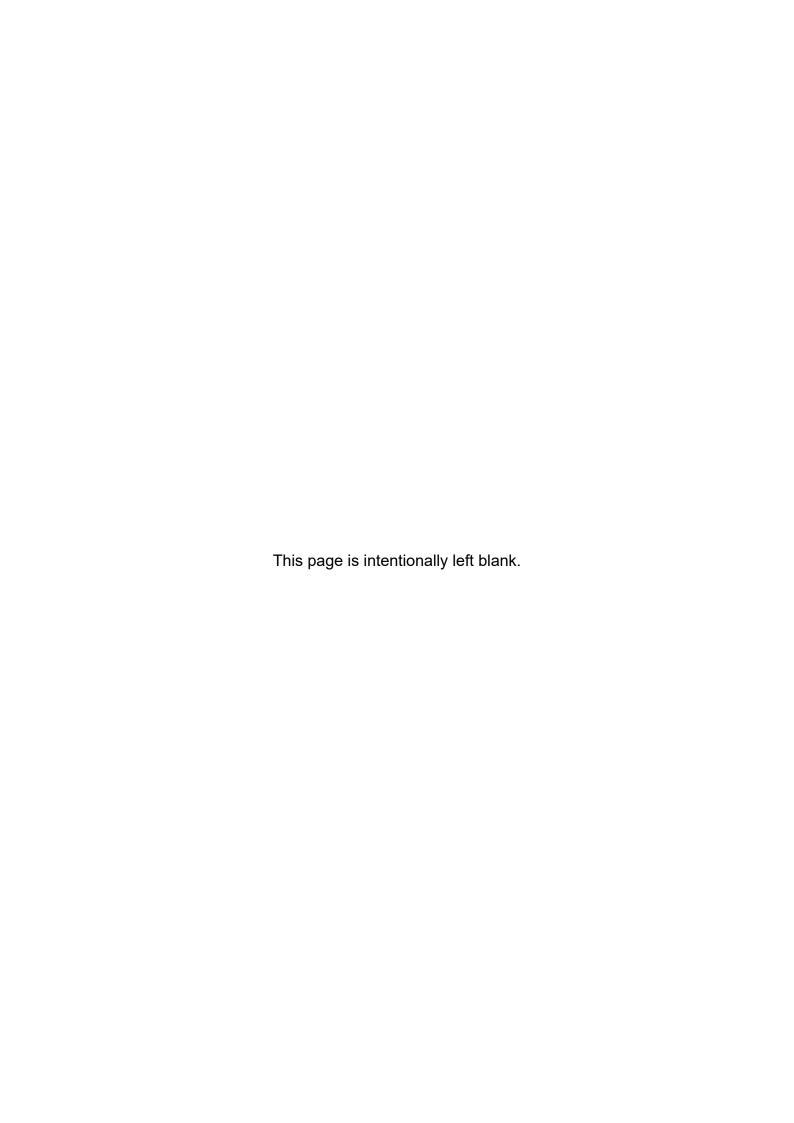
At end of use, the equipment must be recycled in accordance with the relevant local regulations. Besides the equipment itself, any hazardous residues from the process liquid must be considered and dealt with in a proper manner. When in doubt, or in the absence of local regulations, please contact your local Alfa Laval sales company.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website.

