guth ventile
FLUID PROCESS GROUP

Operating instructions

- Translation of the original -

Double seat valve

Type: 567x

EPDM, HNBR

English **GBR**

15.1.19

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1. General information

1.1 Information for your safety

We are pleased that you have decided for a high-class GUTH 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 service team will naturally be at your disposal.

1.2 Marking of security instructions in the operating manual

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.
	**ATTENTION**	An harmful situation which may result in damages of the product itself or of adjacent vicinity.
	**NOTICE**	Marks application hints and other information which is particularly useful.

1.3 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 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

Based upon its functions, the double seat valve is suitable for use in the food and beverages, in pharmaceutical, biotechnological and chemical industries. It is used mainly in combinations with several other double seat valves for the purpose of emptying and filling containers with the possibility of connecting several pipes to one tank.

2.2 General safety instructions

ATTENTION

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

WARNING

- Danger of crushing or amputating limbs.
  Do not reach into the valve housing when in pneumatic mode.
- Dismantling the valve or valve assemblies from the plant can cause injuries from fluids or gases flowing out.
  Dismantle the valve or valve assembly only when the plant has been rendered pressure-less and free of liquid and gas.
- Danger of scalding and burns to parts of your body from liquids escaping from the leakage drain.
  The splash protection fixtures must always be attached to the leakage drain.
- The actuation can be dismantled.
  Danger of injury by prestressed pressure spring. Observe separate installation instructions.
- We recommend having the manufacturer do the maintenance work required for the actuation.

CAUTION

- To avoid air leaking, only use pneumatic connection parts that have an O-ring seal facing the even surface.
- When mounting the clamps, the max. torque must not be exceeded (see technical data).
- Steps should be taken to ensure that no external forces are exerted on the fitting.

2.3 General notes

NOTICE

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

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

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

ATTENTION
- Damage to the product due to improper storage!
  - Observe storage instructions.
  - avoid a prolonged storage.

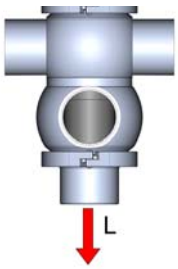
NOTICE
- GUTH recommend regularly checking the product and the prevailing storage conditions during long storage times.
- The following points must be observed, to ensure the optimum function of the sealing elements, bearings and electronic components.

- 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. Function and operation

4.1 Description of function

The valve opens from the top down by means of control air and closes bottom to top by means of spring tension without loss of product. In the closed setting, mix-proof separation of the media flowing in the upper and lower valve chambers is ensured by two independently closed valve plates. Any leaks occurring due to damaged valve plate seals are drained to the exterior without pressure via the leakage discharge (L).



4.2 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.

ATTENTION

- Impurities can cause damage to the seals and seals area. Clean inside areas prior to assembly.
- To avoid a distortion of the components, all welding parts must be welded to stress-relieved.

4.3 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.

4.4 ATEX-guidelines

For valves or plants/installations that are operated in the ATEX area, sufficient bonding (grounding) must be ensured (see valid ATEX Guidelines EG).

4.5 Control system and feedback unit

➤ Control head -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.

➤ Pneumatic valve actuation

Valve function	Pneum. control ➟ with integrated (MV) in control unit (fig. 4 - 1 /page 7)	Pneum. control ➟ with external (MV) (fig. 4 - 2 /page 7)
Valve stroke valve “OPEN“	control air feed P ➟ MV1 ➟ P1/LA1	control air feed ext.MV1 ➟ LA1
Valve stroke valve “CLOSED“	de-aeration P1/LA1 ➟ MV1 ➟ R valve is closing by spring	de-aeration LA1 ➟ ext.MV1 valve is closing by spring
Lower seat lift	AUF = control air feed P ➟ MV2 ➟ P2/LA2	AUF = control air feed ext.MV2 ➟ P ➟ LA2
	CLOSE = de-aeration P2/LA2 ➟ MV2 ➟ R valve is closing by spring	CLOSE = de-aeration LA2 ➟ P ➟ ext.MV2 valve is closing by spring
Upper seat lift	AUF = control air feed P ➟ MV3 ➟ P3/LA3	AUF = control air feed ext.MV3 ➟ LA3
	CLOSE = de-aeration P3/LA3 ➟ MV3 ➟ R valve is closing by spring	CLOSE = de-aeration LA3 ➟ ext.MV3 valve is closing by spring

MV = solenoid valve
MV1 = valve stroke
MV2 = lower seat lift
MV3 = upper seat lift
R = de-aeration, sound absorber
P = compressed-air inlet (control unit)
LA = compressed-air inlet (actuation)
S = slide switch - manual control (solenoid valves)
E = proximity switch M12x1
H = feedback unit

with control unit and solenoid valve	pneum. control external

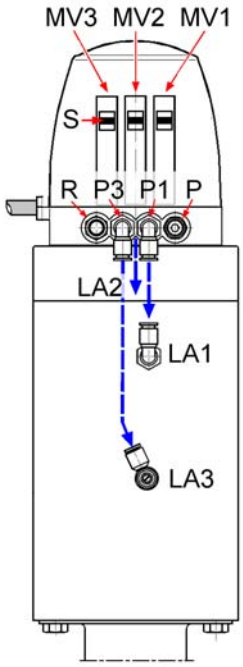
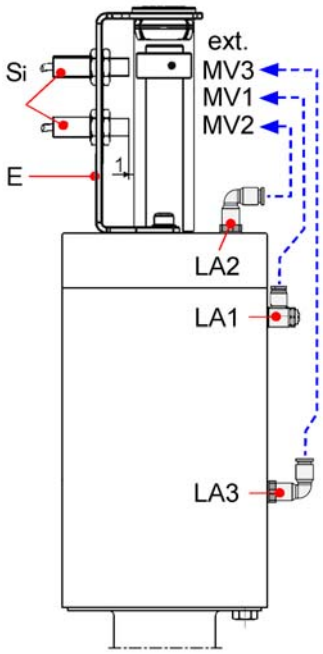

	

Fig. 4 - 1	Fig. 4 - 2

4.6 Service and maintenance

➤ Service

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

Lift actuator

The actuator is maintenance-free and non-removable.

NOTICE		Lubricant recommendation
EPDM; Viton; k-flex; NBR; HNBR	⇨	Klüber Paraliq GTE703*
Silicone	⇨	Klüber Sintheso pro AA2*
Thread	⇨	Interflon Food Grease*

**) 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.*

➤ Cleaning

Cleaning of the housing is performed with the pipe cleaning system. As part of the cleaning program, the leakage chamber and the drain pipe can be cleaned by cycling the valve discs. The valve disc shaft is also cleaned when the upper valve disc is cycled.

Alternatively, the leakage chamber and the shaft of the upper valve disc can be cleaned by means of the external rinsing connection (Sp). For cleaning the shaft, the upper valve disc has to be lifted.

Cleaning flow rate

Cleaning parameters[1]

for the leakage chamber

Cleaning step	Aerate valve disc
Pre-Rinse	-
Wash 80°C	3 x 5 sec.
Intermediate rinse	2 x 5 sec.
Acid	3 x 5 sec.
Final rinse	2 x 5 sec.

	Nominal diameter DN / OD							
DIN	**25**	**40**	**50**	**65**	**80**	**100**	**125**	**150**
INCH	**1**	**1½**	**2**	**2½**	**3**	**4**	**-**	**-**
clocking at top	0,97	1,10	1,1	1,38	1,66	2,08	2,50	4,02
	(l/s at 3bar)							
clocking at bottom	0,54	0,69	0,69	0,83	0,83	1,25	1,66	2,50

1. *Recommended for the Beverage Industry*

4.7 Technical Data

Model:	Double seat valve
Valve size:	DIN: DN25 - DN150 INCH: DN1 - DN4
Connection:	Welding end DIN EN 10357
Temperature range:	• Ambient temperature: +4° - +45°C • Product temperature: +0° - +95°C medium dependent • Sterilization temperature: (short time 30min) EPDM +140°C, HNBR +110°C
Operations pressure:	DIN: DN25 - 100 = max. 10 bar DN125 - 150 = max. 6 bar INCH: OD1 - OD4 = max. 10 bar
Pressure resistance:	40 bar
Leak rate:	A (DIN EN 12268-1)
Control air pressure:	5,5 - 8,0 bar
Quality of control air:	ISO 8573-1 : 2001 quality class 3

Material:	**in product contact**	**not in product contact**
Stainless steel:	1.4404 / AISI316L	1.4301 / AISI304
Surfaces:	RA ≦0,8µm e-pol.	metallic bright, e-pol.
Seals:	EPDM (FDA) HNBR (FDA)	NBR

Tightening moment:
Torque in Nm
Retaining clamp:

Nominal diameter DN / OD

DIN INCH	25 1	40 1½	50 2	65 2½	80 3	100 4	125 -	150 -
	15	15	15	25	25	55	65	65

KV-value (m³/h):

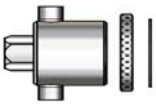
Direction of flow:

Nominal diameter DN / OD

DIN INCH	25 1	40 1½	50 2	65 2½	80 3	100 4	125 -	150 -
transition-flow at top ⇔	26	50	95	150	240	380	580	940
transition-flow at bottom ⇔	26	55	100	155	250	390	590	940
from bottom to top ⇗	16	26	45	72	98	155	245	370
from top to bottom ⇙	16	24	43	67	93	150	240	330

5. Disassembly / Assembly

➤ Mounting tools

		Mounting tool sets:	DN40 - DN65 DN80 - DN100 DN125 - DN150	**5670 065 100-000** **5670 100 100-000** **5670 150 100-000**	■	■ ■
M1		**Socket**	DN40 - DN65 DN80 - DN150	5620 065 131-130 5620 100 131-130	■	■ ■
M2		**Eccentric socket**	DN40 - DN65 DN80 - DN150	5620 065 134-130 5620 100 134-130	■	■ ■
M3		**Eccentric ring**	DN40/50 DN65 DN80 DN100 DN125 DN150	5620 050 025-020 5620 065 025-020 5620 080 025-020 5620 100 025-020 5620 125 025-020 5620 150 025-020	■ ■	■ ■ ■ ■
M4		**Joint -pin wrench**	DN40 - DN65 DN80 - DN150	5620 065 015-000 5620 150 015-000	■	■ ■
M5		**Socket** + guide bush (POM) and O-Ring	DN40 - DN65 DN80 - DN100 DN125 - DN150	5670 080 105-000 5670 100 105-000 5670 150 105-000	■	■ ■ ■
M6		**Mounting plate**	DN40 - DN65 DN80 - DN100 DN125 - DN150	5620 065 121-020 5620 100 121-020 5620 150 121-020	■	■ ■

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.

