
DCX3 AUTOMATIC REGULATING SHUT-OFF VALVE



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1 CHANGE MANAGEMENT

CHANGES	INDEX	DATE	PAGE(S)	INITIALS
New version	1	December 08	/	G. ANDRE
Adding electrical connection and adjustment.	2	March 10	8-9-12	G. ANDRE
Add locking kit	3	October 2011	5	G. BEGAUD
Drawing modifications	4	March 2012	17/18	G. BEGAUD
Remove DN125/150	5	December 2012	18-27/36	G. BEGAUD
Add regulation elastomer plug DN65	6	October 2013	27	T. PICOT
Add regulation elastomer plug DN104 – 4"	7	November 2013	27	G. BEGAUD
Add positioner GEMÜ 1436	8	February 2015		C. GUILLET
Add positioner BURKERT 8693	9	September 2015		G. BEGAUD
Adding safety devices	10	October 2015	6	G. BEGAUD
Add clamp collar tightening torque	11	August 2016	38	G. BEGAUD
Add of 8693 positioner references and adaptation kits	12	June 2018	17	G. BEGAUD
Modification aseptic actuator and seals kit A2	13	September 2018	40-44-45-48	G. BEGAUD
7082850 was 7815030	14	November 2018	6	F. BRUN
REV.2 wiring	15	May 2019	19	G. BEGAUD
7010801 was 7006130 (Rep 20 and 23)	16	March 2020	44/45/49/50/51/52/ 53/54	G. BEGAUD
7010808 was 7380607 (Rep 20 and 24)	17	April 2020	44/48/49/51/52/53 4/5/36/54	G. BEGAUD
Add of greases recommended for the actuator and the valve	18	September 2020	18	G. BEGAUD
Modification of the assembly process of the linking rod	19	March 2022	41 to 59	G. BEGAUD
Additions and modifications of the FKM and FKM FP75 seal kits	19	March 2022	41 to 59	G. BEGAUD
Addition of HNBR seal material	19	March 2022	41 to 59	G. BEGAUD
7191035 was 7006412 (Guide: 25)	20	November 2023	44/45/49/51/55/59	G. BEGAUD

2 SAFETY

2.1 IMPORTANT INFORMATION

Always read the maintenance notice before manipulating the valve



Failure to observe these instructions can result in serious bodily injury or loss of life.



This can also result in less serious injuries or damage to the equipment.



Electricity can result in serious bodily injury or loss of life.



This can also result in less serious injuries or damage to the equipment.

2.2 GENERAL INFORMATION



NOTE

The following advice is given to ensure optimum use of the equipment.

- The tasks must be performed in the order specified.
- A range of greases for cylinder seals and valve seals has been defined for be in phase with their nature and the regulations according to the uses (See § 9.10).

DCX3 automatic regulating shut-off valve MAINTENANCE NOTICE

3 INTRODUCTION

DCX3 regulating shut-off valves are disassembled in 2 separate stages :

3.1 *DISASSEMBLING THE VALVE (Extracting the actuator and Plug assembly from the body of the valve)*

This operation enables access to the plug seals (Changing the seals, see § 9.10 for lubrication) and the removal of the actuator.

This is a straightforward procedure and can be performed on-site as it does not present any particular problems.

This is the case in the majority of maintenance operations on this type of valve.

3.2 *DISASSEMBLING THE ACTUATOR (Changing the internal seals)*



DANGER !

CAUTION: This operation must be performed using a special tool ensuring that the necessary precautions are taken (**STRESSED SPRING**)

changing from an NC valve to an NO valve and vice versa, see "Changing configuration".



NOTE

NOTE : After carrying out any maintenance work on DEFINOX products it is essential that you check the correct function of the equipment concerned : tightness, pressure, etc...

3.2.1 **Safety devices**

For the maintenance of NC and NO actuators, we offer on request maintenance sets preventing unintended operation of the plug when the actuator is supplied with air.



DANGER !

RISKS

When changing seals: Risk of trapping fingers between the actuator axis and the top of the seal plate



DCX3/4 NC (rod out)

SOLUTIONS

Maintenance tools for the NC actuator

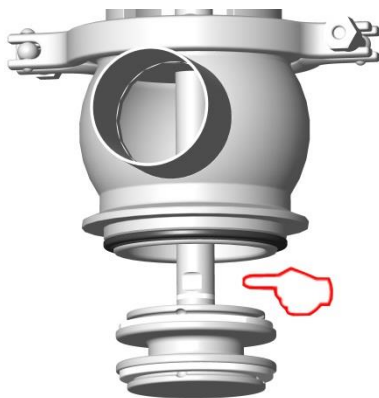
DN	Reference
DN25 - 40	7814986
DN51 and DN63 – 76	7814972
DN80 – 104	7814987
DN125 - 150	7814988



DANGER !

RISKS

When fitting and removing the valve: Risk of trapping fingers between the valve and the valve body

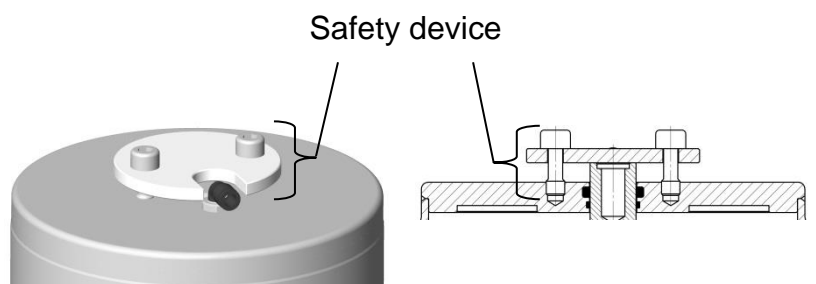


DCX4 NO (rod in)

SOLUTIONS

Maintenance tool for NO actuator

DN	Reference
DN25 – 150	7814976



A tool case reference 7082850 is available which includes the following tools:

- 7814986 ⇒ Maintenance tool for actuator NC DN25-40
- 7814972 ⇒ Maintenance tool for actuator NC DN51-76
- 7814987 ⇒ Maintenance tool for actuator NC DN80-104
- 7814976 ⇒ Maintenance tool for actuator NO DN25-150



4 MAINTENANCE OF THE VALVE FOR POSITIONER BURKERT 8630

Before starting the disassembly procedure, if the valve is fitted with a signalling box it may be necessary to detach the signalling unit from the actuator.

4.1 DISASSEMBLING THE 8630 UNIT

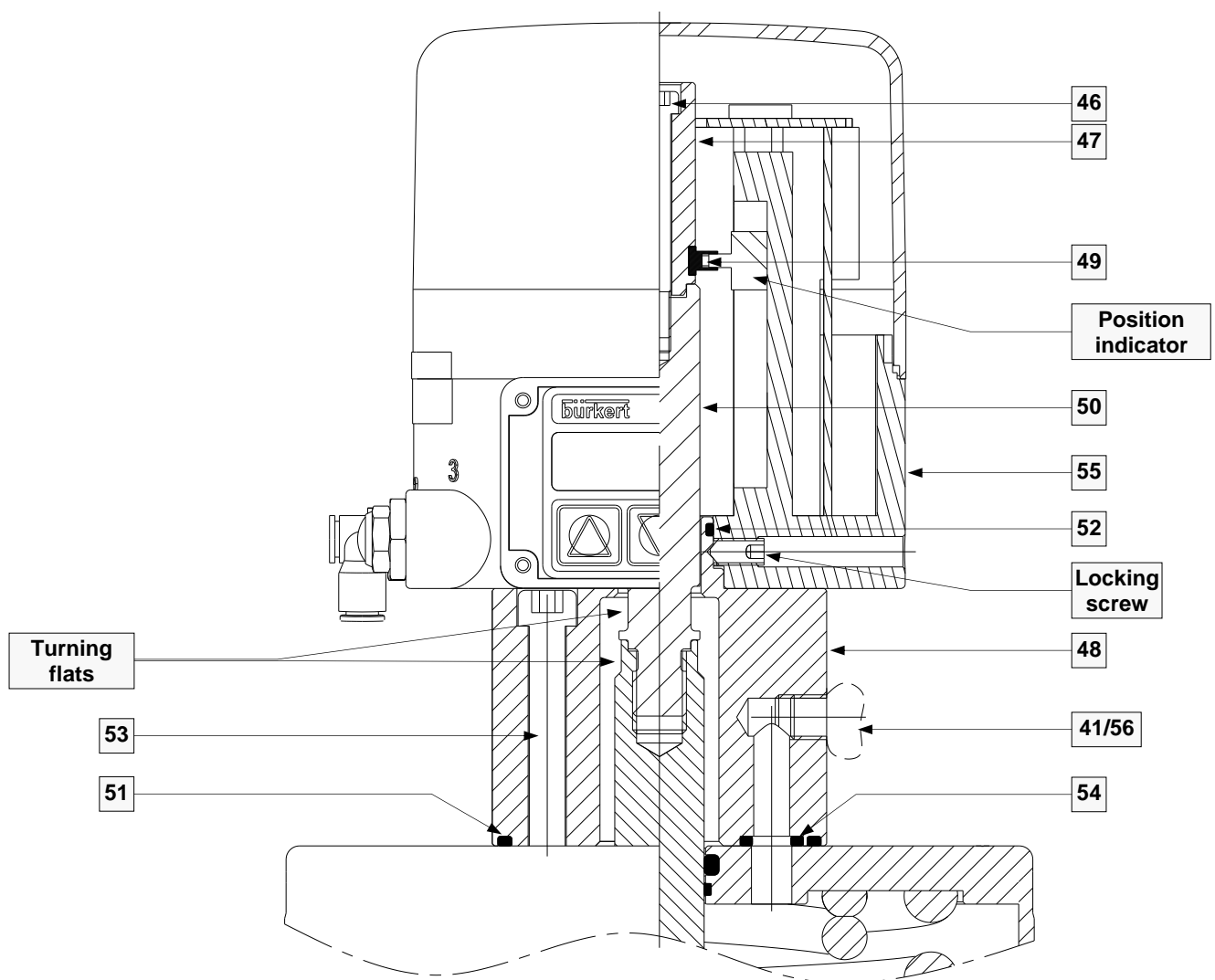


Dismantling without disconnection

IMPORTANT: Before starting any work on the box, it is important to ensure that the air supply is closed and that the circuit is purged.

Dismantling with disconnection

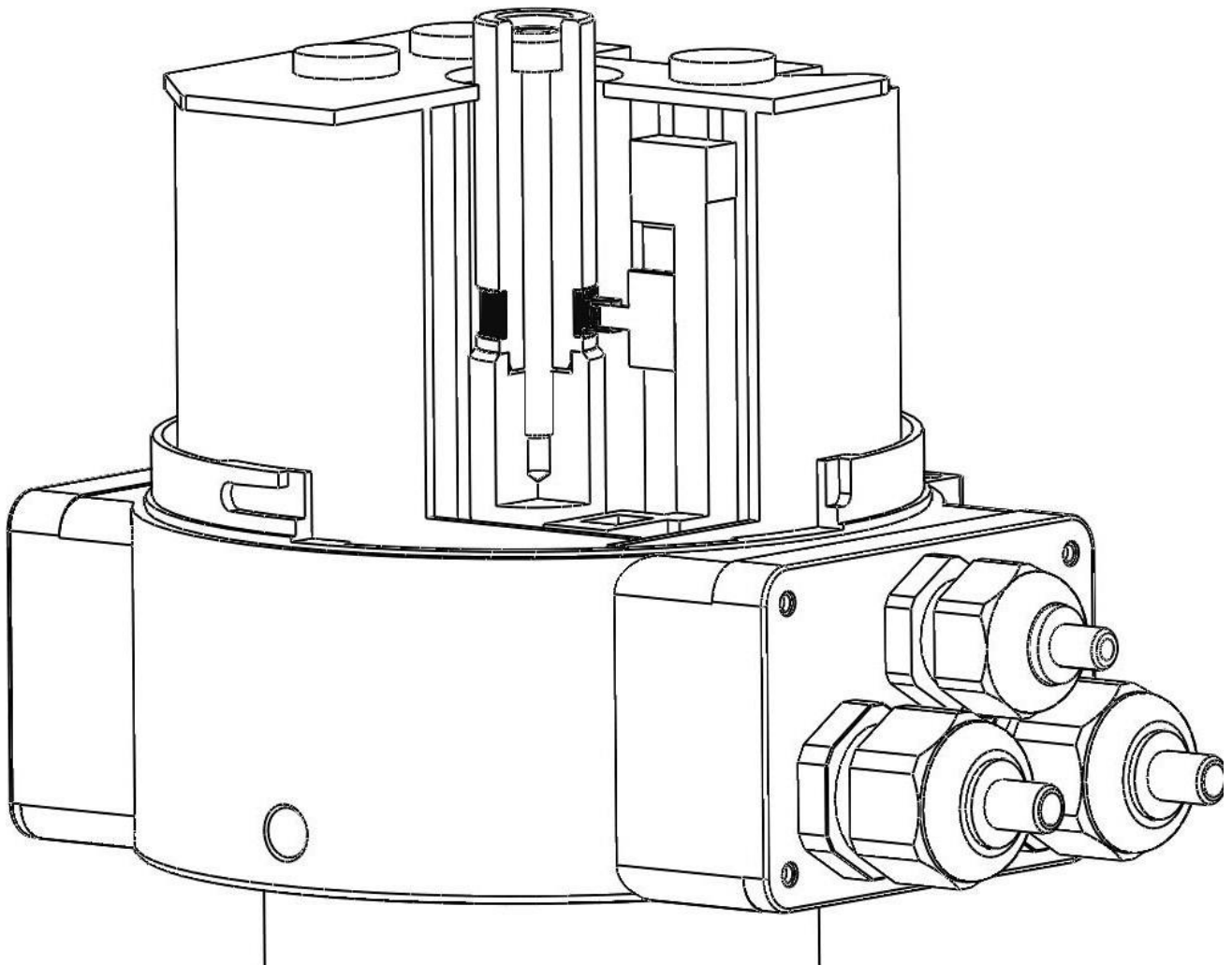
IMPORTANT: Before starting any work on the box, it is important to ensure that the mains supply is switched off, that the air supply is closed and that the circuit is purged.



- Supply air to the actuator so you can lift the stem/detection cam assembly [47-50] and access the clip retainer [49].
- After disassembling the position indicator clip retainer, unscrew the screw [46] and remove the cam/clip retainer assembly [47-49].
- Unscrew the locking screw to detach the housing [55] from the base [48] taking care not to damage the seal [52].
- Unscrew the screws [53] to disassemble the base [48].
- Using the turning flats, remove the stem [50].

4.2 REASSEMBLING THE 8630 UNIT

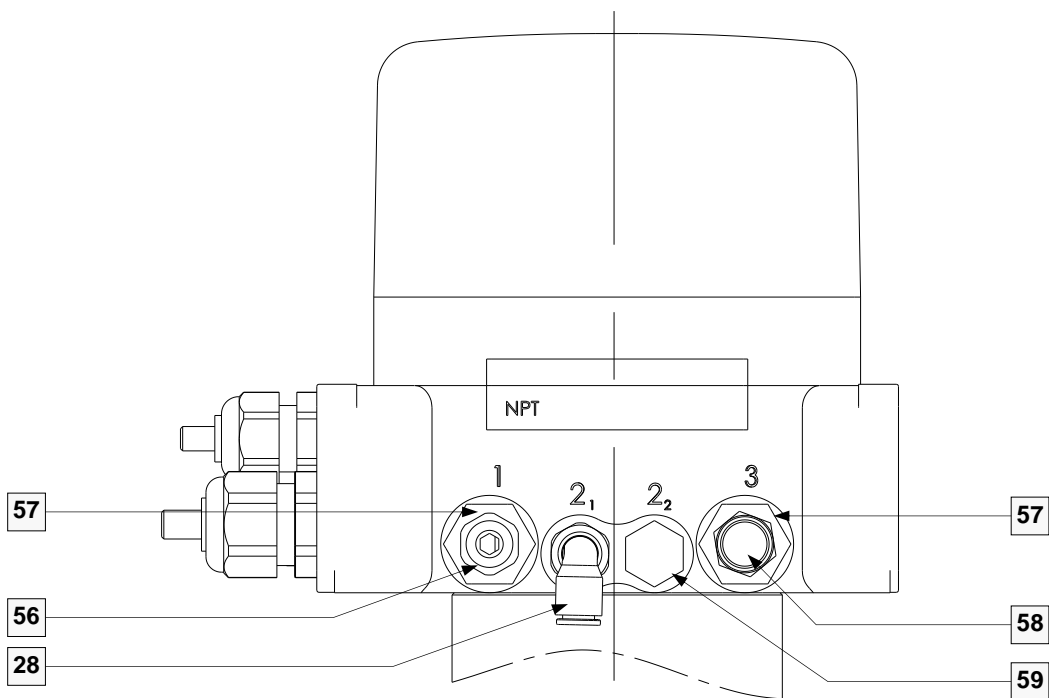
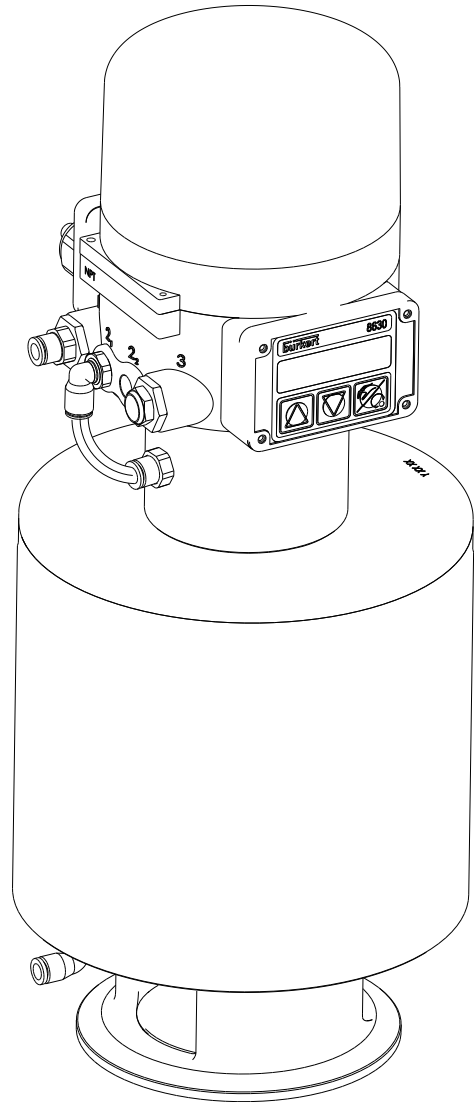
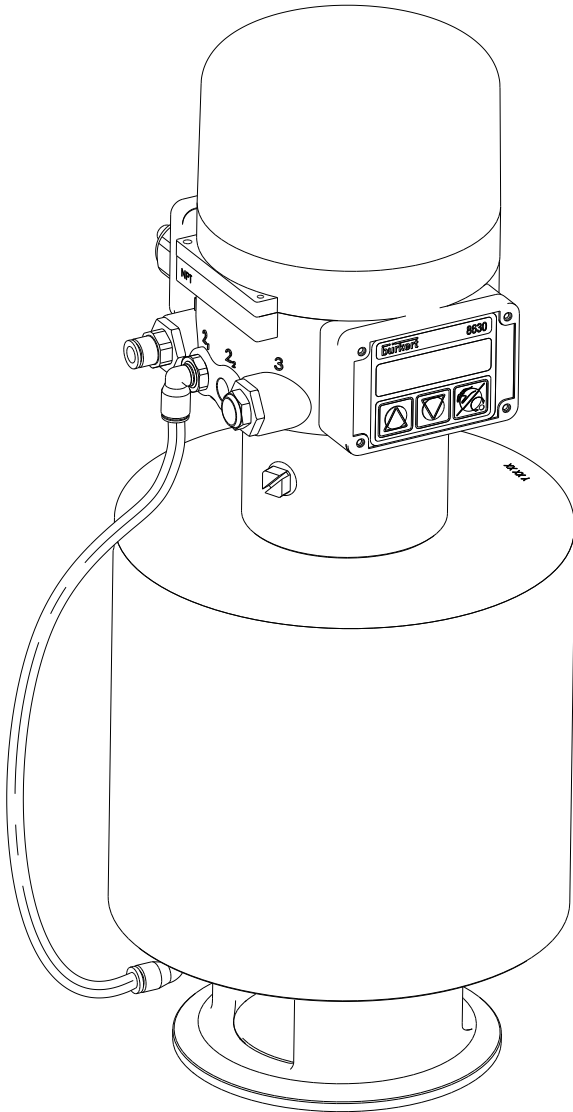
- Refit the stem [50] and lock it in place using the turning flats.
- Attach the base [48] using the screws [53].
- Position the housing [55] on the base [48] taking care not to damage the seal [52].
- Supply air to the actuator so you can lift the stem/detection cam assembly [47-50] and access the clip retainer [49].
- Fit the clip retainer [49] with the position indicator.
- After fitting the clip retainer with the position indicator, tighten the screw [46] to lock the detection cam [47] in place.
- Lock the housing [55] in place using the locking screw.
- Fit the connector ([41] or [56] depending on whether the actuator is NC or NO) onto the base [48].



