



KIESELMANN
FLUID PROCESS GROUP

Operating instructions

- Translation of the original -

Single seat valve

Inclined seat valve Type: 5702

pneumatic operation



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2. General safety instructions

2.1 Information for your safety

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




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

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

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

2.2 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 may cause severe personal injury or death.
	ATTENTION	Dangerous situation which may cause slight personal injury or material damages.
	NOTE	Marks application hints and other information which is particularly useful.

2.3 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. KIESELMANN cannot be held liable for any damage resulting from such use. The risk of such misuse lies entirely with the user. The prerequisite for the reliable and safe operation of the fitting is proper transportation and storage as well as competent installation and assembly.

Operating the fitting within the limits of its designated use also involves observing the operating, inspection and maintenance instructions.

2.4 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.

2.5 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.

2.6 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 following:

- 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.

3. Safety instructions

3.1 Field of application

Angle valves are utilised as a pneumatically controlled shut-off valve in food and beverage as well as in pharmaceutical, biotechnological and chemical industries.



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.

3.2 General safety instructions



DANGER

- 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.
- The spring preloaded valve insert (air open - spring close) may incur serious injuries by jumping out of the housing.
Pneumatically open the valve before disassembling the clamp coupling, so that upstroke the piston in direction "X" (Fig. 3 /Page 9).



ATTENTION

- 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.

3.3 General notes



NOTE

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

4. Function

4.1 Functional description

The valve opens and closes by means of a pneumatical actuator. The sealing function in the closed position is performed statically.

- air open - spring close (lö-fs)
 - ▶ pneum. operated ⇒ opens the valve
 - ▶ not pneum. operated ⇒ spring tension closes the valve
- air close - spring open (fö-ls)
 - ▶ pneum. operated ⇒ closes the valve
 - ▶ not pneum. operated ⇒ spring tension opens the valve
- air open - air close (fö-ls)
 - ▶ pneum. operated ⇒ opens the valve
 - ▶ pneum. operated ⇒ closes the valve

5. Installation informations

5.1 Installation instructions

Preferably install the valve vertically. Install the connection lines in such a way as to permit the liquids to drain freely out of the housing.



NOTE

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

Valves with welded ends that serve as connecting members can be directly welded to the piping.

5.2 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 (EN287). Use the TIG (Tungsten Inert Gas) welding process.



NOTE

Impurities can cause damage to the seals and seals area. Clean inside areas prior to assembly.

6. Maintenance

6.1 Maintenance

The maintenance intervals depend on the operating conditions "temperature, temperature-intervals, medium, cleaning medium, pressure and opening frequency". It is recommended to change the seals annually. The maintenance intervals, however, depend on the condition of the seals and are to be fixed by the user.

> Actuator

The actuator is maintenance-free and non-removable.



NOTE

EPDM; Viton; k-flex →
NBR; HNBR; Silicone →
Thread →

Lubricants

Klüber Paraliq GTE
Klüber Paraliq GB 363
Teflon grease Interflon

*) 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.

6.2 Cleaning

Cleaning of the upper and lower valve chambers is performed with the pipe cleaning system.

7. Control system - and interrogation system

7.1 Control head - optional-

Optionally, modular valve control systems can be installed to the actuator for reading and actuating valve positions. The standard version is a closed system with twofold limit position messaging (standard), with SPS, Interbus or ASI bus switch-on electronics, and integrated 3/2-way solenoid valves. For tough operating conditions we recommend employing a stainless steel hood.

7.2 Proximity switch mounting set -optional-

For the acquisition of the valve positions over inductive initiators, a limit switch support is mounted on the actuation. The enquiry takes place over the position of the piston rod.

8. Technical data

Model:	Angel valve pneumatic operation	
Valve size:	DN: 25 - 100 DN: 1inch - 4inch	
Connections:	Welding end	
Temperature range:	<ul style="list-style-type: none"> Ambient temperature: +4° to +45°C Product temperature: +0° to +95°C medium dependent Sterilization temperature: <ul style="list-style-type: none"> - EPDM +140°C short-time (30 min.) - HNBR +130°C short-time (30 min.) 	
Vaccum:	1,5 - 10 ⁻⁶ mbar x 1/s (test pressure 0,5mbar)	
Control air pressure:	6,0 - 8,0 bar	
Quality of control air:	ISO 8573-1 : 2001 quality class 3	
Material:	in product contact	not in product contact
Stainless steel type:	1.4404 / AISI316L	1.4301 / AISI304 1.4305 / AISI303
Surfaces:	RA ≤0,8µm e-pol.	metallic bright, e-pol.
Seals:	EPDM (FDA)	HNBR

