KIESELMANN
FLUID PROCESS GROUP

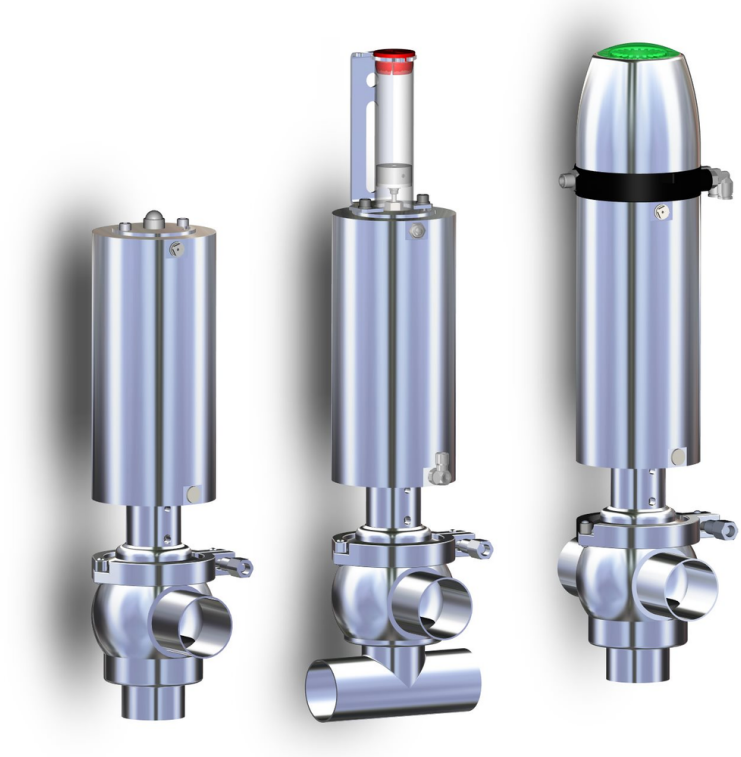
Translation of the original

Operating Instructions

KI-DS Overflow valve

Type 557x

KI-DS Angle valve **5571**
KI-DS T-valve **5572**
KI-DS Cross valve **5573**
KI-DS Loop valve **5575**



KIESELMANN GmbH

Paul-Kieselmann-Str. 4-10
D - 75438 Knittlingen

☎ +49(0) 7043 371-0 • 🖷 +49(0) 7043 371-125
www.kieselmann.de • info@kieselmann.de

Copyright: © KIESELMANN FLUID PROCESS GROUP

Table of contents

1 General informations 4
1.1 Informations for your safety 4
1.2 Marking of security instructions 4
1.3 General designated use 4
1.4 Personnel 4
1.5 Modifications, spare parts, accessories 5
1.6 General instructions 5
2 Safety instructions 6
2.1 Intended use 6
2.2 General notes 6
2.3 General safety instructions 6
3 Delivery, transport and storage 7
3.1 Delivery 7
3.2 Transport 7
3.3 Storage 7
4 Specification 8
4.1 Modular system 8
4.2 Valve types 9
5 Function and operation 10
5.1 Description of function 10
5.1.1 Adjusting range / Actuator type 10
5.2 Opening & closing characteristics 10
5.3 Control system and position indicator 11
5.4 Pneumatic valve activation 11
5.5 Pressure setting 12
6 Commissioning, service and maintenance 13
6.1 Commissioning 13
6.1.1 Installation instructions 13
6.1.2 General welding guidelines 13
6.1.3 Use in EX area 13
6.2 Service 14
6.3 Cleaning 14
7 Technical data 15
8 Disassembly and assembly 16
8.1 Disassembly 16
8.2 Assembly 19
9 Drawings and dimensions 21
9.1 Drawings 21
9.2 Dimensions 22
9.3 Control units 24
10 Wearing parts 25
10.1 Wearing parts 25
11 Appendix 27
11.1 Declaration of incorporation 27

1 General informations

1.1 Informations for your safety

We are pleased that you have decided for a high-class KIESELMANN product. With correct application and adequate maintenance, our products provide long time and reliable operation.

Before installation and initiation, please carefully read this instruction manual and the security advices contained in it. This guarantees reliable and safe operation of this product and your plant respectively. Please note that an incorrect application of the process components may lead to great material damages and personal injury.

In case of damages caused by non observance of this instruction manual, incorrect initiation, handling or external interference, guarantee and warranty will lapse!

Our products are produced, mounted and tested with high diligence. However, if there is still a reason for complaint, we will naturally try to give you entire satisfaction within the scope of our warranty. We will be at your disposal also after expiration of the warranty. In addition, you will also find all necessary instructions and spare part data for maintenance in this instruction manual. If you don't want to carry out the maintenance by yourself, our KIESELMANN - service team will naturally be at your disposal.

1.2 Marking of security instructions

Hints are available in the chapter "safety instructions" or directly before the respective operation instruction. The hints are highlighted with a danger symbol and a signal word. Texts beside these symbols have to be read and adhered to by all means. Please continue with the text and with the handling at the valve only afterwards.

Symbol	Signal word	Meaning
	DANGER	Imminent danger which will result severe personal injury or death.
	WARNING	Imminent danger which may result severe personal injury or death.
	CAUTION	Dangerous situation which may cause slight personal injury or material damages.
	NOTICE	An harmful situation which may result in damages of the product itself or of adjacent vicinity.
	INFORMATION	Marks application hints and other information which is particularly useful.

1.3 General designated use

The fitting is designed exclusively for the purposes described below. Using the fitting for purposes other than those mentioned is considered contrary to its designated use. KIESELMANN cannot be held liable for any damage resulting from such use. The risk of such misuse lies entirely with the user. The prerequisite for the reliable and safe operation of the fitting is proper transportation and storage as well as competent installation and assembly. Operating the fitting within the limits of its designated use also involves observing the operating, inspection and maintenance instructions.

1.4 Personnel

Personnel entrusted with the operation and maintenance of the tank safety system must have the suitable qualification to carry out their tasks. They must be informed about possible dangers and must understand and observe the safety instructions given in the relevant manual. Only allow qualified personnel to make electrical connections.

1.5 Modifications, spare parts, accessories

Unauthorized modifications, additions or conversions which affect the safety of the fitting are not permitted. Safety devices must not be bypassed, removed or made inactive. Only use original spare parts and accessories recommended by the manufacturer.

