



guth ventile

FLUID PROCESS GROUP

Translation of the original

Operating Instructions

KI-DS Single seat valves

pneumatic und manual operation

Inclined seat valve: 5501, 5502

Angle valve: 5505, 5506

T-valve: 5507, 5508

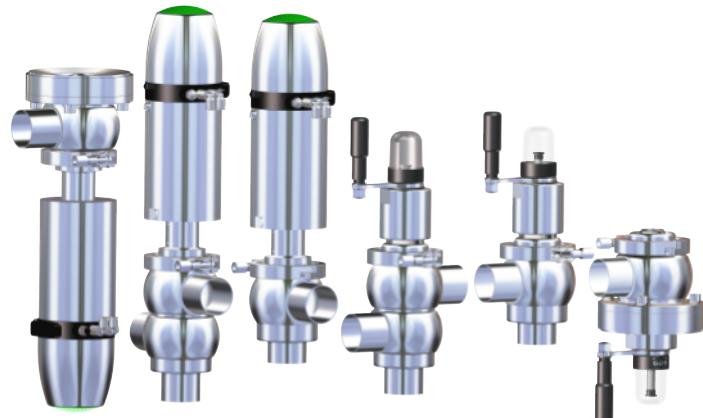
Cross valve: 5511, 5512

Two-way-changeover valve: 5513, 5514

Two-way-changeover valve: 5515, 5516

Loop valve: 5517, 5518

Tank outlet valve: 5527, 5528



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1 General informations

1.1 Informations for your safety

We are pleased that you have decided for a high-class Guth Ventiltechnik 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 Guth Ventiltechnik - 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. Guth Ventiltechnik 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 Single seat valve is used in the beverage and food industry, in pharmaceutical, bio-engineering, as well as in chemical engineering.

Inclined seat valves, Angle valves, T-valves, Cross valves, Loop valves and Tank outlet valves are used as manually or pneumatically controlled Shut-off valves, Change-over valves are used as Multi-port valves in industrial installations.

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 moving parts

When dismount the clamp coupling, the spring preloaded valve insert (air open - spring close) may incur serious injuries by jumping out of the housing.

- First pneumatically open the valve before disassembling the clamp coupling, so that up-stroke the piston.
 - Remove the valve core.
 - Remove the control air line at valve insert.
- ⇒ 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.



⚠ WARNING

ATEX - Guidelines

If the valve or the plant is operated in a potentially explosive atmosphere, the valid ATEX directive of the EC and the installation instructions in this operating manual must be observed.

**⚠ 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

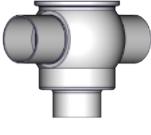
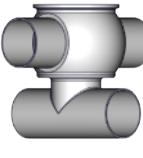
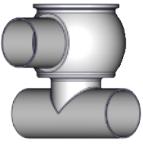
Recommendation for longer storage

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

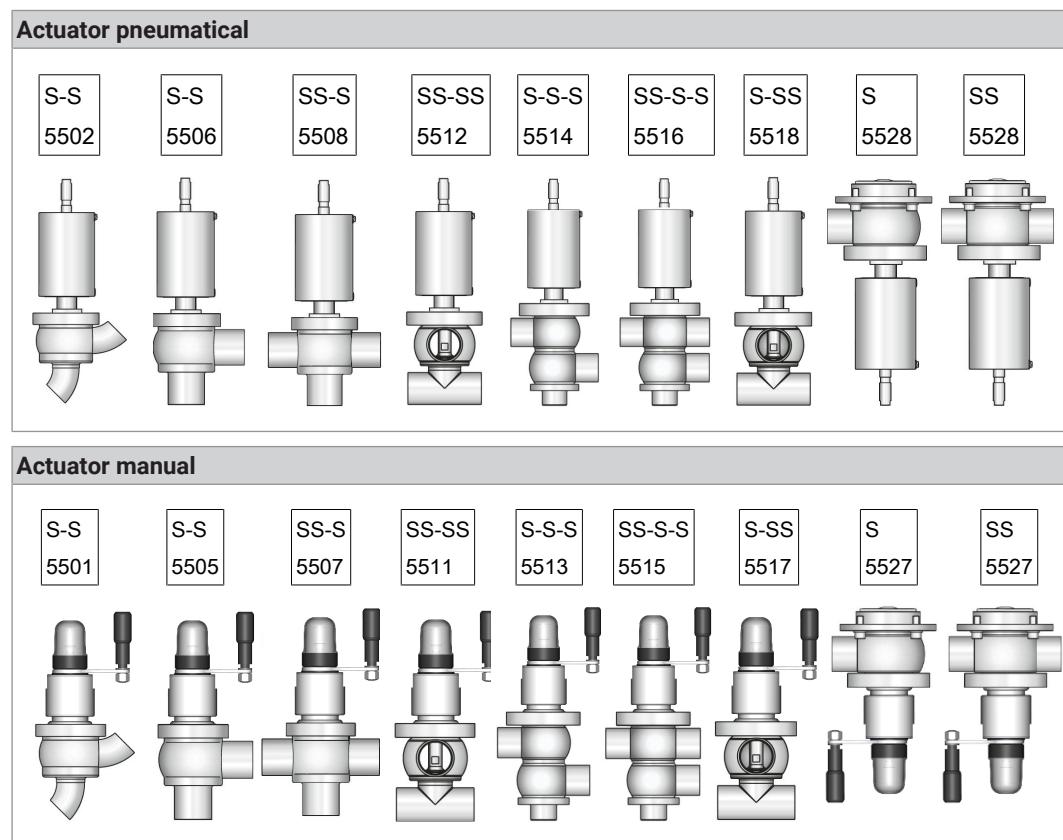
- To avoid damage to seals and bearings,
 - products up to DN 125 / OD 5 inch should be stored horizontally for maximum 6 months.
 - products larger than DN 125 / 5 inch, should be stored in the upright position with the actuator on top.
- Don't store any objects on the products.
- Protect the products 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 70% ±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)
Actuator manual	Actuator pneumatical	
	 Ø104	 Ø129
Manual operation	Ø167	Ø230
Valve inserts		
		for Changeover valves HNBR, EPDM, FKM
for Angle valves		
Valve housing		
		
Inclined seat valve	Angle valve	t-valve
	 	
cross valve	S-S-S Two-way-changeover valve	Loop valve
Tank outlet valve		

4.2 Valve types



5 Function and operation

5.1 Description of function

Valve function:	<ul style="list-style-type: none"> Inclined seat valve, Angle valve, T-valve, Cross valve, Loop valve, Tank outlet valve <ul style="list-style-type: none"> – Shut off fluid media in pipelines (see Fig.A and B) Changeover valve <ul style="list-style-type: none"> – Control fluid media in pipelines (see Fig.A and B)
Operation:	<ul style="list-style-type: none"> pneumatic operation by a lift drive (air/spring or air/air) manual operation by a crank-handle (open ⌈ / close ⌋)
Activation:	<ul style="list-style-type: none"> Pneumatically over a 3/2-way solenoid valve (see "Pneumatic valve activation")

Description of function - Lift actuator

Normally closed (NC) Basic position: Valve close	
pneum. operated	→ opens the valve
<u>undivided</u> pneum. operated	→ spring force closes the valve

normal open (NO) Basic position: Valve open	
pneum. operated	→ valve "CLOSE"
<u>undivided</u> pneum. operated	→ spring force opens the valve

double acting (DA) Basic position: not defined¹	
pneum. operated	→ opens the valve
<u>undivided</u> pneum. operated	→ valve "CLOSE"

1. The valve position is not defined in case of decrease of pressure in the compressed air line.

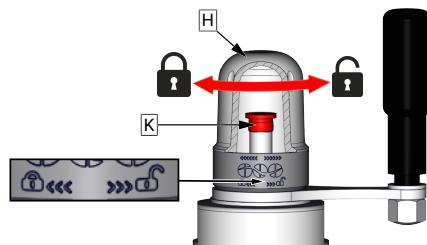
Manual drive

The valve is operated manually by turning the hand crank. Turn the hand wheel clockwise to close the valve, and counterclockwise to open it. The axial position of the hand crank remains unchanged. The valve position can be recognised by the position of the cap (K).

Locking device

The drive position can be fixed in any position.

The crank handle is clamped or released by turning the cover (H) clockwise or anti-clockwise.

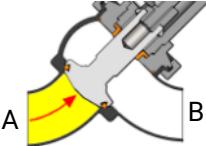
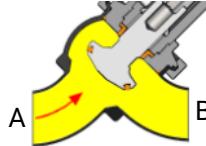
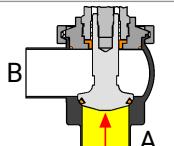
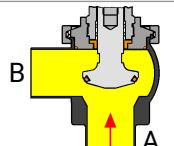
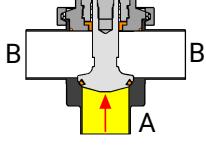
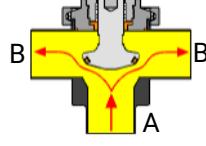
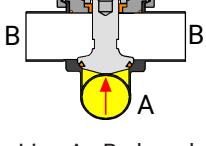
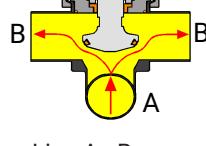
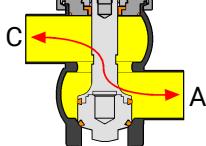
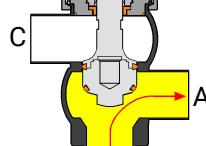
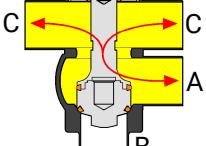
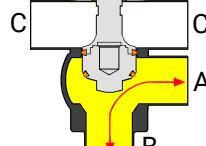


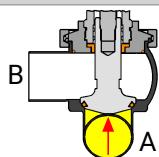
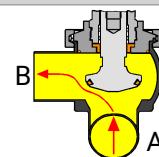
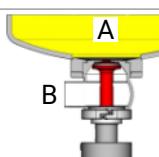
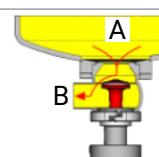
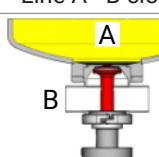
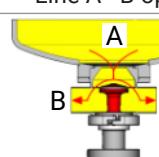
5.2 Valve basic position:



INFORMATION

- Actuator AIR/AIR : Valve assemblies with double acting actuators will fall into an undefined stroke position.
- Actuator AIR/SPRING: The basic position of the valve is closed or opened depending on the kind of actuator.