4.3 CONNECTING THE AIR SUPPLY TO THE 8630 UNIT

NC assembly

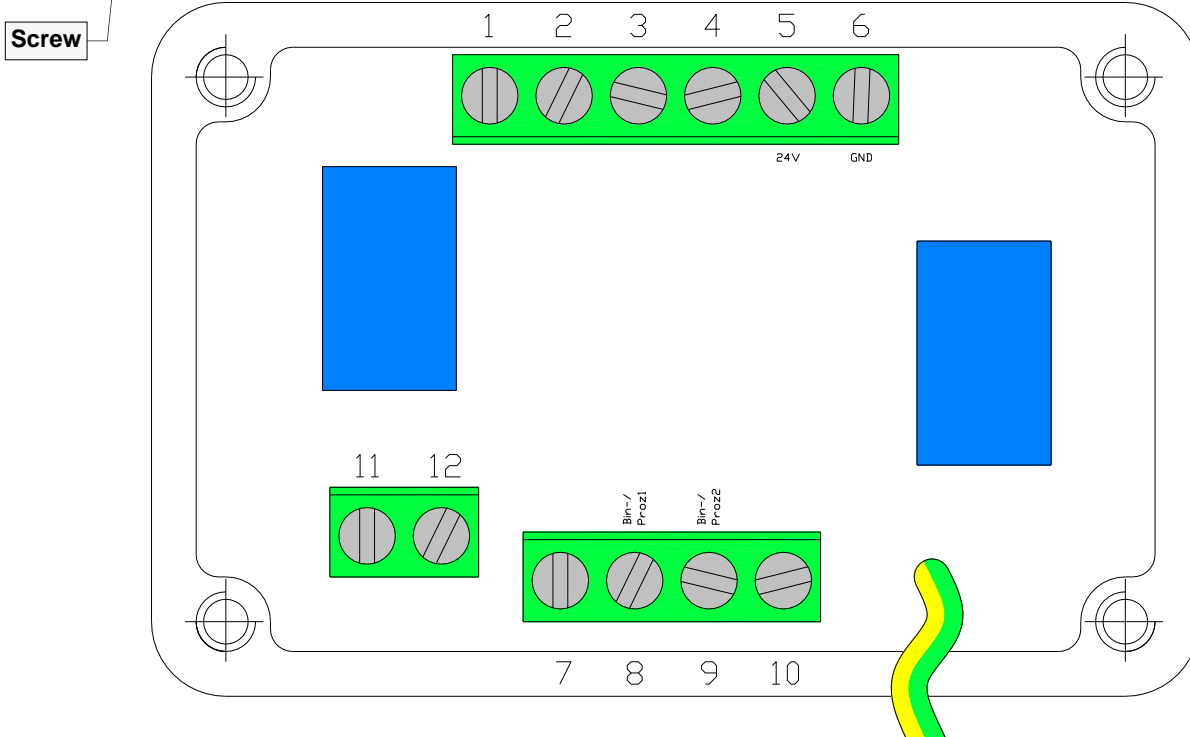
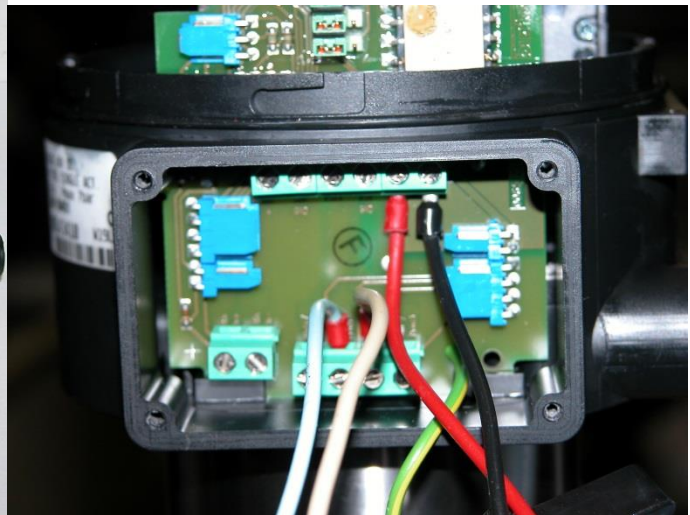
NO assembly



4.4 CONNECTING THE POWER SUPPLY REGULATOR OPERATION

The signal from a temperature sensor or level, flow, which through with the control box of the valve that controls it (Regulator mode).

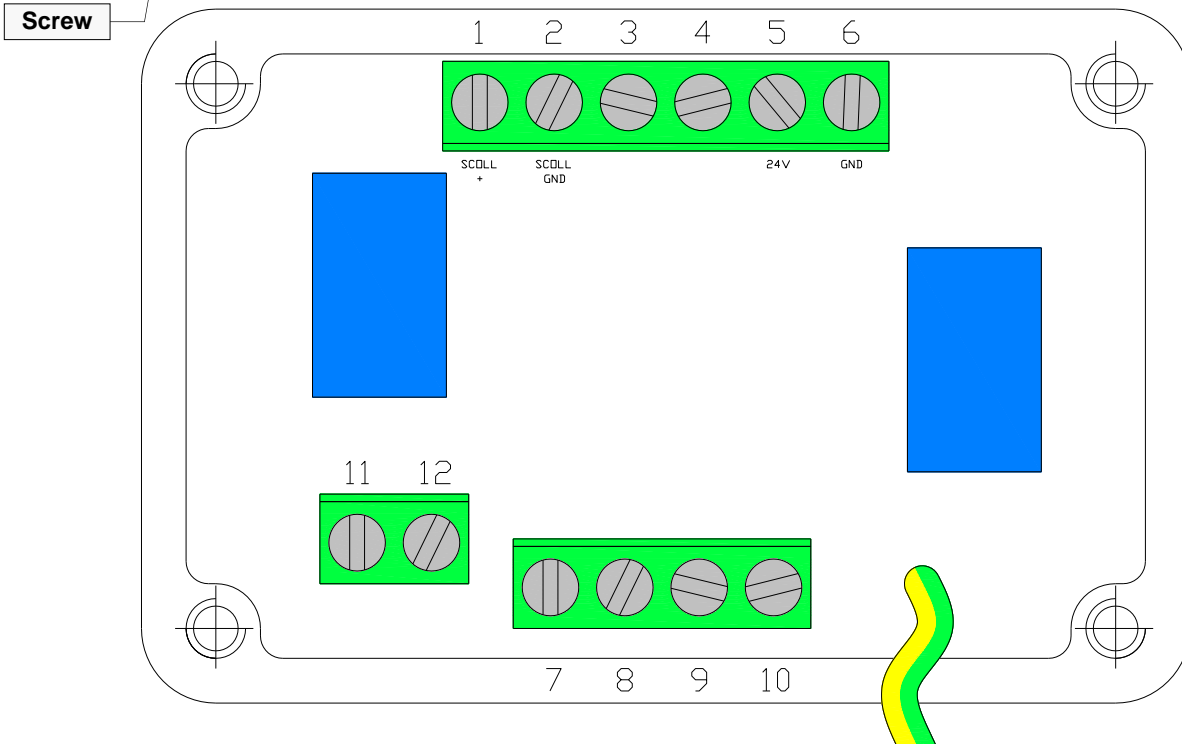
- Remove the 4 screws from the electrical connection box using a flat screwdriver.
- Connect the 24VDC+ wire (red) to 24V [5]
- Connect the 24VDC- wire (black) to GND [6]
- Connect the 4-20mA+ wire (blue) to bin-/Proz1 [8]
- Connect the 4-20mA- wire (white) to bin2+/Proz2 [9]



4.5 CONNECTING THE POWER SUPPLY POSITIONER OPERATION

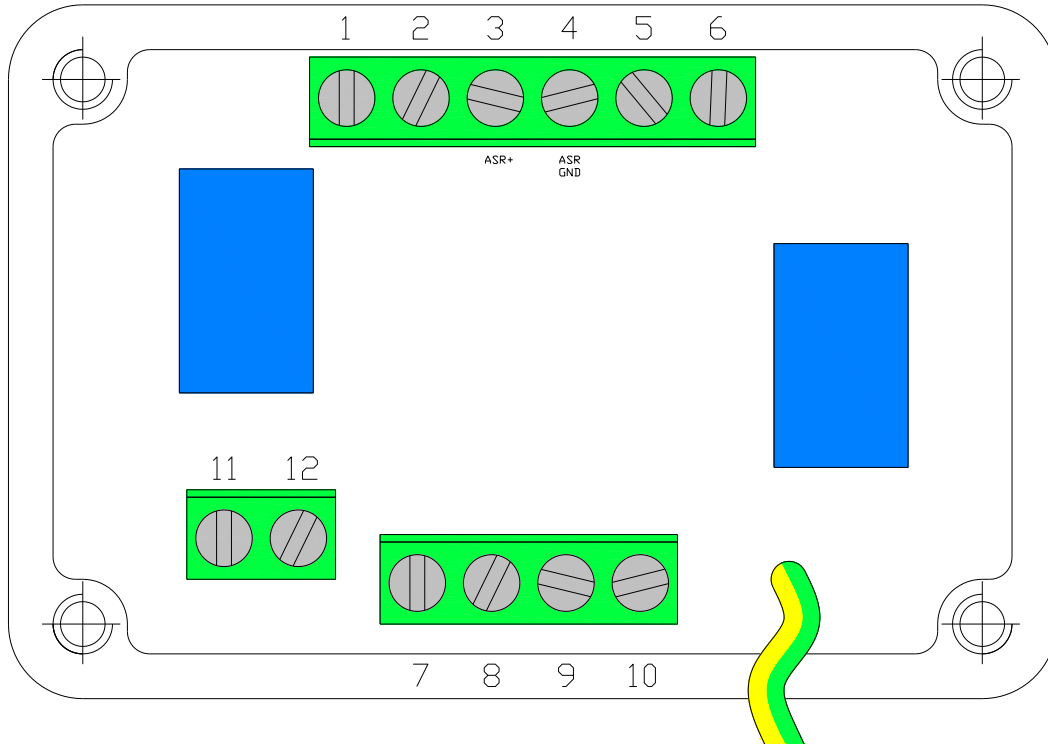
The signal from a temperature sensor or level meter, etc... between the controller which controls the valve (positioner mode).

- Remove the 4 screws from the electrical connection box using a flat screwdriver.
- Connect the 24VDC+ wire (red) to 24V [5]
- Connect the 24VDC- wire (black) to GND [6]
- Connect the 4-20mA+ wire (blue) to SCOLL + [8]
- Connect the 4-20mA- wire (white) to SCOLL GND [9]



4.6 CONNECTING POWER (analog card)

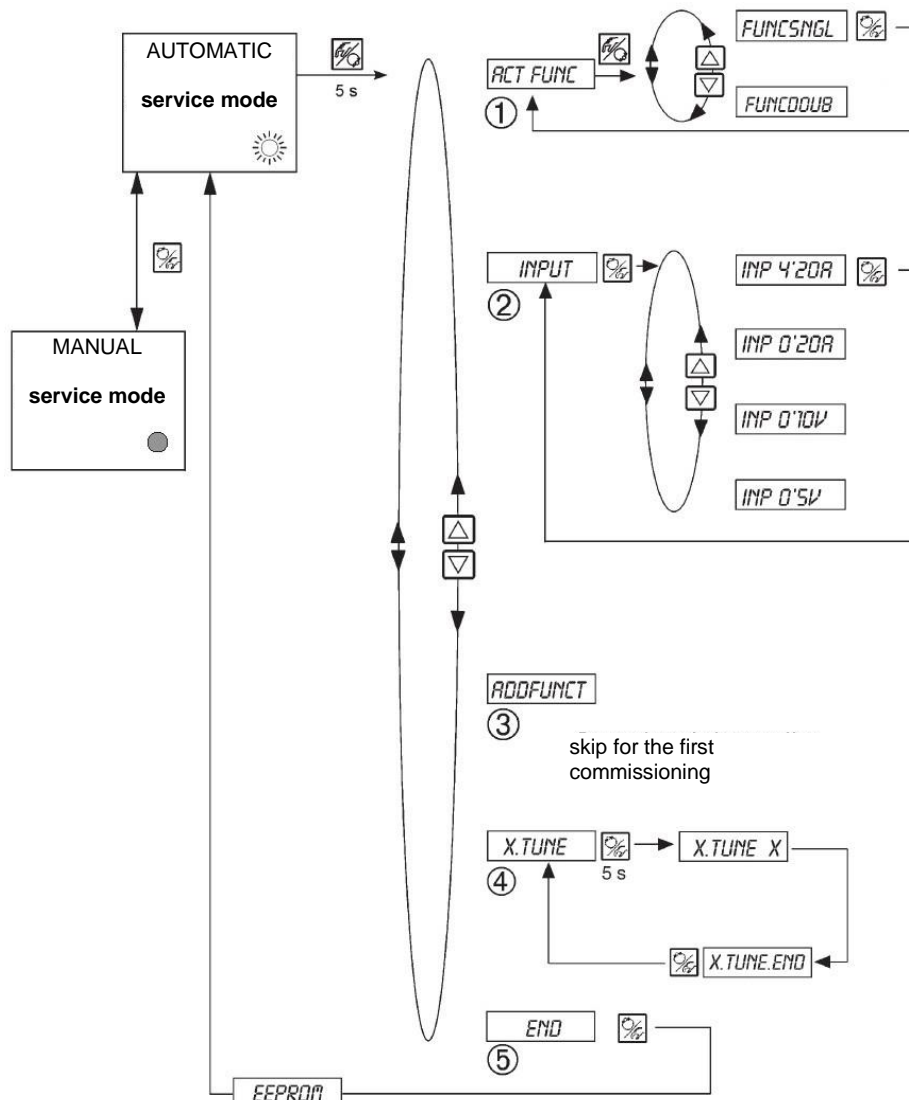
- Remove the 4 screws from the electrical connection box using a flat screwdriver.
- Connect the 4-20mA+ wire to ASR+ [3].
- Connect the 4-20mA- wire to ASR GND [4].



4.7 SETTING THE VALVE REGULATOR OPERATION

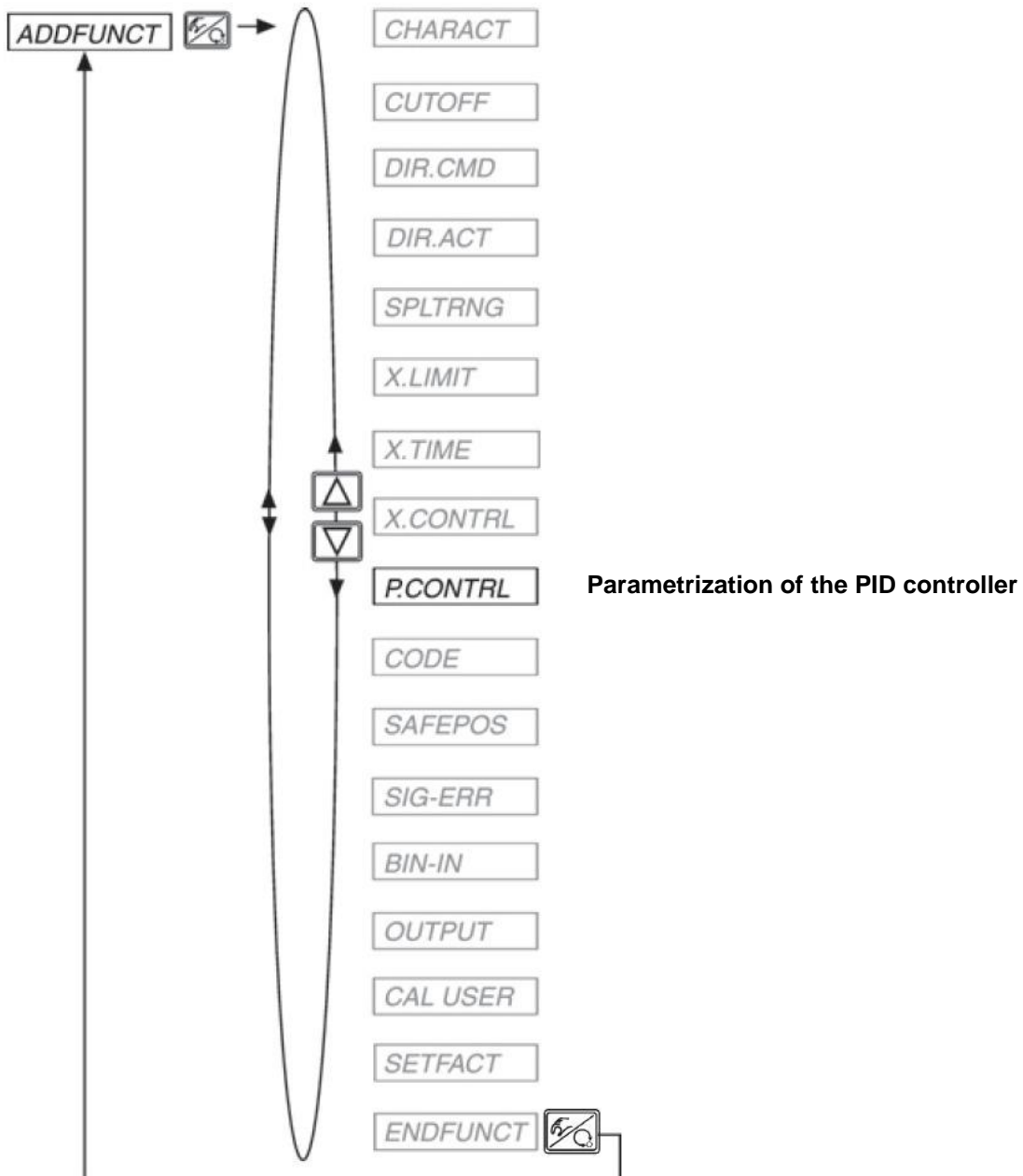
- Press once on the button on the right of the box's display to put it in auto mode (the yellow light flashes).
- Hold down the button on the right of the display for five seconds to access the main menu.
- Select the ACTFUNC function using the arrows, confirm with the button on the right and select the FUNCSNGL function. Then confirm.
- Select INPUT and confirm. Then choose 4'20A and confirm.
- Select X.TUNE and hold down the button on the right for five seconds.
- X.TUNE X then searches for and adjusts its position. The yellow light flashes rapidly.
- When TUNE END appears, confirm. Select END (KXX.) and then confirm.

8630 positioner display



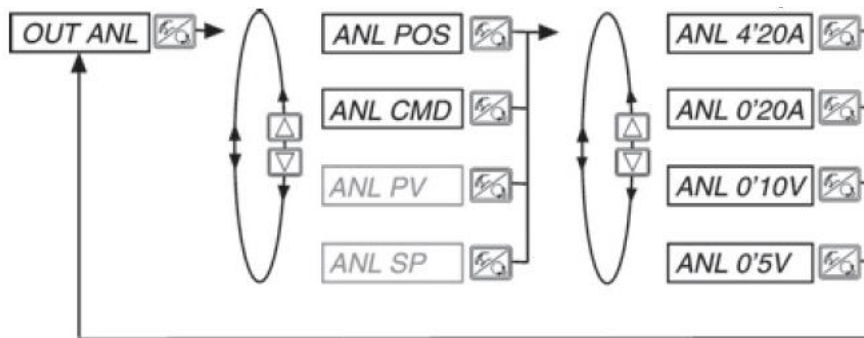
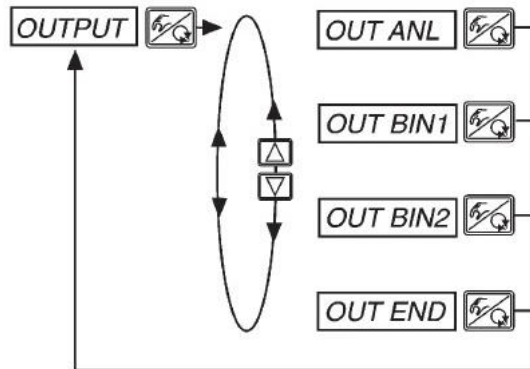
4.8 SETTING THE VALVE POSITIONER OPERATOR

- Same as the valve régulator positioner for functions ACTFUNC, INPUT, X.TUNE.
- Then go to ADDFUNCT and uncheck P.CONTRL then placed before the star disappears.
- Exit menu with ENDFUNCT.



4.9 **SETTING THE VALVE (analog card)**

- For the feedback signal OUTPUT must be in the main menu.
- Select OUTPUT then go OUT ANL, choice (in our case) ANL POS and select ANL 4'20A.
- Exit menu with OUT END.



5 MAINTENANCE OF THE VALVE FOR POSITIONER BURKERT 8693

Before starting the disassembly procedure, if the valve is fitted with a signalling box it may be necessary to detach the signalling unit from the actuator.