1.6 General instructions

The user is obliged to operate the fitting only when it is in good working order. In addition to the instructions given in the operating manual, please observe the relevant accident prevention regulations, generally accepted safety regulations, regulations effective in the country of installation, working and safety instructions effective in the user's plant.

2 Safety instructions

2.1 Intended use

The overflow valve is used to set the liquid pressure in a section of a closed circular pipeline, in tanks and vessels in plants of the food and drink industry, pharmaceutical and chemical industries as well as in biotechnology.

2.2 General notes



NOTICE - observe the operating instructions

To avoid danger and damage, the fitting must be used in accordance with the safety instructions and technical data contained in the operating instructions.



NOTICE

All data are in line with the current state of development. Subject to change as a result of technical progress.

2.3 General safety instructions



⚠ WARNING

Risk of injury by moving parts

Do not grab into the valve when the actuator is pressurized. Limbs can be crushing or amputating.

- Remove the control air line before dismantling.
- Ensure that the actuator is unpressurized.



⚠ WARNING

Risk of injury by outflowing medium

Dismantling the valve or valve assemblies from the plant can cause injuries.

- Medias flowing through the leakage drain outlet are to be drained off without splashing into a discharge arrangement.
- Carry the disassembling only if when the plant has been rendered pressure-less and free of liquid and gas.



⚠ CAUTION

When mounting the clamps, the max. torque must not be exceeded.

(see technical data)



⚠ CAUTION

To avoid air leaking, only use pneumatic connection parts that have an O-ring seal facing the even surface.



⚠ CAUTION

Before starting the system, the entire pipeline system must be thoroughly cleaned.



⚠ CAUTION

Steps should be taken to ensure that no external forces are exerted on the fitting.

3 Delivery, transport and storage

3.1 Delivery

- Immediately after receipt check the delivery for completeness and transport damages.
- Remove the packaging from the product.
- Retain packaging material, or expose of according to local regulations.

3.2 Transport



⚠ CAUTION

Risk of injury and damage to the product

During the transport the generally acknowledged rules of technology, the national accident prevention regulations and company internal work and safety regulations must be observed.

3.3 Storage



NOTICE

Damage to the product due to improper storage!

Observe storage instructions

avoid a prolonged storage



INFORMATION

Recommendation for longer storage

We recommend regularly checking the product and the prevailing storage conditions during long storage times.

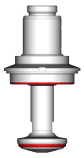
- To avoid damage to seals and bearings,
  - products up to DN 125 / OD 5 inch should be stored horizontally for maximum 6 months.
  - products larger than DN 125 / 5 inch, should be stored in the upright position with the actuator on top.
- Don't store any objects on the products.
- Protect the products for wetness, dust and dirt.
- The product should be stored in a dry and well ventilated room at a constant temperature (optimal indoor temperature: 25 C ±5 ; indoor humidity data 60% ±5%).
- Protect seals, bearings and plastic parts for UV light and ozone.

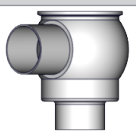
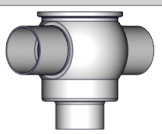
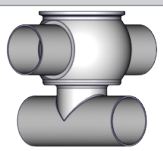
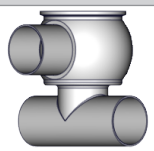
4 Specification

4.1 Modular system

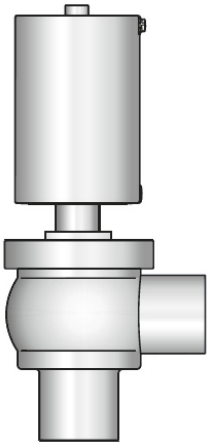
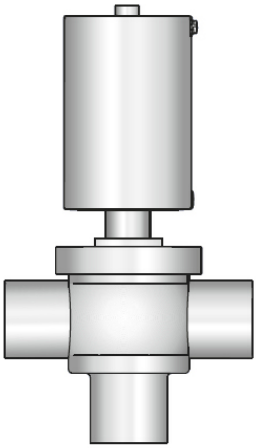
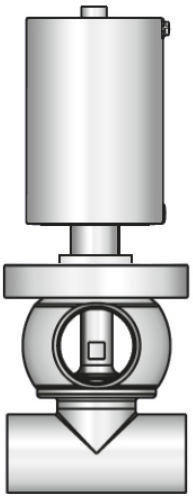
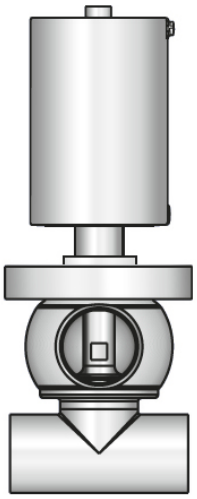
KI-Top control head		feedback unit
		
Stainless steel hood	Transparent hood	Feedback unit with finger guard (E)

Linear actuator pneumatic	
	
Ø129	Ø167

Valve insert

HNBR, EPDM

Valve housing			
			
S - S Angle valve Type 5571	SS - S T-valve Type 5572	SS - SS Cross valve Type 5573	S - SS Loop valve Type 5575

4.2 Valve types

Standard valve with welding connections			
Angle valve **S - S** **Type 5571**	**t-valve** **SS - S** **Type 5572**	**cross valve** **SS - SS** **Type 5573**	**Loop valve** **S - SS** **Type 5575**
			

5 Function and operation

5.1 Description of function

The overflow valve is used to relieve pressure in plants or vessels event of impermissible pressures of liquid media. The leaking medium can be discharged controlled to the atmosphere or can be fed back into a closed system or forwarded.

5.1.1 Adjusting range / Actuator type

There are two types of actuator (Ø 104 mm and Ø 167 mm) available for overflow valves type 557x. Both drive types are equipped with different pressure springs. A total of 5 different drive variables are obtained which are used depending on the nominal width for the appropriate setting ranges.