Operation pressures (bar): (6bar control air pressure)							
Nominal diameter DN							
DIN	25	40	50	65	80	100	
INCH	1	1½	2	2½	3	4	
bar	12	12	10	6,5	10	7	

Tightening moment: (Torque in Nm) Retaining clamp:							
Nominal diameter DN							
DIN	25	40	50	65	80	100	
INCH	1	1½	2	2½	3	4	
Nm	15	15	15	25	20	55	

Fluiddynamic measurement : (accroding to DIN EN 60534-2-3)							
Nominal diameter DN							
DIN	25	40	50	65	80	100	
INCH	1	1½	2	2½	3	4	
m³/h	20	40	80	130	190	260	



U-A

9. Pneumatic valve actuation

9.1 Actuator: air open - spring close

Valve function	pneumatic control with MV in control unit (Fig. 1 /Page 6)	pneumatic control with external solenoid valve (MV) (Fig. 1 /Page 6)
Valve "OPEN"	control air feed P → MV1 → P1/LA2 Valve is opening by control air	control air feed ext. MV → LA2 Valve is opening by control air
Valve "CLOSED"	de-aeration LA2/P1 → MV1 → R Valve is closing by spring	de-aeration LA → ext. MV Valve is closing by spring

9.2 Actuator: air close - spring open

Valve function	pneumatic control with MV in control unit (Fig. 1 /Page 6)	pneumatic control with external solenoid valve (MV) (Fig. 1 /Page 6)
Valve "CLOSED"	control air feed P → MV1 → P1/LA1 Valve is closing by control air	control air feed ext. MV → LA1 Valve is closing by control air
Valve "OPEN"	de-aeration P1/LA1 → MV1 → R Valve is opening by spring	de-aeration LA1 → ext. MV Valve is opening by spring

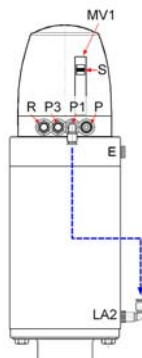
9.3 Actuator: air open - air close

Valve function	pneumatic control with MV in control unit (Fig. 1 /Page 6)	pneumatic control with external solenoid valve (MV) (Fig. 1 /Page 6)
Valve "OPEN"	control air feed P → MV1 → P1/LA1 Valve is opening by control air	control air feed ext. MV → LA1 Valve is opening by control air
Valve "CLOSED"	de-aeration P → MV3 → P3/LA2 Valve is closing by control air	de-aeration ext. MV → LA2 Valve is closing by control air

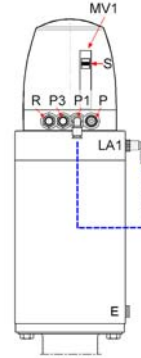
Control unit with solenoid valve

MV = Solenoid valve
 R = De-aeration, Sound absorber
 P = Compressed-air inlet (control unit)
 E = De-aeration
 LA = Compressed air inlet (actuation)
 S = Slide switch - manual control
 (solenoid valves)

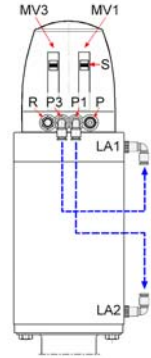
air open - spring close



air close - spring open



air open - air close



Control head with Initiatoren

I = Initiatoren
 H = Angle bracket
 E = De-aeration
 LA = Compressed air inlet (actuation)

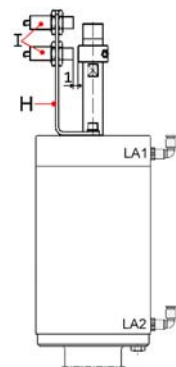
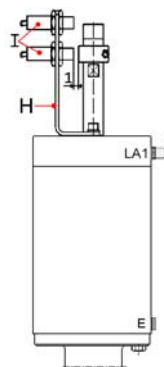
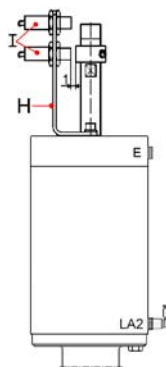


Fig. 1

10. Disassembly and assembly

>Lubricants

- EPDM; Viton; k-flex
Klüber Paraliq GTE 703
- NBR; HNBR; Silicone
Klüber Paraliq GB 363
- Thread
Teflongrease Interflon

10.1 Removing the pneum. valve insert (air open/spring close)

- Pneumatically open the valve, so that upstroke the piston (1) in direction X (Fig. 3 /Page 9).
- Remove the retaining clamp (VK).
- In an upward direction, dismount the complete valve insert from the valve.