Basic positon: Kind of actuation:	Valve closed Normally closed (NC)	Valve open Normally open (NO)
Type: 5502 S-S Inclined seat valve	 <p>A → B Line A - B closed</p>	 <p>A → B Line A - B open</p>
Type: 5506 S-S Angle valve	 <p>B → A Line A - B closed</p>	 <p>B → A Line A - B open</p>
Type: 5508 SS-S t-valve	 <p>B → B A → A Line A - B closed</p>	 <p>B → B A → A Line A - B open</p>
Type: 5512 SS-SS cross valve	 <p>B → B A → A Line A - B closed</p>	 <p>B → B A → A Line A - B open</p>
Type: 5514 S-S-S Changeover valve	 <p>C → C A → A B → B Line A - B closed Line A - C open</p>	 <p>C → C A → A B → B Line A - B open Line A - C closed</p>
Type: 5516 SS-S-S Changeover valve	 <p>C → C A → A B → B Line A - B closed Line A - C open</p>	 <p>C → C A → A B → B Line A - B open Line A - C closed</p>

Basic position: Kind of actuation:	Valve closed Normally closed (NC)	Valve open Normally open (NO)
Type: 5518 S-SS Loop valve	 Section A - B closed	 Section A - B opened
Type: 5528 S Tank outlet valve	 Line A - B closed	 Line A - B open
Type: 5528 SS Tank outlet valve	 Section A - B closed	 Section A - B opened

5.3 Control system and position indicator



Feedback unit -optional-

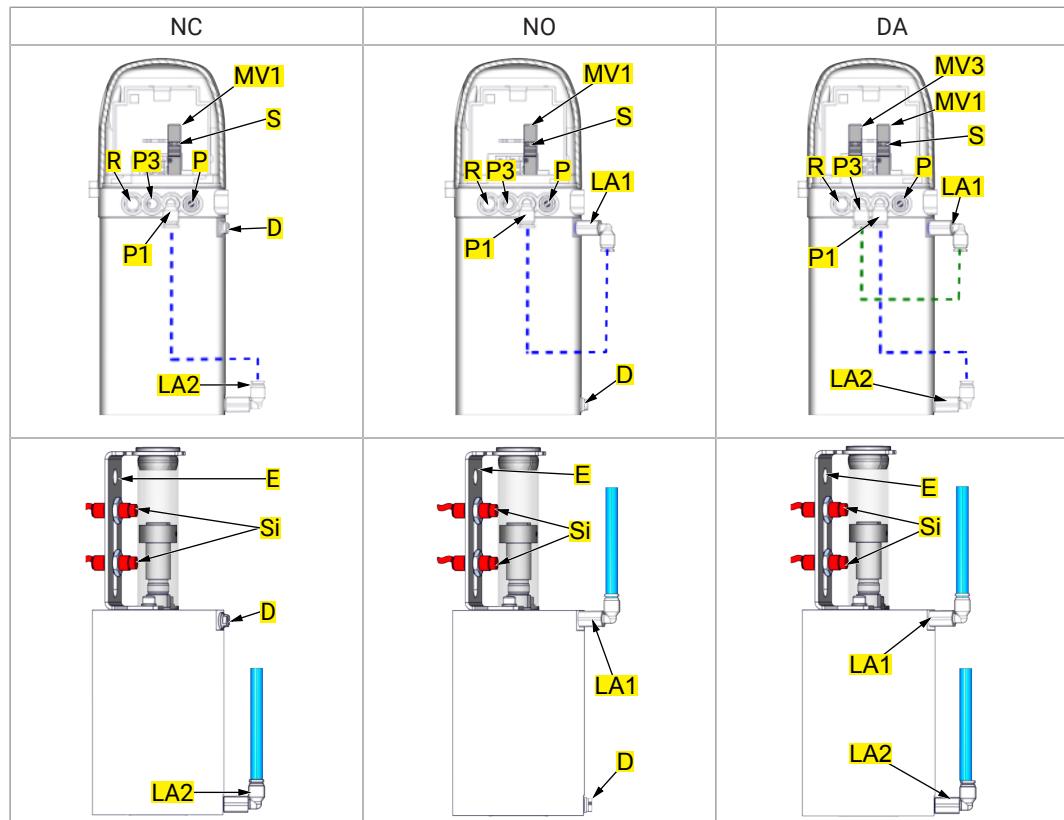
Optionally, modular valve control head systems can be installed to the actuator for reading and actuating valve positions. The standard version is a closed system with SPS or ASI-bus switch-on electronics, and integrated 3/2-way solenoid valves. For tough operating conditions we recommend employing a 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)
Kind of actuator: normally closed (NC)		
Valve OPEN by pressurised air	control air feed P \Rightarrow MV1 \Rightarrow P1/LA2	control air feed ext. MV \Rightarrow LA2
Valve CLOSED by spring tension	de-aeration LA2/P1 \Rightarrow MV1 \Rightarrow R	de-aeration LA2 \Rightarrow ext. MV
Kind of actuator: normally open (NO)		
Valve OPEN by spring tension	de-aeration P1/LA1 \Rightarrow MV1 \Rightarrow R	de-aeration LA1 \Rightarrow ext. MV
Valve CLOSED by pressurised air	control air feed P \Rightarrow MV1 \Rightarrow P1/LA1	control air feed ext. MV \Rightarrow LA1
Kind of actuator: double acting (DA)		
Valve OPEN by pressurised air	control air feed P \Rightarrow MV1 \Rightarrow P1/LA2	control air feed ext. MV \Rightarrow LA2
Valve CLOSED by pressurised air	control air feed P \Rightarrow MV3 \Rightarrow P3/LA1	control air feed ext. MV \Rightarrow LA1
		

D = De-aeration

E = sensor mounting

LA = Air connection

MV = Solenoid valve

P = Supply air connection

R = Ventilation silencer

S = Slide switch for manual operation of the solenoid valve

Si = Sensor inductive

6 Commissioning, service and maintenance

6.1 Commissioning

6.1.1 Installation instructions

Fitting position

- The installation position is without importance.



NOTICE

If installed horizontally, some minor residual liquids will remain in the ball-shape of the housing.

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 Maintenance



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; 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 of the inner housing is performed with the pipe cleaning system.

7 Technical data

Model	KIDS Single seat valve		
	<ul style="list-style-type: none"> • Manual actuation • Pneumatic actuation 		
Size	DIN: DN 25 - DN 125 Inch: 1" - 4"		
Connection type	<ul style="list-style-type: none"> • Weld-on end DIN EN 10357 		
Pressure nominal (bar)	PN 16		
Temperature range	<p>Ambient temperature: +4° to +45°C (air) Operating temperature: +0° to +95°C (depends on medium) Sterilisation temperature: HNBR +120°C (SIP 30 min) EPDM +140°C FKM +110°C</p>		
Leakage rate	A (EN 12266-1)		
Control air	Control air pressure:		
≤ DN 65 / 2½"	5,5 - 8,0 bar		
≥ DN 80 / 3"	6,0 - 8,0 bar		
Material (in contact with product)	Stainless steel: 1.4404 / AISI 316L Surface: Ra ≤ 0,8µm metallic bright; e-polished Sealing material: <ul style="list-style-type: none"> • HNBR (FDA) • EPDM (FDA) • FKM (FDA) 		

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

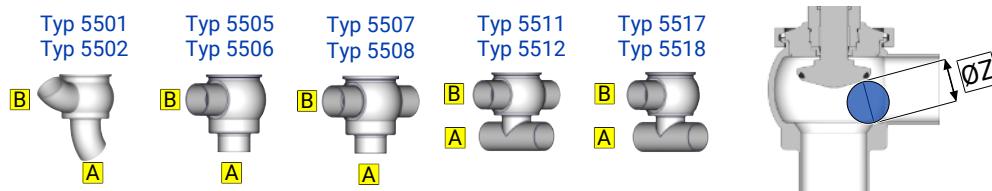
7.1 Operating pressure

Operating pressure for valves with manual operating

ND Inch	25 1	40 1½	50 2	65 2½	80 3	100 4
Drive	crank handle					
	A B C	A B C	A B C	A B C	A B C	A B C
Valves with manual operating	10	10	10	10	10	10

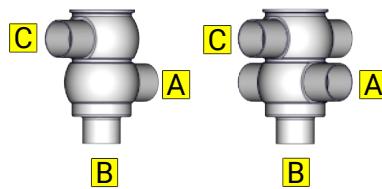
Operating pressure for pneumatic seat valves

Nominal size	Operating direction	Stroke	ØZ	Opening- / Closing pressure difference* [bar] per actuator size (ØA)										KVS	
				Ø104		Ø129		Ø167		Ø190		Ø230		A→B	B→A
				mm	mm	A	B	A	B	A	B	A	B	m³/h	m³/h
DN 25	FC ↓	18.0	13.0	10.0	16.0	16.0	16.0	-	-	-	-	-	-	21	24
	FO ↑	12.0	7.5	10.7	14.7	16.0	16.0	-	-	-	-	-	-		
DN 40	FC ↓	30.0	24.0	8.0	16.0	12.9	16.0	-	-	-	-	-	-	43	47
	FO ↑	24.0	18.5	8.0	16.0	14.7	16.0	-	-	-	-	-	-		
DN 50	FC ↓	24.0	15.8	7.1	14.4	11.6	16.0	16.0	16.0	-	-	-	-	82	77.0
	FO ↑			6.8	12.6	11.5	16.0	13.9	16.0	-	-	-	-		
DN 65	FC ↓	24.0	15.2	-	-	7.0	12.0	15.5	15.3	-	-	-	-	145	138
	FO ↑			-	-	7.0	10.9	8.4	16.0	-	-	-	-		
DN 80	FC ↓	28.5	19.0	-	-	-	-	9.7	10.4	14.5	10.5	14.5	16.0	200	212
	FO ↑			-	-	-	-	5.0	14.5	3.0	16.0	16.0	16.0		
DN 100	FC ↓	28.5	18.2	-	-	-	-	6.7	6.9	10.0	7.0	10.0	16.0	274	299
	FO ↑			-	-	-	-	3.4	9.6	2.1	14.7	11.3	14.7		
DN 125	FC ↓	28.5	20.2	-	-	-	-	-	-	-	-	6.0	10.2	424	380
	FO ↑			-	-	-	-	-	-	-	-	6.8	8.8		
OD 1	FC ↓	14.0	9.0	10.7	16.0	16.0	16.0	-	-	-	-	-	-	20	23
	FO ↑	8.0	4.5	11.4	13.7	16.0	16.0	-	-	-	-	-	-		
OD 1"	FC ↓	26.5	21.5	8.6	16.0	14.0	16.0	-	-	-	-	-	-	41	45
	FO ↑	20.5	15.5	9.2	16.0	15.7	16.0	-	-	-	-	-	-		
OD 2	FC ↓	21.5	13.6	7.4	13.9	12.2	16.0	16.0	16.0	-	-	-	-	74	69
	FO ↑			6.8	12.6	12.1	16.0	14.8	16.0	-	-	-	-		
OD 2"	FC ↓	18.0	10.6	-	-	7.9	10.9	16.8	13.6	-	-	-	-	138	132
	FO ↑			-	-	7.9	9.8	9.8	16.0	-	-	-	-		
OD 3	FC ↓	28.5	19.0	-	-	-	-	9.7	10.4	14.5	10.5	14.5	16.0	190	202
	FO ↑			-	-	-	-	5.0	14.5	3.0	16.0	16.0	16.0		
OD 4	FC ↓	26.0	16.2	-	-	-	-	6.9	6.6	10.4	6.5	10.4	16.0	261	285
	FO ↑			-	-	-	-	3.7	9.3	2.5	14.2	11.8	14.2		