5.1 Assembly valve insert VE

5 - 1 ⇨

- Unscrew the upper retaining clamp (VK).
- Connect compressed air to LA1 and pressurize the actuator with air. - The valve insert lift up of the valve housing (VG).
- Pinch a rubber (T) between the Lantern (15) and the housing (VG).
- Disconnect compressed air at LA1 and depressurize the drive - The valve piston move in.
- Remove the complete valve insert with the upper shaft seal (D1), the O-rings (D2), the insert (5) and the bearing bush (4) from the housing (VG).
- Unscrew the lower retaining clamp (VK).
- Remove the housing bottom (2) with the lower shaft seal (D1), the O-rings (D2), the insert (5) and the bearing bush (4) from the housing (VG).

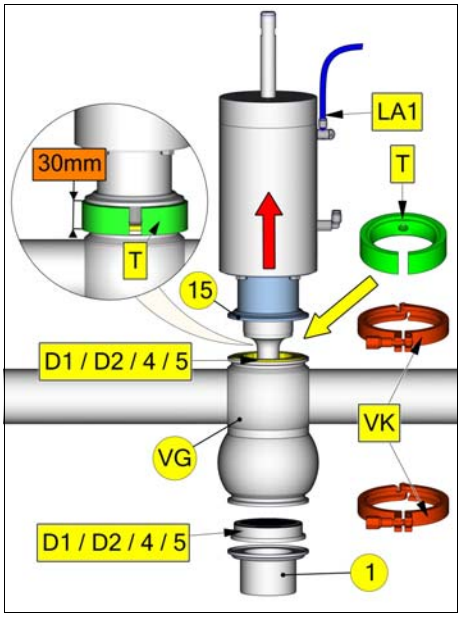


Fig. 5 - 1

5.2 Replacement wear parts

➤ Disassembly

5 - 2 ⇨

- Unscrew nut (11) and remove disc (10).
- Dismount the upper piston (6) from the upper piston (7) in direction X.
- Remove the split washer (13).

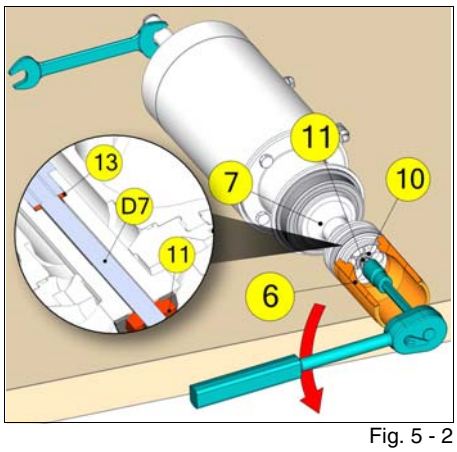


Fig. 5 - 2

5 - 3 ⇨

- Remove O-ring (D5).
- Unscrew the hexagon screws (14).
- Push the lantern (15) in direction 'X' until the hole (B1) is freely visible.

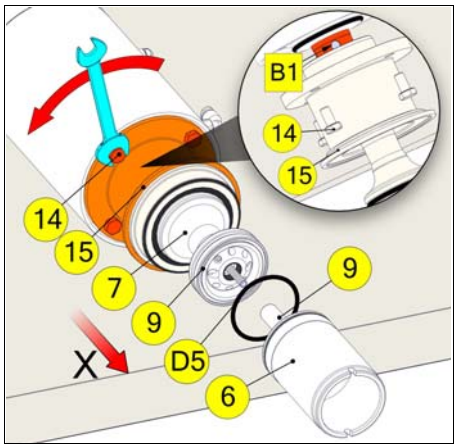


Fig. 5 - 3

5 - 4 ⇨

- Unscrew the upper piston (7) from piston rod (3). Use the mounting plate M6. Counter with the pin wrench M4 at the hole (B1).

≧ DN40 / 1½ (valves with divided pistons):

Should be untighten the piston plate (8) before piston (7), then unscrew the piston (7) with the eccentric M2 and a ratchet.

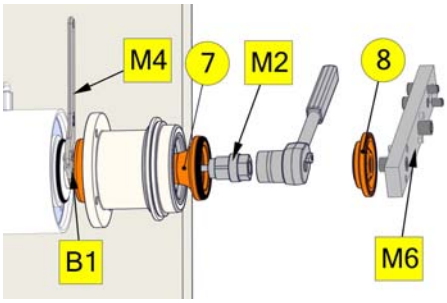


Fig. 6 - 4a

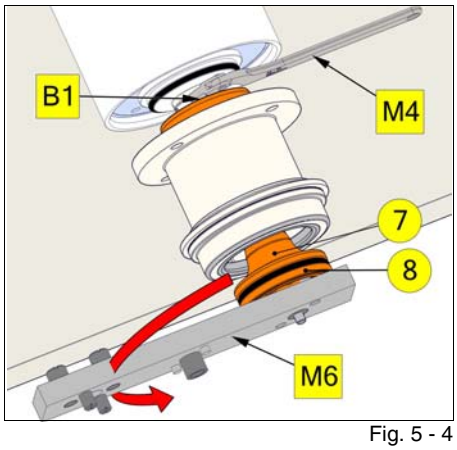


Fig. 5 - 4

5 - 5 ⇨

- Push the lantern (15), the upper shaft seal (D1) with the insert (5) and the bearing bush (4) from the piston (7).
- Dismount the valve lift stop (16).
- Remove seals: Pos. (D1); (D2); (D8); (D9); (D10).

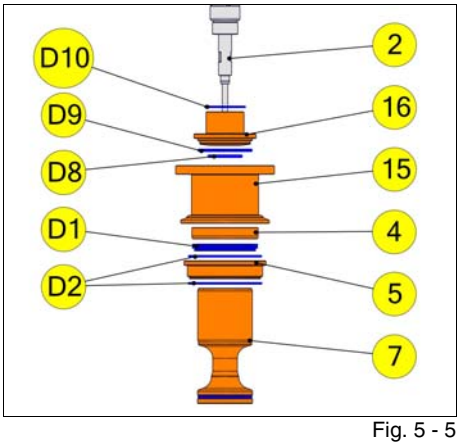


Fig. 5 - 5

➤ Assembly seal (D4)

5 - 6 ⇨

Model Seal (D4)	Piston (6) and (7)	Pair of pistons upper: (7) + (8) Pair of pistons lower: (6) + (9)	
	DN 25 OD 1“	DN 40 - 125 OD 1½“ - 5“	DN 150 OD 6“
	Piston undivided[1]	Piston divided	Piston divided
O-ring	X	X	X
Seal (with backup ring)	-	X	-

1. *According their construction from valve size DN 25/1“, the pistons (6) and (7) are not divided.*

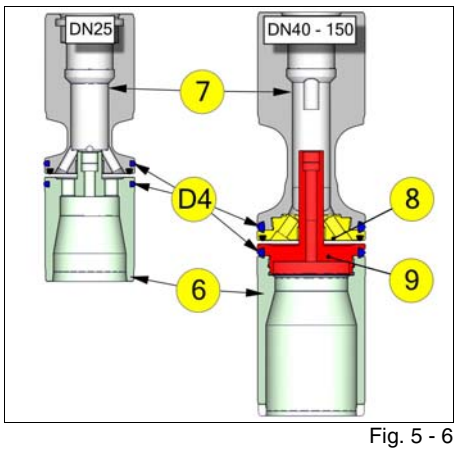


Fig. 5 - 6

5 - 7 ⇨

DN25 Dismount - (D4) O-ring version

- Puncture the O-ring (D4) with a needle and remove them from the groove of piston (6) and (7).

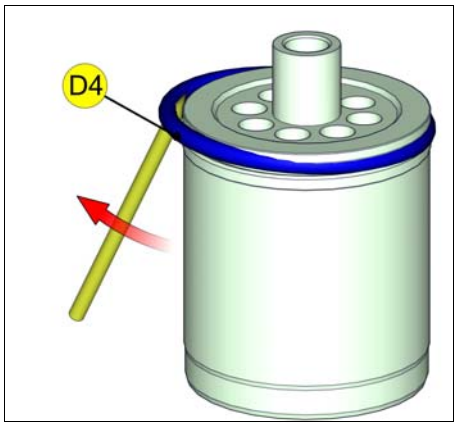


Fig. 5 - 7

5 - 8 ⇨

DN40 - DN150 Dismount O-ring / seal (D4)

- Clamp the mounting plate M6 into the vice.
- Put the piston (8) resp. (7) in the fittingly pins. (see Fig. 5 - 8)
- Unscrew the piston (6) from piston plate (9) with the socket M5 and the mating reducing bush.
- Unscrew the piston (7) from piston plate (8) with the socket M1.

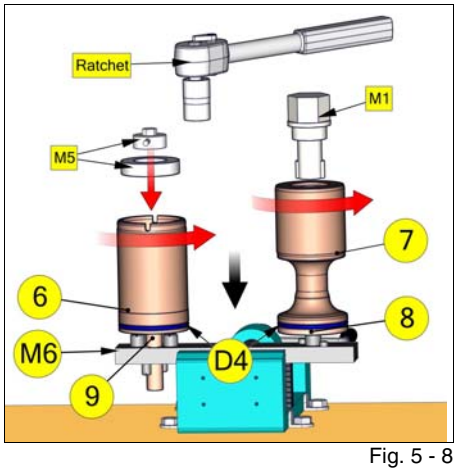


Fig. 5 - 8

5 - 9 ⇨

- Remove seals resp. O-rings (D4).