10.2 Removing the pneum. valve insert (air close/spring open) (air open/air close)

- Remove the retaining clamp (VK).
- In an upward direction, dismount the complete valve insert from the valve.

10.3 Disassembly



NOTE

All threaded joint have right-hand thread.

Unscrew and remove control air, steam i.e. cleaning lines and electrical lines, complete proximity switch mounting or control head.

➤ Exchanging „A“ Item (D1), (D2), (D3).

- Loosen screw (6) and move the lantern (5) until the spanner flat (SW1) and the bore hole (B) is visible.
- Unscrew piston (1) from piston rod (7) (SW1/B).
- Slide off insert (2), bearing bush (3), O-ring (D2) and seal (D3) from the piston (1) in opposite direction "X".
- Replace seals and wearing parts.



NOTE

Puncture the o-ring (D1) at the centre with a pointed tool and remove them carefully from the groove.

➤ Exchanging „B“ Item (D4).

- See - Dismantling exchanging seals „A“.
- Remove screw (6) and dismount the lantern (5).
- Screw off the thread connection Pos. (G1) of the piston rods (7) and the spindle (10) at the spanner surfaces (SW1 und SW2).
- Remove axially the piston rod (7) and spindle (10) from the lift drive.
- Replace the o-ring (D4) (2x).

10.4 Assembly

- Thoroughly clean and slightly lubricate mounting areas and running surfaces.
- Assemble in reverse order.



NOTE

Alternately press and roll the seal (D1) into the groove with round body.

- Thread connection (G1) assembly with **removeable screw retention (e.g. Loctite 243)** .
- Assemble in reverse order.
- Check the valve function.

11. Dimensions

11.1 Size measurement table

DN	d1	d2	L1	L2
25 1 INCH	26 22,1	29 25,4	126	319
40 1½ INCH	38 34,8	41 38,1	138	324
50 2 INCH	50 47,5	53 50,8	150	338
65 2½ INCH	66 60,2	70 63,5	185	356
80 3 INCH	81 72,8	85 76,1	219	432
100 4 INCH	100 97,4	104 101,6	247	477

11.2 Dimensioned drawing

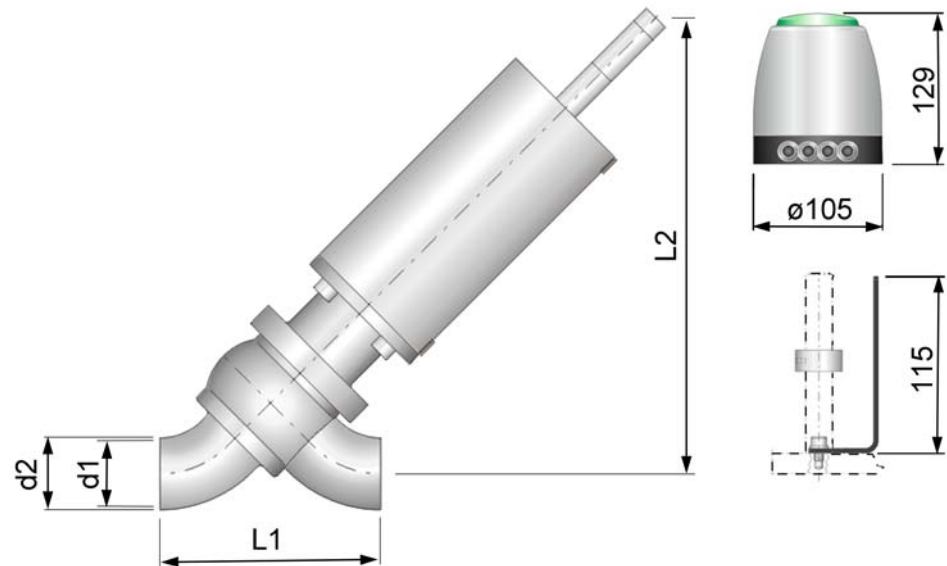


Fig. 2

12. Drawings

A1 = Control head

A2 = Sensor mounting

LA1 = air open-spring close - De-aeration
 = air close-spring open - Valve stroke
 = air open-air close - Valve stroke