Operating pressure for pneumatic changeover valves

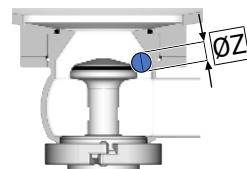
Nominal size	Operat-ing dir-ec-tion	Stroke	Opening- / Closing pressure difference* [bar] per actuator size (ØA)															KVS	
			ø104			ø129			ø167			ø190			ø230			A→B	B→A
			mm	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	m³/h
DN 25	FC ↓	21.0	8.0	8.9	6.8	13.8	15.5	10.3	-	-	-	-	-	-	-	-	-	23	15
	FO ↑		8.3	8.6	7.1	13.3	13.7	12.1	-	-	-	-	-	-	-	-	-		
DN 40	FC ↓	28.5	8.0	7.7	6.8	13.8	13.4	10.3	-	-	-	-	-	-	-	-	-	46	35
	FO ↑		7.8	7.4	7.1	12.5	11.6	12.1	-	-	-	-	-	-	-	-	-		
DN 50	FC ↓	34.0	8.0	7.0	6.8	13.8	12.1	10.3	-	-	-	-	-	-	-	-	-	67	55
	FO ↑		7.4	6.6	7.1	11.9	10.3	12.1	-	-	-	-	-	-	-	-	-		
DN 65	FC ↓	31.0	5.6	4.3	4.3	8.7	7.1	6.5	16.0	15.0	10.2	-	-	-	-	-	-	126	83
	FO ↑		5.3	4.4	4.5	8.8	7.2	6.6	13.6	10.6	14.1	-	-	-	-	-	-		
DN 80	FC ↓	31.0	-	-	-	3.8	3.8	3.5	7.1	7.5	5.3	-	-	-	11.1	12.3	12.2	194	140
	FO ↑		-	-	-	4.6	4.8	2.7	7.2	7.5	5.4	-	-	-	14.7	16.0	8.5		
DN 100	FC ↓	34.0	-	-	-	3.7	2.8	3.5	6.9	5.5	5.3	-	-	-	11.1	9.2	12.0	260	166
	FO ↑		-	-	-	3.7	2.8	3.5	7.0	5.5	5.4	-	-	-	13.5	11.4	9.4		
DN 125	FC ↓	48.0	-	-	-	-	-	-	-	-	-	-	-	-	9.0	7.0	8.0	421	277
	FO ↑		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
OD 1	FC ↓	17.0	8.0	8.9	6.8	13.8	15.5	10.3	-	-	-	-	-	-	-	-	-	23	15
	FO ↑		8.3	8.6	7.1	13.3	13.7	12.1	-	-	-	-	-	-	-	-	-		
OD 1"	FC ↓	25.5	8.0	7.7	6.8	13.8	13.4	10.3	-	-	-	-	-	-	-	-	-	46	35
	FO ↑		7.8	7.4	7.1	12.5	11.6	12.1	-	-	-	-	-	-	-	-	-		
OD 2	FC ↓	31.5	8.0	7.0	6.8	13.8	12.1	10.3	-	-	-	-	-	-	-	-	-	67	55
	FO ↑		7.4	6.6	7.1	11.9	10.3	12.1	-	-	-	-	-	-	-	-	-		
OD 2"	FC ↓	25.5	5.6	4.3	4.3	8.7	7.1	6.5	16.0	15.0	10.2	-	-	-	-	-	-	126	83
	FO ↑		5.3	4.4	4.5	8.8	7.2	6.6	13.6	10.6	14.1	-	-	-	-	-	-		
OD 3	FC ↓	28.5	-	-	-	3.8	3.8	3.5	7.1	7.5	5.3	-	-	-	11.1	12.3	12.2	194	140
	FO ↑		-	-	-	4.6	4.8	2.7	7.2	7.5	5.4	-	-	-	14.7	16.0	8.5		
OD 4	FC ↓	34.0	-	-	-	3.7	2.8	3.5	6.9	5.5	5.3	-	-	-	11.1	9.2	12.0	260	166
	FO ↑		-	-	-	3.7	2.8	3.5	7.0	5.5	5.4	-	-	-	13.5	11.4	9.4		

Typ 5513
Typ 5514Typ 5515
Typ 5516

Operating pressure for pneumatic tank outlet valves

Nominal size	Operating direction	Stroke	$\emptyset Z$	Opening- / Closing pressure difference* [bar] per actuator size ($\emptyset A$)					KVS	
				$\emptyset 104$	$\emptyset 129$	$\emptyset 167$	$\emptyset 190$	$\emptyset 230$	A → B	B → A
		mm	mm	A	A	A	A	A	m^3/h	m^3/h
DN 25	FC ↓	18.0	10.0	13.6	-	-	-	-	20	21
	FO ↑	11.0	6	13.0	-	-	-	-		
DN 40	FC ↓	23.0	9.5	9.0	-	-	-	-	41	42
	FO ↑			8.5	-	-	-	-		
DN 50	FC ↓	24.0	12.8	7.0	12.0	-	-	-	79	68
	FO ↑			6.6	10.5	-	-	-		
DN 65	FC ↓	25.5	12.0	-	6.8	15.4	-	-	138	124
	FO ↑	24.0		-	7.0	8.5	-	-		
DN 80	FC ↓	28.5	14.5	-	-	9.5	14.0	14.0	195	190
	FO ↑			-	-	5.0	3.0	16.0		
DN 100	FC ↓	34.0	19.5	-	-	5.7	8.0	8.0	255	250
	FO ↑			-	-	2.3	1.1	10.0		
DN 125	FC ↓	28.5	20.0	-	-	-	-	6.0	424	380
	FO ↑			-	-	-	-	10.5		
OD 1	FC ↓	18.0	10.0	13.6	-	-	-	-	20	21
	FO ↑	11.0	6	13.0	-	-	-	-		
OD 1"	FC ↓	23.0	22.0	9.0	-	-	-	-	41	42
	FO ↑			8.5	-	-	-	-		
OD 2	FC ↓	24.0	13.6	7.0	12.0	-	-	-	79	68
	FO ↑			6.6	10.5	-	-	-		
OD 2"	FC ↓	25.5	10.6	-	6.8	15.4	-	-	138	124
	FO ↑	24.0		-	7.0	8.5	-	-		
OD 3	FC ↓	28.5	19.0	-	-	9.5	14.0	14.0	195	190
	FO ↑			-	-	5.0	3.0	16.0		
OD 4	FC ↓	34.0	16.2	-	-	5.7	8.0	8.0	255	250
	FO ↑			-	-	2.3	1.1	10.0		

Typ 5527
Typ 5528



8 Disassembly and assembly

T1		Combination wrench-Set	SW 8 - SW 24	-
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, Ø5 40-80mm, Ø6 80-125mm, Ø8	8028340085-000 8028340080-000 8028380125-000
T35		Pin punch	Ø5	-



NOTICE

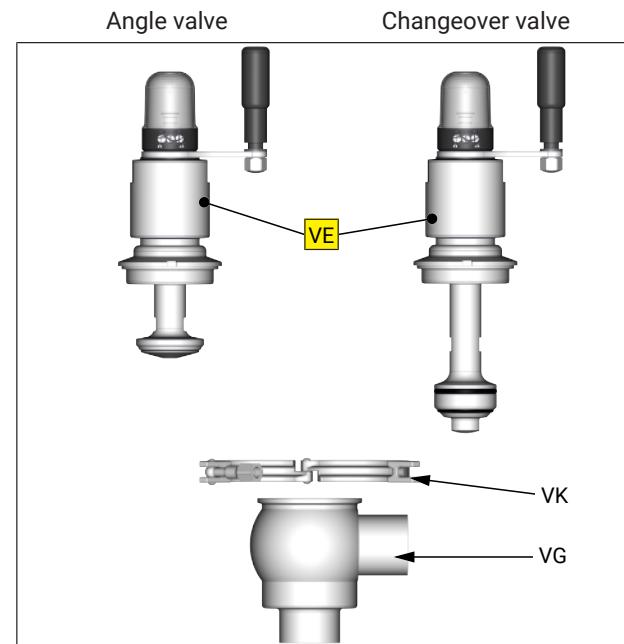
All threaded joint have right-hand thread.

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

8.1 Valves with manual operating

Assembly valve insert

- Unscrew the clamp coupling (VK).
- Dismount the valve insert (VE) out of the housing.