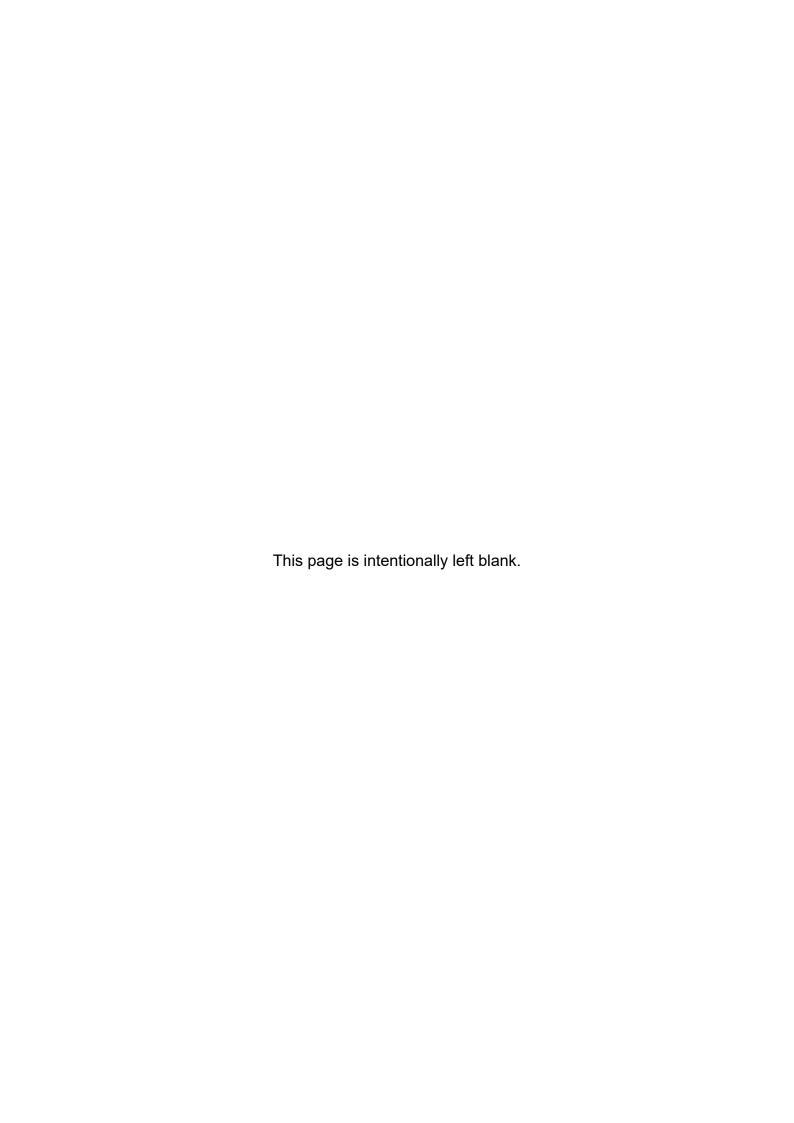
Please visit www.alfalaval.com to access the information directly.

200007939-1-FN-GB



3 Introduction

The Alfa Laval SB Pressure Relief Valve is a hygienic safety valve that removes excess liquid that creates overpressure in a process tank or vessel due to overfilling. When pressure in the tank exceeds a pre-set value, the pressure relief valve opens to vent fluid in the event of liquid overfilling and closes when the tank or vessel pressure has returned below the set point. This prevents damage to the tank or vessel and help ensure safe operations.



4 Installation

4.1 Unpacking/delivery



The instruction manual is part of delivery.

Study the instructions thoroughly.

The items refer to the Parts Lists and Exploded Views on page 35.



Alfa Laval cannot be held responsible for incorrect unpacking.

Check the delivery for:

- 1. Valve seat and disc
- 2. Lever and weight
- 3. Bearing pins, washers and locking rings
- 4. Flange gasket (placed in valve seat)
- 5. Actuator for force opening (option)
- 6. Splash guard (option)
- **7.** Proximity sensor (option)
- Remove any packing materials from the valve/valve parts.
- 2 Inspect the valve/valve parts for visible transport damage.

Avoid damaging the valve/valve parts.

4.2 General installation



Always read Technical Data on page 31 thoroughly.



Always release compressed air from the actuator for force opening after use.



Alfa Laval cannot be held responsible for incorrect installation.

4.3 Valve assembly

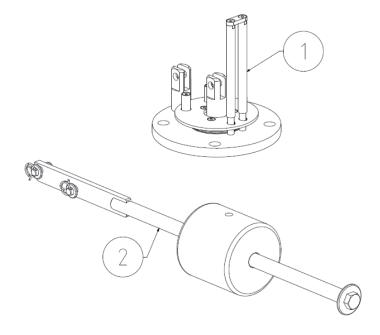


The lever and weight are to be assembled with valve seat and disc.

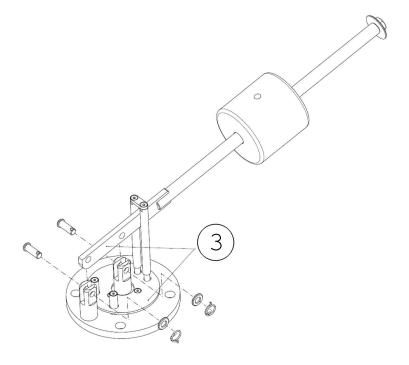
Make sure the serial number engraved on the disc matches the serial number engraved on the lever.