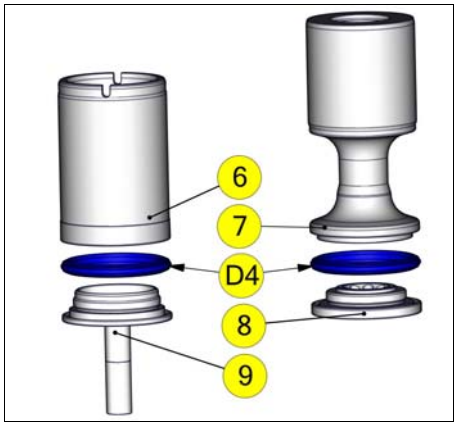


Fig. 5 - 9

➤ Assembly

Assemble in reverse order.

Thoroughly clean and slightly lubricate mounting areas and running surfaces.

NOTICE

- Fit valve insert carefully into the casing. When fitting the valve insert and running surfaces onto the piston, do not damage.
- Always replace the hexagon lock nut (11) by a new one after unscrewing.
- Check valve functions by manually activating the 3/2-way solenoid valves after assembly!

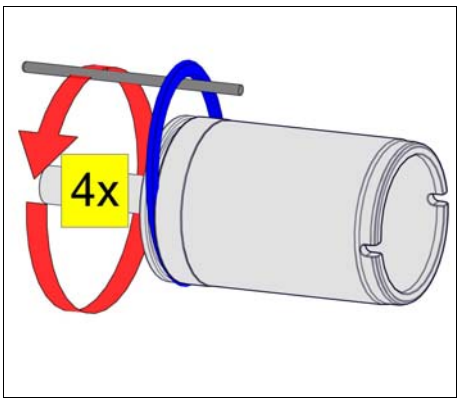


Fig. 5 - 10

Mounting O-ring (D4) for undivided piston

5 - 10 ⇨

- Slide the O-ring onto the groove.
- Resolve contingently twistings of the seal with a rod between seal and Groove.
- Alternately press and roll the seal into the groove with round body.

Mounting seal (D4) for divided piston

▶ Pair of piston upper = Piston (7) and piston plate (8)

▶ Pair of piston lower = Piston (6) and piston plate (9)

5 - 11 ⇨

- Screw together the pair of piston (7) / (8) and (6) / (9) without the seal (D4) to the metal limit stop by hand.
- Make a coloured mark at the piston surfaces.
- After then, unscrew the pairs of piston (7) / (8) and (6) / (9) again.

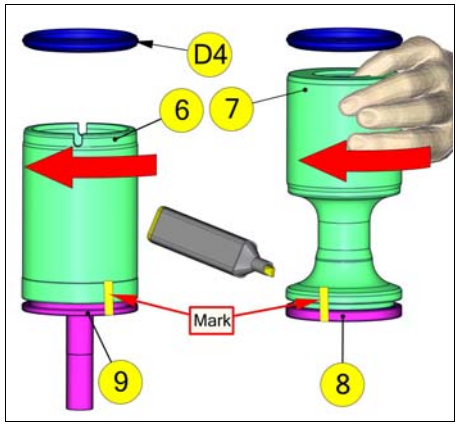


Fig. 5 - 11

5 - 12 ⇨

- Push the seal (D4) onto the pistons.
- Screw together the pair of piston by hand again.
- Clamp the mounting plate M6 into the vice.
- Fix the lower pair of piston (6) / (9) with the piston plate (9) in the mounting plate M6.
- Position the eccentric ring (M3) on seal (D4).
- Screw up the piston (6) to the final limit mark. Use the socket M5 and a ratchet.

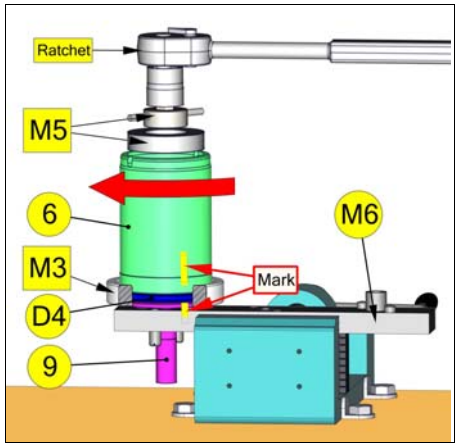


Fig. 5 - 12

5 - 13 ⇨

- Clamp the socket M1 into the vice at the hexagon flat.
- Fix the upper pair of piston (7) / (8) with the piston (7) of the socket M1.
- Position the eccentric ring (M3) on seal (D4).
- Screw up the piston plate (8) to the final limit mark. Use the mounting plate M6.

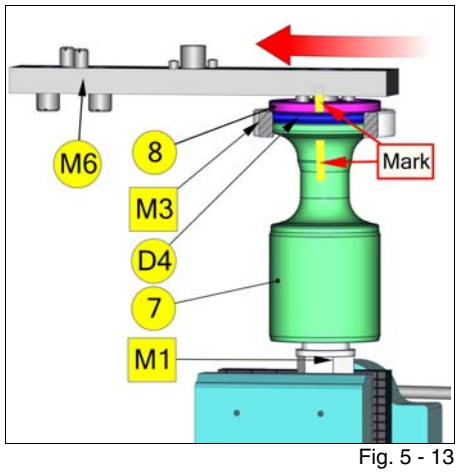
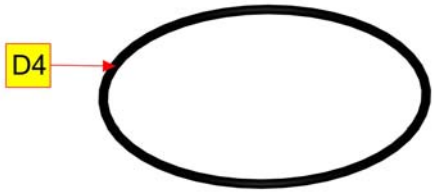
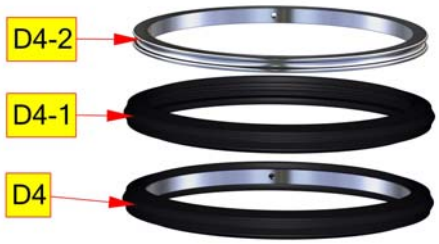


Fig. 5 - 13

5.8 Seal (D4)

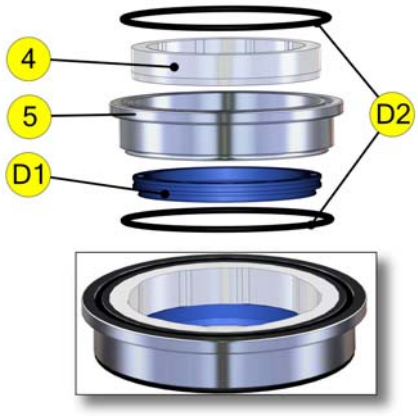
Model Seal (D4)	Piston (6) and (7)	Pair of pistons upper: (7) + (8) Pair of pistons lower: (6) + (9)	
	DN 25 OD 1“	DN 40 - 125 OD 1½“ - 5“	DN 150 OD 6“
	Piston undivided[1]	Piston divided	Piston divided
a) O-ring EPDM	**X**	**X**[2]	**X**
b) O-ring HNBR	**X**	**X**[3]	**X**
c) Seal EPDM (with backup ring)	**-**	**X**	**-**
d) Seal HNBR (with backup ring)	**-**	**X**	**-**

1. *According their construction from valve size DN 25/1“, the pistons (6) and (7) are not divided.*
2. *till 05/2016 thereafter seal (D4)c*
3. *till 05/2016 thereafter seal (D4)d*

O-ring - model (a,b)	Seal - model (c,d)
	