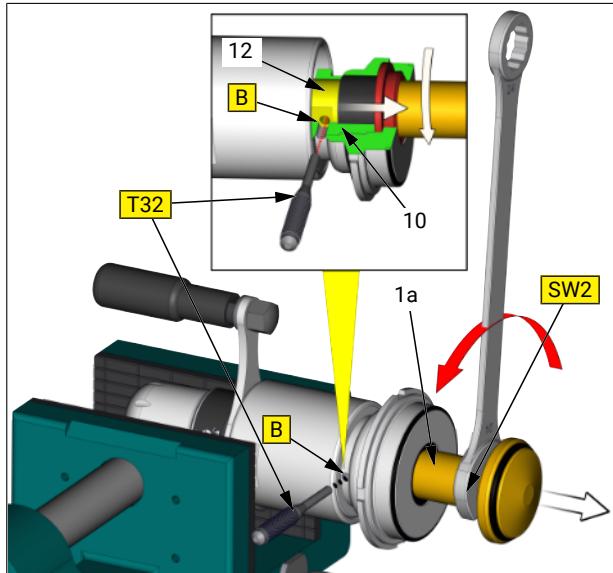


Replacement wear parts

- Unscrew the piston (1a) from spindle (12) (SW2).
Counter with a pin punch (T32) at the bore hole (B, Ø5mm).

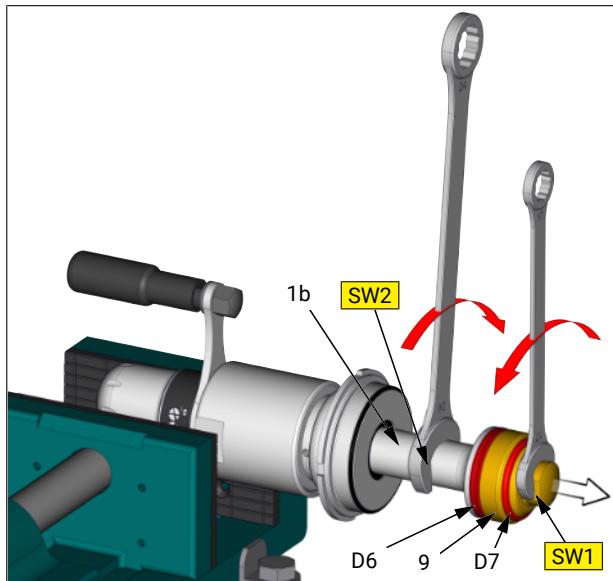
- NOTICE!**

The holes (B) in the housing (10) and the spindle (12) must be aligned so that the pin punch (T32) can be inserted into the spindle (12).



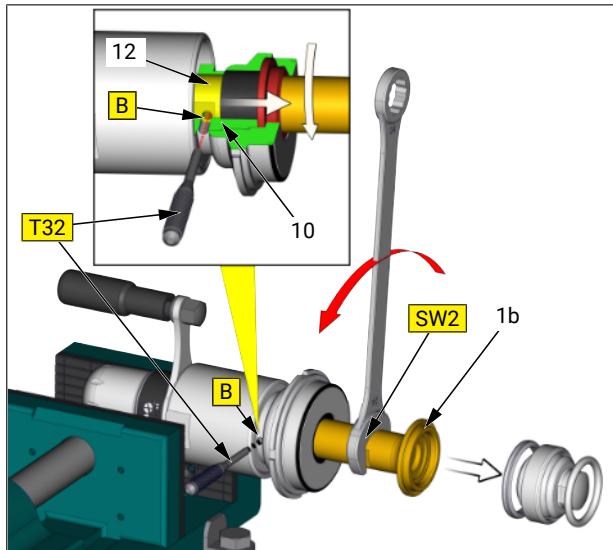
- Changeover valve:**

- Unscrew the piston plate (9) from piston (1b) (SW1/SW2).
- Remove seal (D6).

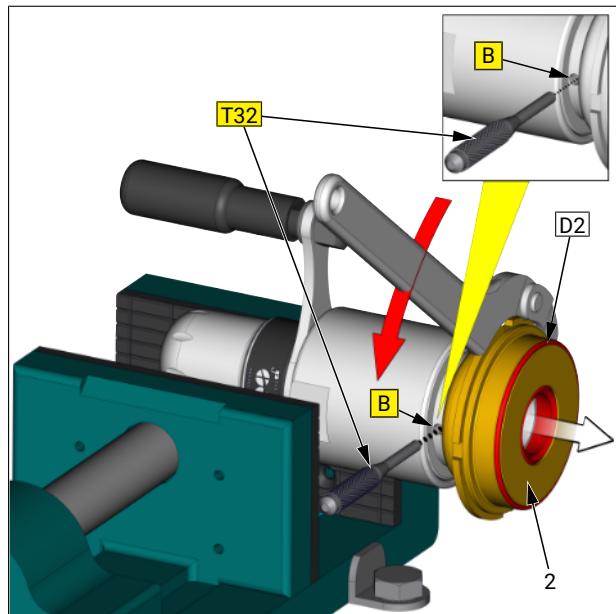


- Changeover valve:**

- Unscrew the piston (1b) from spindle (12) (SW2).
Counter with a pin punch (T32) at the bore hole (B, Ø5mm).



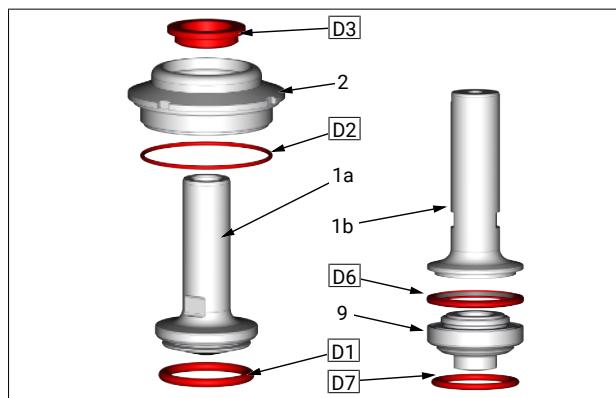
- Unscrew the insert (2) from the housing (10), using a hook wrench (T10).



- Remove O-ring (D1), (D2), (D7), seal (D6) and shaft seal (D3).

NOTICE!

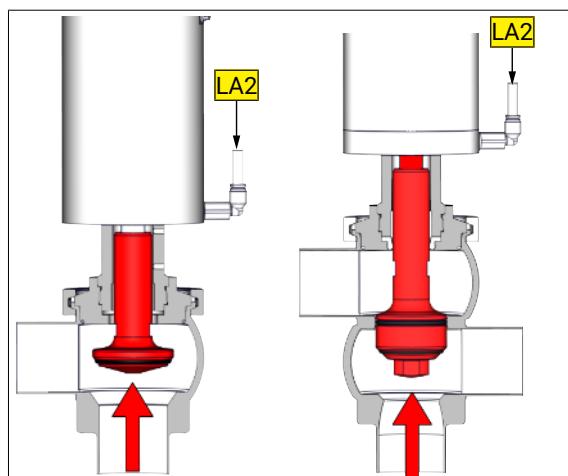
- Puncture the O-ring (D1) and (D7) with a needle and remove them carefully from the groove of piston.



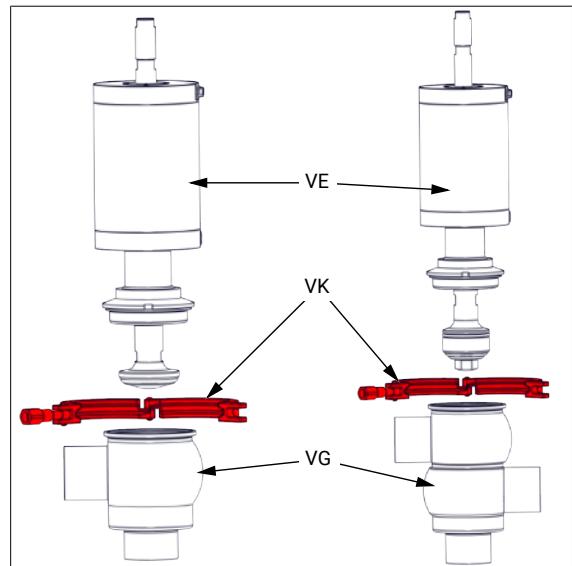
8.2 Valves with pneumatic operation

Assembly valve insert

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

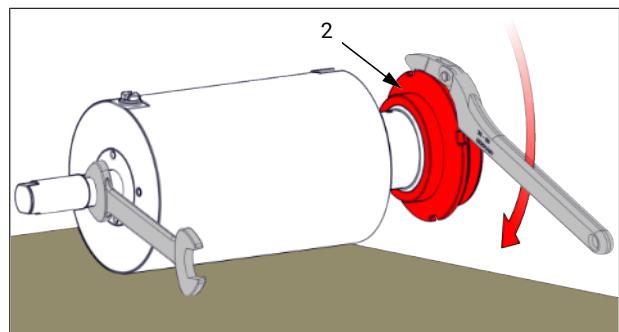
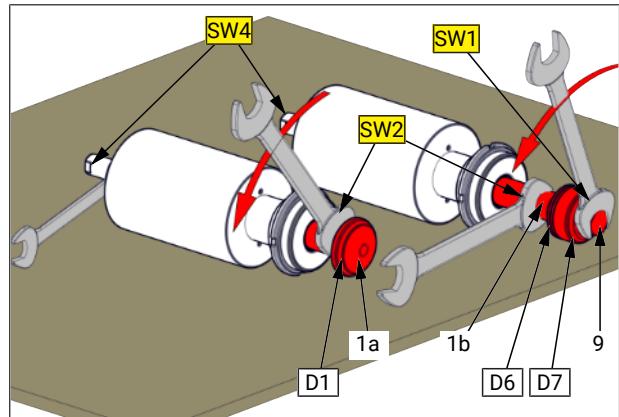


- Unscrew the clamp coupling (VK).
- Remove the complete valve insert with the upper shaft seal (D1) from the housing (VG).
- Disconnect compressed air at LA2 and depressurize the drive - The valve piston move in.
 - The valve piston returns to the basic position.