Pos. 1. Valve seat and disc

Pos. 2. Lever and weight



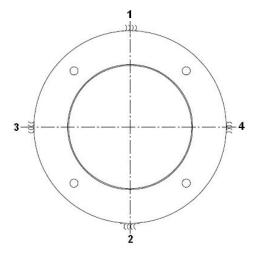
Pos 3. Serial number



22

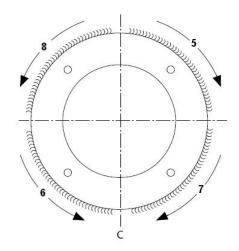
4.4 Welding procedures for welding flange

Spot weld from outside



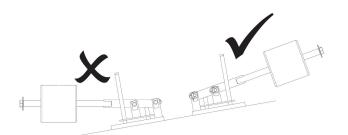
(2) Weld the following sections first from the outside then from the inside, and cool with air between each section.

Spot weld from inside



- (3) Ensure that the surface flatness tolerance equals ±0.2
 - Grind and polish the welding flange

The valve should be seated horizontally. An inclination of max. 10° is acceptable but the lever must then point upwards.

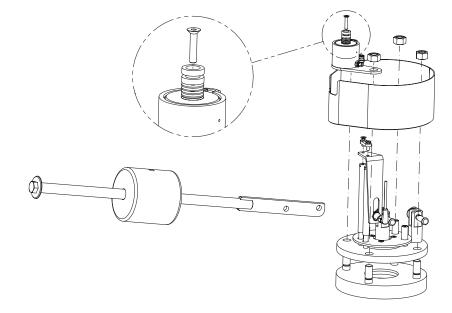


4.5 Installation of valve and accessories

The valve is to be fitted with M16 bolts. The options Splash guard and Force opener are also to be fitted with M16 bolts The Proximity sensor is to be fitted by the valve's M6 screws.

Options

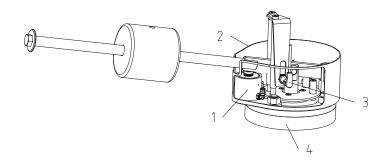
- 1. Force opener¹
- 2. Splash guard
- 3. Proximity sensor
- 4. Welding flange



¹ The force opener is delivered with a spacer kit. Adjust the spacer kit to a recommended gap of 2-4 mm (0.08" - 0.16") between piston and lever.

Tightening torques for bolts:

M16 218 Nm M6 11 Nm



5 Operation

5.1 Operation



The valve is delivered with counterweight locked by welding to an individual opening pressure to suit the tank design data.



Never cover or in any way restrict the valve, it must be able to work unobstructed at all times.



Alfa Laval cannot be held responsible for incorrect operation.

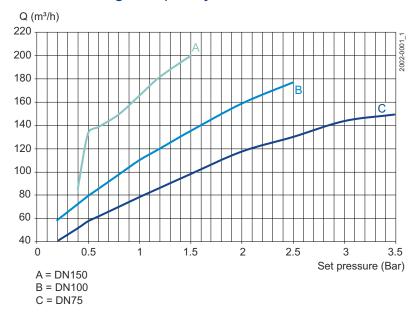
The safety valve is not intended for pressure regulation; a large number of activations can damage the equipment.

Operating range	
Nominal size	Opening
75 mm (3")	0.2 - 3.5 bar (2.9 - 50.8 psi)
100 mm (4")	0.2 - 2.5 bar (2.9 - 36.3 psi)
150 mm (6")	0.4 - 1.5 bar (5.8 - 21.8 psi)

Opening and Closing Characteristics			
Set pressure		Preset opening pressure	
Reset pressure	ressure Closing pressure after discharge		
Reset pressure = Set pressure x 0.9	if	Set pressure > 1.0 bar (14.5 psi)	
Reset pressure = Set pressure - 0.15 bar (2.17 psi)	if	Set pressure < 1.0 bar (14.5 psi)	

Alfa Laval recommends an operating pressure of min. 10% lower than the set pressure value.

5.2 Discharge Capacity



In accordance with EN 4126-1

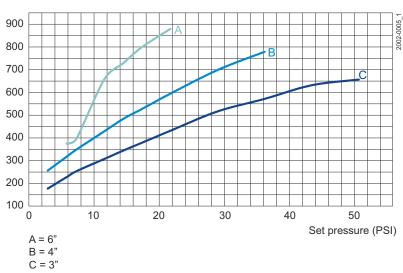
Capacity measured at:

ΔP=10% Set pressure ≥ 1 bar

 $\Delta P=0.1 x Set pressure < 1 bar$

Medium: water (20 °C)

Q (GPM US)



In accordance with EN 4126-1

Capacity measured at:

ΔP=10% Set pressure ≥ 14.5 psi

ΔP=1.45 Set pressure < 14.5 psi

Medium: water (68 °F)

5.3 Recommended cleaning



Always handle lye and acid with great care.