5.1 DISASSEMBLING THE 8693 UNIT

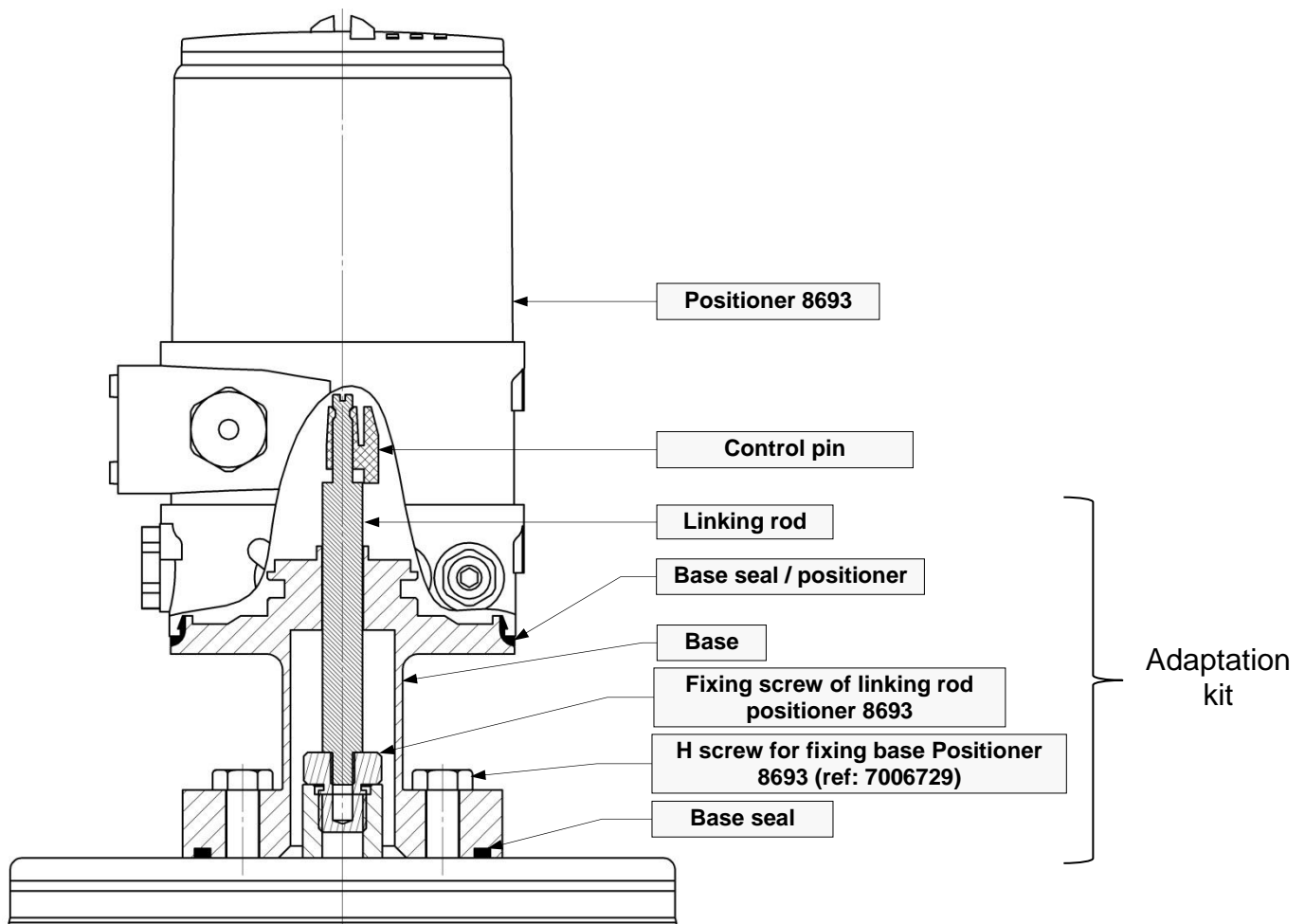


Dismantling without disconnection

IMPORTANT: Before starting any work on the box, it is important to ensure that the air supply is closed and that the circuit is purged.

Dismantling with disconnection

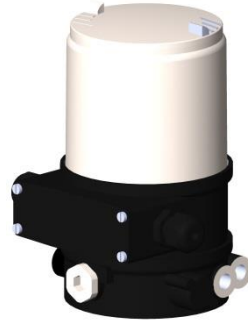
IMPORTANT: Before starting any work on the box, it is important to ensure that the mains supply is switched off, that the air supply is closed and that the circuit is purged.



- Unscrew the locking screws to separate the base of the housing taking care not to damage the seals of the base and the control pin.
- Remove the control pin of the linking rod.
- Unscrew the 2 screws H (ref: 7006729) to disassemble the base.
- Unscrew the linking rod.

Positioner 8693:

Description	Reference
No feedback	7303161
Feedback	7303162


Adaptation kits:

Description	Reference
Adaptation kit DCX3/4 DN25/104 for positioner 8693	7303165
Adaptation kit DPAX DN25/104 for positioner 8693	7303166


Set positioner 8693 and adaptation kit:

Description	Reference
Set positioner 8693 no feedback + adaptation kit DCX3/4 DN25/104	7303153
Set positioner 8693 feedback + adaptation kit DCX3/4 DN25/104	7303154
Set positioner 8693 no feedback + adaptation kit DPAX DN25/104	7303157
Set positioner 8693 feedback + adaptation kit DPAX DN25/104	7303158

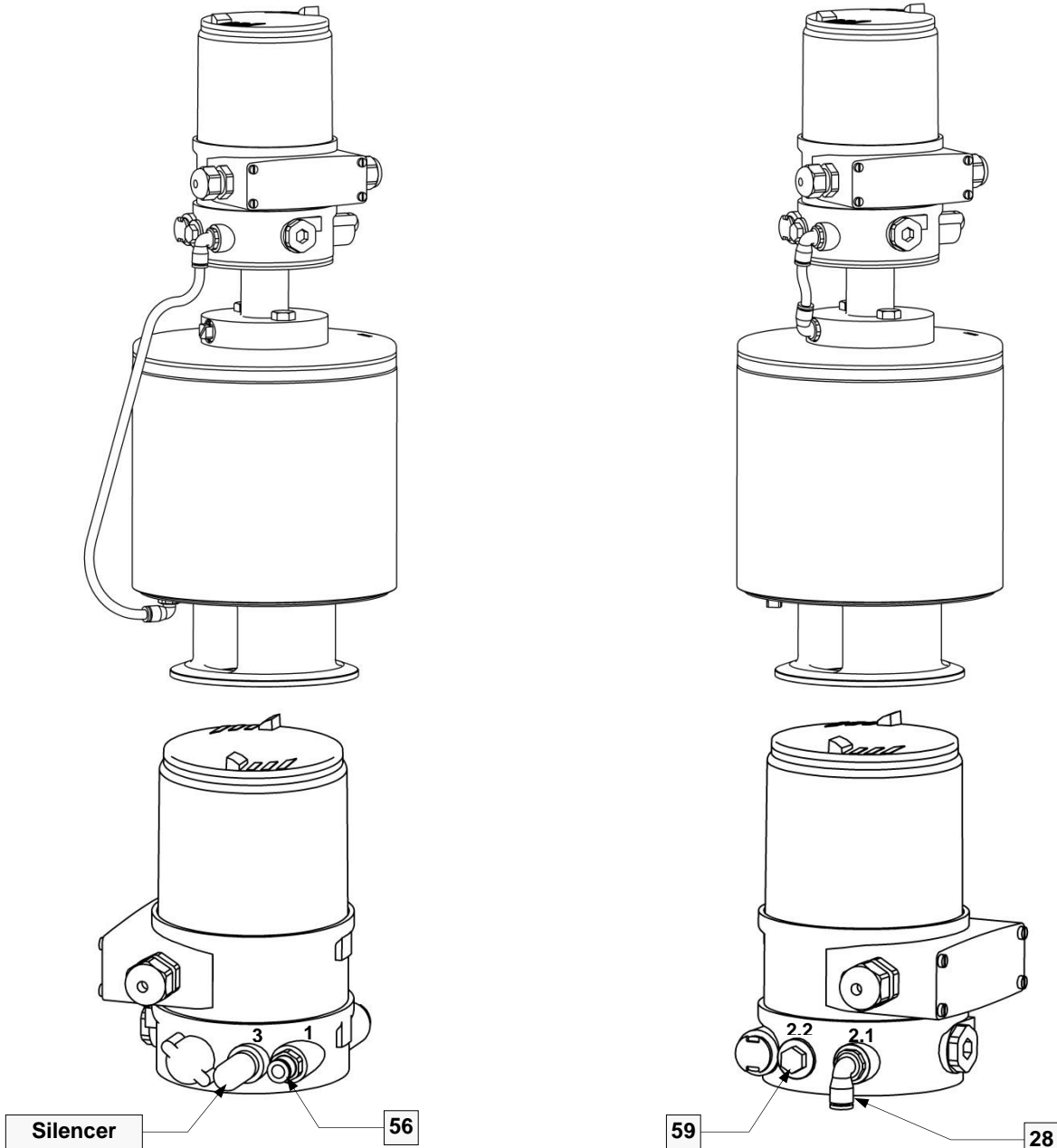
5.2 REASSEMBLING THE 8693 UNIT

- Screw the linking rod by putting a drop of LOCTITE 222 threadlocker on the thread.
- Refit the base using the 2 screws H (ref: 7006729).
- Attach the control pin on the linking rod.
- Lock the housing on the base by using the locking screws taking care not to damage the seals of the base and the control pin.
- Fit the connector depending on whether the actuator is NC or NO onto the base.

5.3 CONNECTING THE AIR SUPPLY TO THE 8693 UNIT

NC assembly

NO assembly

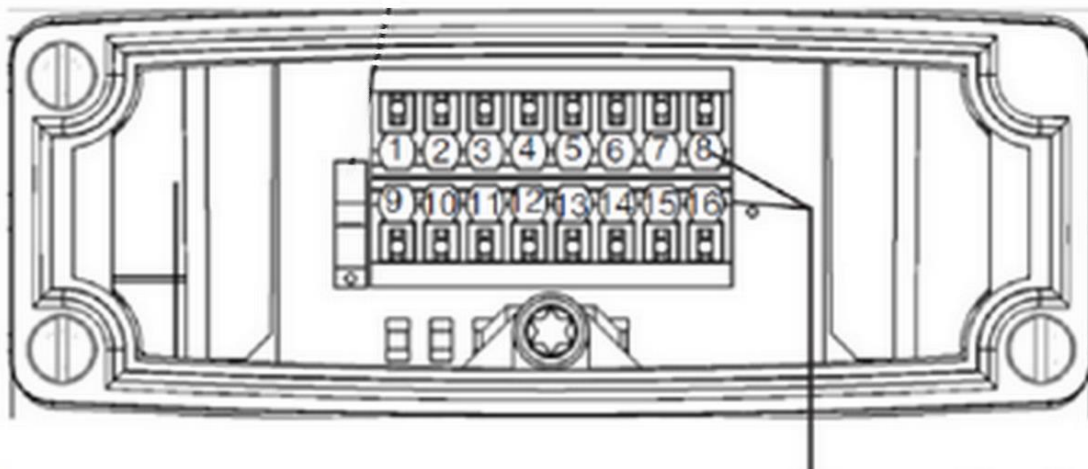
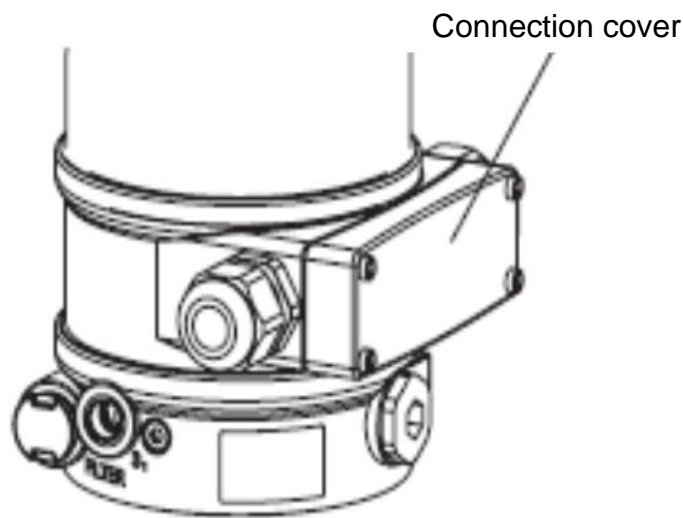


Connector	Designation
1	Supply air
3	Escapement with silencer
2.1	Air outlet to the control valve
2.2	Stopper

5.4 **CONNECTING THE POWER SUPPLY REGULATOR OPERATION (without 4-20mA generator)**


The signal from a temperature sensor or level, flow, which through with the control box of the valve that controls it.

- Remove the 4 screws from the electrical connection box using a flat screwdriver and remove the connection cover.
- Pushing the son through the screw grommet.
- Connect the + 24VDC wire to + 24VDC [16].
- Connect the 24VDC- wire to GND [15].
- Tighten the nut of the screw grommet (torque approx. 1.5 Nm).
- Reinstall the connection cover with the inserted seal and screw crosswise screws of housing (torque maximum 0.7 Nm.).



5.5 SETTING THE VALVE AUTOMATIC OPERATION

Display elements of the process level:

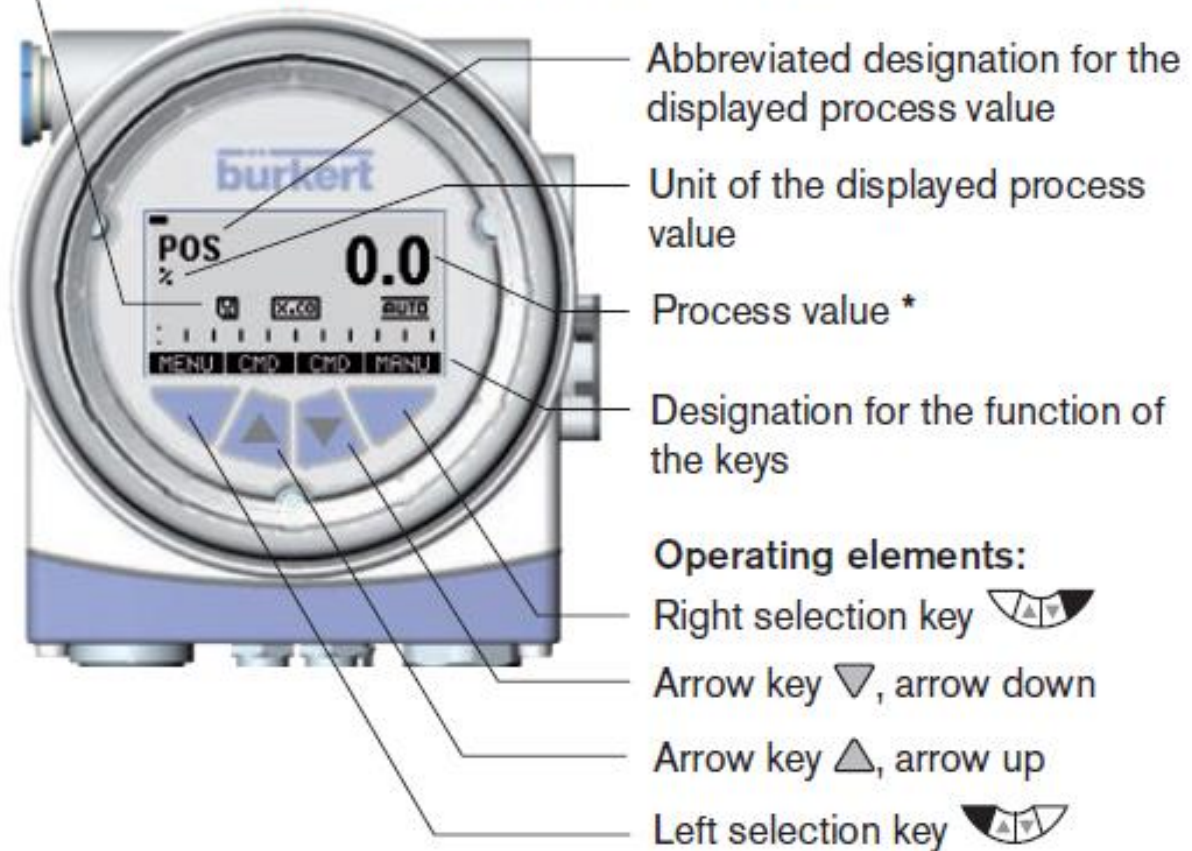
 Save symbol

X.CO Symbol for position control




P.CO Symbol for process control

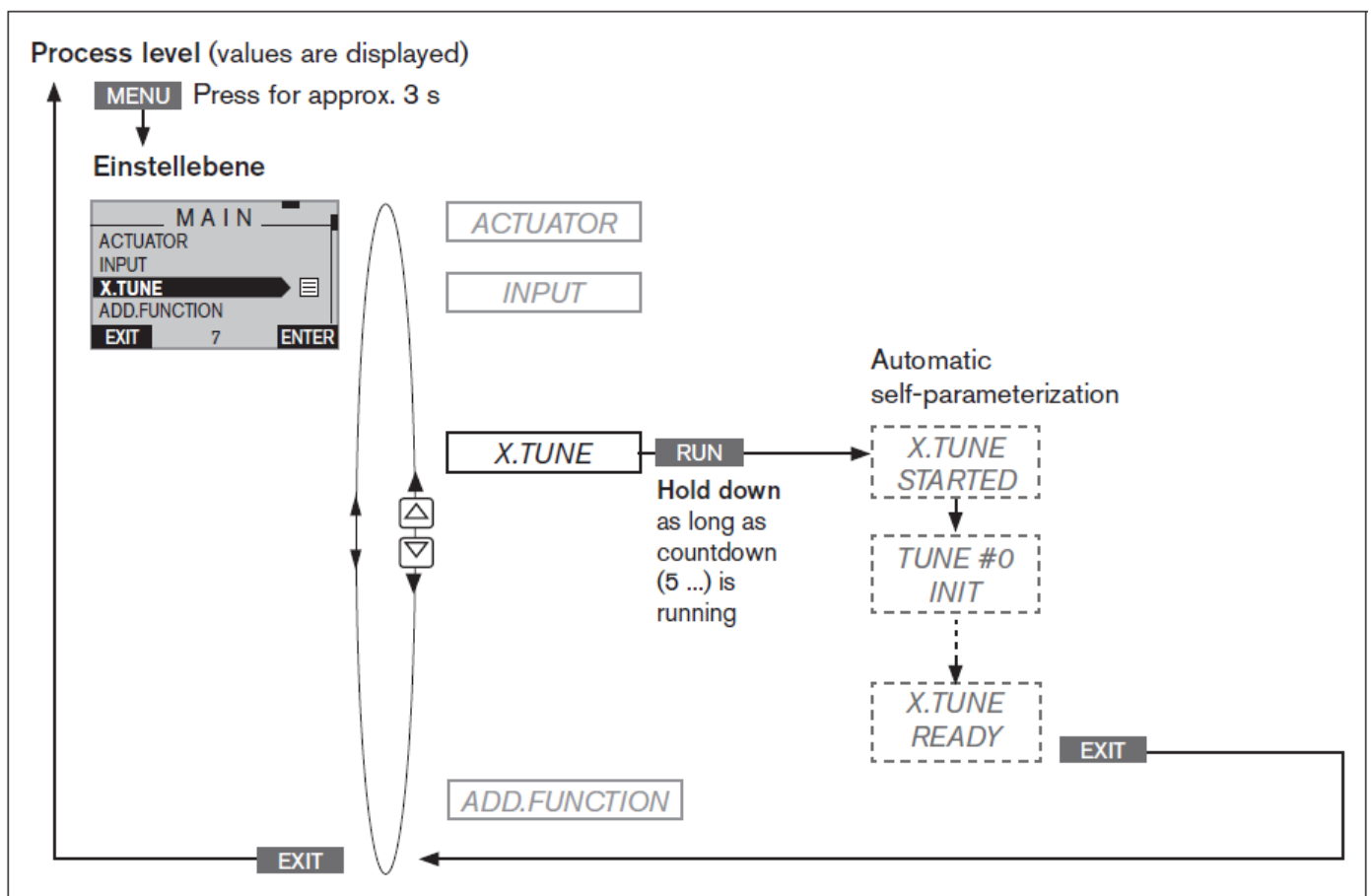
AUTO Symbol for the AUTOMATIC operating state

Other symbols are displayed according to the activated functions.
See operating instructions type 8692/8693



5.5.1 AUTOMATIC ADJUSTMENT OF THE POSITIONER TO THE OPERATING CONDITIONS (X.TUNE)





Key	Action	Description
MENU	Press  for approx. 3 s	Switching from process level \Rightarrow setting level
$\blacktriangle / \blacktriangledown$	Select X.TUNE	
RUN	 Hold down as long as countdown (5 ...) is running	During the automatic adjustment messages are displayed indicating the progress of the X.TUNE "TUNE #1... X.TUNE ready" ¹⁾ .
	Press any key	Return to main menu (MAIN)
EXIT	Press 	Switching from setting level \Rightarrow process level



Possible error messages when running *X.TUNE*:




Display	Causes of error	Remedial action
<i>TUNE</i> <i>err/break</i>	Manual termination of self-parameterization by pressing the EXIT key	
<i>X.TUNE</i> <i>locked</i>	The <i>X.TUNE</i> function is blocked	Input access code
<i>X.TUNE</i> <i>ERROR 1</i>	No compressed air connected	Connect compressed air
<i>X.TUNE</i> <i>ERROR 2</i>	Compressed air failed during Autotune (<i>X.TUNE</i>).	Check compressed air supply
<i>X.TUNE</i> <i>ERROR 3</i>	Actuator or control system deaeration side leaking	Not possible, device defective
<i>X.TUNE</i> <i>ERROR 4</i>	Control system aeration side leaking	Not possible, device defective
<i>X.TUNE</i> <i>ERROR 6</i>	The end positions for <i>POS-MIN</i> and <i>POS-MAX</i> are too close together	Check compressed air supply
<i>X.TUNE</i> <i>ERROR 7</i>	Incorrect assignment <i>POS-MIN</i> and <i>POS-MAX</i>	To determine <i>POS-MIN</i> and <i>POS-MAX</i> , move the actuator in the direction indicated on the display.