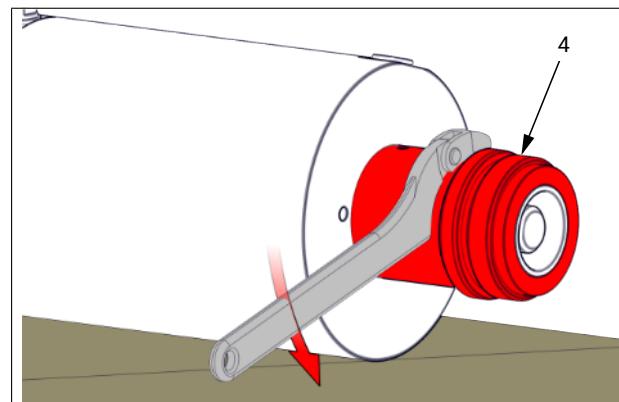


Replacement wear parts - Valve insert (VE)

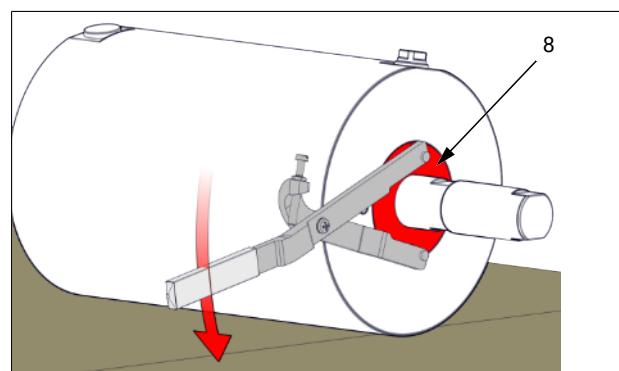
- **Changeover valve:** Unscrew the piston plate (9) from piston (1b) (SW1/ SW2).
- Remove seal (D7) and O-ring (D6).
- Unscrew the piston (1a) resp. (1b) from spindle (6) (SW2/SW4).
- Remove O-ring (D1).
- Unscrew the insert (2) from the lantern (4) (use a hook wrench).
- Remove O-ring (2) and seal (D3).

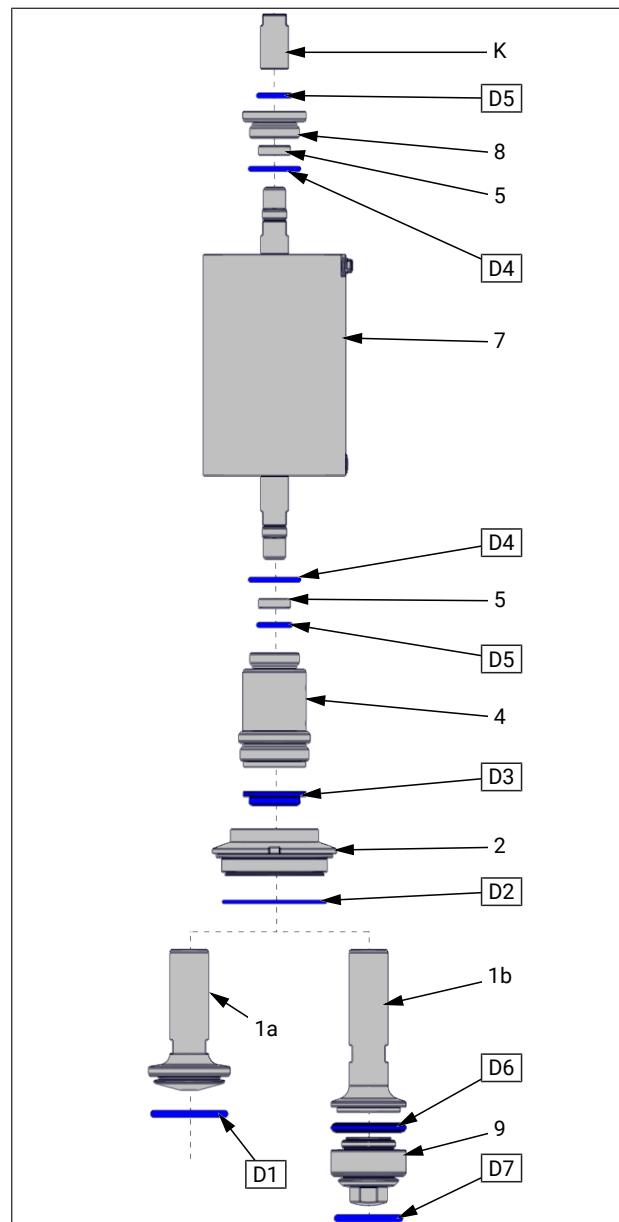


- Unscrew the lantern (4) from the actuator (7) (use a hook wrench).
- Remove the O-rings (D4) and (D5) from lantern (4).



- Unscrew the insert (8) from the actuator (7) (use a hook wrench).
- Remove the O-rings (D4) and (D5).

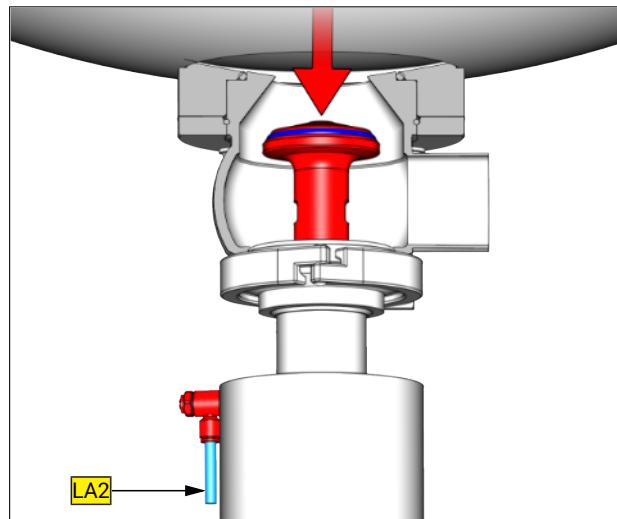




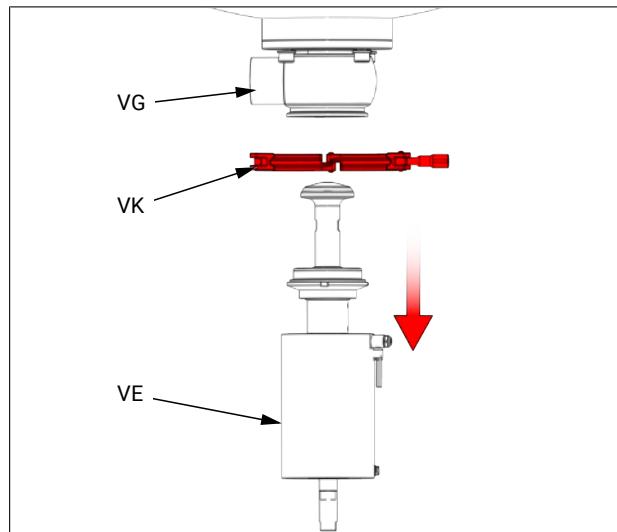
8.3 Tank outlet valve

Assembly valve insert

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



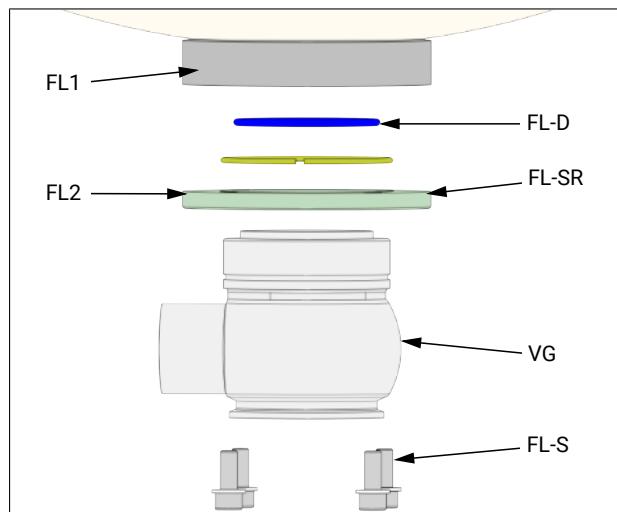
- Unscrew the clamp coupling (VK).
- Remove the complete valve insert with the upper shaft seal (D1) from the housing (VG).
- Disconnect compressed air at LA2 and depressurize the drive - The valve piston move in.
 - The valve piston returns to the basic position.



Replacement wear parts - Valve housing (VG)

- Unscrew the screw (FL-S).
- Remove valve housing (VG) with flange (FL2) and O-ring (FL-D).
- Dismantling circlip ring (FL-SR) and flange (FL2) from the housing (VG).

NOTICE! Information for the "Disassembly of the valve insert" can be found under Tank outlet valve [▶ 27]