Always use rubber gloves!

Always use protective goggles!







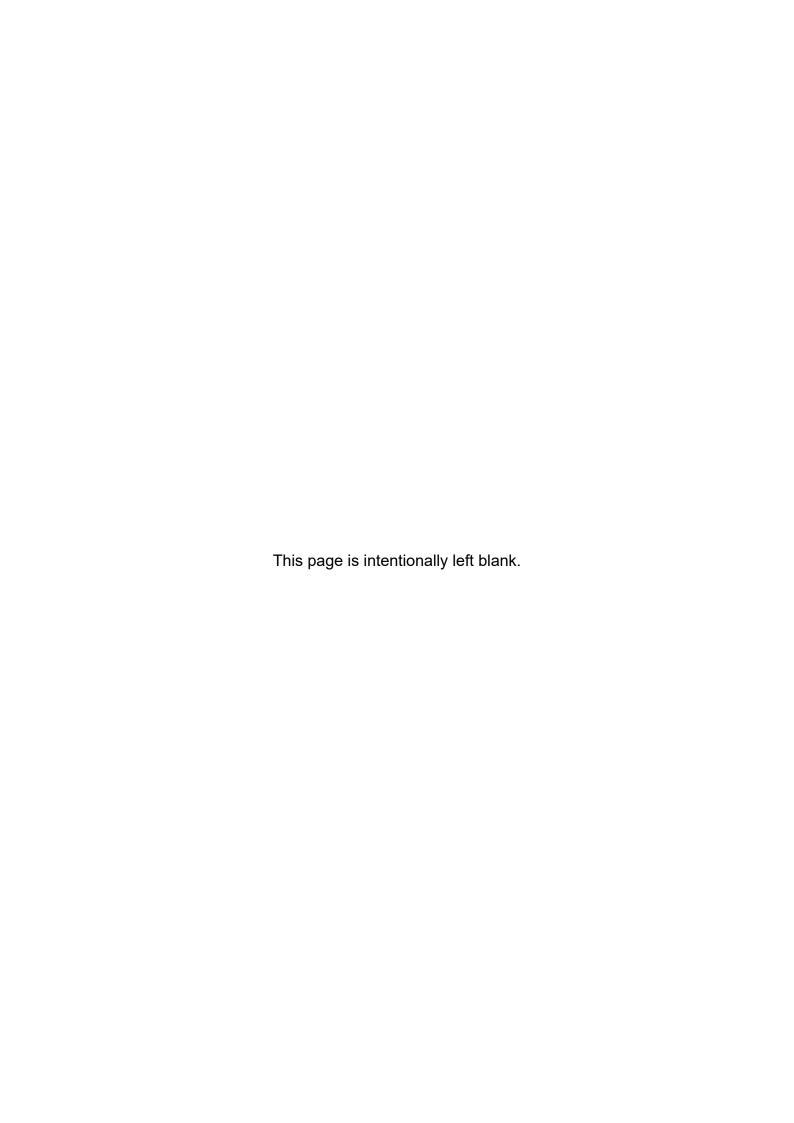
It is important that the valve seat is kept clean.

Assuming the valve is operating normally, the valve disc is satisfactorily cleaned during the tank cleaning cycle as part of the tank.

It is recommended that the valve is supplied with the option of Force opener and Splash guard.

For opening of valve during tank cleaning cycle for complete valve seat cleaning. Force opener

For containing CIP fluid spray from the tank cleaning cycle. Splash guard



6 Maintenance

6.1 General maintenance



Always read Technical Data on page 31 thoroughly.



Never service the valve when it is hot.

Never service the valve with the valve or actuator under pressure.

Atmospheric pressure required!

Burning hazard!





WARNING Cutting hazard!

Never put your fingers between the valve and the actuator for force opening.



MARNING

Moving parts!

Never touch the moving parts of the actuator for force opening if supplied with compressed air.



Below are some guidelines for maintenance and lubrication intervals.

Valve

To ensure the valve operates correctly, test of function at regular intervals is required.