5.5.2 ***SETTING UP THE PROCESS CONTROLLER (auxiliary function P.CONTROL)***

Key	Action	Description
MENU	Press  for approx. 3 s	Switching from process level ⇔ setting level.
▲ / ▼	Select <i>ADD.FUNCTION</i>	
ENTER	Press 	The possible auxiliary functions are displayed.
▲ / ▼	Select <i>P.CONTROL</i>	
ENTER	Press 	<i>P.CONTROL</i> is now marked by a cross ☒.
EXIT	Press 	Acknowledgment and simultaneous return to the main menu (<i>MAIN</i>). <i>P.CONTROL</i> is now activated and incorporated into the main menu.

5.5.3 BASIC SETTING OF THE PROCESS CONTROLLER





- In the main menu (**MAIN**), the function **P.CONTROL**

Key	Action	Description
MENU	Press  for approx. 3 s	Switching from process level ⇌ setting level
▲ / ▼	Select P.CONTROL	
ENTER	Press 	
▲ / ▼	Select PID.PARAMETER	
ENTER	Press 	

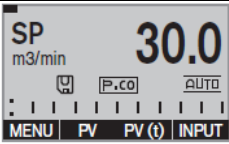

- Setting DEFINOX : DBND 1%
 KP 5.00
 TN 3.00
 TV 3.00

EXIT	Press 	
-------------	---	--

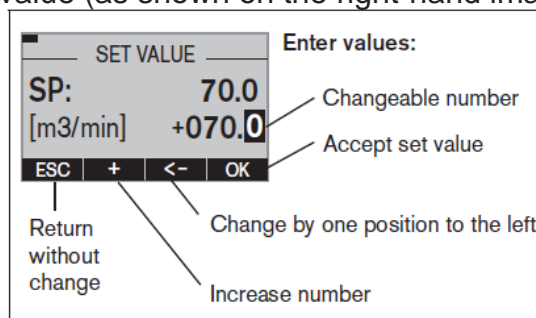
- In the main menu (**MAIN**), the function **P.CONTROL** (Setting the value of internal or external set-point)







Key	Action	Description
MENU	Press  for approx. 3 s	Switching from process level ⇌ setting level
▲ / ▼	Select P.CONTROL	
ENTER	Press 	
▲ / ▼	Select SETUP	
ENTER	Press 	
▲ / ▼	Select SP-INPUT	
ENTER	Press 	
▲ / ▼	Select internal or external	

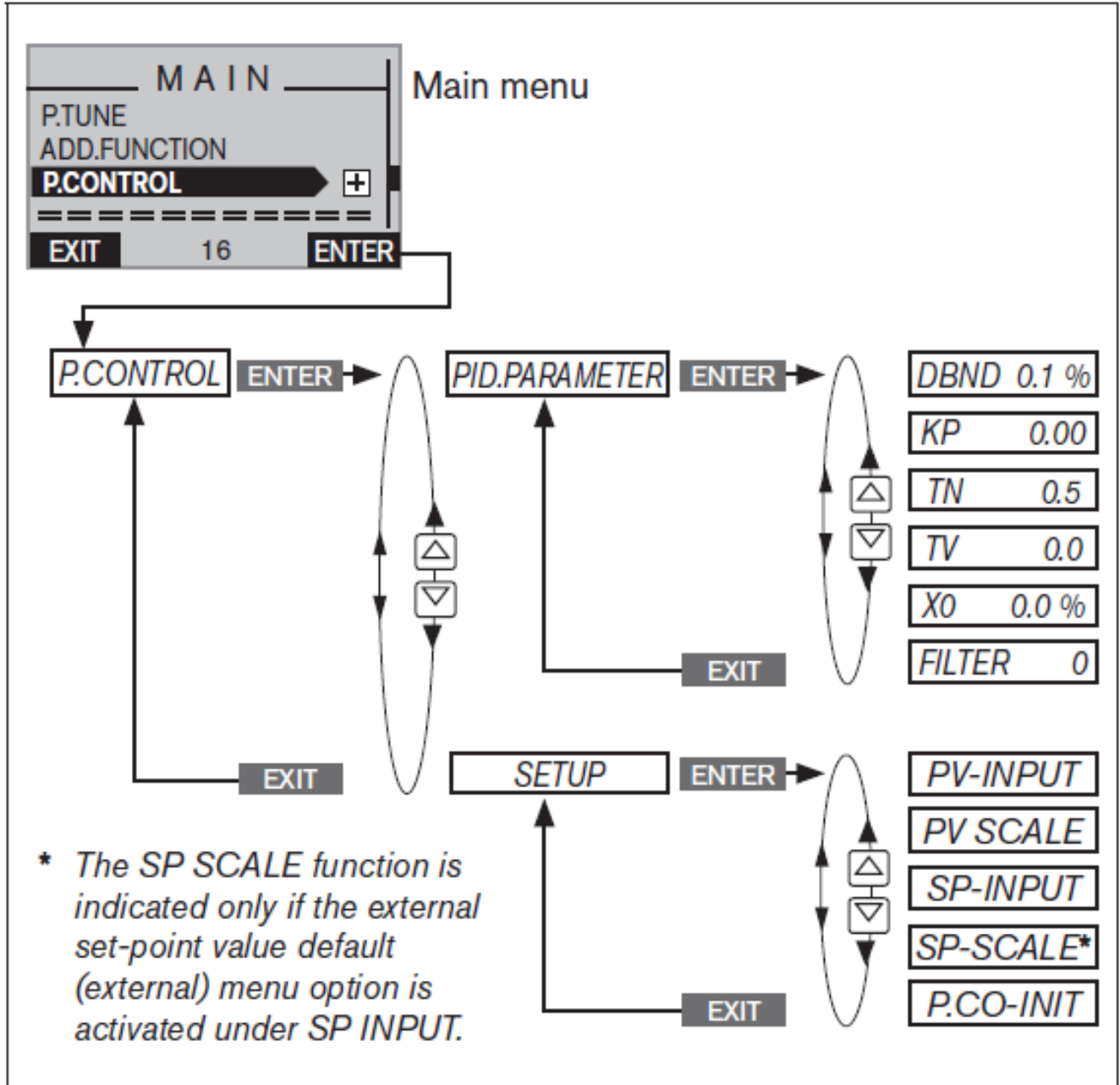
- Use the **EXIT** key (press 4 x) to return to the process level.
- On the process level, manually the process set-point value.

Key	Action	Description
▲ / ▼	Select the display for the process set-point value (SP)	
INPUT	Press 	

- Insert process set-point value (as shown on the right-hand image).



OK	Press 	
	Select CMD	
MANU	Press 	
	OPN  or CLS 	Pos %



P.CONTROL - settings:

PID.PARAMETER	Parameterization of the process controller
DBND 0.1 %	Insensitivity range (dead band) of the PID process controller
KP 0.00	Amplification factor of the process controller
TN 0.5	Reset time
TV 0.0	Hold-back time
X0 0.0 %	Operating point
FILTER 0	Filtering of the process actual value input
SETUP	Setting up the process controller
PV-INPUT	Indication of the signal type for process actual value
PV SCALE	Scaling the process controller
SP-INPUT	Type of the set-point value default (internal or external)
SP-SCALE*	Scaling the positioner (position controller) (for external set-point value default only)
P.CO-INIT	Enables a smooth switchover between operating states AUTOMATIC and MANUAL

6 MAINTENANCE OF THE VALVE FOR POSITIONER GEMÜ 1436

Before starting the disassembly procedure, if the valve is fitted with a signalling box it may be necessary to detach the signalling unit from the actuator.

6.1 DISASSEMBLING THE 1436 UNIT



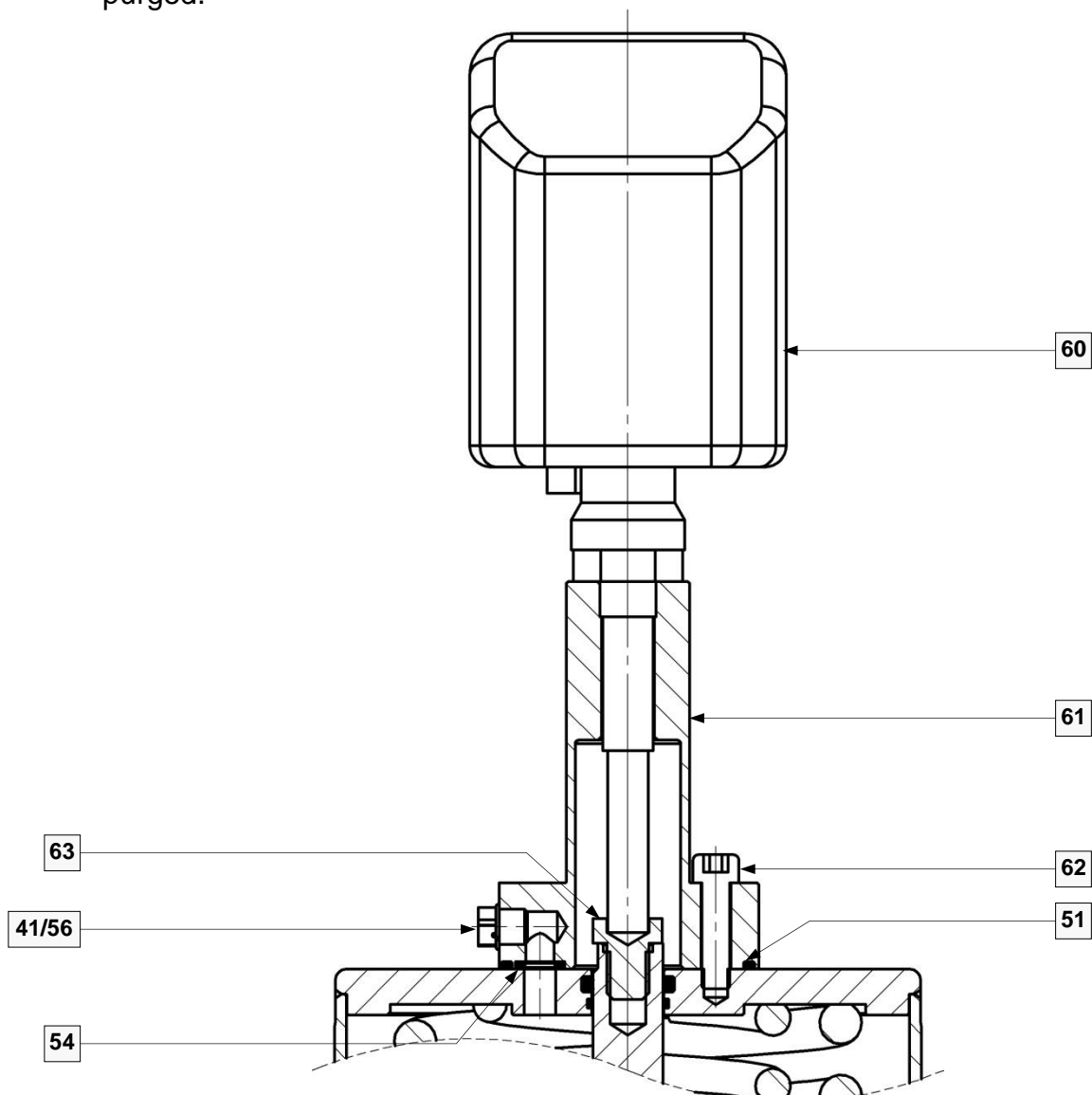
CAUTION !

Dismantling without disconnection

IMPORTANT: Before starting any work on the box, it is important to ensure that the air supply is closed and that the circuit is purged.

Dismantling with disconnection

IMPORTANT: Before starting any work on the box, it is important to ensure that the mains supply is switched off, that the air supply is closed and that the circuit is purged.



- Unscrew the screw [62] to disassemble the base [61].
- Unscrew the housing [60] to separate from the base [61].

IMPORTANT: It is imperative to first separate the base of the actuator and then unscrew the GEMÜ housing.

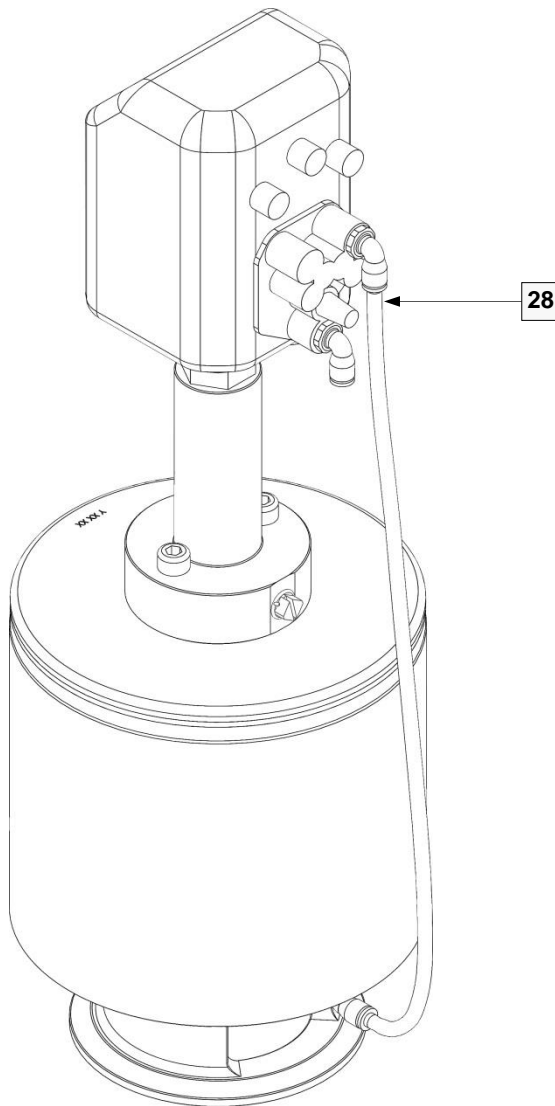
6.2 REASSEMBLING THE 1436 UNIT

- Screw the housing [60] on the base [61].
- Attach the base [61] using the screw [62].

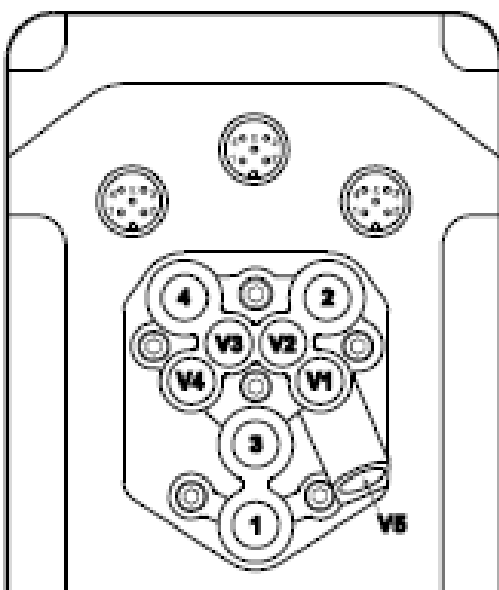
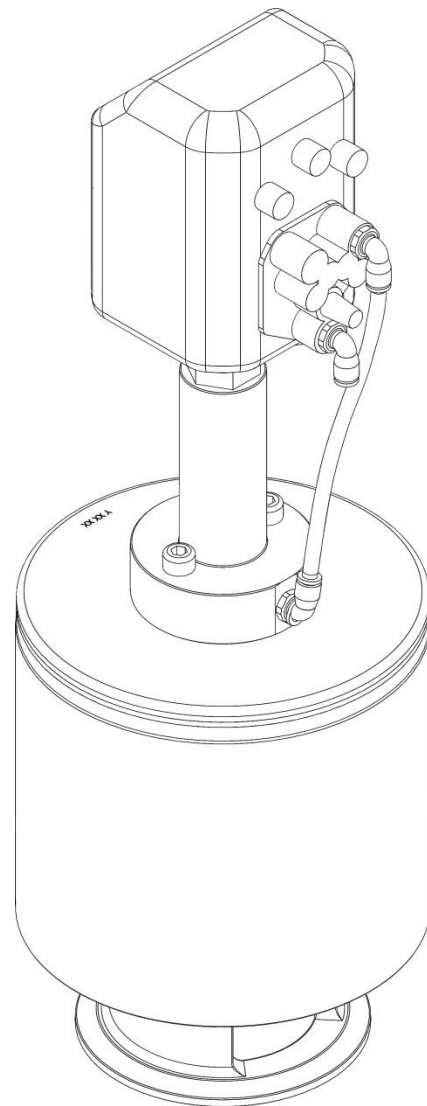
IMPORTANT: It is imperative to first pass the GEMÜ housing on the base and then to mount the base on the actuator.

6.3 **CONNECTING THE AIR SUPPLY TO THE 1436 UNIT**

NC assembly



NO assembly



Connection	Description
1	Air supply connection P
3	Venting connection G1/8 with silencer
V1	Additional air throttle for A1 (connector 2)
V2	Exhaust air throttle for A1 (connector 2)
V3	Exhaust air throttle for A2 (connector 4)
V4	Additional air throttle for A2 (connector 4)
V5	Non-return valve
2	Working connection for process valve c.f. 1 and 2 (A1)
4	Working connection for process valve c.f. 3 (A2)

- Make the connection between pneumatic positioner outlet A1 (single acting) or A1 and A2 (double acting) and the pneumatic actuator air control inlet .
- Connect the control air supply (additional air) to the air supply connection P 1 (max. 7 bar)

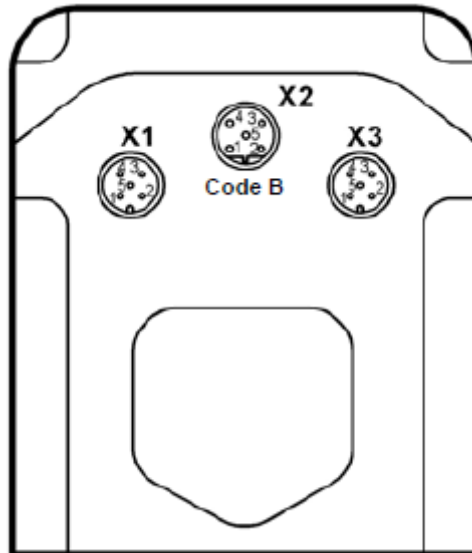


Attention: Observe maximum actuator control pressure!


6.4 CONNECTING THE POWER SUPPLY REGULATOR OPERATION

The signal from a temperature sensor or level, flow, which through with the control box of the valve that controls it (Regulator mode).