9 Drawings and dimensions

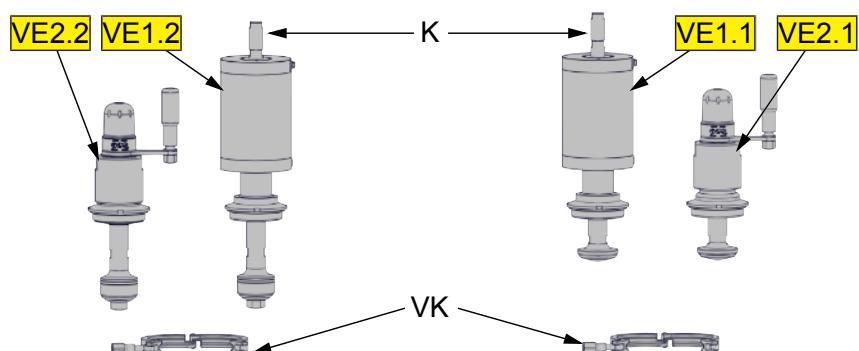
9.1 Drawings

Angle valves, Two way valves

K = Cap

VE = Valve insert manual

- 1.1 = Angle valve
- 1.2 = Changeover valve

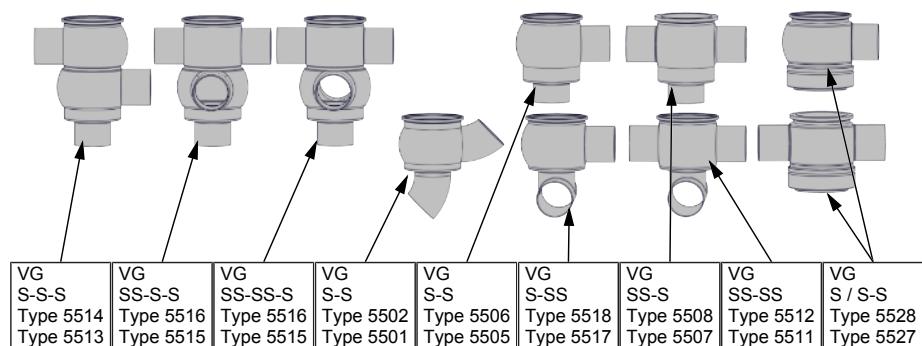


VE = Valve insert pneumatical

- 2.1 = Angle valve
- 2.2 = Changeover valve

VK = Clamp coupling

VG = Valve housing



Tank outlet valve

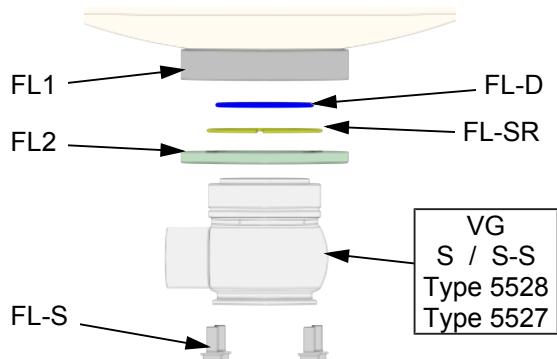
FL1 = Tank flange¹

FL2 = Housing flange

FL-D = O-ring¹

FL-S = Screw

FL-SR = Retaining ring



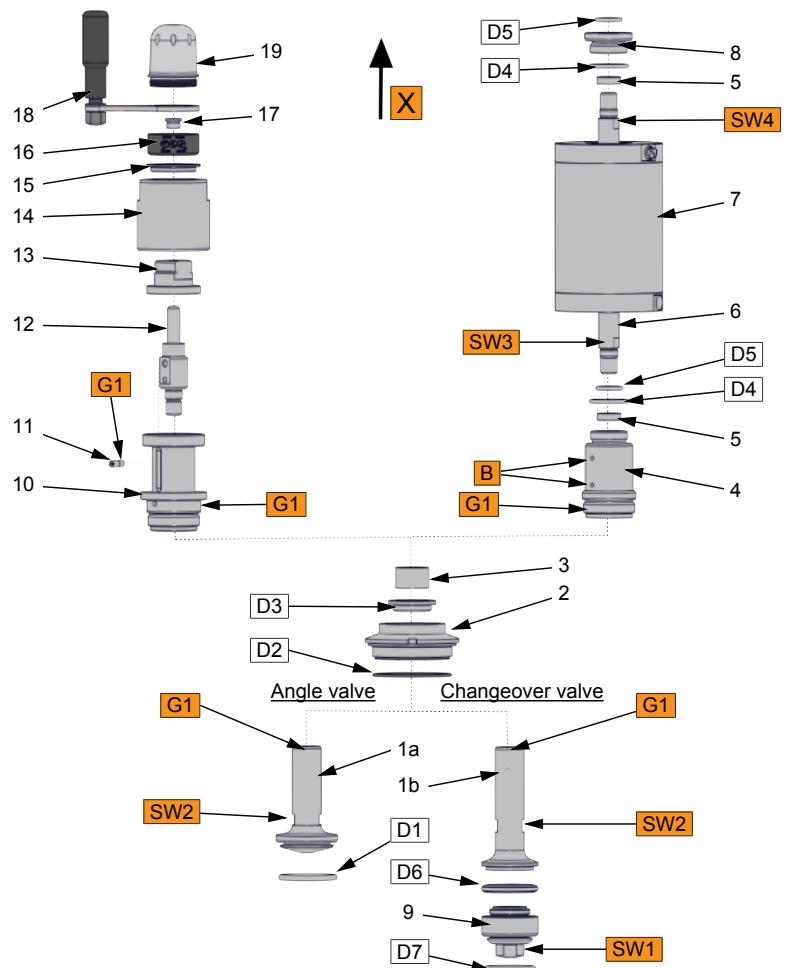
Valve inserts (VE)

manual operation DN50

- Insert for angle valves Type: 5505
- Insert for changeover valves Type: 5513

1 = Piston

- a = Angle valve
- b = Changeover valve



pneumatic DN50

- Insert for angle valves Type: 5506
- Insert for changeover valves Type: 5514

2 = Insert

3 = Bearing bush

4 = Lantern

5 = Bearing bush

6 = Spindle

7 = Actuator

8 = Insert - lantern

9 = Piston plate

10 = Housing

11 = Set screw

12 = Spindle

13 = Guide nut

14 = Housing body

15 = Plain bearing

16 = Adapter

17 = Cap

18 = Crank handle

19 = Hood

D1 = O-ring

D2 = O-ring

D3 = Shaft seal

D4 = O-rings

D5 = O-rings

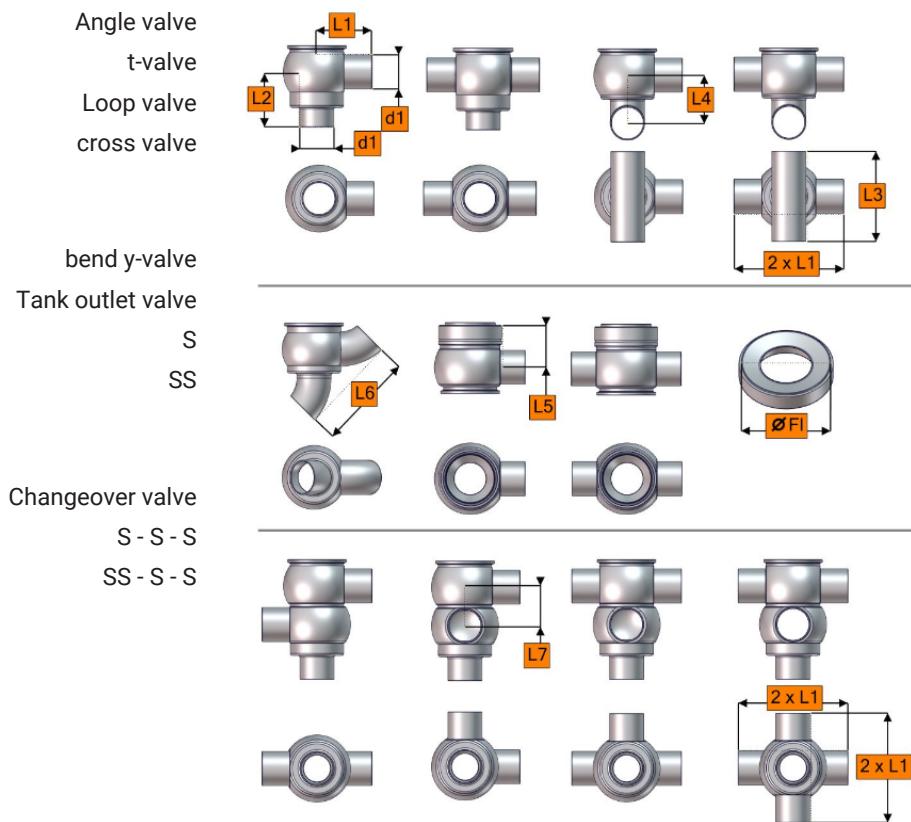
D6 = Seal

D7 = O-ring

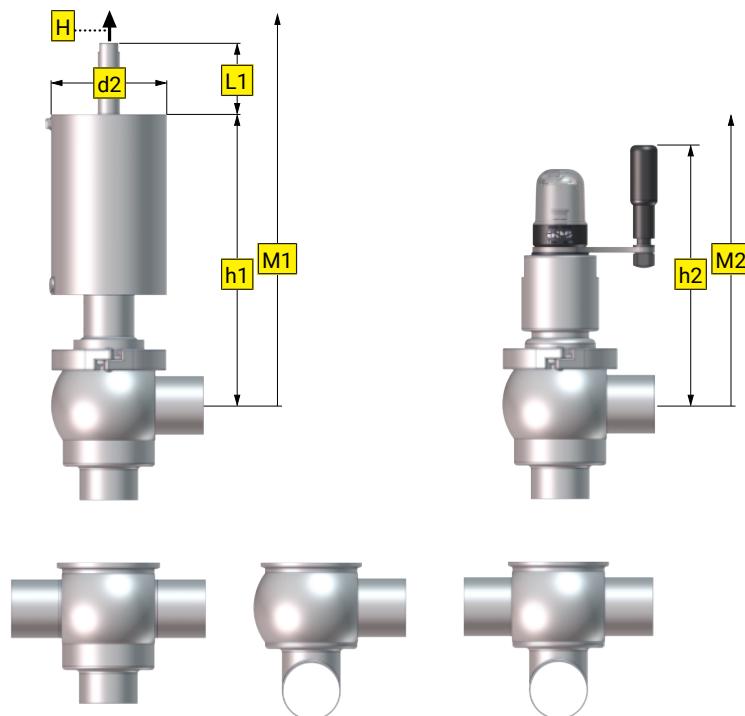
Nominal width	Wrench size					Hinged hook wrench	Joint face wrench
	SW1	SW2	SW3	SW4	SW5		
DN 25 / 1"	19	24	17	17	11	Form A DN 25-100: 8028025100-020	D 40-80mm Pin Ø5 / Ø6
DN 40 / 1½"	24					Form A DN125: 8028025150-020	
DN 50 / 2"	24					Form B (to 2015) Ø4: 8027000060-000	Ø4 (to 2015)8028340085-000
DN 65 / 2½"	36						
DN 80 / 3"	27					Form B (from 2015) Ø6: 8027000065-000	Ø6 (from 2015)8028340080-000
DN 100 / 4"	27						
DN 125 / 5"	27						

9.2 Dimensions

Housing



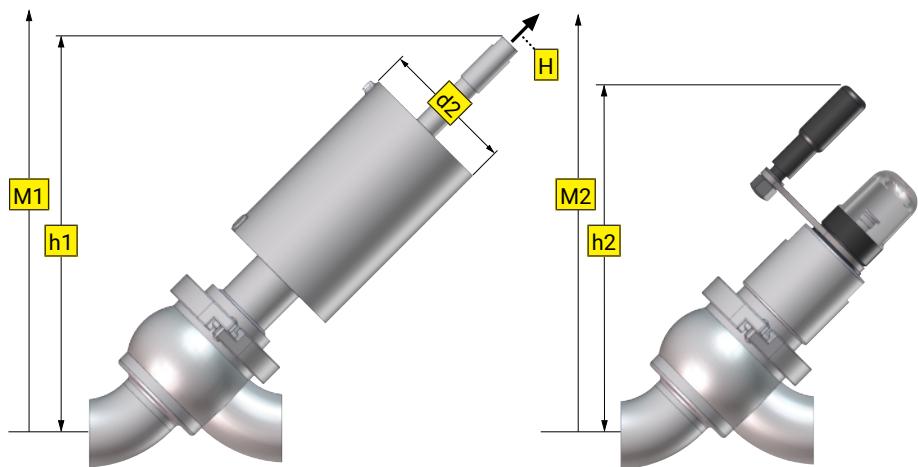
Nominal dia-meter	d1	L1	L2	L3	L4	L5	L6	L7	Ø Fl
DN 25 1 Inch	Ø 29 x 1,5 Ø25,4x1,65	75	75	100	57	70,5	126	36 32	ø 100
DN 40 1½ Inch	Ø 41 x 1,5 Ø31,8x1,65	85	85	120	66	70,5	138	48 45	ø 125
DN 50 2 Inch	Ø 53 x 1,5 Ø50,8 x 1,65	85	85	140	74,5	69,5	150	60 57,5	ø 138
DN 65 2½ Inch	Ø 70 x 2,0 Ø63,5 x 1,65	105	105	160	96	78,5	185	76 70	ø 165
DN 80 3 Inch	Ø 85 x 2,0 Ø76,1 x 2,0	115	115	180	122	101,5	219	91 83	ø 176
DN 100 4 Inch	Ø 104 x 2,0 Ø101,6 x 2,0	130	130	200	144	120	247	110 108	ø 209
DN 125 5 Inch	Ø 129 x 2,0 Ø 127 x 2,0	-	-	-	-	-	-	-	ø 238