Nominal size	Adjusting range [bar]	Actuator Type Ø104			Actuator Type Ø167	
		No. 1	No. 3	No. 4	No. 6	No. 8
DN 25 1"	0,5 - 5,0	X				
	3,0 - 10,0		X			
	7,0 - 14,0			X		
DN 40 1½"	0,5 - 5,0	X				
	3,0 - 10,0		X			
	7,0 - 14,0			X		
DN 50 2"	0,5 - 7,0		X			
	3,0 - 10,0			X		
	9,0 - 15,0					X
DN 65 2½"	0,5 - 4,0		X			
	2,0 - 6,5				X	
	7,0 - 14,0					X
DN 80 3"	0,5 - 3,0		X			
	2,0 - 5,5				X	
	4,0 - 10,5					X
DN 100 4"	0,5 - 4,0				X	
	3,0 - 7,0					X

5.2 Opening & closing characteristics

- Opening and closing characteristics for liquids (water) 20°C

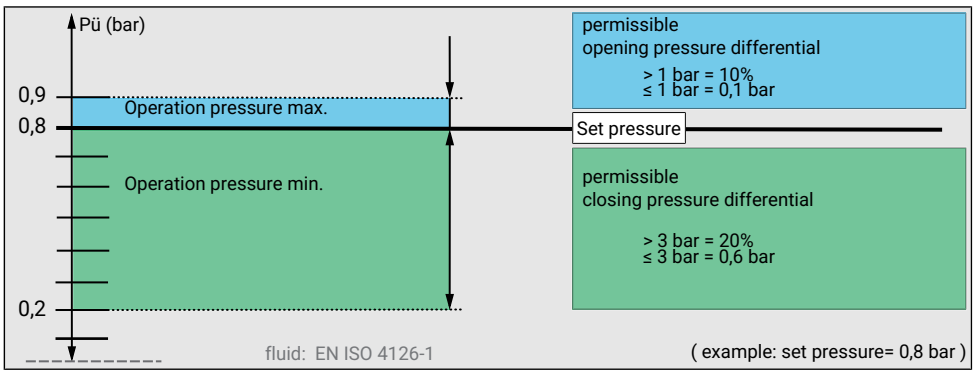


Fig. 1

5.3 Control system and position indicator



Feedback unit -optional-

Optionally, modular valve control head systems can be installed to the actuator for reading and actuating valve positions. The standard version is a closed system with SPS or ASI-bus switch-on electronics, and integrated 3/2-way solenoid valves. For tough operating conditions we recommend employing a high-grade steel cover.

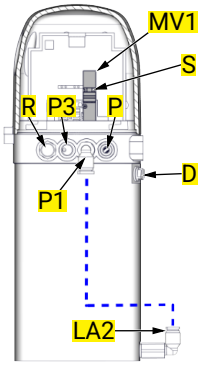
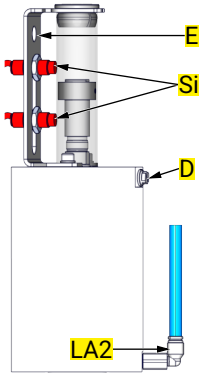


Feedback unit with finger guard -optional-

For the acquisition of the valve positions over inductive initiators (Sensors), a feedback unit is mounted on the actuation. The enquiry takes place over the position of the piston rod.

5.4 Pneumatic valve activation

Valve function	Pneum. activation via control head with solenoid valves (MV)	Pneum. activation via external solenoid valves (MV external)
Valve OPEN by pressurised air	control air feed P ➞ MV1 ➞ P1/LA2	control air feed ext. MV ➞ LA2
Valve CLOSED by spring tension	de-aeration LA2/P1 ➞ MV1 ➞ R	de-aeration LA2 ➞ ext. MV

	Control Head with solenoid valve	external pneum. activation
D = De-aeration E = mounting kit for feedback unit LA = air supply MV = solenoid valve P = compressed-air inlet (control unit) R = de-aeration, sound absorber S = Slide switch, manual operation of solenoid valve Si = Sensors M12x1		

5.5 Pressure setting

Adjustment of the set pressure

The adjustment of the set pressure, respectively the opening pressure difference is done by turning the hexagon head (SW14) of the adjusting rod (13). Since the adjusting rod (13) is not directly connected to obturator the adjustment can be done very easily during regular operation.

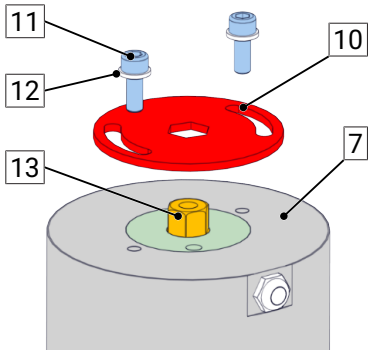
The setting will be locked by assembling the locking disc (10).

NOTICE

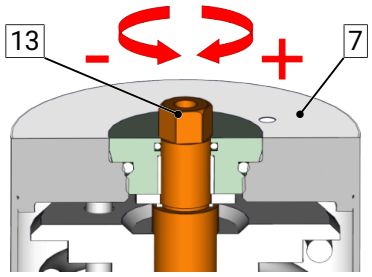
All threaded joint have right-hand thread.

Unscrew and remove control air, steam resp. cleaning lines and electrical lines, complete feedback unit or control head.

- Unscrew the screws (11) and remove the locking disc (10).
- Adjust the set pressure using the hexagon head (SW14) of the adjusting rod (13).



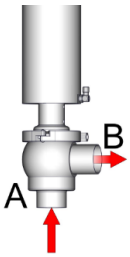
- Increase spring tension
  - turn the hexagon head (13) clockwise (+)
- Reduce spring tension
  - turn the hexagon head (13) counterclockwise (-)
- Assembly the locking disc (10) to lock the setting.



6 Commissioning, service and maintenance

6.1 Commissioning

6.1.1 Installation instructions



Fitting position

The valve must be installed vertically with the actuator at the upwards. Liquid must be able to flow freely from the valve housing.

Valves with a set pressure of 0.5 bar are generally installed vertically.

6.1.2 General welding guidelines

Sealing elements integrated in weld components must generally be removed prior to welding. To prevent damage, welding should be undertaken by certified personnel (EN ISO 9606-1). Use the TIG (Tungsten Inert Gas) welding process.



⚠ CAUTION

Damage and injuries due to high temperature supply

To avoid a distortion of the components, all welding parts must be welded to stress-relieved.

Allow all components to cool before assembling.



NOTICE

Damage due to impurities

Impurities can cause damage to the seals and seals area.

Clean inside areas prior to assembly.

6.1.3 Use in EX area

For valves or plants/installations that are operated in the ATEX area, sufficient bonding (grounding) must be ensured. (see e.g. ATEX Directives EC; UKSI 696:2019-Schedule 25)

6.2 Service

RECOMMENDATION

Replacement of seals

To achieve optimal maintenance cycles, the following points must be observed!

- When replacement of seals, all product-contacting seals should be replaced.
- Only original spare parts may be installed.

Maintenance interval

The maintenance intervals depend on the operating conditions "temperature, temperature-intervals, medium, cleaning medium, pressure and opening frequency". We recommend replacing the seals 1-year cycle. The user, however should establish appropriate maintenance intervals according to the condition of the seals.