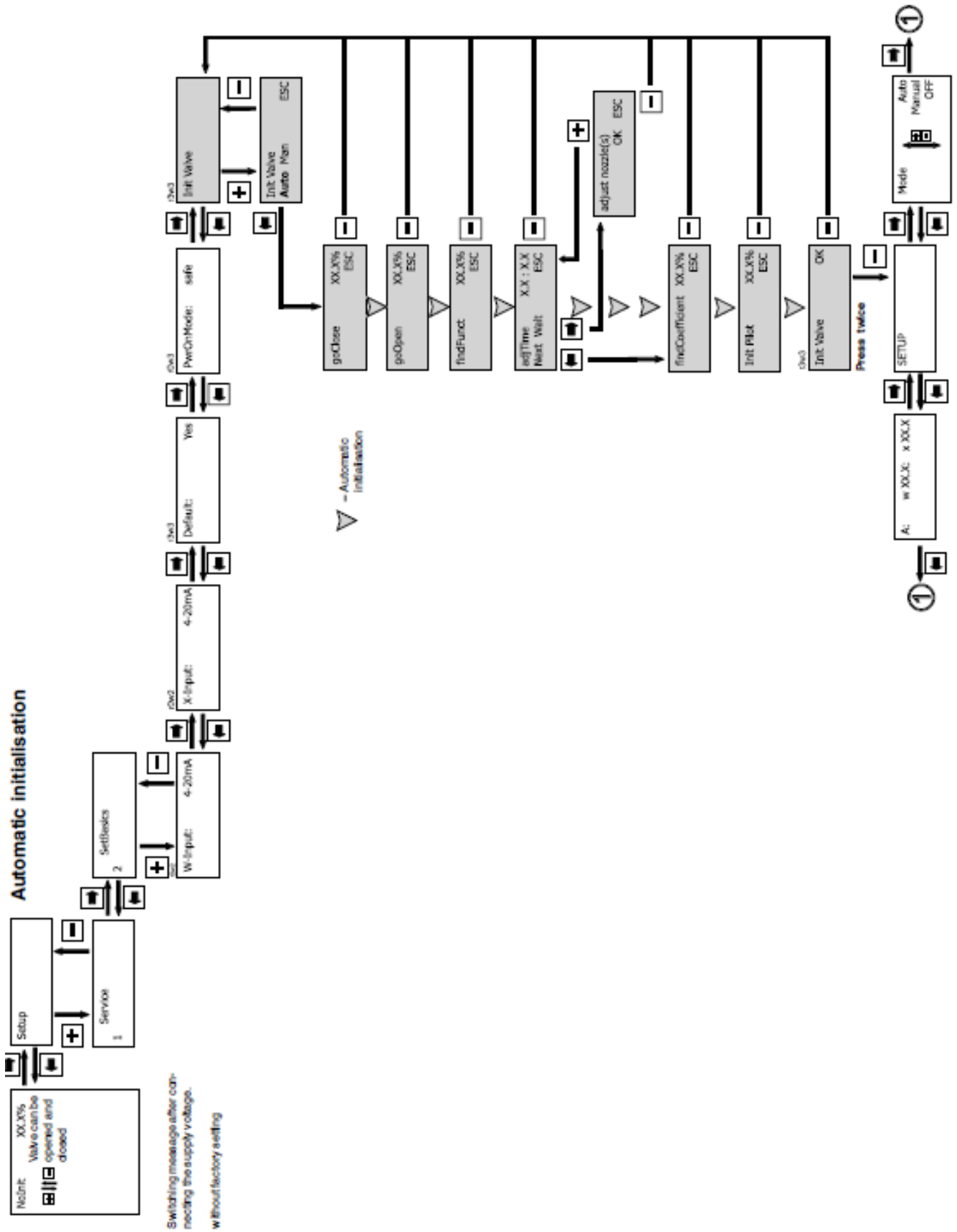
- Connect analogue input (actual value input) 0/4-20 mA to plug X3.



Connection	Pin	Signal name	
X3 M12 plug A coding	1	I+, set value input	
	2	I-, set value input	
	3	I+, actual value input	} Working as a process controller
	4	I-, actual value input	
	5	Digital input 2 (optional)	

	<p>To ensure safe restarting of the positioner following interruption of the power supply, the power interruption must be longer than 3 seconds.</p>
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6.5 **INITIALIZATION AUTOMATIC 1436 UNIT**



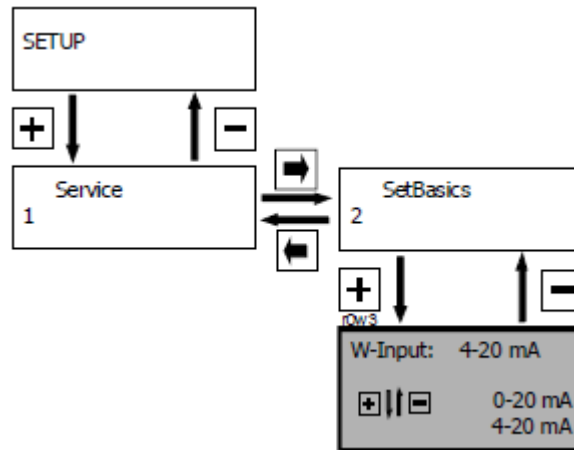
Error messages during initialisation

No.	Error text	Description	Condition for the occurrence of the error	Error cause
020	Pot wrong dir Error	The potentiometer has recognised the wrong control function during initialisation.	Parameter "CtrlFn" is set to AUTO and a valve with control function 3 is recognised, from which the actuator has moved in the wrong direction. Parameter "CtrlFn" is set for a fixed control function. This set control function is not in accordance with the control function determined during initialisation.	The pneumatic connections for "CLOSED" and "OPEN" on the valve have been switched or the parameter "Pot Dir" is set on "fall". The wrong control function is set.
021	Wrong function Error	An incorrect control function was recognised during automatic initialisation.	Parameter "CtrlFn" is set for a fixed control function. This set control function is not in accordance with the control function determined during initialisation.	The wrong control function is set in the "CtrlFn" parameter. If the parameter is set to AUTO, the 1436 cPos determines the corresponding control function and leaves it there.
022	Pneumatic Error Error	During automatic initialisation of the valve a pneumatic error was detected.	<ul style="list-style-type: none"> ● The minimum stroke was undershot ● End positions cannot be reached ● Leakage in the system 	Check the stroke of the pneumatic system. Check leakage and end positions.
023	Leakage Error	During automatic initialisation of the valve leakage was detected.	The positioner is in initialisation mode.	Check the pneumatic system for leakage and carry out initialisation again.
060	TrvlSensErr Error	A cable break or short-circuit in the sensor connection (travel sensor) was detected.		Cable break or short-circuit in the sensor connection (travel sensor) detected.

	Error text	Description	Condition for the occurrence of the error	Error cause
	In 1 no Signal	No signal at digital input In 1	Parameter In 1 is set to OFF / ON or Safe / ON	Connect signal to digital input In 1
	In 2 no Signal	No signal at digital input In 2	Parameter In 2 is set to OFF / ON or Safe / ON	Connect signal to digital input In 2
	In W no Signal	No signal at digital input In W	Parameter In W is set to OFF / ON or Safe / ON	Connect signal to digital input In W
	In X no Signal	No signal at digital input In X	Parameter In X is set to OFF / ON or Safe / ON	Connect signal to digital input In X

6.6 **SETTING THE VALVE POSITIONER OPERATOR**

Set the type of external set-point (0 / 4-20mA) **W-Input** setting.



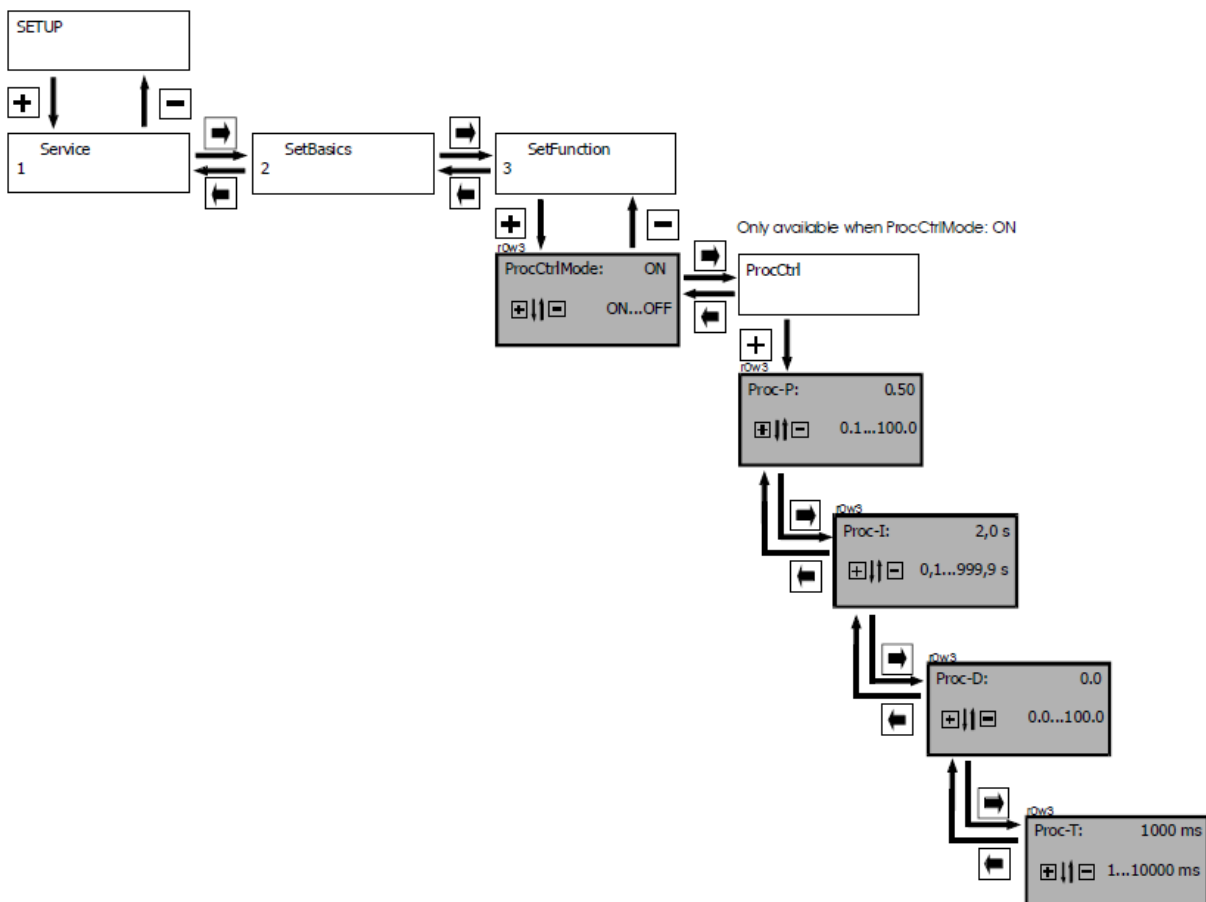
6.7 **SETTING THE VALVE REGULATOR OPERATION**

Set the type of external set-point (0 / 4-20mA) to the parameter **W-Input**.
Set the type of external real value (0 / 4-20mA) to the parameter **X-Input**.

If it functions as a process controller, set the parameter **ProcCtrlMode** to On.

Now start to adjust the PID parameters for the control system.

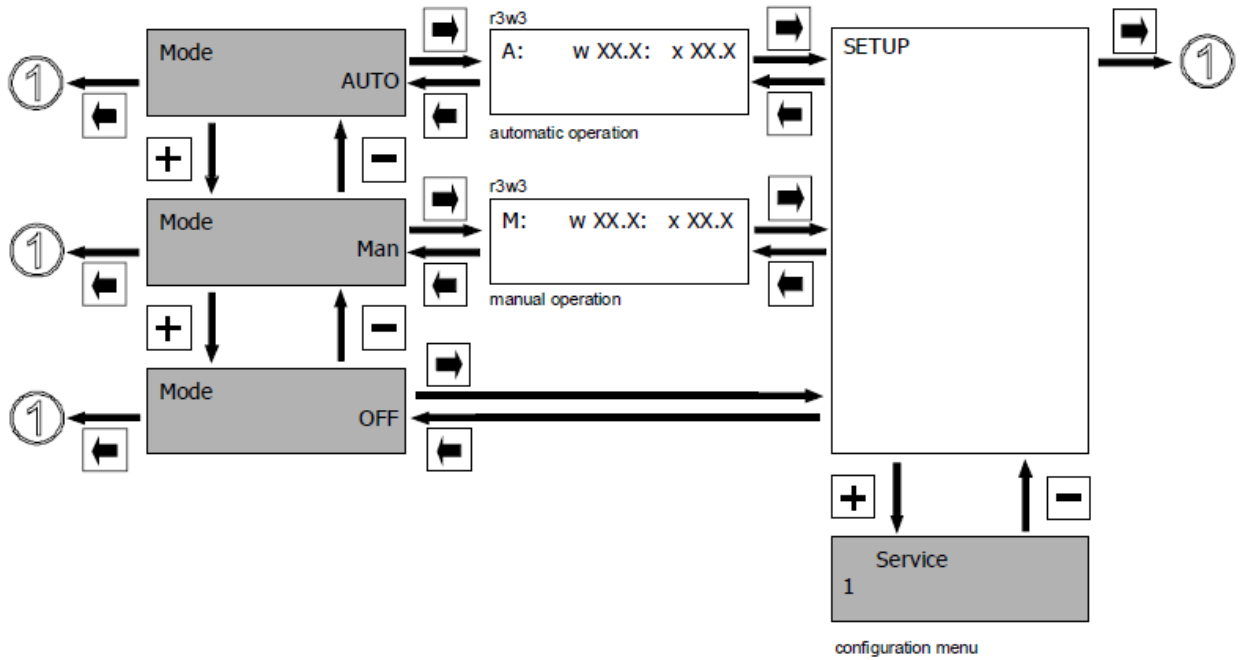
Select the menu **ProcCtrl** and set the parameters Proc-P, Proc-I, Proc-D and Proc-T according to the specific system parameters.



6.8 SETTING THE VALVE AUTOMATIC OPERATION

Operation as a positioner and process controller.

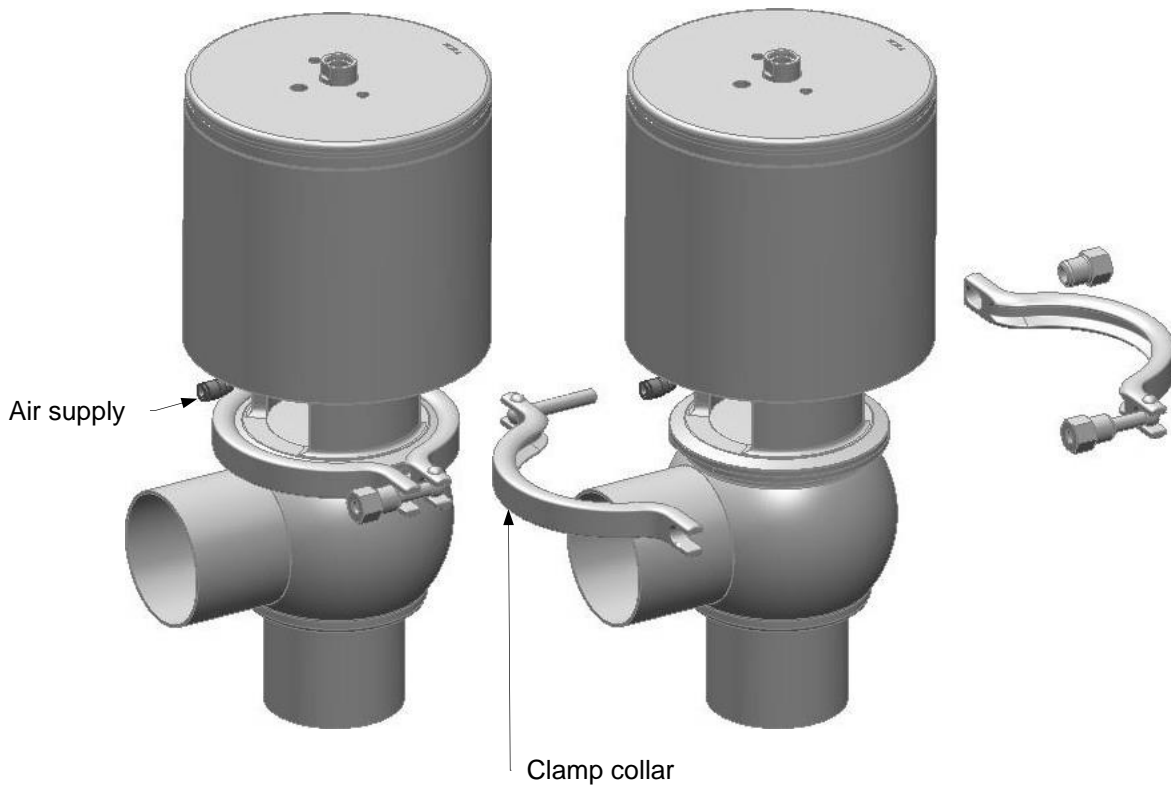
Define the setting mode on auto.



7 DISASSEMBLING THE VALVE

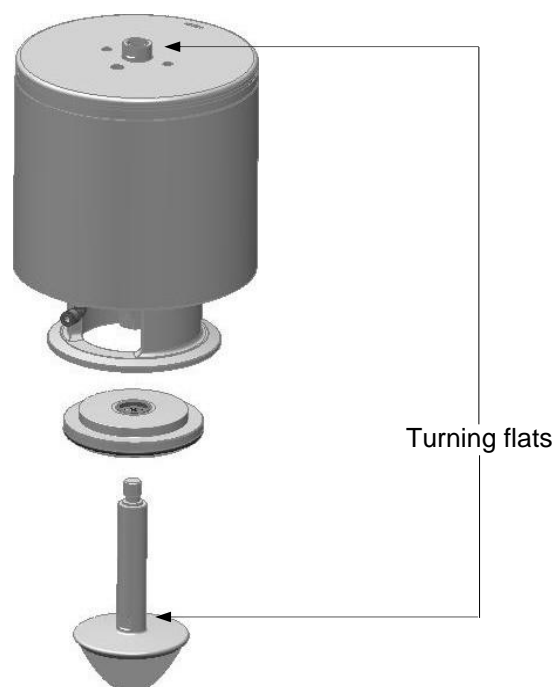
7.1 DISASSEMBLING THE DCX3 REGULATING VALVE CLAMP COLLAR

- Supply air to the NC actuator to relieve the pressure on the clamp collar from the spring.
- Disassemble the clamp collar.
- Switch off the actuator air supply.
- Remove the actuator and plug assembly from the DCX3 body.



7.2 DISASSEMBLING THE DCX3 REGULATING VALVE SHUT-OFF UNIT

- Unscrew the plug by means of the turning flats on the valve and on the actuator stem then remove the seal support plate.

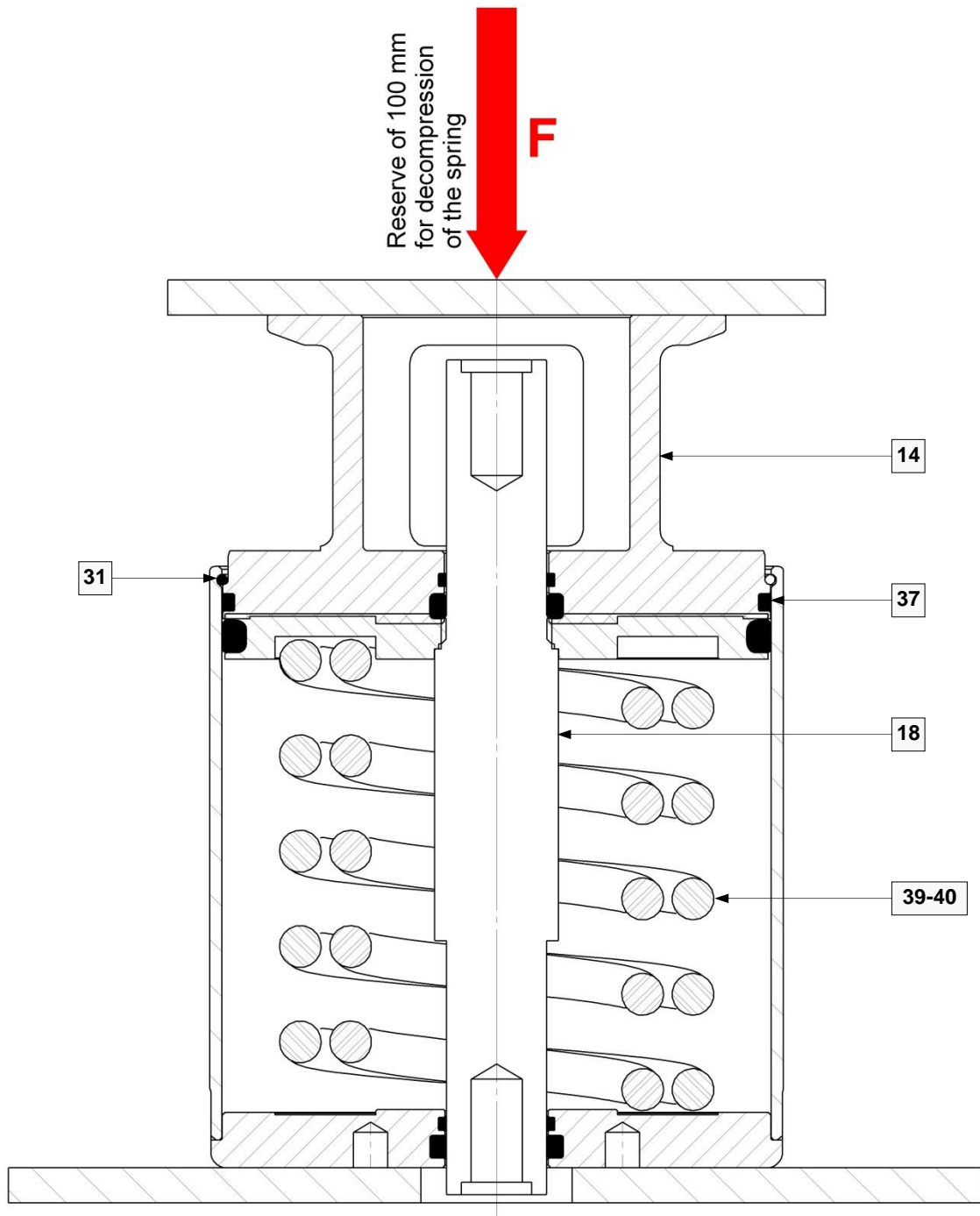




CAUTION: This is a hazardous operation if performed without using the correct tools. We recommend using a hydraulic press or a tool of the type shown in the diagram opposite (this tool must be made to accommodate a spring expansion of 100 mm).