Angle valve, T-valve, Loop valve, Cross valve

Nominal size	d2	h1	h2	M1 ¹	M2	L1		H (stroke)	
				Size when completed		NC	NO	pneum.	Manual
DN 25 1 Inch	ø 104	249	221	~ 440	~ 260	82	93	18	14
		248	219	~ 440	~ 260	86	93	14	10
DN 40 1½ Inch	ø 104	255	227	~ 460	~ 265	70	93	30	25
		253.5	225	~ 460	~ 265	73.5	93	26.5	22.5
DN 50 2Inch	ø 104	261	233	~ 480	~ 290	69	93	24	26
		260.5	232	~ 480	~ 290	61.5	93	21.5	23.5
DN 65 2½ Inch	ø 129	269	241	~ 515	~ 325	69	93	24	26
		266	238	~ 515	~ 320	75	93	18	20
DN 80 3 Inch	ø 167	276.5	248	~ 540	~ 340	64.5	93	28.5	30.5
		272.5	244	~ 540	~ 330	64.5	93	28.5	21.5
DN 100 4 Inch	ø 167	286	258	~ 565	~ 375	64.5	93	28.5	30.5
		285	257	~ 565	~ 370	67	93	26	28
DN 125 5 Inch	-	-	-	-	-	-	-	-	-

Valves that do not meet the catalogue standards, can lead to dimensional deviations.

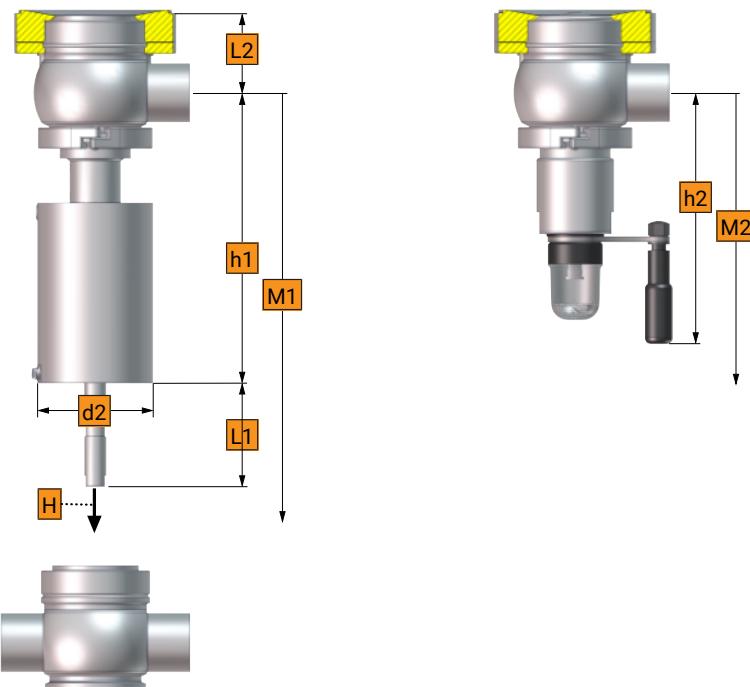
1. Installation dimension M1 are incl. control head or feedback unit.

bend y-valve

Nominal size	d2	h1		h2	M1 ¹	M2	H (stroke)	
		NC	NO		Size when completed		pneum.	Manual
DN 25 1 Inch	ø 104	277 280	291 291	260 258	~ 330 ~ 330	~ 290 ~ 290	18 14	14 10
DN 40 1½ Inch	ø 104	275 278	298 298	268 266	~ 370 ~ 370	~ 300 ~ 300	30 26.5	25 22.5
DN 50 2 Inch	ø 104	282 275	305 305	277 276	~ 390 ~ 390	~ 320 ~ 320	24 21.5	26 23.5
DN 65 2½ Inch	ø 129	298 304	321 321	295 292	~ 440 ~ 435	~ 355 ~ 350	24 18	26 20
DN 80 3 Inch	ø 167	311 311	338 338	315 311	~ 450 ~ 440	~ 380 ~ 370	28.5 28.5	30.5 21.5
DN 100 4 Inch	ø 167	330 332	357 357	325 324	~ 500 ~ 495	~ 430 ~ 425	28.5 26	30.5 28
DN 125 5 Inch	-	-	-	-	-	-	-	-

Valves that do not meet the catalogue standards, can lead to dimensional deviations.

1. Installation dimension M1 are incl. control head or feedback unit.

Tank outlet valve

Nominal size	d2	h1	h2	M1 ¹	M2	L1		H (stroke)	
				Size when completed		NC	NO	pneum.	Manual
DN 25 1 Inch	ø 104	249 248	221 219	~ 490 ~ 490	~ 260 ~ 260	82	93	18	14
DN 40 1½ Inch	ø 104	255 253.5	227 225	~ 500 ~ 500	~ 265 ~ 265	70 73.5	93 93	30 26.5	25 22.5
DN 50 2Inch	ø 104	261 260.5	233 232	~ 510 ~ 510	~ 290 ~ 290	69 61.5	93 93	24 21.5	26 23.5
DN 65 2½ Inch	ø 129	269 266	241 238	~ 550 ~ 550	~ 325 ~ 320	69 75	93 93	24 18	26 20
DN 80 3 Inch	ø 167	276.5 272.5	248 244	~ 580 ~ 580	~ 340 ~ 330	64.5 64.5	93 93	28.5 28.5	30.5 21.5
DN 100 4 Inch	ø 167	286 285	258 257	~ 630 ~ 630	~ 375 ~ 370	64.5 67	93 93	28.5 26	30.5 28
DN 125 5 Inch	-	-	-	-	-	-	-	-	-

Valves that do not meet the catalogue standards, can lead to dimensional deviations.

1. Installation dimension M1 are incl. control head or feedback unit

9.3 Control units

Control head KI-TOP	
with plastic hood - transparent	with stainless steel hood
Feedback unit with finger guard (E)	
<ul style="list-style-type: none"> • E1 = Cap • E2 = Angle bracket • E3 = Shell transparent • E4 = Set collar • E5 = Headless pin • E6 = Allen screw • E7 = Flat washer 	<p>The diagram shows the exploded view of the feedback unit. It consists of a cylindrical shell (E3) with an angle bracket (E2) at the top. Inside, there is a set collar (E4), a headless pin (E5), an allen screw (E6), and a flat washer (E7). Dimensions shown are: total height 133, top width 59,5, bottom width 69, and a vertical slot width of 13.</p>
Pulse generator (IG)	
<ul style="list-style-type: none"> • IG1 = Rod • IG2 = Disc • IG3 = Nut • IG4 = Spring • K = Cap • M = Magnet • 6 = Spindle 	<p>The diagram shows the exploded view of the pulse generator. It includes a rod (IG1), disc (IG2), nut (IG3), spring (IG4), cap (K), magnet (M), and spindle (6). To the right, two views of the magnet assembly are shown: one with the south pole (S) facing up and one with the north pole (N) facing up. The magnet is labeled with 'NSNS'.</p>

10 Wearing parts

10.1 Wearing parts list

DN 25 - DN 50 / 1 Inch - 2 Inch

Pos.	Material	pce.	DN 25 1 Inch	DN 40 1½ Inch	DN 50 2Inch
3	XSM	1x		Bearing bush 8050 028 020-156	
5	XSM	1x		Bearing 8050 020 007-156	
13	NBR	1x		Scraper ring 2330 028 007-055	
D1			O-ring		O-ring
	EPDM	1x	2304 041 035-159		2304 044 053-159
	HNBR	1x	2304 041 035-157		2304 044 053-157
	FKM	1x	2304 041 035-178		2304 044 053-178
D2			O-ring		
	EPDM	1x		2304 069 026-159	
	HNBR	1x		2304 069 028-050	
	FKM	1x		2304 069 026-251	
D3	EPDM	1x		Seal 5506 050 009-254	
	HNBR	1x		Seal 5506 050 009-050	
	FKM	1x		Seal 5506 050 009-251	
D4	NBR	2x		O-ring 2304 030 035-055	
D5	HNBR	2x		O-ring 2304 019 035-171	
D6	EPDM			Seal	
	- complete	1x		5621 055 025-084	
	- Jacket	1x		5621 055 026-084	
	- Support ring	1x		5621 055 027-020	
	HNBR			Seal	
	- complete	1x		5621 055 025-171	
	- Jacket	1x		5621 055 026-171	
	- Support ring	1x		5621 055 027-020	
D7	FKM			Seal	
	- complete	1x		5621 055 025-251	
	- Jacket	1x		5621 055 026-251	
	- Support ring	1x		5621 055 027-020	
FL-D			O-ring		
	EPDM	1x		2304 038 053-170	
	HNBR	1x		2304 038 053-171	
	FKM	1x		2304 038 053-178	
FL-D			O-ring	O-ring	O-ring
	EPDM	1x	2304 057 035-054	2304 063 053-170	2304 075 040-054
	HNBR/NBR	1x	2304 057 035-050	2304 063 053-050	2304 075 040-055