LA2 = air open-spring close - Valve stroke
 = air close-spring open - De-aeration
 = air open-air close - Valve stroke

VE = Valve insert

VG = Valve housing

VK = Retaining clamp

P = Compressed air inlet

P1 = Compressed air outlet - valve stroke

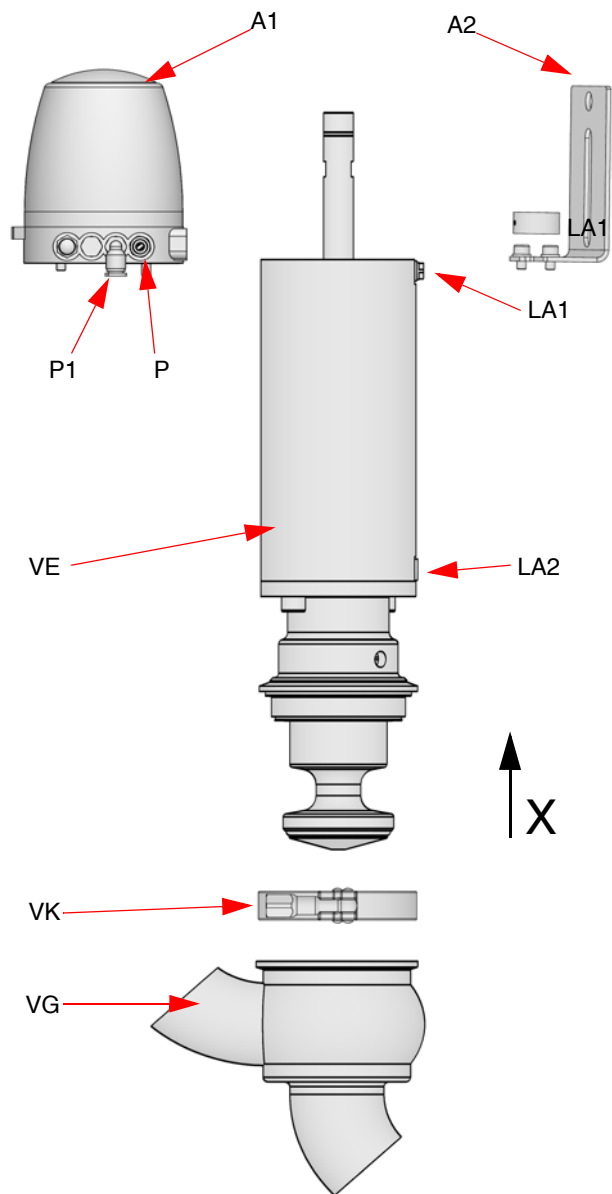


Fig. 3

12.1 Valve insert (VE)

- 1 = Piston
- 2 = Insert
- 3 = Bearing bush
- 4 = Washer screw retention
- 5 = Lantern
- 6 = Screw
- 7 = Piston rod
- 8 = Actuator
- 9 = Shaft
- 10 = Spindle
- 11 = O-Ring
- 12 = Cap
- 13 = Position indication

- D1 = O-Ring
- D2 = O-Ring
- D3 = Seal
- D4 = O-Rings

- B = Bore hole
- G1 = Thread connection secured with Lock nut removeable (e.g. Loctite 243)
- G2 = Thread connection secured with Lock nut high-strength (e.g. Loctite 2701)

- LA1 = air open-spring close - De-aeration
= air close-spring open - Valve stroke
= air open-air close - Valve stroke
- LA2 = air open-spring close - Valve stroke
= air close-spring open - De-aeration
= air open-air close - Valve stroke
- SW = Wrench size 17mm