D4 = O-ring	D4 = Seal D4-1 = Seal jacket D4-2 = Backup ring

5.9 Shaft sealing

D1 = Shaft seal
D2 = O-rings
4 = Bearing bush
5 = Housing insert

Shaft sealing


6. Drawings and Dimensions

6.1 Double seat valve Type: 567x

A1 = Control head

A2 = Feedback unit

IG = Pulse generator

K = Cap

VE = Valve insert

VG = Valve housing
S-S
SS-S
S-SS
SS-SS

VK = Retaining clamp

1a = Housing bottom

1b = Housing bottom with rinsing connection

4 = Bearing bush

5 = Housing insert

14 = Screws

15a = Lantern

15b = Lantern with rinsing connection

Sp1 = Screwed socket:
Rinsing connection M14x1,5
cutting ring union

Sp2 = Screwed socket:
Rinsing connection DN15

D1 = Shaft seal

D2 = O-rings

D11 = O-ring

D12 = O-ring

D13 = O-ring

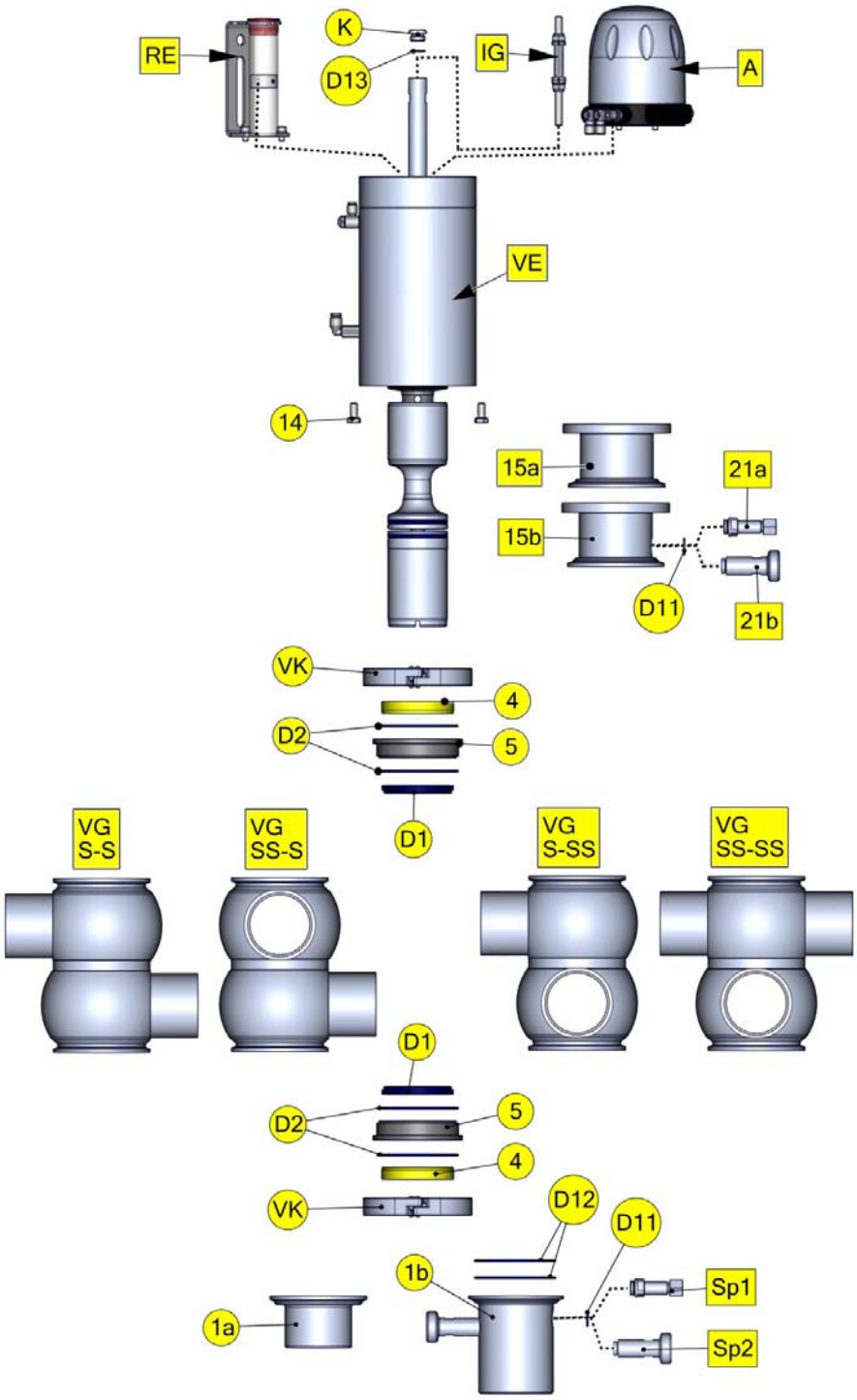


Fig. 6 - 1

6.2 Valve insert VE DN25 / 1 INCH

1) -
2) *Spindle*
3) *Piston rod*
4) *Bearing bush*
5) *Housing insert*
6) *Piston lower*
7) *Piston upper*
8) -
9) -
10) *Disc*
11) *Hexagon nut*
12) *Plain bearing*
13) *Split washer*
14) *Hexagon screws*
15) *Lantern*
16) *Valve lift stop*
17) *pneum. actuator*

Seal kit

D1) *Shaft seal*
D2) *O-ring*
D3) -
D4) *Seal*
D5) *O-ring*
D6) -
D7) *Headless pin*
D8) *O-ring*
D9) *O-ring*
D10) *O-ring*

B = *Bore for mounting*
L = *Leakage tell taue*

G1 = *Lock nut high strength (e.g. Loctite 2701)*
LA1 = *Main valve lift*
LA2 = *Lower seat lift*
LA3 = *Upper seat lift*
Y = *Detail*

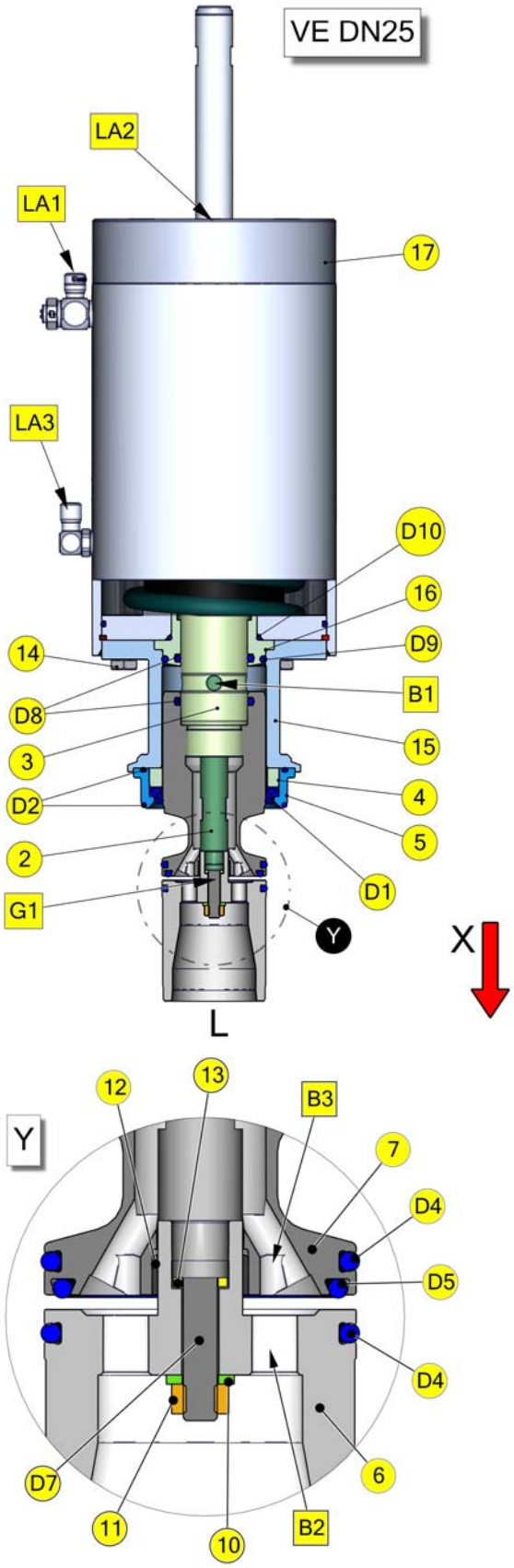


Fig. 6 - 2

6.3 Valve insert VE DN40 - DN150 / 1½ - 4 INCH

1) -
2) Spindle
3) Piston rod
4) Bearing bush
5) Housing insert
6) Piston lower
7) Piston upper
8) Piston plate upper
9) Piston plate lower
10) Disc
11) Hexagon nut
12) Plain bearing
13) Split washer
14) Hexagon screws
15) Lantern
16) Valve lift stop
17) pneum. actuator

Seal kit

D1) Shaft seal
D2) O-ring
D3) O-ring
D4) seal
D5) O-ring
D6) O-ring
D7) Headless pin
D8) O-ring
D9) O-ring
D10) O-ring

B = Bore for mounting
E = Nut
L = Leakage tell taue

G1 = Lock nut high strength (e.g. Loctite 2701)
LA1 = Main valve lift
LA2 = Lower seat lift
LA3 = Upper seat lift
Y = Detail