Seal (D6) = New version with support ring

DN 65 - DN 100 / 2½ Inch - 3 Inch

Pos.	Material	pce.	DN 65 2½ Inch	DN 80 3 Inch	DN 100 4Inch
3	XSM	1x		Bearing bush 8050 028 020-156	
5	XSM	1x		Bearing 8050 020 007-156	
13	NBR	1x		Scraper ring 2330 028 007-055	
D1			O-ring	O-ring	O-ring
	EPDM	1x	2304 053 053-159	2304 069 053-159	2304 088 053-159
	HNBR	1x	2304 053 053-157	2304 069 053-157	2304 088 053-157
	FKM	1x	2304 053 053-178	2304 069 053-178	2304 088 053-178
D2			O-ring	O-ring	O-ring
	EPDM	1x	2304 082 026-159	2304 098 035-159	2304 117 035-159
	HNBR	1x	2304 082 026-050	2304 098 035-050	2304 117 035-050
	FKM	1x	2304 082 026-051	2304 098 035-051	2304 117 035-051
D3	EPDM	1x		Seal 5506 050 009-254	
	HNBR	1x		Seal 5506 050 009-050	
	FKM	1x		Seal 5506 050 009-251	
D4	NBR	2x		O-ring 2304 030 035-055	
D5	HNBR	2x		O-ring 2304 019 035-171	
D6	EPDM		Seal	Seal	
	- complete	1x	5621 065 025-084		5621 100 025-084
	- Jacket	1x	5621 065 026-084		5621 100 026-084
	- Support ring	1x	5621 065 027-020		5621 100 027-020
	HNBR		Seal	Seal	
	- complete	1x	5621 065 025-171		5621 100 025-171
	- Jacket	1x	5621 065 026-171		5621 100 026-171
	- Support ring	1x	5621 065 027-020		5621 100 027-020
	FKM		Seal	Seal	
	- complete	1x	5621 065 025-251		5621 100 025-251
	- Jacket	1x	5621 065 026-251		5621 100 026-251
	- Support ring	1x	5621 065 027-020		5621 100 027-020
D7			O-ring	O-ring	O-ring
	EPDM	1x	2304 047 053-170	2304 069 053-159	2304 083 050-069
	HNBR	1x	2304 047 053-171	2304 069 053-157	2304 083 050-157
	FKM	1x	2304 047 053-178	2304 069 053-178	2304 083 050-178
FL-D			O-ring	O-ring	O-ring
	EPDM	1x	2304 090 040-170	2304 102 050-159	2304 133 053-159
	HNBR/NBR	1x	2304 090 040-050	2304 102 050-050	2304 133 053-050

Seal (D6) = New version with support ring

10.2 Wear parts kit

Angle valve Type: 5505, 5506, 5507, 5508, 5511, 5512

Seals (D1), (D2), (D3)

	DN 25 1 Inch	DN 40 1½ Inch	DN 50 2 Inch
HNBR	5506 025 990-050	5506 040 990-050	5506 050 990-050
EPDM	5506 025 990-054	5506 040 990-054	5506 050 990-054
FKM	5506 025 990-251	5506 040 990-251	5506 050 990-251

	DN 65 2½ Inch	DN 80 3 Inch	DN 100 4 Inch
HNBR	5506 065 990-050	5506 080 990-050	5506 100 990-050
EPDM	5506 065 990-054	5506 080 990-054	5506 100 990-054
FKM	5506 065 990-251	5506 080 990-251	5506 100 990-251

Two way valves Type: 5513, 5514, 5515, 5516

Seals (D2), (D3), (D6), (D7)

	DN 25 - DN 50 1 Inch - 2 Inch	DN 65 2½ Inch	DN 80 3 Inch
HNBR	5514 050 990-050	5514 065 990-050	5514 080 990-050
EPDM	5514 050 990-054	5514 065 990-054	5514 080 990-054
FKM	5514 050 990-251	5514 065 990-251	5514 080 990-251

	DN 100 4 Inch	-	-
HNBR	5514 100 990-050		
EPDM	5514 100 990-054		
FKM	5514 100 990-251		

Seal (D6) without support ring

Tank outlet valve Typ: 5527, 5528

Seals (D1), (D2), (D3), (D6)

	DN 25 1 Inch	DN 40 1½ Inch	DN 50 2Inch
HNBR	5528 025 990-050	5528 040 990-050	5528 050 990-050
EPDM	5528 025 990-054	5528 040 990-054	5528 050 990-054
FKM	5528 025 990-251	5528 040 990-251	5528 050 990-251

	DN 65 2½ Inch	DN 80 3 Inch	DN 100 4Inch
HNBR	5528 065 990-050	5528 080 990-050	5528 100 990-050
EPDM	5528 065 990-054	5528 080 990-054	5528 100 990-054
FKM	5528 065 990-251	5528 080 990-251	5528 100 990-251

Tank flange FL1, O-ring FL-D

Item	Material	Qty.	DN 25 1 Inch	DN 40 1½ Inch	DN 50 2Inch
FL1	1.4404 AISI316L	1x	5727 025 001-040	5727 040 001-040	5727 050 001-040
FL-D	EPDM	1x	O-ring	O-ring	O-ring
	HNBR/NBR	1x	2304 057 035-054	2304 063 053-170	2304 075 040-054
	FKM	1x	2304 057 035-050	2304 063 053-050	2304 075 040-055
			2304 057 035-251	2304 063 053-251	2304 075 040-251

Item	Material	Qty.	DN 65 2½ Inch	DN 80 3 Inch	DN 100 4Inch
FL1	1.4404 AISI316L	1x	5727 065 001-040	5727 080 001-040	5727 100 001-040
FL-D	EPDM	1x	O-ring	O-ring	O-ring
	HNBR/NBR	1x	2304 090 040-170	2304 102 050-159	2304 133 053-159
	FKM	1x	2304 090 040-050	2304 102 050-050	2304 133 053-050
			2304 090 040-251	2304 102 050-251	2304 133 053-251

11 Classification

11.1 Structure of Order Number

Product name

55 xx xxx xxx-xxxx	Pos. 0	Pos. 1	Pos. 2
Single seat valve KI-DS	5	5	x

Housing type / Actuator type

xx XX xxx xxx-xxxx		Actuator type	Pos. 2	Pos. 3
Type	Housing type			
5501	S-S Inclined seat valve	manual	0	1
5502		pneumatic	0	2
5505	S-S Angle valve	manual	0	5
5506		pneumatic	0	6
5507	SS-S T-valve	manual	0	7
5508		pneumatic	0	8
5511	SS-SS Cross valve	manual	1	1
5512		pneumatic	1	2
5513	S-S-S Changeover valve	manual	1	3
5514		pneumatic	1	4
5515	SS-S-S Changeover valve	manual	1	5
5516		pneumatic	1	6
5517	S-SS Loop valve	manual	1	7
5518		pneumatic	1	8
5527	S Tank outlet valve	manual	2	7
	SS Tank outlet valve	manual	2	7
5528	S Tank outlet valve	pneumatic	2	8
	SS Tank outlet valve	pneumatic	2	8

Valve size

xxxx XXX xxx-xxxx								
Nominal diameter	Pos. 4	Pos. 5	Pos. 6		Nominal diameter	Pos. 4	Pos. 5	Pos. 6
DN 25	0	2	5		DN 80	0	8	0
DN 40	0	4	0		DN 100	1	0	0
DN 50	0	5	0		DN 125	1	2	5
DN 65	0	6	5		DN 150	1	5	0
OD 1"	0	2	6		OD 3 "	0	7	6
OD 1 1/2"	0	3	8		OD 4 "	1	0	1
OD 2 "	0	5	1		OD 5"	1	2	7
OD 2 1/2"	0	6	4		OD 6 "	1	5	2

Material of seal & Design modification

xxxx xxx X X X -xxxx								
Type	Housing	Variations of actuation	Seal	Pos. 7	Pos. 8	Pos. 9		
5501, 5502	S-S	Normally closed (NC)	EPDM	0	3	0		
5505, 5506	S-S		HNBR	0	3	5		
5507, 5508	SS-S		FKM	0	3	4		
5511, 5512	SS-SS	Normally open (NO)	EPDM	1	3	0		
5513, 5514	S-SS		HNBR	1	3	5		
5515, 5516	S-S-S		FKM	1	3	4		
5517, 5518	SS-S-S	air open - air close (DA)	EPDM	3	3	0		
5527; 5528	S		HNBR	3	3	5		
			FKM	3	3	4		
5527, 5528	SS	Normally closed (NC)	EPDM	2	3	0		
			HNBR	2	3	5		
			FKM	2	3	4		

Separator

xxxx XXX XXX - xxxx	Pos. 10
- Standard	-

12 Appendix

12.1 Declaration of incorporation



Declaration of incorporation

Translation of the original

Manufacturer / authorised representative:

Guth Ventiltechnik GmbH

Im Niedersand 52

76877 Offenbach an der Queich

Germany

Authorised representative:

(for compiling technical documents)

Achim Kauselmann

(Documentation / Development)

KIESELMANN GmbH

Paul-Kieselmann-Str. 4-10

75438 Knittlingen

Germany

Product name	Function
pneum. Lift actuators	Stroke movement
pneum. Rotary actuators	Rotary movement
Ball valves	Media cutoff
Butterfly valves	Media cutoff
Single seat valves	Media cutoff
Flow control valves	Control of liquefied media
Throttle valve	Control of liquefied media
Overflow valve	Definition of fluid pressure
Double seat valve	Media separation
Bellow valves	Sampling of liquids
Sampling valves	Sampling of liquids
Two way valves	Media cutoff
Tankdome fitting	Prevention of overpressure and vacuum, Tank cleaning
Safety valve	Prevention of overpressure

The manufacturer hereby states that the above product is considered as an incomplete machine in the sense defined in the Directive 2006/42/EC on Machinery. The above product is exclusively intended to be installed into a machine or an incomplete machine. The said product does not yet conform to all the relevant requirements defined in the Directive on Machinery referred to above for this reason.

The specific technical documents listed in Appendix VII, Part B, have been prepared. The Authorized Agent empowered to compile technical documents may submit the relevant documents if such a request has been properly justified.

Commissioning of an incomplete machine must not only carried out if it has been determined that the respective machine into which the incomplete machine is to be installed conforms to the regulations set out in the Directive on Machinery referred to above.

The above product conforms to the requirements of the directives and harmonized standards specified below:

- Directive 2014/68/EU
- EN ISO 12100 Safety of machinery

Offenbach, 03.01.2022

Jens Kleine
General Manager

guth ventile
FLUID PROCESS GROUP