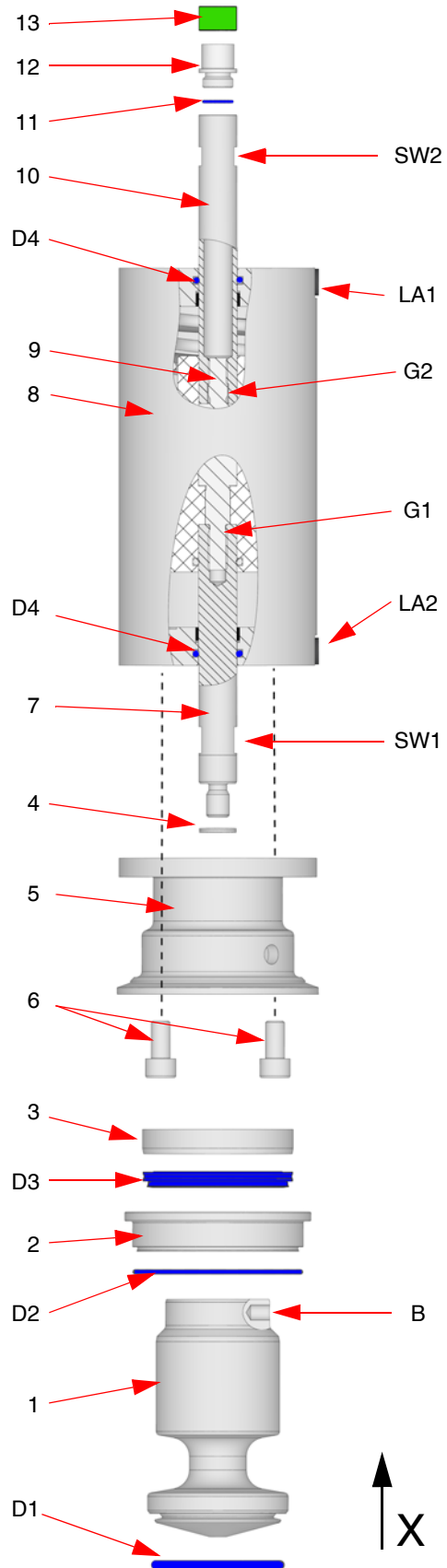
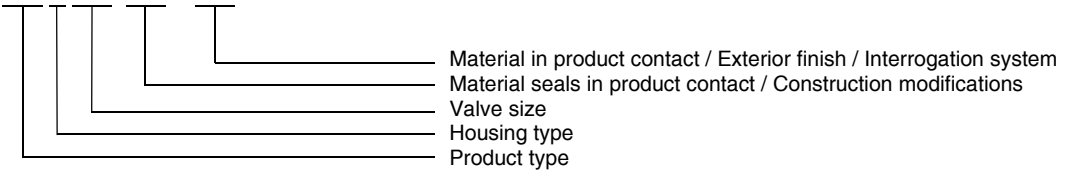


Fig. 4

13. Manufacturing

13.1 Structure of Article number

5702 050 030 - 041



► Product type

57xx = Single seat valve

► Housing type

Inclined seat valve

S-S



► Valve size

DN = Nominal diameter

DIN	025 = DN25	040 = DN40	050 = DN50	065 = DN65	080 = DN80	100 = DN100	125 = DN125	150 = DN150
INCH	026 = DN1	038 = DN1½	051 = DN2	064 = DN2½	076 = DN3	101 = DN4	-	-

► Material seal / Construction modifications

Material seals in product contact:

- EPDM

- HNBR

Modifications:	Type of actuation:	- air open - spring close	57xx DN 030-xxx	57xx DN 035-xxx
		- spring open - air close	57xx DN 130-xxx	57xx DN 135-xxx
		- air open - air close	57xx DN 330-xxx	57xx DN 335-xxx

► Material in product contact / Exterior finish

020 - 1.4301 / AISI304	- bright turned	040 - 1.4404 / AISI316L	- bright turned
021 - 1.4301 / AISI304	- E-polished	041 - 1.4404 / AISI316L	- E-polished
022 - 1.4301 / AISI304	- unpolished, glass-bead blasted	042 - 1.4404 / AISI316L	- unpolished, glass-bead blasted

► Interrogation system

Article number	Control System or Interrogation System (A1, A2)
57xx DN xxx -041	Valve without control- or interrogation system
57xx DN xxx -750	Valve with Sensor mounting set (5630 005 000-020)
57xx DN xxx -6xx	Control head ASi-Bus
57xx DN xxx -K6xx	Control head KI-Top ASi-Bus
57xx DN xxx -5xx	Control head SPS
57xx DN xxx -K5xx	Control head KI-Top SPS