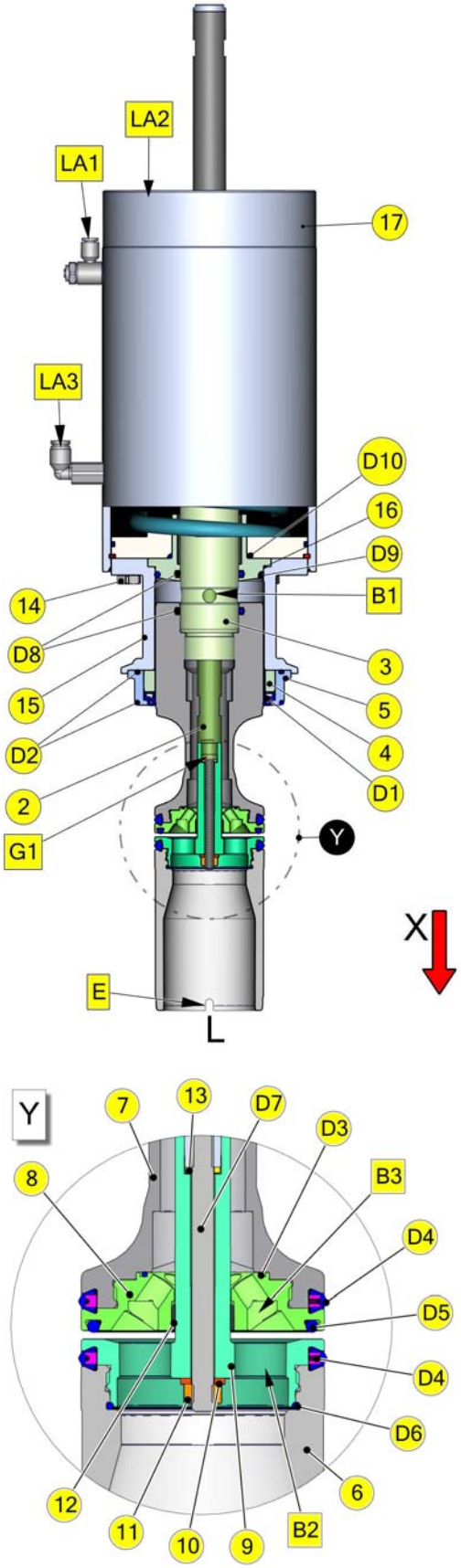


Fig. 6 - 3

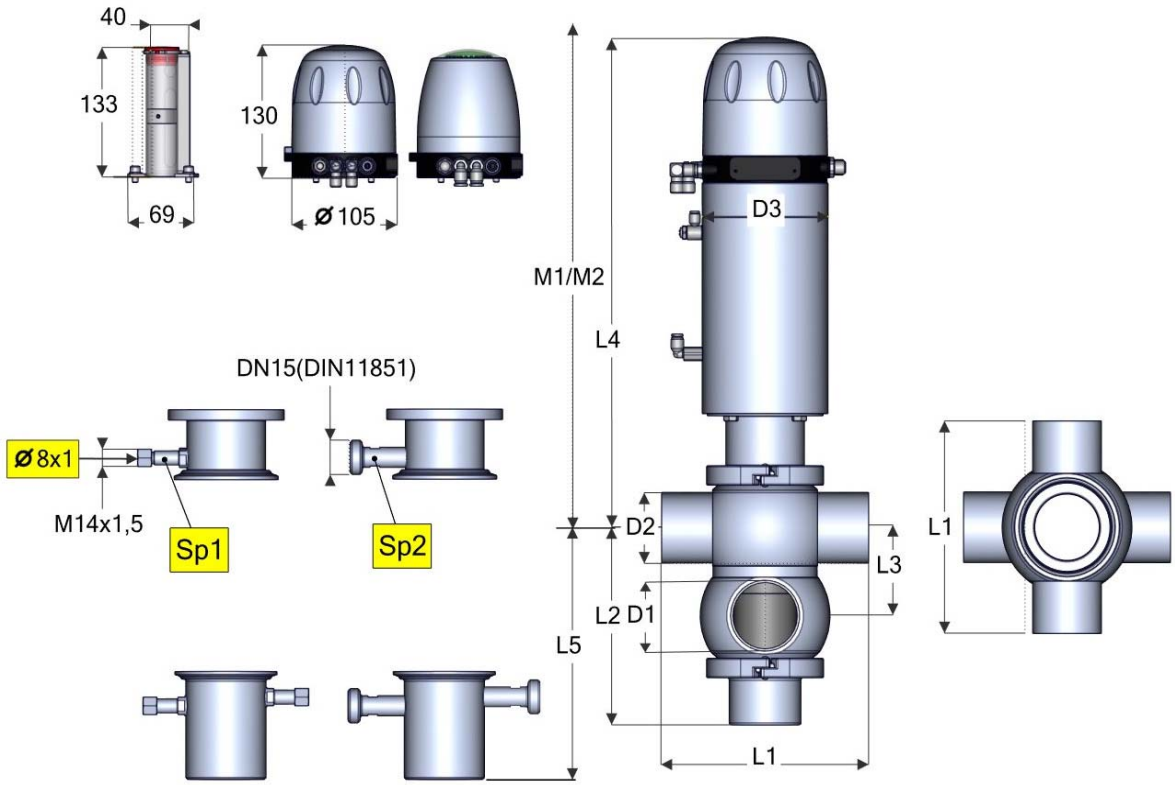
6.4 Dimensions

	DIN INCH	25 1	40 1½	50 2	65 2½	80 3	100 4	125 -	150 -
D1 / D2	DIN INCH	ø 29x1,5 ø 25,4x1,65	ø 41x1,5 ø 38,1x1,65	ø 53x1,5 ø 50,8x1,65	ø 70x2 ø 63,5x1,65	ø 85x2 ø 76,1x2,0	ø 104x2 ø 101,6x2,0	ø 129x2 -	ø 154x2 -
D3	DIN INCH	ø 128 ø 128	ø 128 ø 128	ø 128 ø 128	ø 128 ø 128	ø 160 ø 160	ø 160 ø 160	ø 230 -	ø 230 -
Sp1 Sp2	- Rinsing connection: with cutting ring union M14x1,5 for tube ø8x1 - Rinsing connection: screwed socket DN15 DIN11851								
L1	DIN INCH	150 150	170 170	170 170	210 210	230 230	260 260	320 -	345 -
L2	DIN INCH	112 112	132 127,5	155 152	193 189	228 220	269 265	315 -	351 -
L3	DIN INCH	46 42	59 56	71 69	87 81	106 98	125 122	150 -	175 -
L4	DIN INCH	448 448	447 447	446 446	464 464	531 531	560 560	615 -	628 -
L5	DIN INCH	- -	- -	- -	172 -	192,5 -	232 -	- -	- -

Size when completed

		DIN INCH	580 580	600 600	625 625	680 680	785 785	850 850	960 -	1015 -
Valve with control head	M1									
Valve with control head + upper rinsing conncetion	M2	DIN INCH	- -	- -	- -	955 -	1080 -	1185 -	- -	- -

➤ **Dimensioned drawing**



7. Sealing- and Spare part list

7.1 Spare part list DN25 / OD 1 INCH

➤ Double seat valve Type 567x, DN 25 / OD 1 INCH (1.4404 / AISI316L)

Housing variation	Seal	Article-No.	Valve insert VE	Seal kit
Standard				
SS - S S - S S - SS SS - SS	EPDM	5671 DN 130 - xxx 5672 DN 130 - xxx 5673 DN 130 - xxx 5674 DN 130 - xxx	5670 DN 030-041	5670 025 130-000
SS - S S - S S - SS SS - SS	HNBR	5671 DN 420 - xxx 5672 DN 420 - xxx 5673 DN 420 - xxx 5674 DN 420 - xxx	5670 DN 050-041	5670 025 420-000
ext. rinsing connection upper				
SS - S S - S S - SS SS - SS	EPDM	5671 DN 760 - xxx 5672 DN 760 - xxx 5673 DN 760 - xxx 5674 DN 760 - xxx	5670 DN 760-041	5670 025 769-000
SS - S S - S S - SS SS - SS	HNBR	5671 DN 770 - xxx 5672 DN 770 - xxx 5673 DN 770 - xxx 5674 DN 770 - xxx	5670 DN 770-041	5670 025 779-000
rinsing connection upper with cutting ring union M14x1,5 for tube ø8x1				
SS - S S - S S - SS SS - SS	EPDM	5671 DN 762 - xxx 5672 DN 762 - xxx 5673 DN 762 - xxx 5674 DN 762 - xxx	5670 DN 762-041	5670 025 769-000
SS - S S - S S - SS SS - SS	HNBR	5671 DN 772 - xxx 5672 DN 772 - xxx 5673 DN 772 - xxx 5674 DN 772 - xxx	5670 DN 772-041	5670 025 779-000

DN = Nominal diameter e.g. 5673 050 130-041 = DN50 , 5673 051 130-041 = 2INCH
xxx = Material in product contact/ Exterior finish / Interrogation system (see 10. classification)
S = Welded end

Pos	Designation	Material	DN25	OD 1 INCH
1	Housing SS - S S - S S - SS SS - SS	AISI316L	5621 DN 001-041 5622 DN 001-041 5623 DN 001-041 5624 DN 001-041	5661 DN 001-041 5662 DN 001-041 5663 DN 001-041 5664 DN 001-041
2	Housing bottom	AISI303	5671 025 008-220	
3	Retaining clamp (2x)	AISI304	2122 065 100-020	
4	Bearing bush lower	PTFE	5622 050 006-053	
5	Housing insert upper	AISI316L	5672 025 004-040	
D1	Seal (included in seal kit)	EPDM HNBR	5622 050 010-069 5622 050 010-050	
D2	O-ring (2x) (included in seal kit)	EPDM HNBR	2304 069 026-159 2304 069 026-050	

➤ Spare part list - Valve insert VE Type 5670, DN 25 / OD 1 INCH

Pos	Designation	Material	DN25	OD 1 INCH
VE	***Valve insert (a)*** *Standard*	***EPDM*** ***HNBR***	*5670 025 030-041* *5670 025 050-041*	*5670 026 030-041* *5670 026 050-041*
VE	***Valve insert (b)*** *ext. rinsing connection upper*	***EPDM*** ***HNBR***	*5670 025 760-041* *5670 025 770-041*	*5670 026 760-041* *5670 026 770-041*
VE	***Valve insert (c)*** *rinsing connection with cutting ring union M14x1,5 for tube ø8x1*	***EPDM*** ***HNBR***	*5670 025 762-041* *5670 025 772-041*	*5670 026 762-041* *5670 026 772-041*
4	*Bearing bush upper*	*PTFE*	*5622 050 006-053*	
5	*Housing insert upper*	*AISI316L*	*5672 025 004-040*	
6	*Piston lower*	*AISI316L*	*5671 025 005-040*	
7	*Piston uper*	*AISI316L*	*5622 025 003-040*	
8	*-*	*-*	*-*	
9	*-*	*-*	*-*	
10	*Disc*	*AISI304*	*8071 064 001-020*	
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*	
12	*Plain bearing*	*XMS*	*8050 015 007-156*	
13	*Split washer*	*AISI304*	*8140 006 001-020*	
14	*Hexagon screw*	*AISI304*	*8106 008 016-020*	
15	*Lantern Valve insert (a)* *Lantern compl. - Valve insert (b)* *Lantern compl. - Valve insert (c)*	*AISI304* *AISI304* *AISI304*	*5624 040 008-021* *5624 040 515-021* *5624 040 517-021*	
16	*Valve lift stop*	*AISI303*	*5622 025 009-220*	
17	*Pneum. actuator*	*AISI304*	*5620 065 000-021*	
D13	*O-ring*	*NBR*	*2304 012 020-055*	
K	*Cap*	*AISI303*	*5622 100 071-220*	
Sp1	*Screwed socket: Rinsing connection M14x1,5 cutting ring union*		*5624 065 506-220*	
Sp2	*Screwed socket: Rinsing connection DN15*	*AISI303*	*5624 065 514-020*	
LA1	*One-way restricter*	*-*	*8218 001 020-000*	
LA3	*Rapid action hose coupling*	*-*	*8217 000 004-000*	

➤ Seal kit Double seat valve Type 567x, OD 25 / 1 INCH

Pos.	Designation	Material	DN25 / OD 1 INCH
	Seal kit EPDM (A) ***Seal kit EPDM (B) -*** *rinsing connection upper*	***EPDM*** ***EPDM***	***5670 025 130-000*** ***5670 025 769-000***
D1	*Seal (2x)*	*EPDM*	*5622 050 010-069*
D2	*O-ring (4x)*	*EPDM*	*2304 069 026-159*
D3	-	-	-
D4	*O-ring (2x)*	*EPDM*	*2304 047 035-159*
D5	*O-ring*	*EPDM*	*2304 041 035-159*
D6	-	-	-
D7	*Headless pin*	*AISI304*	*8112 006 040-020*
D8	*O-ring (2x)*	*EPDM*	*2304 036 035-159*
D9	*O-ring*	*EPDM*	*2304 047 035-159*
D10	*O-ring*	*HNBR*	*2304 042 025-055*
D11	*O-ring (Seal kit B)*	*EPDM*	*2304 014 020-170*
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*