With the actuator placed in vertically :

- Push down the lantern [14] to remove the snap-ring.
- Remove the snap-ring [31] from its recess using a small screwdriver.
- Release the pressure to allow the lantern to rise back up.
- Take out the lantern together with its seal [37].
- Remove the stem/piston [18] and the spring(s) [39-40] from the actuator body.



8 CHANGING SEALS AND REASSEMBLY

8.1 INTRODUCTION

Our valve components are listed and identified in this notice, together with all the information you need to order your spare parts.

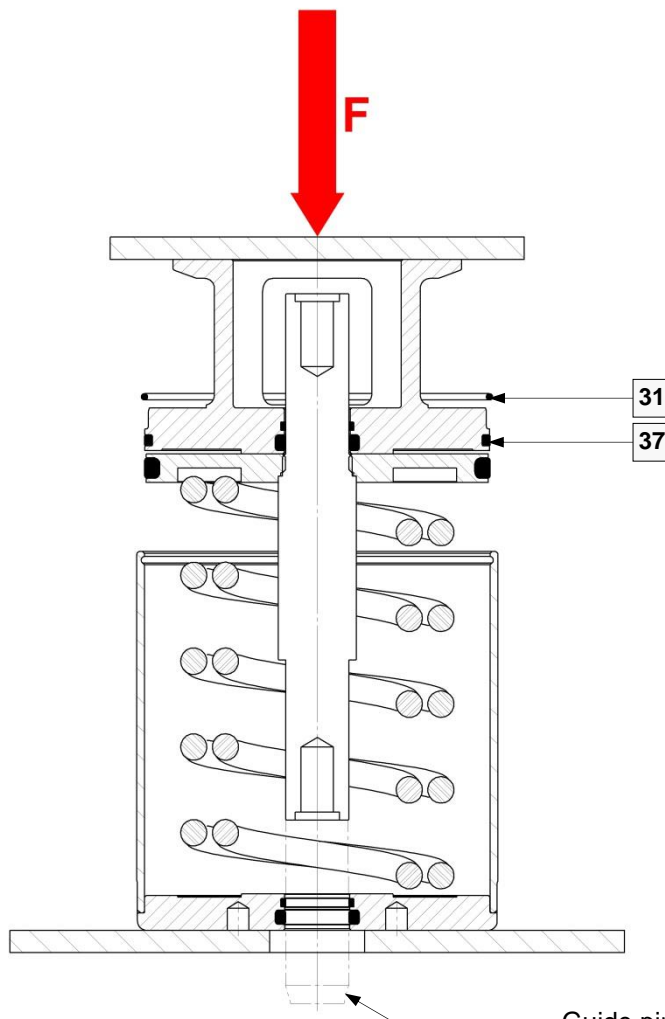
8.2 ASSEMBLING THE ACTUATOR



CAUTION: For changing the actuator configuration from **NC** (Normally Closed) to **NO** (Normally Open), see the following chapter.

procedure is performed in the reverse order to disassembly. However, it is necessary to take into account the following information :

- A guide pin centred on the actuator stem ensures that the piston is properly centred in the body. It also avoids the piston jumping if the spring(s) slip(s) sideways during compression.
- Before reassembling the parts, ensure that the assembly is lubricated with an appropriate lubricant (water-resistant and temperature-resistant food grade grease → E.g., for information: 4025 H1 QUINPLEX by Lubrication Engineers, see § 9.10). Ensure that the grease used is compatible with the elastomer seals.
- Take care not to damage the lantern seal [37] when fitting it with the press.
- Ensure that the snap-ring [31] is properly positioned in the recess of the body before releasing pressure.
- Test operation of the actuator before continuing assembly.

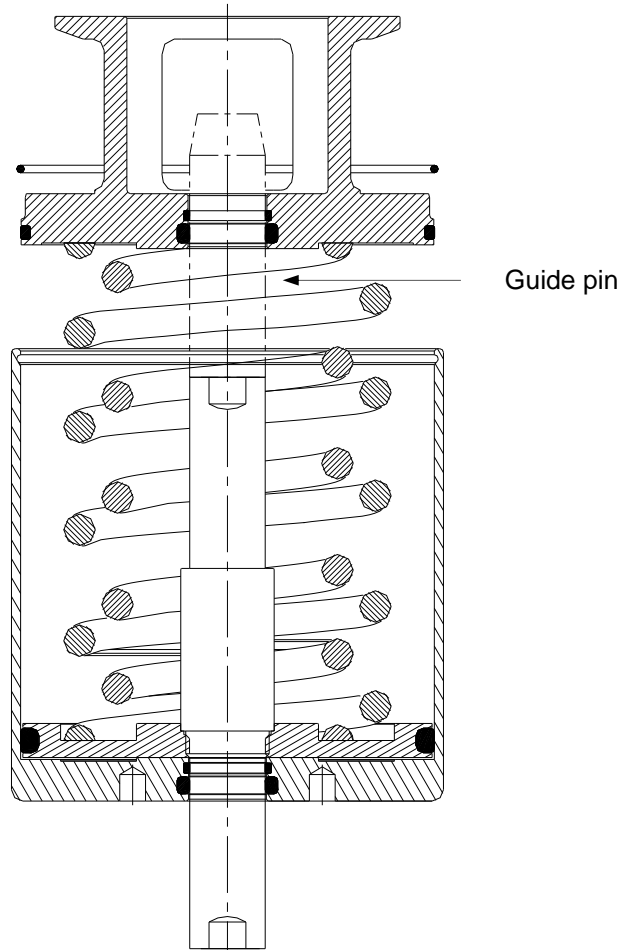


Guide pin (CAUTION pin protrudes during assembly)

Guide pin No.	
DN	references
25 - 40	73 00453
51	73 00454
63 - 76	73 00455
80 - 104	73 00456

Transforming an **NC** actuator into a **NO**:

After opening the actuator, refit the stem/piston and spring assembly the other way around in the body.



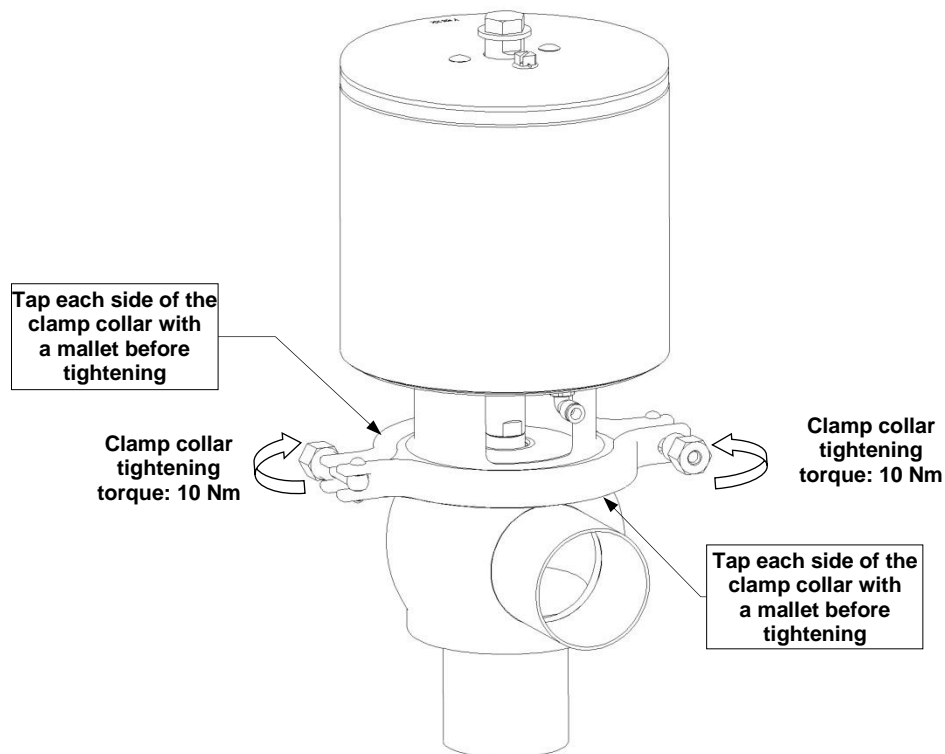
NOTE !

NOTE: For your own safety, check that the snap-ring is properly positioned in its recess. If the snap-ring is damaged or deformed, it must be replaced.

8.4 REASSEMBLING THE VALVE

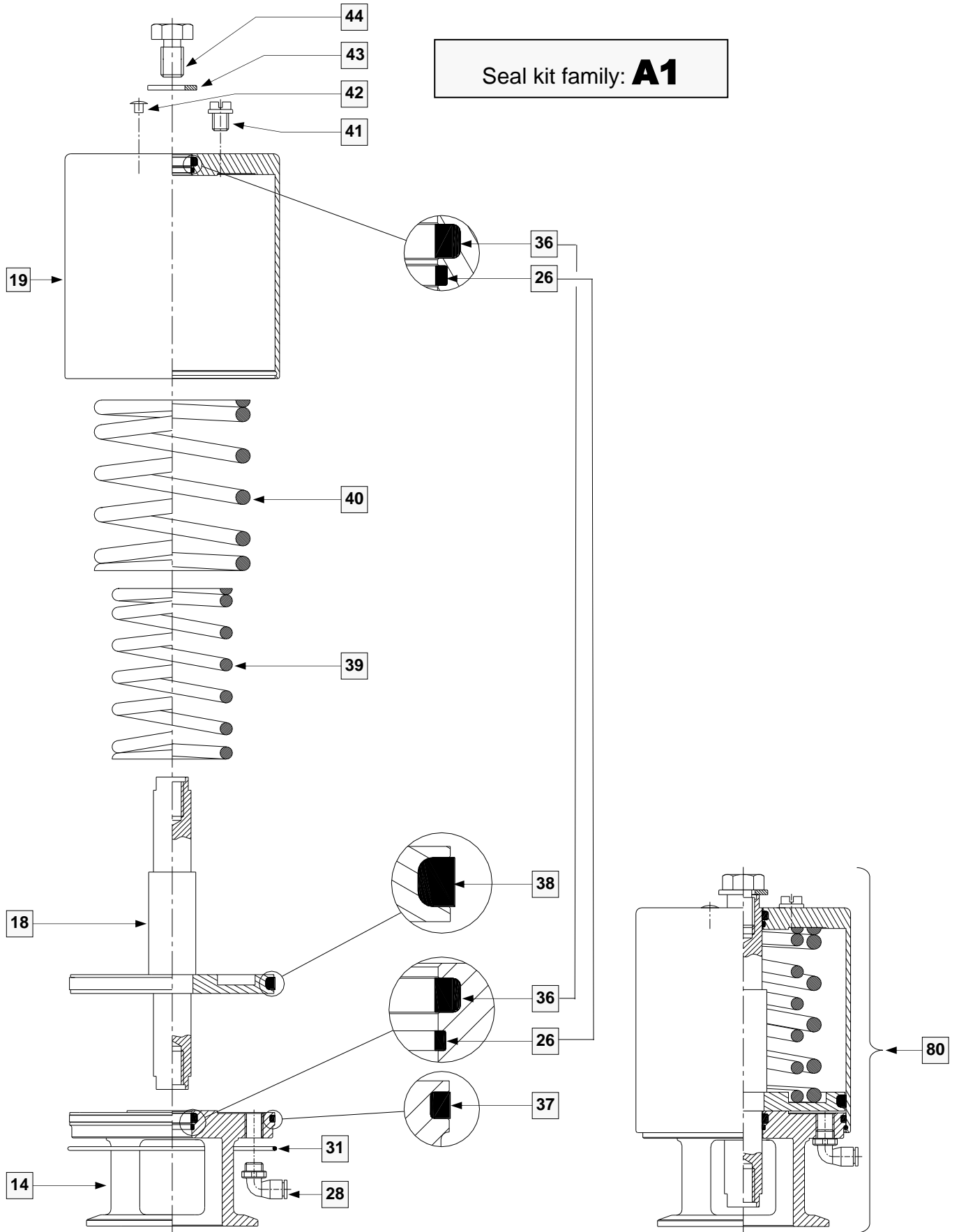
This procedure is performed in the reverse order to dismantling. You should follow the guidelines given below:

- We recommend using a **medium thread lock compound** to lock the plug during reassembly on the actuator and retightening the plug of diaphragm valves after first usage with temperature.
- Do not forget to supply air to the actuator before tightening the clamp collars.
- Before making the final network connections, check that the valve is operating normally. If you encounter problems when carrying out the operations described above, do not hesitate to contact us.
- You can also contact us regarding maintenance for your valves either on-site or at our own premises.

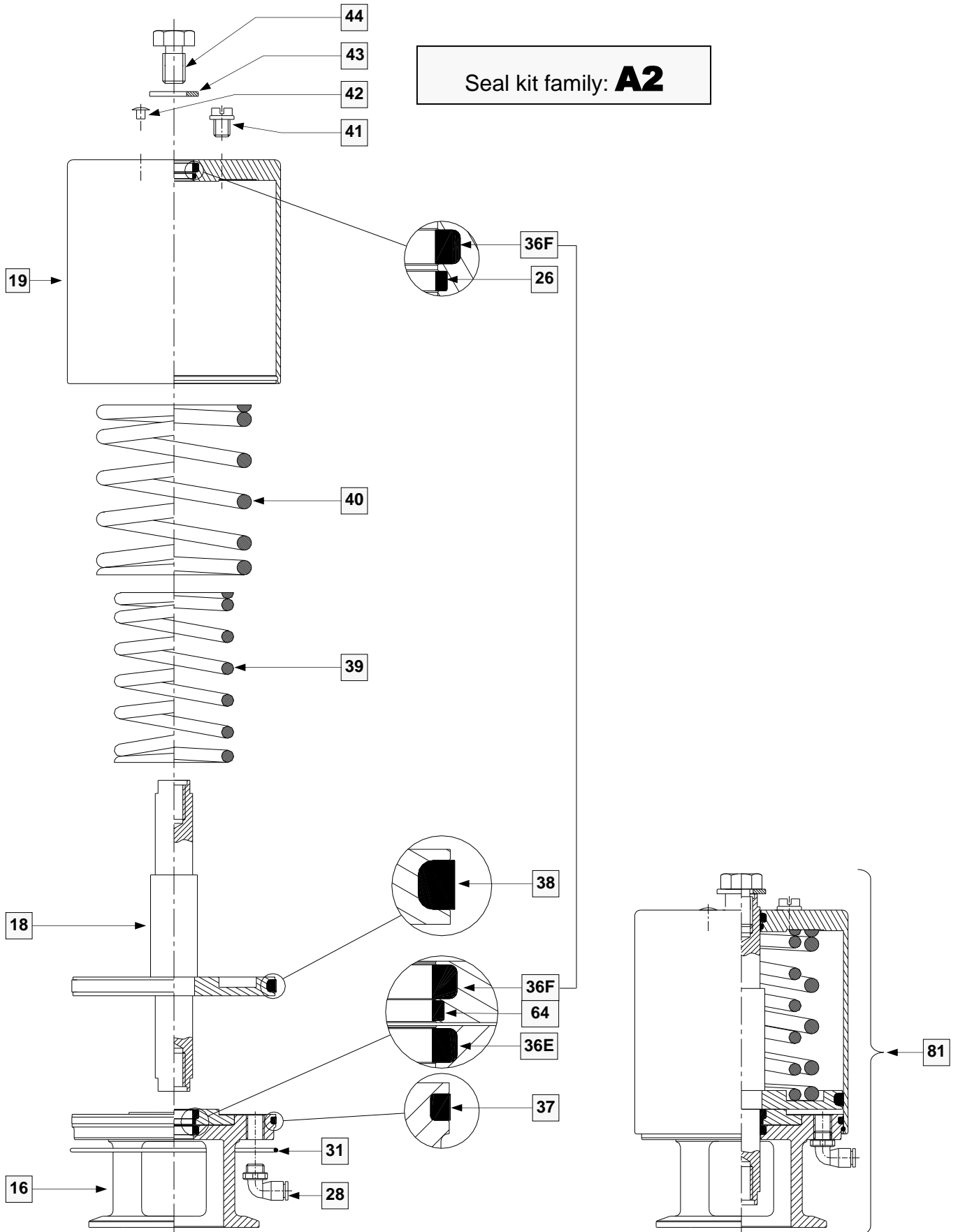


9 PARTS

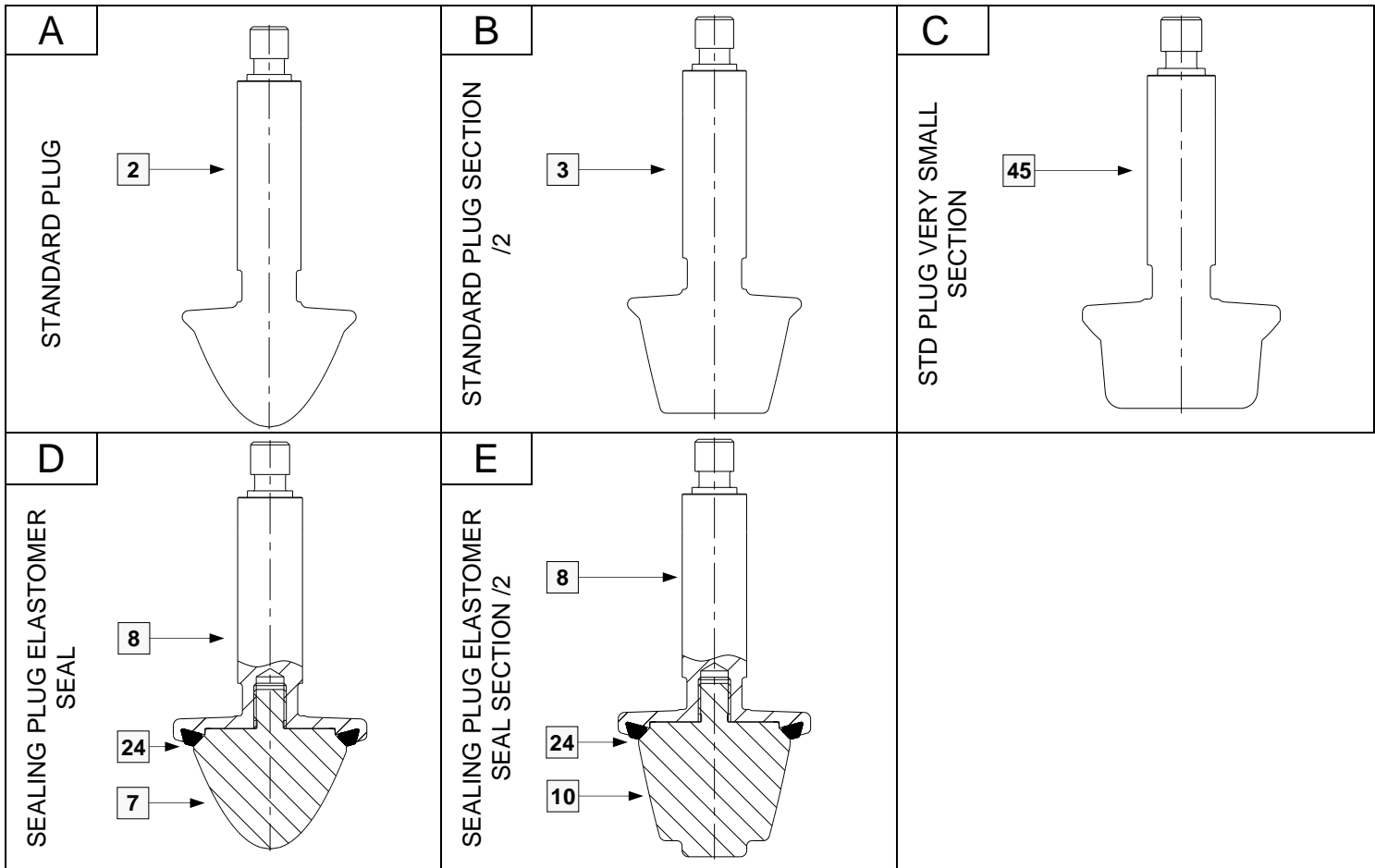
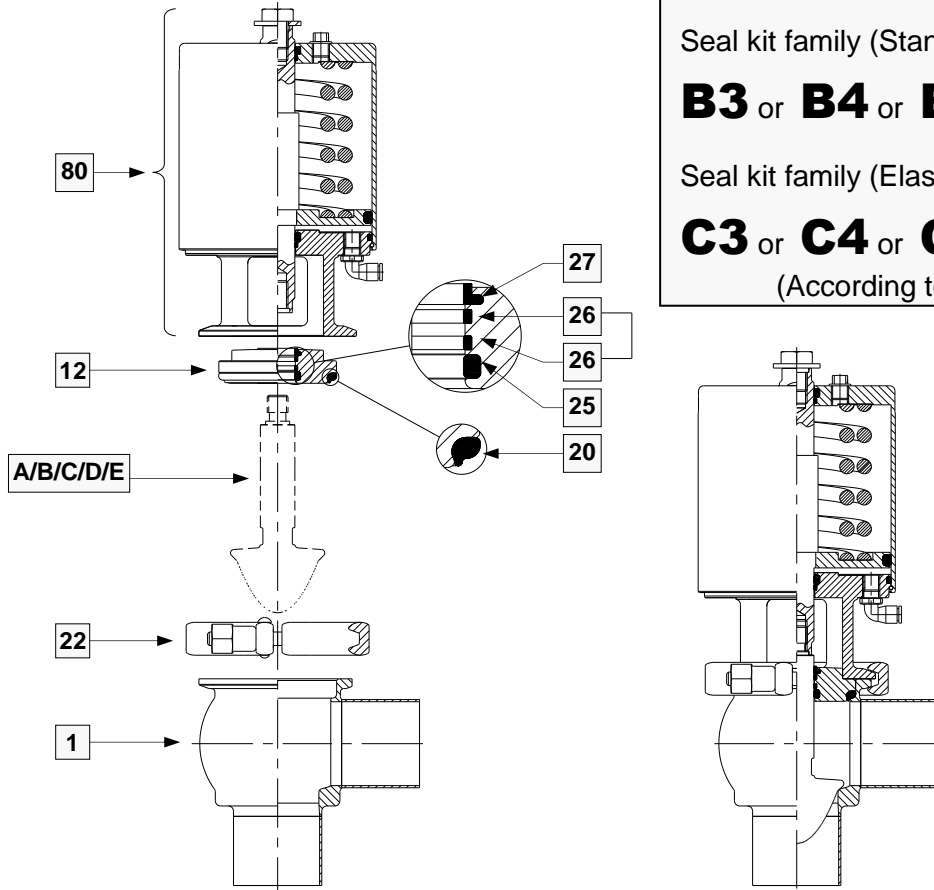
9.1 DCX3 STANDARD VALVE ACTUATOR (elastomer, diaphragm)