Lubricant recommendation

	EPDM; HNBR; NBR; PTFE; FKM; k-flex	-	Klüber Paraliq GTE703*
	Silicone	-	Klüber Sintheso pro AA2*
	Thread	-	Interflon Food*

*) It is only permitted to use approved lubricants, if the respective fitting is used for the production of food or drink. Please observe the relevant safety data sheets of the manufacturers of lubricants.

Maintenance - Lift actuator

The actuator is maintenance-free and non-removable.

6.3 Cleaning

Cleaning

Ideally, cleaning is carried out with pipe system cleaning when the valve is open.

7 Technical data

Model	Overflow valve spring close • pneumatic lifting • optional with feedback unit	
Valve type	Type 5571 Angle valve Type 5572 T-valve Type 5573 Cross valve Type 5575 Loop valve	
Size	DN25 - DN100 OD 1 Inch - OD 4 Inch	
Connection type	Welding end	EN 10357, Series A DIN 11866, serie C
	Liner connection	DIN 11851
	Threaded piece	DIN 11851
Temperature range	Ambient temperature: (air)	+4° to +45°C
	Operating temperature: (depends on medium)	+0° to +95°C
	Sterilisation temperature: (SIP 30 min)	EPDM +140°C HNBR +120°C FKM +140°C
Leakage rate	A (EN 12266-1)	
Control air pressure	5,5 - 8,0 bar	
Quality of control air:	ISO 8573-1:2010 [3:(≤5 µm):4:4]	
Nominal pressure	PN 16	
Set pressure	DN 25 / 1“ = 0,5 - 14,0 bar DN 40 / 1½“ = 0,5 - 14,0 bar DN 50 / 2“ = 0,5 - 15,0 bar	DN 65 / 2½“ = 0,5 - 14,0 bar DN 80 / 3“ = 0,5 - 10,5 bar DN100 / 4“ = 0,5 - 7,0 bar
Material (in contact with product)	Stainless steel: Surface: Sealing material:	1.4301 / AISI 304 1.4404 / AISI 316L Ra ≤ 0,8µm, e-polished EPDM HNBR FKM

Torque: clamp coupling

DN	**25**	**40**	**50**	**65**	**80**	**100**
Inch	**1**	**1½**	**2**	**2½**	**3**	**4**
Torque [Nm]	15	15	15	25	25	55

8 Disassembly and assembly

8.1 Disassembly

Assembly Tools

Item	Figure	Designation		Article number
T1		Combination wrench-Set	SW 8 - SW 24	-
T2		Allen key - Set	1.5 - 10	-
T10		Joint -pin wrench	Pin Ø6	8027000065-000
T11		Hinged hook wrench	DN25 - DN100 90/155 V2A	8028025100-020
T12a		Articulated face wrench	40-80mm, Pin Ø6	8028340080-000

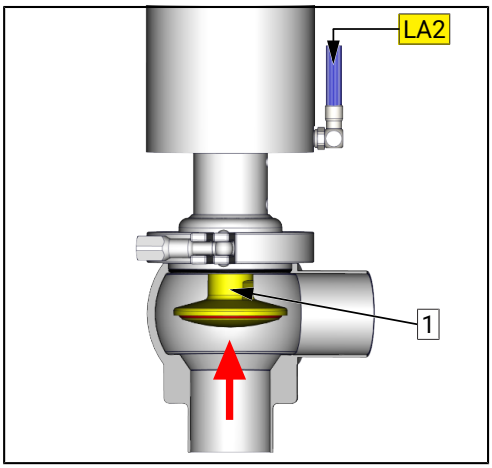
NOTICE

All threaded joint have right-hand thread.

Unscrew and remove control air, steam resp. cleaning lines and electrical lines, complete feedback unit or control head.

Assembly valve insert

- Connect compressed air to LA2 and pressurize the actuator with air.
  - The piston (1) retracts.

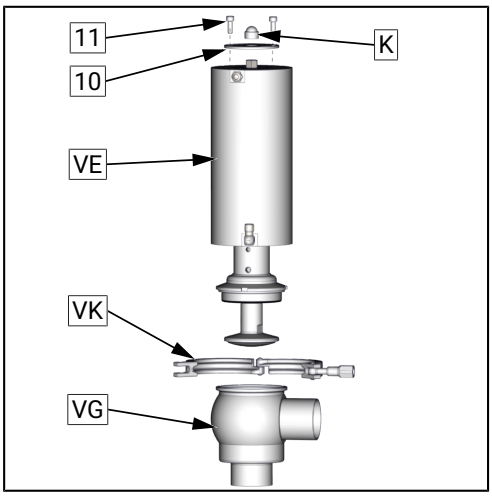


- Unscrew the clamp coupling (VK).

  Dismount the valve insert (VE) out of the housing (VG).

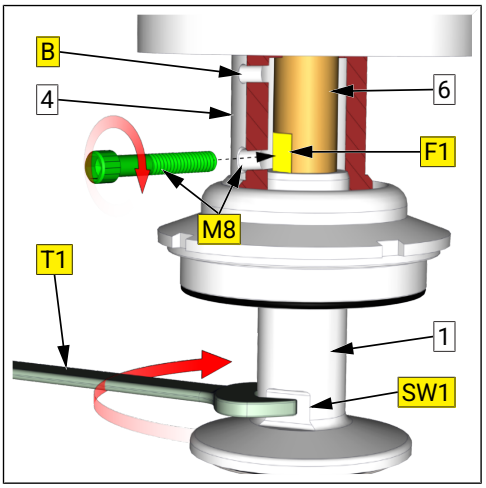
- Disconnect compressed air at air supply LA2.
  - The piston (1) returns to the basic position.

- Remove cap (K).
- Unscrew the screw (11) and remove the locking disc (10).