Pos.	Designation	Material	DN25 / OD 1 INCH
	Seal kit HNBR (A) ***Seal kit HNBR (B) -*** *rinsing connection upper*	***HNBR*** ***HNBR***	***5670 025 420-000*** ***5670 025 779-000***
D1	*Seal (2x)*	*HNBR*	*5622 050 010-050*
D2	*O-ring (4x)*	*HNBR*	*2304 069 026-050*
D3	-	-	-
D4	*O-ring (2x)*	*HNBR*	*2304 047 035-157*
D5	*O-ring*	*HNBR*	*2304 041 035-157*
D6	-	-	-
D7	*Headless pin*	*AISI304*	*8112 006 040-020*
D8	*O-ring (2x)*	*EPDM*	*2304 036 035-159*
D9	*O-ring*	*EPDM*	*2304 047 035-159*
D10	*O-ring*	*NBR*	*2304 042 025-055*
D11	*O-ring (Seal kit B)*	*EPDM*	*2304 014 020-170*
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*

7 . 2 Spare part list DN 40 - 150 / OD 1 - 4 INCH

➤ Double seat valve Type 567x, DN 40 - 150 / OD 1 - 4 INCH (1.4404 / AISI316L)

Housing variation	Seal	Article-No.	Valve insert VE	Seal kit	
1.) Standard					
SS - S	EPDM	5671 DN 730-xxx			
S - S		5672 DN 730-xxx	5670 DN 730-041	a) 5670 DN 739-020	**= with backup ring for (D4)**
S - SS		5673 DN 730-xxx		b) 5670 DN 739-000	**= without backup ring for (D4)**
SS - SS		5674 DN 730-xxx			
SS - S	HNBR	5671 DN 720-xxx			
S - S		5672 DN 720-xxx	5670 DN 720-041	a) 5670 DN 729-020	**= with backup ring for (D4)**
S - SS		5673 DN 720-xxx		b) 5670 DN 729-000	**= without backup ring for (D4)**
SS - SS		5674 DN 720-xxx			
2.) ext. rinsing connection upper					
SS - S	EPDM	5671 DN 760-xxx			
S - S		5672 DN 760-xxx	5670 DN 760-041	a) 5670 DN 769-020	**= with backup ring for (D4)**
S - SS		5673 DN 760-xxx		b) 5670 DN 769-000	**= without backup ring for (D4)**
SS - SS		5674 DN 760-xxx			
SS - S	HNBR	5671 DN 770-xxx			
S - S		5672 DN 770-xxx	5670 DN 770-041	a) 5670 DN 779-020	**= with backup ring for (D4)**
S - SS		5673 DN 770-xxx		b) 5670 DN 779-000	**= without backup ring for (D4)**
SS - SS		5674 DN 770-xxx			
3.) rinsing connection with cutting ring union M14x1,5 for tube ø8x1					
SS - S	EPDM	5671 DN 762-xxx			
S - S		5672 DN 762-xxx	5670 DN 762-041	a) 5670 DN 769-020	**= with backup ring for (D4)**
S - SS		5673 DN 762-xxx		b) 5670 DN 769-000	**= without backup ring for (D4)**
SS - SS		5674 DN 762-xxx			
SS - S	HNBR	5671 DN 772-xxx			
S - S		5672 DN 772-xxx	5670 DN 772-041	a) 5670 DN 779-020	**= with backup ring for (D4)**
S - SS		5673 DN 772-xxx		b) 5670 DN 779-000	**= without backup ring for (D4)**
SS - SS		5674 DN 772-xxx			
4.) ext. rinsing connection lower					
SS - S	EPDM	5671 DN 793-xxx			
S - S		5672 DN 793-xxx	5670 DN 793-041	a) 5670 DN 799-020	**= with backup ring for (D4)**
S - SS		5673 DN 793-xxx		b) 5670 DN 799-000	**= without backup ring for (D4)**
SS - SS		5674 DN 793-xxx			
SS - S	HNBR	5671 DN 792-xxx			
S - S		5672 DN 792-xxx	5670 DN 792-041	a) 5670 DN 798-020	**= with backup ring for (D4)**
S - SS		5673 DN 792-xxx		b) 5670 DN 798-000	**= without backup ring for (D4)**
SS - SS		5674 DN 792-xxx			

DN = Nominal diameter e.g. 5673 050 130-041 = DN50 , 5673 051 130-041 = 2INCH
xxx = Material in product contact/ Exterior finish / Interrogation system (see 10. classification)
S = Welded end

Pos	Designation	Material	DN40 1½ INCH	DN50 2 INCH	DN65 2½ INCH	DN80 3 INCH	DN100 4 INCH	DN125 -	DN150 -
1	*Housing SS - S DIN S - S S - SS SS - SS*	*AISI316L*	*5621 040 001-041 5622 040 001-041 5623 040 001-041 5624 040 001-041*	*5621 050 001-041 5622 050 001-041 5623 050 001-041 5624 050 001-041*	*5621 065 001-041 5622 065 001-041 5623 065 001-041 5624 065 001-041*	*5621 080 001-041 5622 080 001-041 5623 080 001-041 5624 080 001-041*	*5621 100 001-041 5622 100 001-041 5623 100 001-041 5624 100 001-041*	*5621 125 001-041 5622 125 001-041 5623 125 001-041 5624 125 001-041*	*5621 150 001-041 5622 150 001-041 5623 150 001-041 5624 150 001-041*
1	*Housing SS - S INCH S - S S - SS SS - SS*	*AISI316L*	*5661 040 001-041 5662 040 001-041 5663 040 001-041 5664 040 001-041*	*5661 050 001-041 5662 050 001-041 5663 050 001-041 5664 050 001-041*	*5661 065 001-041 5662 065 001-041 5663 065 001-041 5664 065 001-041*	*5661 080 001-041 5662 080 001-041 5663 080 001-041 5664 080 001-041*	*5661 100 001-041 5662 100 001-041 5663 100 001-041 5624 100 001-041*	*5661 125 001-041 5662 125 001-041 5663 125 001-041 5664 125 001-041*	*5661 150 001-041 5662 150 001-041 5663 150 001-041 5664 150 001-041*
2	*Housing bottom Housing bottom*	*AISI303 AISI303*	*5671 040 008-220 5676 040 023-220*	*5671 050 008-220 5676 050 023-220*	*5671 065 008-220 5676 065 023-220*	*5671 080 008-220 5676 080 023-220*	*5671 100 008-220 5676 100 023-220*	*5671 125 008-220 5676 125 023-220*	*5671 150 008-220 5676 150 023-220*
3	*Retaining clamp (2x)*	*AISI304*	*2122 065 100-020*	*2122 065 100-020*	*2122 080 100-020*	*2122 115 100-020*	*2122 125 100-020*	*2122 150 100-020*	*2122 200 100-020*
4	*Bearing bush lower*	*PTFE*	*5622 050 006-053*	*5622 050 006-053*	*5622 065 006-053*	*5622 080 006-053*	*5622 100 006-053*	*5622 125 006-053*	*5622 150 006-053*
5	*Housing insert lower*	*AISI316L*	*5622 050 005-040*	*5622 050 005-040*	*5622 065 005-040*	*5622 080 005-040*	*5622 100 005-040*	*5622 125 005-040*	*5622 150 005-040*
D1	*Seal (included in seal kit)*	*EPDM HNBR*	*5622 050 010-069 5622 050 010-050*	*5622 050 010-069 5622 050 010-050*	*5622 065 010-069 5622 065 010-050*	*5622 080 010-069 5622 080 010-050*	*5622 100 010-069 5622 100 010-050*	*5622 125 010-069 5622 125 010-050*	*5622 150 010-069 5622 150 010-050*
D2	*O-ring (2x) (included in seal kit)*	*EPDM HNBR*	*2304 069 026-159 2304 069 026-050*	*2304 069 026-159 2304 069 026-050*	*2304 082 026-159 2304 082 026-050*	*2304 098 035-159 2304 098 035-050*	*2304 117 035-159 2304 117 035-050*	*2304 142 035-159 2304 142 035-050*	*2304 177 035-170 2304 177 035-050*