Intervals are dependent on operation conditions and should be specified by the user or local regulations.

Alfa Laval recommend intervals of once every 6-12 months.

O-ring and flange gasket replacement every 2-5 years.

To ensure correct mounting of O-ring, the O-ring should be lubricated with soapy water. Do not use grease, oil or equivalent.

Actuator for force opening

Disassemble, clean and lubricate the actuator every 2-5 years.

O-ring replacement every 2-5 years.

7 Technical Data



Technical data must be observed during installation, operation and maintenance.

All personnel should be informed about the technical data.

7.1 Technical Data

Nominal size	Set Pressure Range
75 mm / 3"	0.2 - 3.5 bar / 2.9 - 50.8 psi
100 mm / 4"	0.2 - 2.5 bar / 2.9 - 36.3 psi
150 mm / 6"	0.4 - 1.5 bar / 5.8 - 21.8 psi

Temperature			
Max. operating temperature	80 °C		
Max. sterilization temperature	140 °C (max. 30 min.)		

Actuator data

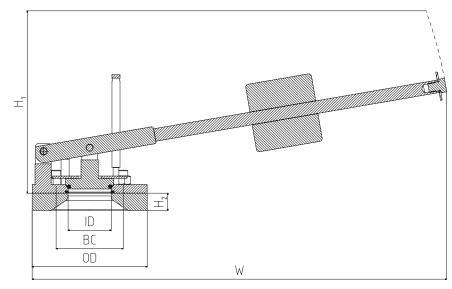
Actuator for force opening		
Max. air supply	10 bar / 145 psi	
Min. air supply	5 bar / 72.5 psi	

Noise	
Noise of actuator	75 dB(A)

Weight

Nominal size	Set pressure range	Weight
	0.2 -0.3 bar / 2.9-4.35 psi	10.8 kg
	0.4 bar / 5.8 psi	12.8 kg
	0.5 -0.6 bar / 7.3-8.7 psi	14.8 kg
	0.5 -0.6 bar / 7.3-8.7 psi	14.8 kg
75 mm / 3"	0.7-1.0 bar / 10.2-14.5 psi	18.8 kg
	1.1-1.3 bar / 16-18.9 psi	20.8 kg
	1.4-2.1 bar / 20.3-30.5 psi	24.8 kg
	2.2-2.9 bar / 32-42 psi	29.8 kg
	3.0-3.5 bar / 43.5-50.8 psi	38.8 kg
	0.2 -0.3 bar / 2.9-4.35 psi	12.9 kg
	0.4-0.7 bar / 5.8-10.2 psi	14.9 kg
100 mm / 4"	0.8-1.4 bar / 11.6-20.3 psi	24.9 kg
	1.5-1.8 bar / 21.8-26.1 psi	29.9 kg
	1.9-2.5 bar / 27.6-36.3 psi	38.9 kg
	0.4-0.8 bar / 5.8-11.6 psi	41.5 kg
150 mm / 6"	0.9-1.2 bar / 13.1-17.4 psi	50.5 kg
	1.3-1.5 bar / 18.9-21.8 psi	62.5 kg

Interface requirements



ID = Inside diameter

BC = Bolt circle

OD = Outside diameter

Interface requirements (mm)

Nominal size	ID	вс	OD	Bolts	Н1	H2	w
75 / 3"	75 / 2.95"	165 / 6.5"	200 / 7.87"	4xM16	375 / 14.76"	30 / 1.18"	740 / 29.13"
100 / 4"	100 / 3.94"	165 / 6.5"	200 / 7.87"	4xM16	375 / 14.76"	30 / 1.18"	740 / 29.13"
150 / 6"	150 / 5.91"	230 / 9.06"	270 / 10.63"	8xM16	430 / 16.93"	30 / 1.18"	1050 / 41.34"

7.2 Physical Data

Materials	
Product wetted steel parts:	EN 1.4404 (AISI 316L) with 3.1 cert.
Product wetted steel surfaces:	Surface roughness Ra< 0.8 μm (32 μin")
Product wetted seals:	EPDM

8 Spare Parts

For every delivered Alfa Laval Product, a spare part list is available.

This spare part list contains a range of the most common wear parts for the machinery. If any component not mentioned is required, please contact your local Alfa Laval representative for availability.

You can find our spare part catalogue at https://hygienicfluidhandling-catalogue.alfalaval.com.