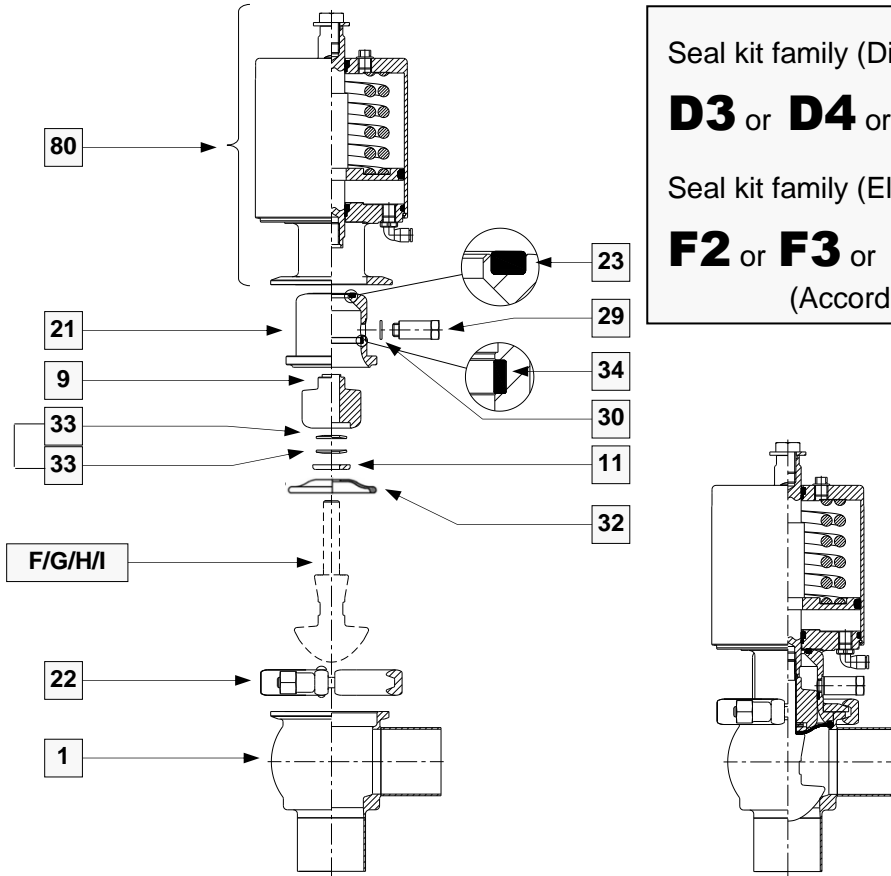
9.2 **DCX3 ASEPTIC SEAT VALVE ACTUATOR**



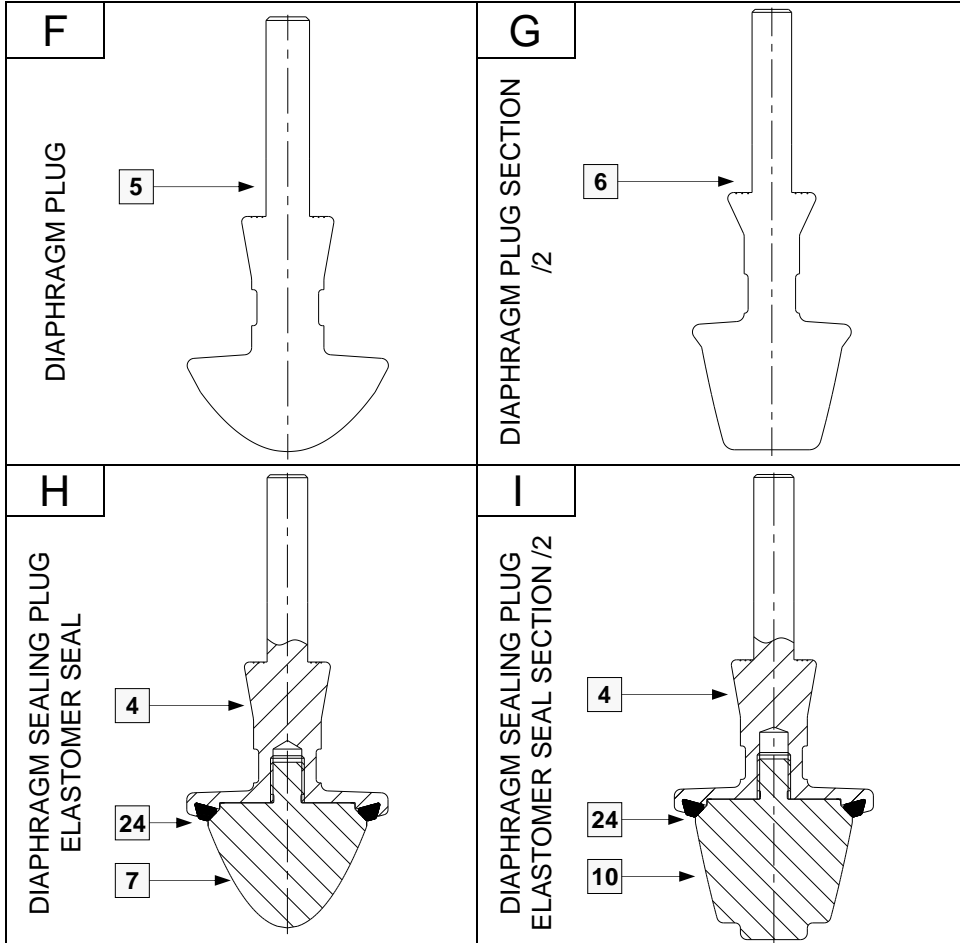
9.3 **DCX3 STANDARD REGULATING VALVE, ELASTOMER AND SECTION /2**

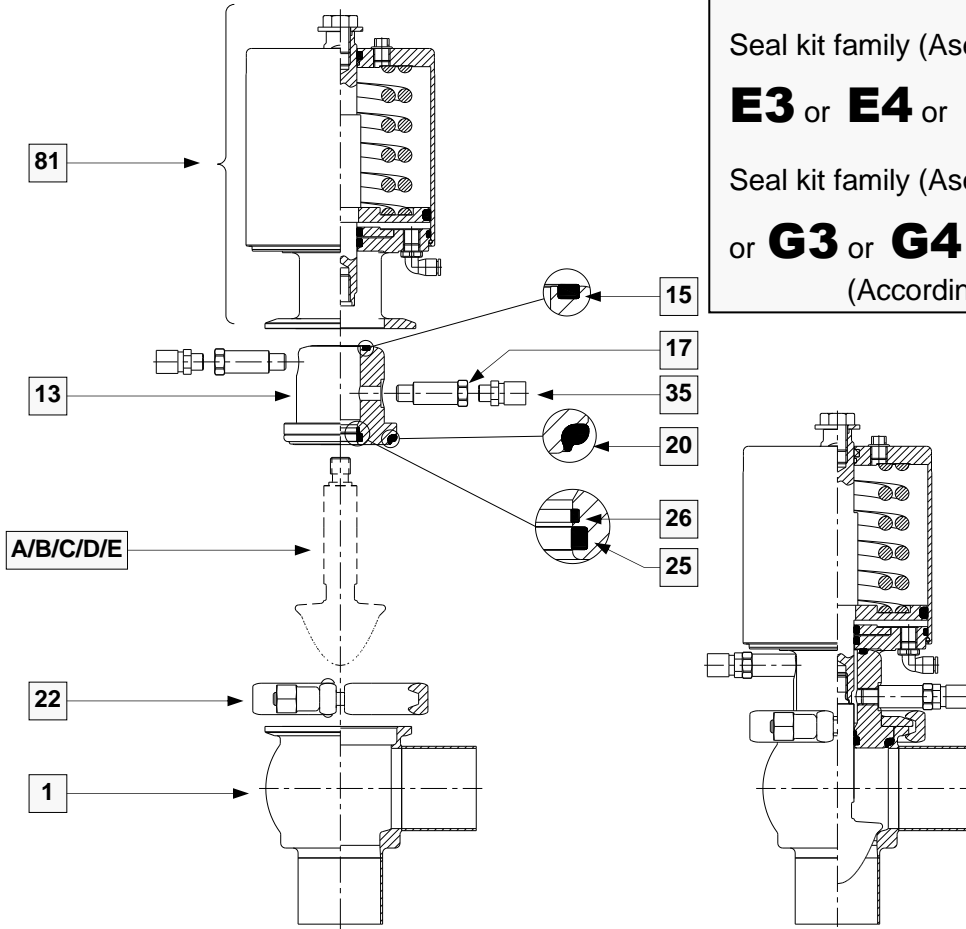


9.4 **DCX3 DIAPHRAGM REGULATING VALVE, ELASTOMER AND SECTION /2**



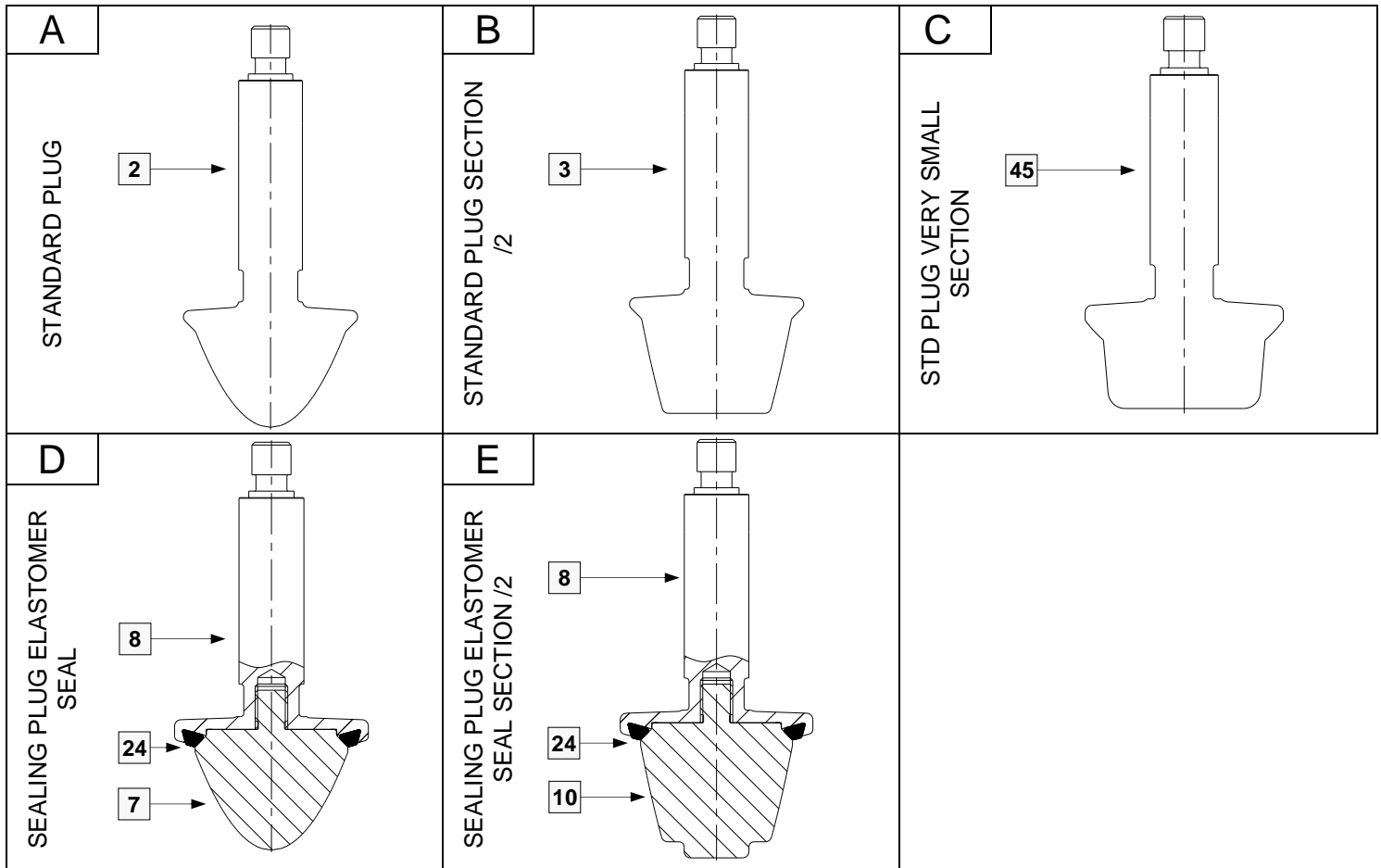
Seal kit family (Diaphragm): **D1** or **D2** or **D3** or **D4** or **D5**
 Seal kit family (Elastomer Diaph.): **F1** or **F2** or **F3** or **F4** or **F5**
 (According to material grade)





Seal kit family (Aseptic STD): **E1** or **E2** or **E3** or **E4** or **E5**

Seal kit family (Asept. Elasto.): **G1** or **G2** or **G3** or **G4** or **G5**
(According to material grade)



9.6 LIST OF PARTS FOR DN 25 to 51 DCX3/4 AUTOMATIC VALVES

Guide	Part name	Qty	DN25 SMS	DN1" US	DN25 DIN	DN32 SMS	DN38 SMS	DN1"1/2 US	DN40 DIN	DN2" US	DN51 SMS	DN50 DIN
01	DCX3 valve body	1	Depending on body configuration									
02	DCX3 STD and aseptic regulating valve plug	1	7303023	7300183	7303023			7300184			7300182	
03	DCX3 STD and aseptic regulating valve plug section /2	1						7301227			7300242	
04	DCX3 elastomer diaphragm regulating valve plug	1						7301345			7301508	
05	DCX3 diaphragm regulating valve plug	1						7300770			7300662	
06	DCX3 diaphragm regulating valve plug section /2	1						7301760				
07	Elastomer regulating valve plug plate	1		7301553				7300706			7300637	
08	DCX3 regulating valve plug elastomer & sect. /2	1		7300004				7300070			7300071	
09	Intermediate part for DCX3 diaphragm valve	1				7300062					7300063	
10	Regulating valve plug plate elastomer section /2	1						7301361			7301527	
11	DCX3/4 diaphragm valve washer	1				7300189					7005458	
12	Seal support plate for DCX3/4 standard valve	1						7301474			7301475	
13	Seal support plate for DCX3/4 aseptic bearing valve	1				7301482					7301483	
14	Lantern for DCX3/4 standard valve	1				7301470					7301471	
15	Seal support plate O-ring for aseptic bearing valve EPDM	1				7006145					7006038	
16	Lantern for DCX3/4 aseptic seat valve	1				7301492					7301493	
17	Aseptic seat extension	2						7009080				
18	DCX3/4 stem/piston assembly	1				7303187					7303183	
19	DCX3/4 actuator body	1				7005572					7005512	
20	Seal support plate O-ring EPDM	1				7380158					7380159	
20	Seal support plate O-ring FKM FP75	1				7010808					7010801	
20	Seal support plate O-ring FKM P113	1				7380607					7006130	
20	Seal support plate O-ring VMQ	1				7006171					7006175	
20	Seal support plate O-ring HNBR	1				7381072					7006414	
21	Seal support plate for DCX3/4 diaphragm valve	1				7301533					7301534	
22	Clamp collar	1				7441831					7441832	
23	Seal support plate O-ring, with leak collector EPDM	1				7006145					7006038	
23	Seal support plate O-ring, with leak collector FKM FP75	1									7010880	
23	Seal support plate O-ring, with leak collector FKM P113	1				7380624					7006128	
23	Seal support plate O-ring, with leak collector VMQ	1				7006204					7006036	
23	Seal support plate O-ring, with leak collector HNBR	1				7381108					7381078	
24	Elastomer plug O-ring EPDM	1				7006174					7380158	
24	Elastomer plug O-ring FKM FP75	1				7380913					7010808	
24	Elastomer plug O-ring FKM P113	1				7006173					7380607	
24	Elastomer plug O-ring VMQ	1				7006172					7006171	
24	Elastomer plug O-ring HNBR	1				7381075					7381072	
25	Seal support plate O-ring, EPDM (Asept. seat)	1				7380137					7380179	
25	Seal support plate O-ring FKM FP75 (Asept. seat)	1				7010806					7380899	
25	Seal support plate O-ring FKM P113 (Asept. seat)	1				7006157					7380620	
25	Seal support plate O-ring VMQ (Asept. seat)	1				7006170					7006035	
25	Seal support plate O-ring HNBR (Asept. seat)	1				7381076					7191035	
26	Lantern, of body and seal support plate ring	2-4				7009993					7009972	
27	Seal support plate scraper seal	1				7006147					7006030	
28	Adjustable male elbow	1-2						7010116				
29	Leak collector extension	1						7009107				
30	Leak collector extension connection seal	1						7008908				
31	Stainless steel snap-ring	1				7380174					7380157	
32	Diaphragm PTFE DCX3/4	1				7006691					7006692	
33	DCX diaphragm valve spring washer	2				7007425					7007419	
34	Diaphragm seal support plate ring	1				7003558					7009962	
35	Steam bearing straight connector	2						7008951				
36	Lantern and body O-ring NBR	2				7380808					7380152	
36E	Lantern O-ring EPDM (aseptic)	1-2				7380137					7380179	
36F	Lantern and body O-ring FKM (asept.)	2				7006157					7380899	
37	Lantern torque seal NBR	1				7380176					7380160	
37	Lantern O-ring FKM (Asept. seat)	1				7380178					7030412	
38	Piston torque seal NBR	1				7380316					7380161	
38	Piston O-ring FKM (Asept. seat)	1				7380601					7006186	
39	Spring Standard actuator (Small)	1									7007796	
40	Spring standard actuator (Large)	1				7007800					7007797	
41	Pierced plastic cap	1						7002496				
42	SKIFFY cap	2						7009954				
43	Stem washer for actuator	1				7007415					7006797	
44	Actuator stem TH screw	1				7006806					7006814	
45	DCX3 STD regulating valve plug very small section	1		7301238							7301222	
46	8630 positioner detection cam CHC screw	2						7006932				
47	8630 positioner detection cam	1						7812745				
48	Base for DCX3 regulating valve 8630 pos.	1						7811924				
49	Clip retainers for 8630 positioner	1						7008243				
50	8630 positioner stem	1						7811925			7811926	
51	8630 positioner base O-ring	1						7380182				

52	8630 positioner O-ring	1		7380352	
53	8630 positioner base CHC screw	2		7006933	
54	Base air passage O-ring	1		7006064	
55	8630 positioner	1		7008239	
56	Straight male adaptor	1-2		7009065	
57	M/F cylindrical reducer	2		7380359	
58	Silencer	1		7008965	
59	Tapered male plug	1		7008950	
60	GEMU 1436 positioner	1		7814025	
61	Base for DCX3 regulating valve GEMU 1436 pos.	1		7814690	
62	GEMU 1436 positioner base CHC screw	2		7380325	
63	GEMU 1436 positioner base H screw	1		7814688	7814689
64	Aseptic lantern ring	1		7010655	7010656