➤ Spare part list - Valve insert Type 5670, DN 40 - 150 / OD 1 - 4 INCH

Pos	Designation	Material	DN40 1½ INCH	DN50 2 INCH	DN65 2½ INCH	DN80 3 INCH	DN100 4 INCH	DN125 -	DN150 -
VE	**Valve insert (a) - DIN -** Standard	EPDM HNBR	5670 040 730-041 5670 040 720-041	5670 050 730-041 5670 050 720-041	5670 065 730-041 5670 065 720-041	5670 080 730-041 5670 080 720-041	5670 100 730-041 5670 100 720-041	5670 125 730-041 5670 125 720-041	5670 150 730-041 5670 150 720-041
VE	**Valve insert (b) - DIN -** ext. rinsing connection upper	EPDM HNBR	5670 040 760-041 5670 040 770-041	5670 050 760-041 5670 050 770-041	5670 065 760-041 5670 065 770-041	5670 080 760-041 5670 080 770-041	5670 100 760-041 5670 100 770-041	5670 125 760-041 5670 125 770-041	5670 150 760-041 5670 150 770-041
VE	**Valve insert (c) - DIN -** rinsing connection with cutting ring union M14x1,5 for tube ø8x1	EPDM HNBR	5670 040 762-041 5670 040 772-041	5670 050 762-041 5670 050 772-041	5670 065 762-041 5670 065 772-041	5670 080 762-041 5670 080 772-041	5670 100 762-041 5670 100 772-041	5670 125 762-041 5670 125 772-041	5670 150 762-041 5670 150 772-041
VE	**Valve insert (b) - DIN -** ext. rinsing connection upper	EPDM HNBR	5670 040 793-041 5670 040 792-041	5670 050 793-041 5670 050 792-041	5670 065 793-041 5670 065 792-041	5670 080 793-041 5670 080 792-041	5670 100 793-041 5670 100 792-041	5670 125 793-041 5670 125 792-041	5670 150 793-041 5670 150 792-041
VE	**Valve insert (a) - INCH -** Standard	EPDM HNBR	5670 038 730-041 5670 038 720-041	5670 051 730-041 5670 051 720-041	5670 064 730-041 5670 064 720-041	5670 076 730-041 5670 076 720-041	5670 101 730-041 5670 101 720-041	-	-
VE	**Valve insert (b) - INCH -** ext. rinsing connection upper	EPDM HNBR	5670 038 760-041 5670 038 770-041	5670 051 760-041 5670 051 770-041	5670 064 760-041 5670 064 770-041	5670 076 760-041 5670 076 770-041	5670 101 760-041 5670 101 770-041	-	-
VE	**Valve insert (c) - INCH -** rinsing connection with cutting ring union M14x1,5 for tube ø8x1	EPDM HNBR	5670 038 762-041 5670 038 772-041	5670 051 762-041 5670 051 772-041	5670 064 762-041 5670 064 772-041	5670 076 762-041 5670 076 772-041	5670 101 762-041 5670 101 772-041	-	-
VE	**Valve insert (b) - INCH -** ext. rinsing connection upper	EPDM HNBR	5670 038 793-041 5670 038 792-041	5670 051 793-041 5670 051 792-041	5670 064 793-041 5670 064 792-041	5670 076 793-041 5670 076 792-041	5670 101 793-041 5670 101 792-041	-	-
4	Bearing bush upper	PTFE	5622 050 006-053	5622 050 006-053	5622 065 006-053	5622 080 006-053	5622 100 006-053	5622 125 006-053	5622 150 006-040
5	Housing insert upper	AISI316L	5622 050 005-040	5622 050 005-040	5622 065 005-040	5622 080 005-040	5622 100 005-040	5622 125 005-040	5622 150 005-040
6	Piston lower -Ventileinsatz (a),(b),(c) Piston lower -Ventileinsatz (d)	AISI316L	5621 040 005-040 5676 040 023-040	5671 050 005-040 5676 050 023-040	5671 065 005-040 5676 065 023-040	5671 080 005-040 5676 080 023-040	5671 100 005-040 5676 100 023-040	5671 125 005-040 5676 125 023-040	5671 150 005-040 5676 150 023-040
7	Piston upper	AISI316L	5621 040 007-040	5621 050 007-040	5621 065 007-040	5621 080 007-040	5621 100 007-040	5621 125 007-040	5621 150 007-040
8	Piston plate upper	AISI316L	5621 050 006-040	5621 050 006-040	5621 065 006-040	5621 080 006-040	5621 100 006-040	5621 125 006-040	5621 150 006-040
9	Piston plate lower	AISI316L	5621 040 004-040	5621 050 004-040	5621 065 004-040	5621 080 004-040	5621 100 004-040	5621 125 004-040	5621 150 004-040
10	Disc	AISI304	8071 064 001-020	8071 064 001-020	8071 064 001-020	8071 084 001-020	8071 084 001-020	8071 105 001-020	8071 105 001-020
11	Hexagon nut	AISI304	8113 006 000-020	8113 006 000-020	8113 006 000-020	8113 008 000-020	8113 008 000-020	8113 010 000-020	8113 010 000-020
12	Plain bearing	XMS	8050 015 007-156	8050 015 007-156	8050 015 007-156	8050 020 007-156	8050 020 007-156	8050 020 007-156	8050 020 007-156
13	Split washer	AISI304	8140 006 001-020	8140 006 001-020	8140 006 001-020	8072 008 001-020	8072 008 001-020	-	-
14	Hexagon screws Disc DIN125	AISI304 AISI304	8106 008 016-020 -	8106 008 016-020 -	8106 008 016-020 -	8106 008 016-020 -	8106 008 016-020 -	8106 008 025-020 8071 084 001-020	8106 008 025-020 8071 084 001-020
15	Lantern Valve insert (a), (d) Lantern complete -Valve insert (b) Lantern complete. -Valve insert (c)	AISI304 AISI304 AISI304	5624 040 008-021 5624 040 515-021 5624 040 517-021	5624 050 008-021 5624 050 515-021 5624 050 517-021	5624 065 008-021 5624 065 515-021 5624 065 517-021	5624 080 008-021 5624 080 515-021 5624 080 517-021	5624 100 008-021 5624 100 515-021 5624 100 517-021	5624 125 008-021 5624 125 515-021 5624 125 517-021	5624 150 008-021 5624 150 515-021 5624 150 517-021
16	Valve lift stop	AISI303	5622 040 009-220	5622 050 009-220	5622 065 009-220	5622 080 009-220	5622 100 009-220	5622 125 009-220	5622 150 009-220
17	pneum. actuator	AISI304	5620 065 000-021	5620 065 000-021	5620 065 000-021	5620 100 000-021	5620 100 000-021	5620 150 000-021	5620 150 000-021
D13	O-ring		2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055
K	Cap	NBR	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220
Sp1	Screwed socket: Rinsing connection M14x1,5 cutting ring union	AISI303	5624 065 506-220	5624 065 506-220	5624 065 506-220	5624 100 506-220	5624 100 506-220	5624 150 506-220	5624 150 506-220
Sp2	Screwed socket: Rinsing connection DN15	AISI303	5624 065 514-020	5624 065 514-020	5624 065 514-020	5624 100 514-020	5624 100 514-020	5624 150 514-020	5624 150 514-020
LA1	One-way restricter	-	8218 001 020-000	8218 001 020-000	8218 001 020-000	8218 001 020-000	8218 001 020-000	8218 001 020-000	8218 001 020-000
LA3	Rapid action hose coupling	-	8217 000 004-000	8217 000 004-000	8217 000 004-000	8217 000 004-000	8217 000 004-000	8217 000 004-000	8217 000 004-000

➤ Seal kits Double seat valve Type 567x, DN 40 - 150 / OD 1 - 4 INCH

Pos	Designation	Material	DN40 1½ INCH	DN50 2 INCH	DN65 2½ INCH	DN80 3 INCH	DN100 4 INCH	DN125 -	DN150 -
	Seal kit EPDM (A) *- Standard*	*EPDM a)* *EPDM b)*	*5670 040 739-020* *5670 040 739-000*	*5670 050 739-020* *5670 050 739-000*	*5670 065 739-020* *5670 065 739-000*	*5670 080 739-020* *5670 080 739-000*	*5670 100 739-020* *5670 100 739-000*	*5670 125 739-020* *5670 125 739-000*	*5670 150 739-000* -
	Seal kit EPDM (B) *- Rinsing connection upper*	*EPDM a)* *EPDM b)*	*5670 040 769-020* *5670 040 769-000*	*5670 050 769-020* *5670 050 769-000*	*5670 065 769-020* *5670 065 769-000*	*5670 080 769-020* *5670 080 769-000*	*5670 100 769-020* *5670 100 769-000*	*5670 125 769-020* *5670 125 769-000*	*5670 150 769-000* -
	Seal kit EPDM (C) *- Rinsing connection lower*	*EPDM a)* *EPDM b)*	*5670 040 799-020* *5670 040 799-000*	*5670 050 799-020* *5670 050 799-000*	*5670 065 799-020* *5670 065 799-000*	*5670 080 799-020* *5670 080 799-000*	*5670 100 799-020* *5670 100 799-000*	*5670 125 799-020* *5670 125 799-000*	*5670 150 799-000* -
D1	*Shaft seal (2x)*	*EPDM*	*5622 050 010-069*	*5622 050 010-069*	*5622 065 010-069*	*5622 080 010-069*	*5622 100 010-069*	*5622 125 010-069*	*5622 150 010-069*
D2	*O-ring (4x)*	*EPDM*	*2304 069 026-159*	*2304 069 026-159*	*2304 082 026-159*	*2304 098 035-159*	*2304 117 035-159*	*2304 142 035-159*	*2304 177 035-170*
D3	*O-ring*	*EPDM*	*2304 026 015-170*	*2304 026 015-170*	*2304 029 015-170*	*2304 042 020-170*	*2304 036 020-170*	*2304 036 020-170*	*2304 036 020-170*
D4 *D4*	*Seal (2x)* *Seal (2x) two-parts (till 05/2016)*	*EPDM* *EPDM*	- *5621 055 025-084*	- *5621 055 025-084*	- *5621 065 025-084*	- *5621 080 025-084*	- *5621 100 025-084*	- *2304 113 025-084*	*2304 133 053-159* -
D5	*O-ring*	*EPDM*	*2304 041 035-159*	*2304 041 035-159*	*2304 050 035-159*	*2304 066 035-159*	*2304 085 035-159*	*2304 111 035-084*	*2304 140 035-159*
D6	*O-ring*	*EPDM*	*2304 038 018-170*	*2304 038 018-170*	*2304 048 020-170*	*2304 057 020-170*	*2304 076 020-170*	*2304 092 035-159*	*2304 108 035-170*
D7	*Headless pin*	*AISI316L*	*8112 006 050-040*	*8112 006 060-040*	*8112 006 085-040*	*8112 008 050-040*	*8112 008 085-040*	*8112 010 065-020*	*8112 010 090-040*
D8	*O-ring (2x)*	*EPDM*	*2304 036 035-159*	*2304 036 035-159*	*2304 036 035-159*	*2304 041 035-159*	*2304 041 035-159*	*2304 041 035-159*	*2304 041 035-159*
D9	*O-ring*	*EPDM*	*2304 047 035-159*	*2304 047 035-159*	*2304 057 035-159*	*2304 069 035-159*	*2304 092 035-159*	*2304 117 035-159*	*2304 142 035-159*
D10	*O-ring*	*NBR*	*2304 042 025-055*	*2304 042 025-055*	*2304 042 025-055*	*2304 046 025-055*	*2304 046 025-055*	*2304 046 025-055*	*2304 046 025-055*
D11	*O-ring (1x) (Seal kit B)* *O-ring (2x) (Seal kit C)*	*EPDM*	*2304 014 020-170*	*2304 014 020-170*	*2304 014 020-170*	*2304 014 020-170*	*2304 016 020-170*	*2304 016 020-170*	*2304 016 020-170*
D12	*O-ring (2x) (only seal kit C)*	*EPDM*	-	*2304 036 035-159*	*2304 054 035-159*	*2304 082 035-159*	-	-	-
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*	*8113 006 000-020*	*8113 006 000-020*	*8113 008 000-020*	*8113 008 000-020*	*8113 010 000-020*	*8113 010 000-020*

a) Seal kit with backup ring for (D4)
b) Seal kit without backup ring for (D4)