Always use Alfa Laval genuine spare parts. The warranty of Alfa Laval products is dependent on use of Alfa Laval genuine spare parts.

8.1 Ordering Spare Parts

When ordering spare parts, please always state:

- **1.** Serial number (if available)
- 2. Item number/spare part number (if available)
- 3. Capacity or other relevant identification

8.2 Alfa Laval Service

Alfa Laval is represented in all larger countries of the world.

Do not hesitate to contact your local Alfa Laval representative, with any questions or requirement of spare parts for Alfa Laval equipment.

8.3 Warranty - Definition



The rules of Intended use are absolute. Use of the supplied Alfa Laval product is allowed only when in compliance with the technical data supplied with the Intended use.

Differing utilisation, other than agreed with Alfa Laval Kolding A/S, exclude any liability and warranty.

No modification or alteration of the supplied Alfa Laval product is allowed, unless explicit permission is granted by Alfa Laval Kolding A/S.



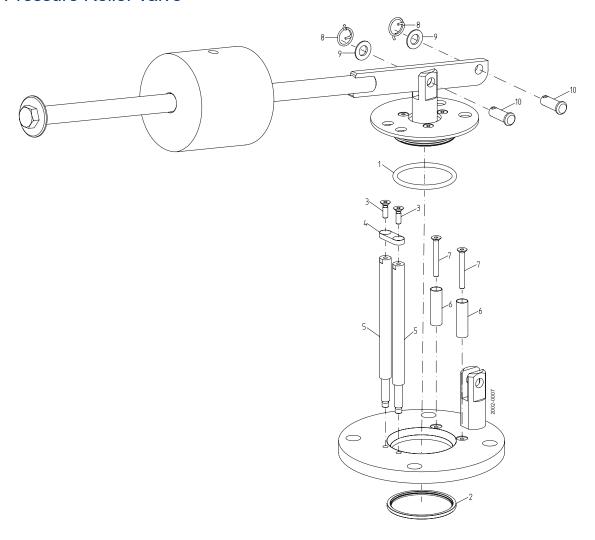
Liability and warranty are excluded:

- If advice and instruction of operating instructions are ignored
- For incorrect operation or for insufficient maintenance of the supplied Alfa Laval product
- For any kind of change of function of the supplied Alfa Laval product without prior written agreement by Alfa Laval Kolding A/S
- · If supplied Alfa Laval product is modified by non-authorised persons
- If using the supplied Alfa Laval product without attention of appropriate safety regulations, (see *Safety* on page 7)
- If protection equipment is not used and vessel process / ancillary equipment is not brought to a standstill
- If the supplied Alfa Laval product and ancillary parts are not properly maintained (to be executed in intervals and including fitting of prescribed replacement parts)

When exchanging parts, only original replacement parts, released from the manufacturer, must be used.

9 Parts Lists and Exploded Views

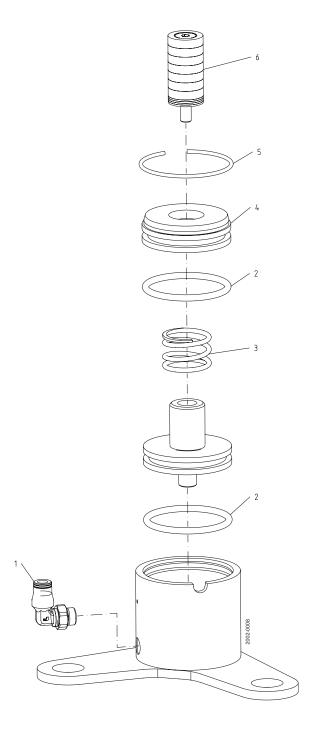
9.1 Pressure Relief Valve



Pos.	Qty.	Denomination
1	1	O-ring, EPDM
2	1	Gasket, EPDM
3	2	Screw
4	1	P.R.V. guide stop Ø150/6"
4	1	P.R.V. guide stop Ø75/3" - Ø100/4"
5	2	P.R.V. guide pin

Pos.	Qty.	Denomination
6	2	P.R.V. guide pin small
7	2	Screw
8	2	Locking ring
9	2	Washer
10	2	Bearing tap

9.2 Force Opener



Pos.	Qty.	Denomination
1	1	Air fitting
2	2	O-ring, NBR
3	1	Spring

Pos.	Qty.	Denomination
4	1	Force opener cover
5	1	Locking ring
6	1	Spacer kit