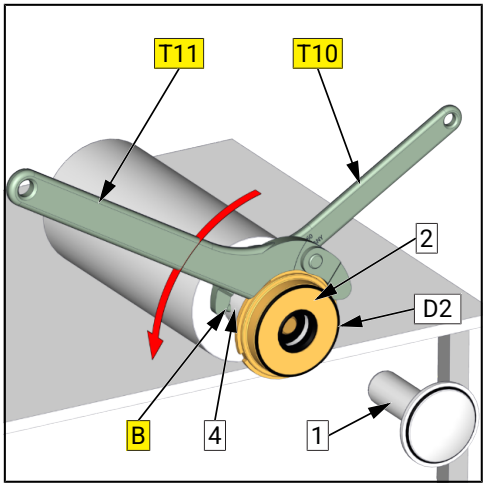


Replacement of seals - in product contact

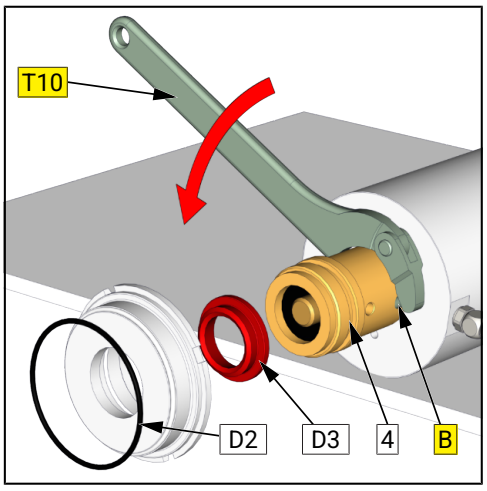
- Fix the piston rod (6). For this, screw a screw M8 into the lantern (4) as far as the surface (F1).
  - Unscrew the piston (1) with a wrench via spanner flat (SW1).



- Unscrew with a hook wrench (T11) the insert (2) from the lantern (4). For this, holding on the lantern with a pin wrench T10 at bore (B).



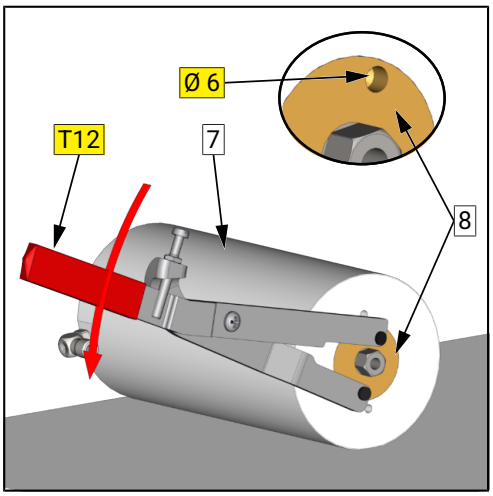
- Remove O-ring (2) and seal (D3).
- Unscrew the lantern (4) from the actuator (7) with a pin wrench T10 at bore (B) and remove it from piston rod (6).
- Remove the O-rings (D4) and (D5).



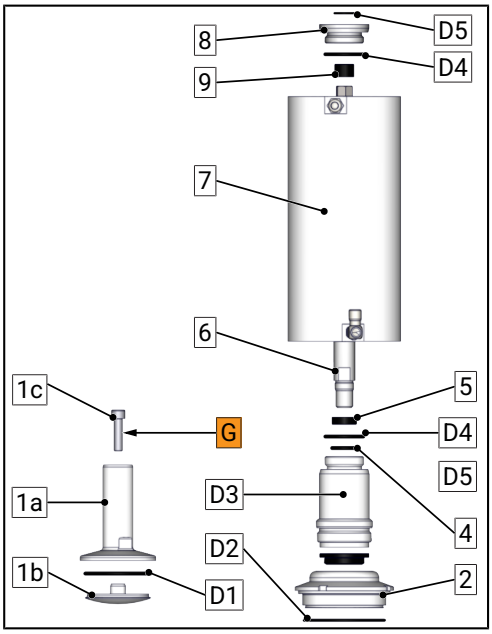
NOTICE!

The bearing bushes (3) and (5) and the O-rings (D4) and (D5) do not need to be removed for a product-contacted seal change. The positions are not included in the seal set. If they are worn,please order them (see wearing parts kit).

- Unscrew the insert (8) from the actuator (7) with a pin type face spanner T12.
- Remove the O-rings (D4) and (D5).



- Unscrew the screw (1c) from actuator (1a). Remove the plate (1b) nd O-ring (D1) from piston (1a).



8.2 Assembly

- Before installation, thoroughly clean and slightly lubricate mounting areas and running surfaces.

NOTICE

Mount the threaded connection (G) with Screw retention detachable (e.g. Loctite 243) .

- Assemble in reverse order.
- Check the function according to the specified performance data in the operating state.

NOTICE

During assembly, the following points must be observed!

Carefully fit in the complete valve insert into the casing. When fitting the valve insert and running surfaces onto the piston, do not damage.

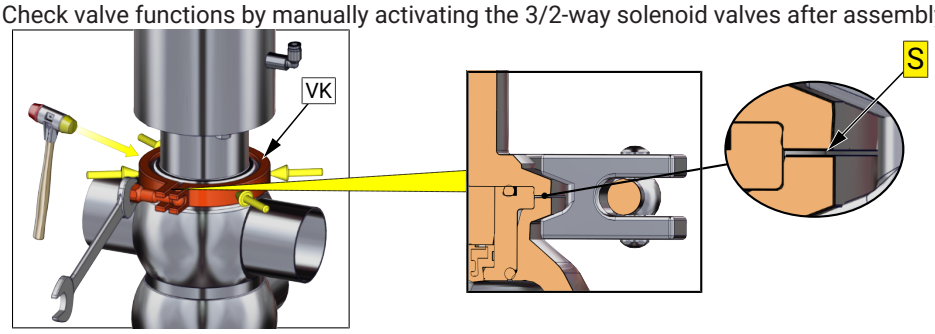
➢ **Mounting clamp coupling**

– For mounting the clamp coupling, please note that it continuously fits form locking to the inclinations of the casing and the lantern/casing bottom.

– The centring of the retaining clamp during tightening can be accomplished with a slight beat (please use a soft-head hammer) on the extent of the retaining clamp.

– When tightening the clamp coupling, please pay attention to the turning moment and the gap size 'S' (≤ 0,4mm) between the components.

– Check valve functions by manually activating the 3/2-way solenoid valves after assembly!

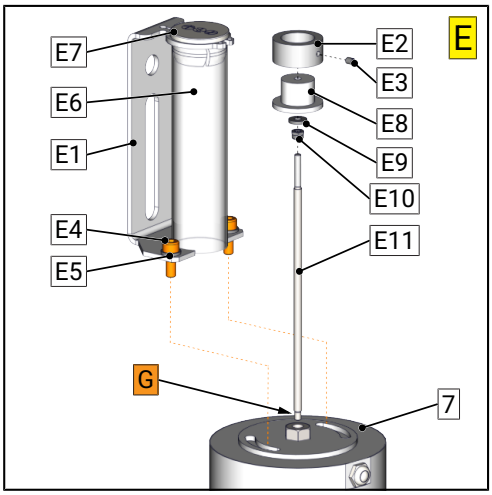


Torque: clamp coupling

DN	25	40	50	65	80	100
Inch	1	1½	2	2½	3	4
Torque [Nm]	15	15	15	25	25	55

Assembly - Feedback unit (E)

- Unscrew the screws (E4).
- Remove the bracket (E1) complete with cover (E7) and sleeve (E6).
- Unscrew switch shaft (E11) complete with (E2), (E3), (E8), (E9) and (E10) from actuator (7).
- Loosen the set screw (E3) from switch cam (E2).
- Remove switch cam (E2) from adapter (E8).