DN - Nominal diameter e.g. 57xx 050 030-041

14. Spare parts list

14.1 Inclined seat valve Type: 5702 (1.4404 / AISI316L)

Housing	Seal	Actuator	Valve	Seal kit
S-S	EPDM	lö - fs	5702 DN 030-xxx	5706 DN 990-054
		fö - ls	5702 DN 130-xxx	5706 DN 990-054
		lö - ls	5702 DN 330-xxx	5706 DN 990-054
S-S	HNBR	lö - fs	5702 DN 035-xxx	5706 DN 990-050
		fö - ls	5702 DN 135-xxx	5706 DN 990-050
		lö - ls	5702 DN 335-xxx	5706 DN 990-050

DN = Nominal diameter e.g. 5702 050 130-041 = DN50, 5702 051 130-041 = 2INCH

xxx = Interrogation system

lö = air open

ls = air close

fö = spring open

fs = spring close

Item	Designation	Material	DN25 1 INCH	DN40 1½ INCH	DN50 2 INCH	DN65 2½ INCH	DN80 3 INCH	DN100 4 INCH
VE	Valve insert lö - fs	- DIN -INCH	5706 025 020-041	5706 040 020-041	5706 050 020-041	5706 065 020-041	5706 080 020-041	5706 100 020-041
	Valve insert fö - ls	- DIN -INCH	5706 025 023-041	5706 040 023-041	5706 050 023-041	5706 065 023-041	5706 080 023-041	5706 101 023-041
	Valve insert lö - ls	- DIN -INCH	5706 026 023-041	5706 038 023-041	5706 051 023-041	5706 064 023-041	5706 076 023-041	5706 101 023-041
	Valve insert lö - ls	- DIN -INCH	5706 025 026-041	5706 040 026-041	5706 050 026-041	5706 065 026-041	5706 080 026-041	5706 101 026-041
VE	Valve insert lö - fs	- DIN -INCH	5706 025 021-041	5706 040 021-041	5706 050 021-041	5706 065 021-041	5706 080 021-041	5706 100 021-041
	Valve insert fö - ls	- DIN -INCH	5706 025 024-041	5706 040 024-041	5706 050 024-041	5706 065 024-041	5706 080 024-041	5706 100 024-041
	Valve insert lö - ls	- DIN -INCH	5706 026 024-041	5706 038 024-041	5706 051 024-041	5706 064 024-041	5706 076 024-041	5706 101 024-041
	Valve insert lö - ls	- DIN -INCH	5706 025 027-041	5706 040 027-041	5706 050 027-041	5706 065 027-041	5706 080 027-041	5706 100 027-041
IP	Pulse generator ^a	-	5702 040 005-000	5702 065 005-000	5702 065 005-000	5702 065 005-000	5702 100 005-000	5702 100 005-000
VG	Housing S-S	-DIN -Zoll	5701 025 031-041 5701 026 031-041	5701 040 031-041 5701 038 031-041	5701 050 031-041 5701 051 031-041	5701 065 031-041 5701 064 031-041	5701 080 031-041 5701 076 031-041	5701 100 031-041 5701 101 031-041
VK	Retaining clamp	AISI304	2122 065 100-020	2122 065 100-020	2122 065 100-020	2122 080 100-020	2122 115 100-020	2122125100-020