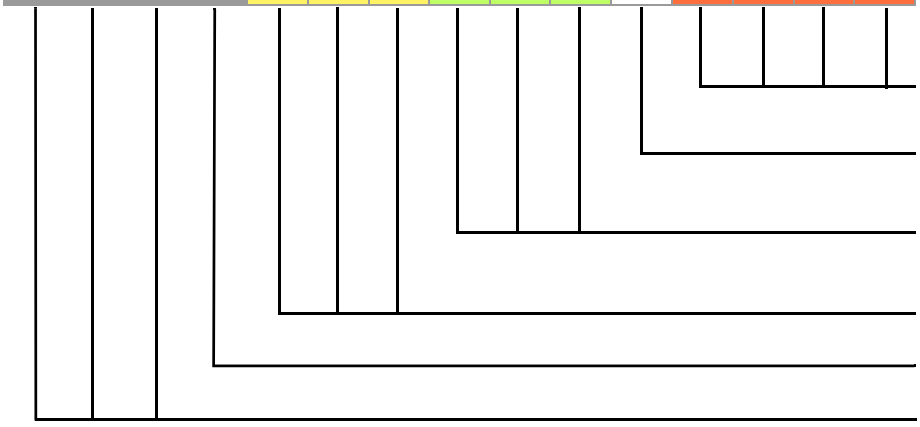
Pos	Designation	Material	DN40 1½ INCH	DN50 2 INCH	DN65 2½ INCH	DN80 3 INCH	DN100 4 INCH	DN125 -	DN150 -
	Seal kit HNBR (A) *- Standard*	*HNBR a)* *HNBR b)*	*5670 040 729-020* *5670 040 729-000*	*5670 050 729-020* *5670 050 729-000*	*5670 065 729-020* *5670 065 729-000*	*5670 080 729-020* *5670 080 729-000*	*5670 100 729-020* *5670 100 729-000*	*5670 125 729-020* *5670 125 729-000*	*5670 150 729-000* -
	Seal kit HNBR (B) *- Rinsing connection upper*	*HNBR a)* *HNBR b)*	*5670 040 779-020* *5670 040 779-000*	*5670 050 779-020* *5670 050 779-000*	*5670 065 779-020* *5670 065 779-000*	*5670 080 779-020* *5670 080 779-000*	*5670 100 779-020* *5670 100 779-000*	*5670 125 779-020* *5670 125 779-000*	*5670 150 779-000* -
	Seal kit HNBR (C) *- Rinsing connection lower*	*HNBR a)* *HNBR b)*	*5670 040 798-020* *5670 040 798-000*	*5670 050 798-020* *5670 050 798-000*	*5670 065 798-020* *5670 065 798-000*	*5670 080 798-020* *5670 080 798-000*	*5670 100 798-020* *5670 100 798-000*	*5670 125 798-020* *5670 125 798-000*	*5670 150 798-000* -
D1	*Shaft seal (2x)*	*HNBR*	*5622 050 010-050*	*5622 050 010-050*	*5622 065 010-050*	*5622 080 010-050*	*5622 100 010-050*	*5622 125 010-050*	*5622 150 010-050*
D2	*O-ring (4x)*	*HNBR*	*2304 069 026-050*	*2304 069 026-050*	*2304 082 026-050*	*2304 098 035-050*	*2304 117 035-050*	*2304 142 035-050*	*2304 177 035-050*
D3	*O-ring*	*EPDM*	*2304 026 015-170*	*2304 026 015-170*	*2304 029 015-170*	*2304 042 020-170*	*2304 036 020-170*	*2304 036 020-170*	*2304 036 020-170*
D4 *D4*	*Seal (2x)* *Seal (2x) two-parts (till 05/2016)*	*HNBR* *HNBR*	- *5621 055 025-171*	- *5621 055 025-171*	- *5621 065 025-171*	- *5621 080 025-171*	- *5621 100 025-171*	- *2304 113 025-171*	*2304 133 053-157* -
D5	*O-ring*	*HNBR*	*2304 041 035-157*	*2304 041 035-157*	*2304 050 035-157*	*2304 066 035-157*	*2304 085 035-157*	*2304 111 035-157*	*2304 140 035-157*
D6	*O-ring*	*EPDM*	*2304 038 018-170*	*2304 038 018-170*	*2304 048 020-170*	*2304 057 020-170*	*2304 076 020-170*	*2304 092 035-159*	*2304 108 035-170*
D7	*Headless pin*	*AISI316L*	*8112 006 050-040*	*8112 006 060-040*	*8112 006 085-040*	*8112 008 050-040*	*8112 008 085-040*	*8112 010 065-020*	*8112 010 090-040*
D8	*O-ring (2x)*	*EPDM*	*2304 036 035-159*	*2304 036 035-159*	*2304 036 035-159*	*2304 041 035-159*	*2304 041 035-159*	*2304 041 035-157*	*2304 041 035-159*
D9	*O-ring*	*EPDM*	*2304 047 035-159*	*2304 047 035-159*	*2304 057 035-159*	*2304 069 035-159*	*2304 092 035-159*	*2304 117 035-159*	*2304 142 035-159*
D10	*O-ring*	*NBR*	*2304 042 025-055*	*2304 042 025-055*	*2304 042 025-055*	*2304 046 025-055*	*2304 046 025-055*	*2304 046 025-055*	*2304 046 025-055*
D11	*O-ring (1x) (Seal kit B)* *O-ring (2x) (Seal kit C)*	*EPDM*	*2304 014 020-170*	*2304 014 020-170*	*2304 014 020-170*	*2304 014 020-170*	*2304 016 020-170*	*2304 016 020-170*	*2304 016 020-170*
D12	*O-ring (2x) (only seal kit C)*	*EPDM*	-	*2304 036 035-159*	*2304 054 035-159*	*2304 082 035-159*	-	-	-
11	*Hexagon nut*	*AISI304*	*8113 006 000-020*	*8113 006 000-020*	*8113 006 000-020*	*8113 008 000-020*	*8113 008 000-020*	*8113 010 000-020*	*8113 010 000-020*

a) Seal kit with backup ring for (D4)
b) Seal kit without backup ring for (D4)

8. Classification

8.1 Structure of Order Number

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
5	6	7	1	0	5	0	7	3	0	-	G	6	0	9



Control system / Feedback unit / Surfaces finish

Separator

Sealing material Consstruction modification

Valve size DN/OD

Housing type

Product type

➤ 0 - 2 Product type

567x xxx xxx-xxxx

Product = Double seat valve with in product contact seals EPDM or HNBR

➤ 3 Housing type

567**X** xxx xxx-xxxx

Housing			3
5670	without housing (valve insert)	-	0
5671	SS - S		1
5672	S - S		2
5673	S - SS		3
5674	SS - SS		4

➤ 4 - 6 Valve size DN/OD

567x **XXX** xxx-xxxx

DN	4	5	6
DN 25	0	2	5
DN 40	0	4	0
DN 50	0	5	0
DN 65	0	6	5
DN 80	0	8	0
DN 100	1	0	0
DN 125	1	2	5
DN 150	1	5	0

OD	4	5	6
OD 1"	0	2	6
OD 1 1/2"	0	3	8
OD 2 "	0	5	1
OD 2 1/2"	0	6	4
OD 3 "	0	7	6
OD 4 "	1	0	1
OD 5"	1	2	7
OD 6 "	1	5	2

➤ 7 - 9 Sealing material & Construction modification

567x xxx **XXX**-xxxx

in product contact Seals & modifications	7	8	9
EPDM	7	3	0
HNBR	7	2	0
EPDM - external rinsing connection upper	7	6	0
HNBR - external rinsing connection upper	7	7	0
EPDM - external rinsing connection lower	7	9	3
HNBR - external rinsing connection lower	7	9	2
EPDM - Screwed socket: Rinsing connection M14x1,5 cutting ring union	7	6	2
HNBR - Screwed socket: Rinsing connection M14x1,5 cutting ring union	7	7	2

➤ 10 Separator

567x xxx xxx-xxxx

- Separator

➤ 11 - 14 Control system / Feedback unit / Surfaces finish

567x xxx xxx-**XXXX**

control system / feedback unit / surfaces finish	11	12	13	14
Guth-valve without control system, surfaces, AISI304, blank	0	2	0	
Guth-valve without control system, surfaces, AISI304, e-polished	0	2	1	
Guth-valve without control system, surfaces, AISI304, matt	0	2	2	
Guth-valve without control system, surfaces, AISI316L, blank	0	4	0	
Guth-valve without control system, surfaces, AISI316L, e-polished	0	4	1	
Guth-valve without control system, surfaces, AISI316L, matt	0	4	2	
Guth-valve mit Rückmeldeeinheit (5630 005 000-020)	7	5	0	
Guth-valve with control head KI-Top SPS for double seat valves	G	5	x	x
Guth-valve with control head KI-Top ASi-Bus for double seat valves	G	6	x	x

Declaration of incorporation

Translation of the original

Manufacturer / authorised representative:

Guth Ventiltechnik GmbH
Horstring 16
76829 Landau
Germany

Authorised representative,
for compiling technical documents:

Achim Kauselmann
Documentation / Development
KIESELMANN GmbH

Product	**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
- DIN EN ISO 12100 Safety of machinery

Landau, 01.07.2016

Oliver Hecker
General Manager