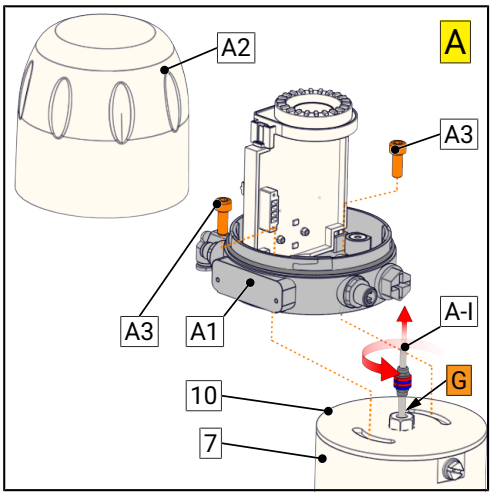


NOTICE

Mount the threaded connection (G) with Screw retention detachable (e.g. Loctite 243) .

Assemble - Control head (A)

- Remove the cover (A2) (bayonet lock).
- Unscrew screws (A3).
- Remove the control head housing (A1) complete with attachments.
- Remove locking disc (10).
- Unsrew the pulse generator (A-I) complete from actuator (7).



NOTICE

Mount the threaded connection (G) with Screw retention detachable (e.g. Loctite 243) .

9 Drawings and dimensions

9.1 Drawings

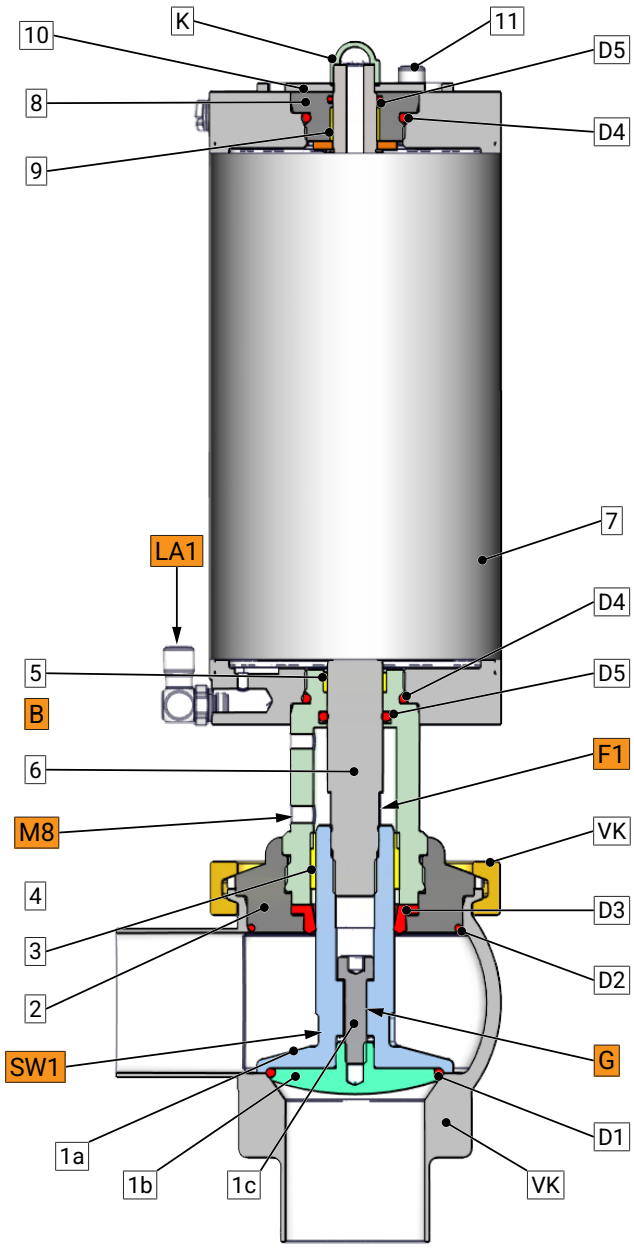
Standard valve - Angle version

- 1a = Piston
- 1b = Piston plate
- 1c = Screw
- 2 = Insert
- 3 = Bearing bush
- 4 = Lantern
- 5 = Bearing bush
- 6 = Piston rod
- 7 = Actuator
- 8 = Insert lantern
- 9 = Bearing bush
- 10 = Locking disc
- 11 = Screws

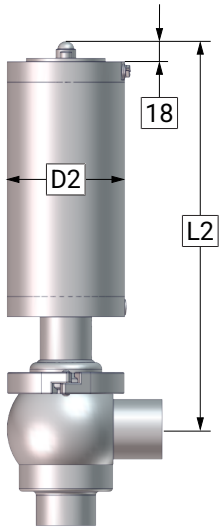
seals

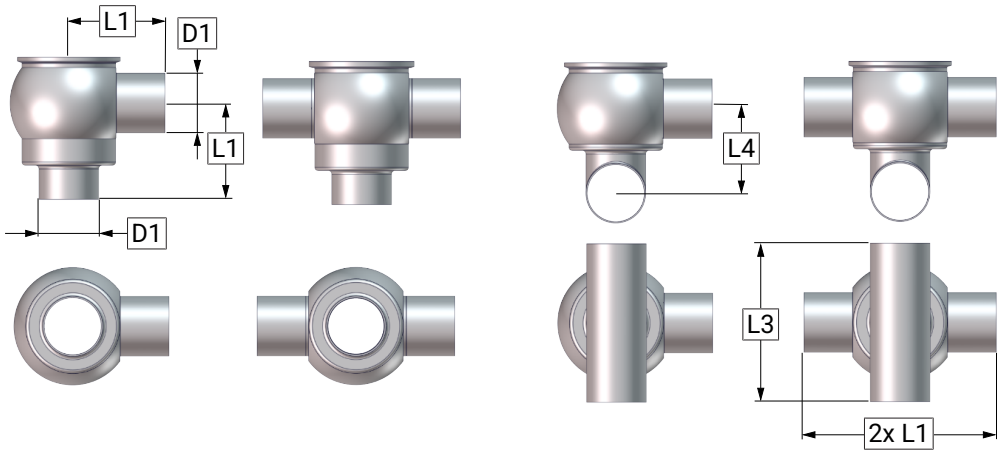
- D1 = O-ring
- D2 = O-ring
- D3 = Shaft seal
- D4 = O-ring
- D5 = O-ring