a) only required by use of a KIESELMANN control head

14.2 Valve insert VE

Item	Designation	Material	DN25 1 INCH	DN40 1½ INCH	DN50 2 INCH	DN65 2½ INCH	DN80 3 INCH	DN100 4 INCH
1	Piston	-DIN -INCH	AISI316L	5706 025 002-040	5706 040 002-040	5706 050 002-040	5706 065 002-040	5706 080 002-040
			AISI316L	5706 026 002-040	5706 038 002-040	5706 051 002-040	5706 064 002-040	5706 076 002-040
2	Insert		AISI316L	5622 050 005-040	5622 050 005-040	5622 050 005-040	5622 065 005-040	5622 080 005-040
3	Bearing bush		AISI316L	5622 050 006-053	5622 050 006-053	5622 050 006-053	5622 065 006-053	5622 080 006-053
4	Washer screw retention		AISI304	8135 012 195-040	8135 012 195-040	8135 012 195-040	8135 012 195-040	8135 012 195-040
5	Lantern		AISI304	5706 050 010-021	5706 050 010-021	5706 050 010-021	5706 065 008-021	5706 080 008-021
6	Screw		AISI316L	8095 010 020-020 M10x20 (2x)	8095 010 020-020 M10x20 (2x)	8095 010 020-020 M10x20 (2x)	8095 010 020-020 M10x20 (2x)	8106 008 016-020 M8x16 (4x)
7	Piston rod		AISI304	5200 104 052-020	5200 104 052-020	5200 104 052-020	5200 104 052-020	5200 157 057-020
8	Actuator lö - fs	AISI304	AISI304	5200 104 051-032	5200 104 051-032	5200 104 051-032	5200 104 051-032	5200 157 051-032
			AISI304	5400 104 051-032	5400 104 051-032	5400 104 051-032	5400 104 051-032	5400 157 051-032
			AISI304	5300 104 050-032	5300 104 050-032	5300 104 050-032	5300 104 050-032	5300 157 051-032
9	Shaft	AISI304	AISI304	5200 104 053-020	5200 104 053-020	5200 104 053-020	5200 104 053-020	5200 157 056-020
			AISI304	5200 104 053-020	5200 104 053-020	5200 104 053-020	5200 104 053-020	5200 157 056-020
			AISI304	5200 104 053-020	5200 104 053-020	5200 104 053-020	5200 104 053-020	5200 157 056-020
10	Spindle upper		AISI303	5622 100 070-220	5622 100 070-220	5622 100 070-220	5622 100 070-220	5622 100 070-220
11	O-Ring		EPDM	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055	2304 012 020-055
12	Cap		AISI303	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220	5622 100 071-220
13	Position indication		ABS gn	5622 100 058-152	5622 100 058-152	5622 100 058-152	5622 100 058-152	5622 100 058-152

14.3 Seal kit EPDM

Item	Designation	Material	DN25 1 INCH	DN40 1½ INCH	DN50 2 INCH	DN65 2½ INCH	DN80 3 INCH	DN100 4 INCH
	Seal kit	EPDM	5706 025 990-054	5706 040 990-054	5706 050 990-054	5706 065 990-054	5706 080 990-054	5706 100 990-054
D1	O-Ring	EPDM	2304 041 035-159	2304 041 035-159	2304 044 053-159	2304 053 053-159	2304 069 053-159	2304 088 053-159
D2	O-Ring	EPDM	2304 069 026-159	2304 069 026-159	2304 069 026-159	2304 082 026-159	2304 098 035-159	2304 117 035-159
D3	Seal	EPDM	5622 050 010-069	5622 050 010-069	5622 050 010-069	5622 065 010-069	5622 080 010-069	5622 100 010-069
D4	O-Rings (2x) ^a	HNBR	2304 019 035-171	2304 019 035-171	2304 019 035-171	2304 019 035-171	2304 019 035-171	2304 019 035-171

a) not included in the kit

14.4 Seal kit HNBR

Item	Designation	Material	DN25 1 INCH	DN40 1½ INCH	DN50 2 INCH	DN65 2½ INCH	DN80 3 INCH	DN100 4 INCH
	Seal kit	HNBR	5714 025 990-050	5714 040 990-050	5714 050 990-050	5714 065 990-050	5714 080 990-050	5714 100 990-050
D1	O-Ring	HNBR	2304 041 035-157	2304 041 035-157	2304 044 053-157	2304 053 053-157	2304 069 053-157	2304 088 053-157
D2	O-Ring	HNBR	2304 069 028-050	2304 069 028-050	2304 069 028-050	2304 082 026-050	2304 098 035-050	2304 117 035-050
D3	Seal	HNBR	5622 050 010-050	5622 050 010-050	5622 050 010-050	5622 065 010-050	5622 080 010-050	5622 100 010-050
D4	O-Rings (2x) ^a	HNBR	2304 019 035-171	2304 019 035-171	2304 019 035-171	2304 019 035-171	2304 019 035-171	2304 019 035-171

a) not included in the kit



Declaration of incorporation

Translation of the original

Manufacturer / authorised representative:

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Authorised representative,
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Product name

pneum. Lift actuators
pneum. Rotary actuators
Ball valves
Butterfly valves
Single seat valves
Flow control valves
Throttle valve
Overflow valve
Double seat valve
Bellow valves
Sampling valves
Two way valves
Tankdome fitting

Function

Stroke movement
Rotary movement
Media cutoff
Media cutoff
Media cutoff
Control of liquefied media
Control of liquefied media
Definition of fluid pressure
Media separation
Sampling of liquids
Sampling of liquids
Media cutoff
Prevention of overpressure and vacuum, Tank cleaning

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 may only be 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:

- DIN EN ISO 12100 Safety of machinery

Knittlingen, 10. 04. 2014

Klaus Dohle
General Director