- B = Hole
- K = Cap
- F1 = Flat
- G = Thread connection secure
- with threaded connection "removable"
- (e.g. Loctite 243)
- LA1 = Air supply (stroke)
- M8 = Thread M8
- SW = Wrench size
- VG = Angle - Valve housing
- VK = Clamp coupling



9.2 Dimensions



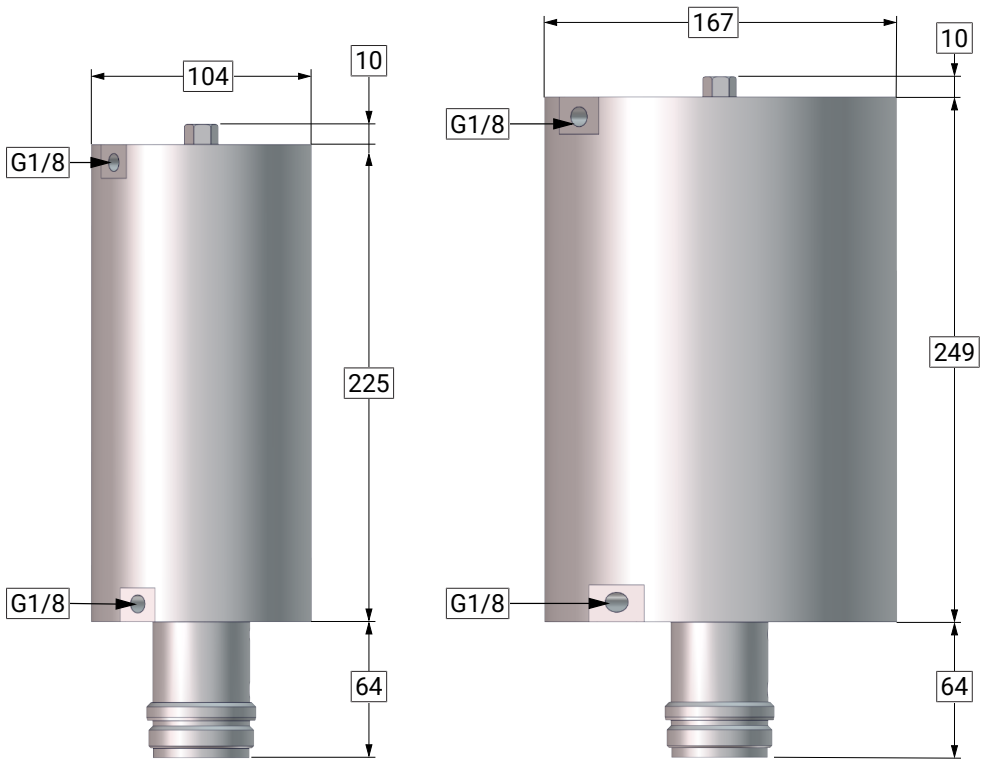


Nominal size	Adjusting range	Actuator	Dimension				
	[bar]	D2	D1	L1	L2	L3	L4
DN 25	0,5 - 5,0	Ø104	Ø 29 x 1,5	75	333	100	57
	3,0 - 10,0	Ø104					
	7,0 - 14,0	Ø104					
DN 40	0,5 - 5,0	Ø104	Ø 41 x 1,5	85	328	120	66
	3,0 - 10,0	Ø104					
	7,0 - 14,0	Ø104					
DN 50	0,5 - 7,0	Ø104	Ø 53 x 1,5	85	343	140	74,5
	3,0 - 10,0	Ø104					
	9,0 - 15,0	Ø167			367		
DN 65	0,5 - 4,0	Ø104	Ø 70 x 2,0	105	351	160	96
	2,0 - 6,5	Ø167			375		
	7,0 - 14,0	Ø167					
DN 80	0,5 - 3,0	Ø104	Ø 85 x 2,0	115	358	180	122
	2,0 - 5,5	Ø167			382		
	4,0 - 10,5	Ø167					
DN 100	0,5 - 4,0	Ø167	Ø 104 x 2,0	130	390	200	144
	3,0 - 7,0	Ø167					

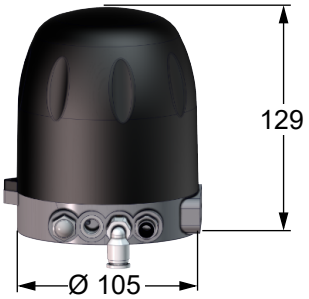
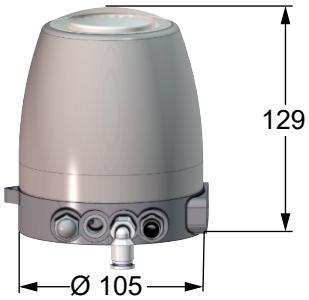
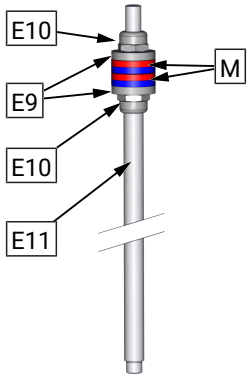
Nominal size	Adjusting range [bar]	Actuator D2	Dimension D1	L1	L2	L3	L4
OD 1“	0,5 - 5,0	Ø104	Ø 25,4 x 1,65	75	329	100	57
	3,0 - 10,0	Ø104					
	7,0 - 14,0	Ø104					
OD 1½	0,5 - 5,0	Ø104	Ø 38,1 x 1,65	85	335	120	66
	3,0 - 10,0	Ø104					
	7,0 - 14,0	Ø104					
OD 2“	0,5 - 7,0	Ø104	Ø 50,8 x 1,65	85	342	140	74,5
	3,0 - 10,0	Ø104					
	9,0 - 15,0	Ø167			366		
OD 2½“	0,5 - 4,0	Ø104	Ø 63,5 x 1,65	105	348	160	96
	2,0 - 6,5	Ø167			372		
	7,0 - 14,0	Ø167					
OD 3“	0,5 - 3,0	Ø104	Ø 76,2 x 1,65	115	354	180	122
	2,0 - 5,5	Ø167			378		
	4,0 - 10,5	Ø167					
OD 4“	0,5 - 4,0	Ø167	Ø 101,6 x 2,11	130	390	200	144
	3,0 - 7,0	Ø167					

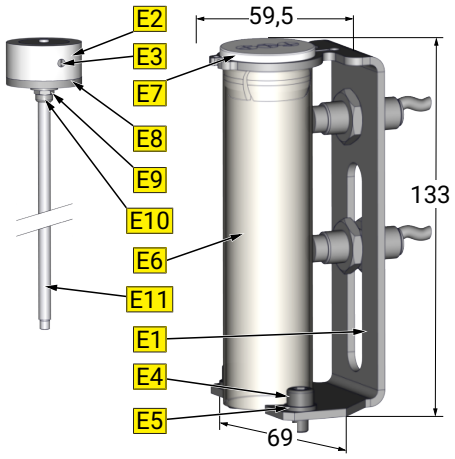
Actuator

Type Ø104 Actuator No. 1, No. 3, No. 4	Type Ø167 Actuator No. 6 and No. 8



9.3 Control units

<table>
<tr><th colspan="2">Control head KI-TOP</th></tr>
<tr><th>with plastic hood - transparent</th><th>with stainless steel hood</th></tr>
<tr><td>
</td><td>
</td></tr>
<tr><td><u>Pulse generator</u>
• E9 = Discs
• E10 = Nuts
• E11= Pin
• M = Magnets</td><td>
</td></tr>
</table>

<table>
<tr><th colspan="2">Feedback unit with finger guard (E)</th></tr>
<tr><td>• E1 = sensor mounting
• E2 = Switch cam
• E3 = Bolt
• E4 = Cap screws
• E5 = Discs
• E6 = Shell (finger guard)
• E7 = Cap
• E8 = Adapter
• E9 = Disc
• E10 = Nut
• E11 = Pin</td><td>
</td></tr>
</table>

10 Wearing parts

10.1 Wearing parts

Pos.	Material	Pcs.	DN 25 1 Inch	DN 40 1½ Inch	DN 50 2 Inch	DN 65 2½ Inch	DN 80 3 Inch	DN 100 4 Inch
3	XSM	1x	Bearing bush 8050 028 020-156					
5	XSM	1x	Bearing bush 8050 020 007-156					
9	GSM	1x	Bearing bush 8050 016 012-060					
			O-ring	O-ring	O-ring	O-ring	O-ring	O-ring
D1	EPDM	1x	2304 043 035-069	2304 043 035-069	2304 054 035-170	2304 071 035-069	2304 085 035-159	2304 104 035-159
	HNBR	1x	2304 043 035-050	2304 043 035-050	2304 054 035-050	2304 071 035-050	2304 085 035-050	2304 104 035-050
	FKM	1x	2304 043 035-051	2304 043 035-051	2304 054 035-051	2304 071 035-051	2304 085 035-051	2304 104 035-051
			O-ring	O-ring	O-ring	O-ring	O-ring	O-ring
D2	EPDM	1x	2304 069 026-159	2304 069 026-159	2304 069 026-159	2304 082 026-159	2304 098 035-159	2304 117 035-159
	HNBR	1x	2304 069 026-171	2304 069 026-171	2304 069 026-171	2304 082 026-050	2304 098 035-050	2304 117 035-171
	FKM	1x	2304 069 026-251	2304 069 026-251	2304 069 026-251	2304 082 026-051	2304 098 035-051	2304 117 035-051
			Shaft seal					
D3	EPDM	1x	5506 050 009-054					
	HNBR	1x	5506 050 009-050					
	FKM	1x	5506 050 009-251					
D4	NBR	2x	O-ring 2304 030 035-055					
D5	HNBR	2x	O-ring 2304 019 035-171					
D6	HNBR	2x	O-ring 2304 016 020-055					

Wear parts kit

- Seal (D1), (D2), (D3)

Material	DN 25 1 Inch	DN 40 1½ Inch	DN 50 2 Inch	DN 65 2½ Inch	DN 80 3 Inch	DN 100 4 Inch
EPDM	5571 025 990-054	5571 040 990-054	5571 050 990-054	5571 065 990-054	5571 080 990-054	5571 100 990-054
HNBR	5571 025 990-050	5571 040 990-050	5571 050 990-050	5571 065 990-050	5571 080 990-050	5571 100 990-050
FKM	5571 025 990-251	5571 040 990-251	5571 050 990-251	5571 065 990-251	5571 080 990-251	5571 100 990-251

11 Appendix

11.1 Declaration of incorporation

Declaration of Incorporation

according to Directive 2006/42/EC of the European Parliament and the Council of 17 May 2006

Manufacturer:
KIESELMANN GmbH
Paul-Kieselmann-Str. 4-10
D-75438 Knittlingen

We declare that the following pressure equipment

Designation	Function
Pneumatic Linear actuator	pneumatically operation of valves
Pneumatic Quarter-turn actuator	pneumatically operation of valves
Butterfly Valve (pneumatically operated)	Separation of medium flow
Ball Valve (pneumatically operated)	Separation of medium flow
Single seat Valve (pneumatically operated)	Separation of medium flow
Changeover Valve (pneumatically operated)	Separation of medium flow
Double-Seat mixproof Valve (pneumatically operated)	Separation of medium flow
Control Valve (pneumatically operated)	Regulation of medium flow
Throttling Valve (pneumatically operated)	Regulation of medium flow
Tank Outlet Valve (pneumatically operated)	Separation of medium flow
Sampling Valve (pneumatically operated)	Separation of medium flow

complies with the definition of an „incomplete machine“ according to Article 2 of the European Machinery Directive 2006/42/EG, when fitted in or merged with other machines or incomplete machines which also comply with the provision of the Directive.

Applied harmonized standards:

Directive 2014/68/EU
EN ISO 12100

Person responsible for documentation:

Achim Kauselmann
Documentation / Development
KIESELMANN GmbH

Knittlingen, 10.10.2020

i.V. Uwe Heisswolf
Head of Development

KIESELMANN
FLUID PROCESS GROUP

Notes

KIESELMANN GmbH

Paul-Kieselmann-Str. 4-10
D - 75438 Knittlingen

☎ +49(0) 7043 371-0 • 🖷 +49(0) 7043 371-125
www.kieselmann.de • info@kieselmann.de

Copyright: © KIESELMANN FLUID PROCESS GROUP