9.7 LIST OF PARTS FOR DN 63 TO 104 DCX3/4 AUTOMATIC VALVES

Guide	Part name	Qty	DN2"1/2 US	DN63 SMS	DN65 DIN	DN3" US	DN76 SMS	DN80 DIN	DN80 ACT.10 4	DN4" US	DN104 SMS
01	DCX3 valve body	1	Depending on body configuration								
02	DCX3 STD and aseptic regulating valve plug	1	7300185	7810607	7300186	7302018				7302022	
03	DCX3 regulating valve plug STD & asept. section /2	1	7302851	7303061	7301249	7302019				7302023	
04	DCX3 elastomer diaphragm regulating valve plug	1	7301453	7301465	7301164						
05	DCX3 diaphragm regulating valve plug	1	7300429		7300445						
06	DCX3 diaphragm regulating valve plug section /2	1									
07	Elastomer regulating valve plug plate	1	7301246	7301894	7301894	7302020				7301467	
08	DCX3 regulating valve plug elastomer & sect./2	1	7300072	7300073	7300074	7301957				7300076	
09	Intermediate part for DCX3 diaphragm valve	1		7300064							
10	Regulating valve plug plate elastomer section /2	1			7301454	7302021				7302024	
11	DCX3/4 diaphragm valve washer	1		7005458						7005457	
12	Seal support plate for DCX3/4 standard valve	1		7301449							
13	Seal support plate for DCX3/4 aseptic bearing valve	1		7301451						7301484	
14	Lantern for DCX3/4 automatic valve	1		7301448						7301472	
15	Seal support plate O-ring for aseptic seat valve EPDM	1		7006038						7006441	
16	Lantern for DCX3/4 aseptic seat valve	1		7301494						7301495	
17	Aseptic seat extension	2				7009080					
18	DCX3/4 stem/piston assembly	1		7303192						7302162	
19	DCX3/4 actuator body	1		7005595						7005531	
20	Seal support plate O-ring EPDM	1		7006164						7006183	
20	Seal support plate O-ring FKM FP75	1		7010810						7381043	
20	Seal support plate O-ring FKM P113	1		7006131						7006063	
20	Seal support plate O-ring VMQ	1		7006180						7006184	
20	Seal support plate O-ring HNBR	1		7191024						7381090	
21	Seal support plate for DCX3/4 diaphragm valve	1		7301535						7301536	
22	Clamp collar	1		7441833						7441837	
23	O-ring for seal support plate with leak collector EPDM	1		7006235						7006008	
23	O-ring for seal support plate with leak collector FKM FP75	1		7010801						7010801	
23	O-ring for seal support plate with leak collector FKM P113	1		7006130						7380606	
23	O-ring for seal support plate with leak collector VMQ	1		7006152						7006226	
23	O-ring for seal support plate with leak collector HNBR	1		7006414						7381107	
24	Elastomer plug O-ring EPDM	1		7006193	7006002	7006008	7006008	7006162			
24	Elastomer plug O-ring FKM FP75	1		7380914	7380915	7381054	7010787				
24	Elastomer plug O-ring FKM P113	1		7380609	7380601	7380606	7006136				
24	Elastomer plug O-ring VMQ	1		7006057	7006181	7006083	7006198				
24	Elastomer plug O-ring HNBR	1		7381074	7381073	7381107	7381099				
25	Seal support plate O-ring EPDM (Aseptic seat)	1		7380179						7006160	
25	Seal support plate O-ring FKM FP75 (Aseptic seat)	1		7380899						7010881	
25	Seal support plate O-ring FKM P113 (Aseptic seat)	1		7380620						7380617	
25	Seal support plate O-ring VMQ (Aseptic seat)	1		7006035						7006589	
25	Seal support plate O-ring HNBR (Aseptic seat)	1		7191035						7381092	
26	Lantern, of body and seal support plate ring	2-4		7009972						7009973	
27	Seal support plate scraper seal	1		7006030						7006034	
28	Adjustable male elbow	1-2				7010116					
29	Leak collector extension	1				7009107					
30	Leak collector extension connection seal	1				7008908					
31	Stainless steel snap-ring	1		7007770						7007785	
32	Diaphragm PTFE DCX3/4	1		7006693						7006694	
33	DCX diaphragm valve spring washer	2		7007419						7007426	
34	Diaphragm seal support plate ring	1		7009988						7010166	
35	Steam bearing straight connector	2				7008951					
36	Lantern and body O-ring NBR	2		7380152						7380802	
36E	Lantern O-ring EPDM (aseptic)	1-2		7380179						7006160	
36F	Lantern and body O-ring FKM (asept.)	2		7380899						7380617	
37	Lantern torque seal NBR	1		7006118						7006049	
37	Lantern O-ring FKM (Asept. seat)	1		7006259						7006260	
38	Piston torque seal NBR	1		7006101						7006137	
38	Piston O-ring FKM (Asept. seat)	1		7006284						7006418	
39	Spring Standard actuator (Small)	1		7007726						7007761	
40	Spring standard actuator (Large)	1		7007760						7007762	
41	Pierced plastic cap	1				7002496					
42	SKIFFY cap	2				7009954					
43	Stem washer for actuator	1		7006797						7006796	
44	Actuator stem TH screw	1		7006814						7006815	
45	DCX3 STD regulating valve plug very small section	1									
46	8630 positioner detection cam CHC screw	2								7006932	

47	8630 positioner detection cam	1		7812745	
48	Base for DCX3 regulating valve 8630 pos.	1		7811924	
49	Clip retainers for 8630 positioner	1		7008243	
50	8630 positioner stem	1	7811926		7812753
51	8630 positioner base O-ring	1		7380182	
52	8630 positioner O-ring	1		7380352	
53	8630 positioner base CHC screw	2		7006933	
54	Base air passage O-ring	1		7006064	
55	8630 positioner	1		7008239	
56	Straight male adaptor	1-2		7009065	
57	M/F cylindrical reducer	2		7380359	
58	Silencer	1		7008965	
59	Tapered male plug	1		7008950	
60	GEMU 1436 positioner	1		7814025	
61	Base for DCX3 regulating valve GEMU 1436 pos.	1		7814690	
62	GEMU 1436 positioner base CHC screw	2		7380325	
63	GEMU 1436 positioner base H screw	1	7814689		7814825
64	Aseptic lantern ring	1	7010656		7009973

9.8 LIST OF ACTUATORS FOR DCX3 AUTOMATIC SHUT-OFF VALVES

Guide	Part name	Qty	DN25/40	DN50/51	DN63/76	DN80	DN80 ACT.104 DN104
80	Standard DCX3 valve actuator, elastomer & diaphragm	1	7100300	7100301	7100302		7100303
81	DCX3 aseptic seat valve actuator	1	7100487	7100488	7100489		7100490

9.9 LIST OF REFERENCES OF SEAL KITS FOR DCX3/4 AUTOMATIC VALVES.

DESCRIPTION		DN 25-40	DN 50-51	DN 63-76	DN 80	DN80 ACT.104	DN 100-104
For details of kit A see following chapter	1 Actuator seal kit for DCX3 standard valve	7070600	7070601	7070602		7070603	
	2 Actuator seal kit for DCX3 aseptic seat valve	7070536	7070537	7070538		7070539	
For details of kit B see following chapter	1 EPDM seal kit for DCX3 standard valve	7070612	7070613	7070614		7070615	
	2 FKM FP75 seal kit for DCX3 standard valve	7070616	7070617	7070618		7070619	
	3 FKM P113 seal kit for DCX3 standard valve	7072054	7072055	7072056		7072057	
	4 VQM seal kit for DCX3 standard valve	7070620	7070621	7070622		7070623	
	5 HNBR seal kit for DCX3 standard valve	7072173	7072174	7072175		7072176	
For details of kit C see following chapter	1 EPDM seal kit for DCX3 elastomer seal valve	7070566	7070567	7070568	7071004	7070569	7070570
	2 FKM FP75 seal kit for DCX3 elastomer seal valve	7070571	7070572	7070573	7071005	7070574	7070575
	3 FKM P113 seal kit for DCX3 elastomer seal valve	7072045	7072046	7072047	7072088	7072048	7072049
	4 VMQ seal kit for DCX3 elastomer seal valve	7070576	7070577	7070578	7071006	7070579	7070580
	5 HNBR seal kit for DCX3 elastomer seal valve	7072265	7072266	7072267	7072268	7072269	7072270
For details of kit D see following chapter	1 Diaphragm/EPDM seal Kit for DCX3 diaphragm valve	7071022	7071023	7071024	7071025	7071026	
	2 Diaphragm/FKM FP75 seal kit for DCX3 diaphragm valve		7071028	7071029	7071030		
	3 Diaphragm/FKM P113 seal kit for DCX3 diaphragm valve	7071027	7072293	7072294	7072295	7071031	
	4 Diaphragm/VMQ seal kit for DCX3 diaphragm valve	7071032	7071033	7071034	7071035	7071036	
	5 Diaphragm/HNBR seal kit for DCX3 diaphragm valve	7072309	7072310	7072311	7072312	7072313	
For details of kit E see following chapter	1 EPDM seal kit for DCX3 aseptic seat valve	7071052	7071053	7071054	7071055	7071056	
	2 FKM FP75 seal kit for DCX3 aseptic seat valve	7071057	7071058	7071059	7071060		
	3 FKM P113 seal kit for DCX3 aseptic seat valve	7072300	7072301	7072302	7072303	7071061	
	4 VMQ seal kit for DCX3 aseptic seat valve	7071062	7071063	7071064	7071065	7071066	
	5 HNBR seal kit for DCX3 aseptic seat valve	7072320	7072321	7072322	7072323	7072324	
For details of kit F see following chapter	1 Diaphragm/EPDM seal kit for DCX3 elastomer diaphragm valve	7071037	7071038	7071039	7071040	7071069	7071041
	2 Diaphragm/FKM FP75 seal kit for DCX3 elastomer diaphragm valve		7071043	7071044	7071045		7071046
	3 Diaphragm/FKM P113 seal kit for DCX3 elastomer diaphragm valve	7071042	7072296	7072297	7072298	7071070	7072299
	4 Diaphragm/VMQ seal kit for DCX3 elastomer diaphragm valve	7071047	7071048	7071049	7071050	7071071	7071051
	5 Diaphragm/HNBR seal kit for DCX3 elastomer diaphragm valve	7072314	7072315	7072316	7072317	7072318	7072319

For details of kit see following chapter	1	EPDM seal kit for DCX3 aseptic seat valve with elastomer plug	7071072	7071073	7071074	7071075	7071076	7071077
	2	FKM FP75 seal kit for DCX3 aseptic seat valve with elastomer plug	7071078	7071079	7071080	7071081		7071083
	3	FKM P113 seal kit for DCX3 aseptic seat valve with elastomer plug	7072304	7072305	7072306	7072307	7071082	7072308
	4	VMQ seal kit for DCX3 aseptic seat valve with elastomer plug	7071084	7071085	7071086	7071087	7071088	7071089
	5	HNBR seal kit for DCX3 aseptic seat valve with elastomer plug	7072325	7072326	7072327	7072328	7072329	7072330

9.9.1 DETAILS OF SEAL SETS FOR DCX3 REGULATING VALVES

NBR actuator seal sets for **DCX3** standard valves:

A1	Diameter		DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT.104-104 SMS 100 DIN
			DN25-40 DIN	DN50 DIN	DN65 DIN		DN4" US
			DN1"-1"1-2 US	DN2" US	DN3" US		
Kit No.:			7070600	7070601	7070602	7070603	
Guide	Part name	Qty	Seal reference				
26	Lantern and actuator body ring	2	7009993	7009972		7009973	
36	Lantern and actuator body O-ring NBR	2	7380808	7380152		7380802	
37	Lantern torque seal NBR	1	7380176	7380160	7006118	7006049	
38	Piston torque seal NBR	1	7380316	7380161	7006101	7006137	

FKM/EPDM actuator seal kits for **DCX3** aseptic seat valves :

A2	Diameter		DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT.104-104 SMS 100 DIN
			DN25-40 DIN	DN50 DIN	DN65 DIN		DN4" US
			DN1"-1"1-2 US	DN2" US	DN3" US		
Kit No.:			7070536	7070537	7070538	7070539	
Guide	Part name	Qty	Seal reference				
26	actuator body ring	1	7009993	7009972		7009973	
36E	Lantern O-ring EPDM (steam side)	1	7380137	7380179		7006160	
36F	Lantern and actuator body O-ring FKM	2	7006157	7380899		7380617	
37	Lantern O-ring FKM	1	7380178	7030412	7006259	7006260	
38	Piston O-ring FKM	1	7380601	7006186	7006284	7006418	
64	Aseptic lantern ring	1	7010655	7010656		7009973	

EPDM seal kits for DCX3 standard valve:

B1	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7070612	7070613	7070614	7070615		
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring <i>EPDM</i>	1	7380158	7380159	7006164	7006183	
25	Seal support plate O-ring <i>EPDM</i>	1	7380137	7380179		7006160	
26	Internal support plate ring	2	7009993	7009972		7009973	
27	Scraper seal	1	7006147	7006030		7006034	

FKM FP75 seal kits for DCX3 standard valve:

B2	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7070616	7070617	7070618	7070619		
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring <i>FKM FP75</i>	1	7010808	7010801	7010810	7381043	
25	Seal support plate O-ring <i>FKM FP74</i>	1	7010806	7380899		7010881	
26	Internal support plate ring	2	7009993	7009972		7009973	
27	Scraper seal	1	7006147	7006030		7006034	

FKM P113 seal kits for DCX3 standard valve:

B3	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7072054	7072055	7072056	7072057		
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring <i>FKM P113</i>	1	7380607	7006130	7006131	7006063	
25	Seal support plate O-ring <i>FKM P113</i>	1	7006157	7380620		7380617	
26	Internal support plate ring	2	7009993	7009972		7009973	
27	Scraper seal	1	7006147	7006030		7006034	

VMQ seal kits for DCX3 standard valve:

B4	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7070620	7070621	7070622	7070623		
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring <i>VMQ</i>	1	7006171	7006175	7006180	7006184	
25	Seal support plate O-ring <i>VMQ</i>	1	7006170	7006035		7006589	
26	Internal support plate ring	2	7009993	7009972		7009973	
27	Scraper seal	1	7006147	7006030		7006034	

HNBR seal kits for DCX3 standard valve:

B5	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS
		DN25-40 DIN	DN50 DIN	DN65 DIN			100 DIN
		DN1"-1"1-2 US	DN2" US	DN3" US			DN4" US
Kit No.:		7072173	7072174	7072175	7072176		
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring. HNBR	1	7381072	7006414	7191024	7381090	
25	Seal support plate O-ring. HNBR	1	7381076	7191035		7381092	
26	Internal support plate ring	2	7009993	7009972		7009973	
27	Scraper seal	1	7006147	7006030		7006034	

EPDM seal kits for DCX3 elastomer plug valve:

C1	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7070566	7070567	7070568	7071004	7070569	7070570
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring EPDM	1	7380158	7380159	7006164		7006183
24	Elastomer plug O-ring EPDM	1	7006174	7380158	7006193	7006002	7006008 7006162
25	Seal support plate O-ring EPDM	1	7380137	7380179			7006160
26	Internal support plate ring	2	7009993	7009972			7009973
27	Scraper seal	1	7006147	7006030			7006034

FKM FP75 seal kits for DCX3 elastomer plug valve:

C2	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7070571	7070572	7070573	7071005	7070574	7070575
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring FKM FP75	1	7010808	7010801	7010810		7381043
24	Elastomer plug O-ring FKM FP75	1	7380913	7010808	7380914	7380915	7381054 7010787
25	Seal support plate O-ring FKM FP75	1	7010806	7380899			7010881
26	Internal support plate ring	2	7009993	7009972			7009973
27	Scraper seal	1	7006147	7006030			7006034

FKM P113 seal kits for DCX3 elastomer plug valve:

C3	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7072045	7072046	7072047	7072088	7072048	7072049
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring FKM P113	1	7380607	7006130	7006131		7006063
24	Elastomer plug O-ring FKM P113	1	7006173	7380607	7380609	7380601	7380606 7006136
25	Seal support plate O-ring FKM P113	1	7006157	7380620			7380617
26	Internal support plate ring	2	7009993	7009972			7009973
27	Scraper seal	1	7006147	7006030			7006034

VMQ seal kits for DCX3 elastomer plug valve:

C4	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7070576	7070577	7070578	7071006	7070579	7070580
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring VMQ	1	7006171	7006175	7006180		7006184
24	Elastomer plug O-ring VMQ	1	7006172	7006171	7006057	7006181	7006083 7006198
25	Seal support plate O-ring VMQ	1	7006170	7006035			7006589
26	Internal support plate ring	2	7009993	7009972			7009973
27	Scraper seal	1	7006147	7006030			7006034

HNBR seal kits for DCX3 elastomer plug valve:

C5	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7072265	7072266	7072267	7072268	7072269	7072270
Guide	Part name	Qty	Seal reference				
20	Seal support plate O-ring. HNBR	1	7381072	7006414	7191024		7381090
24	Elastomer plug O-ring HNBR	1	7381075	7381072	7381074	7381073	7381107 7381099
25	Seal support plate O-ring. HNBR	1	7381076	7191035			7381092
26	Internal support plate ring	2	7009993	7009972			7009973
27	Scraper seal	1	7006147	7006030			7006034

Diaphragm/EPDM seal kits for DCX3 diaphragm valve:

D1	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7071022	7071023	7071024	7071025	7071026	
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector EPDM	1	7006145	7006038	7006235	7006008	
32	Diaphragm PTFE	1	7006691	7006692	7006693	7006694	
33	Spring washer	2	7007425	7007419		7007426	
34	Diaphragm seal support plate ring	1	7003558	7009962	7009988	7010166	

Diaphragm/FKM FP75 seal kits for DCX3 diaphragm valve:

D2	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:			7071028	7071029	7071030		
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector FKM FP75	1		7010880	7010801		
32	Diaphragm PTFE	1		7006692	7006693		
33	Spring washer	2		7007419			
34	Diaphragm seal support plate ring	1		7009962	7009988		

Diaphragm/FKM P113 seal kits for DCX3 diaphragm valve:

D3	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7071027	7072293	7072294	7072295	7071031	
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector FKM P113	1	7380624	7006128	7006130	7380606	
32	Diaphragm PTFE	1	7006691	7006692	7006693	7006694	
33	Spring washer	2	7007425	7007419		7007426	
34	Diaphragm seal support plate ring	1	7003558	7009962	7009988	7010166	

Diaphragm/VMQ seal kits for DCX3 diaphragm valve:

D4	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7071032	7071033	7071034	7071035	7071036	
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector VMQ	1	7006204	7006036	7006152	7006226	
32	Diaphragm PTFE	1	7006691	7006692	7006693	7006694	
33	Spring washer	2	7007425	7007419		7007426	
34	Diaphragm seal support plate ring	1	7003558	7009962	7009988	7010166	

Diaphragm/HNBR seal kits for DCX3 diaphragm valve:

D5	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7072309	7072310	7072311	7072312	7072313	
Guide	Part name	Qty	Seal reference				
23	<i>O-ring for seal support plate with leak collector HNBR</i>	1	7381108	7381078	7006414	7381107	
32	<i>Diaphragm PTFE</i>	1	7006691	7006692	7006693	7006694	
33	<i>Spring washer</i>	2	7007425	7007419		7007426	
34	<i>Diaphragm seal support plate ring</i>	1	7003558	7009962	7009988	7010166	

EPDM seal kits for DCX3 aseptic seat valve:

E1	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7071052	7071053	7071054	7071055	7071056	
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring <i>EPDM</i>	1	7006145	7006038		7006441	
20	Seal support plate O-ring <i>EPDM</i>	1	7380158	7380159	7006164		7006183
25	Seal support plate O-ring <i>EPDM</i>	1	7380137	7380179			7006160
26	Internal support plate ring	1	7009993	7009972			7009973

FKM FP75 seal kits for DCX3 aseptic seat valve:

E2	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7071057	7071058	7071059	7071060		
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring <i>EPDM</i>	1	7006145	7006038			
20	Seal support plate O-ring <i>FKM FP75</i>	1	7010808	7010801	7010810		
25	Seal support plate O-ring <i>FKM FP75</i>	1	7010806	7380899			
26	Internal support plate ring	1	7009993	7009972			

FKM P113 seal kits for DCX3 aseptic seat valve:

E3	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7072300	7072301	7072302	7072303	7071061	
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring <i>EPDM</i>	1	7006145	7006038			7006441
20	Seal support plate O-ring <i>FKM P113</i>	1	7380607	7006130	7006131		7006063
25	Seal support plate O-ring <i>FKM P113</i>	1	7006157	7380620			7380617
26	Internal support plate ring	1	7009993	7009972			7009973

VMQ seal kits for DCX3 aseptic seat valve:

E4	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7071062	7071063	7071064	7071065	7071066	
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring <i>EPDM</i>	1	7006145	7006038			7006441
20	Seal support plate O-ring <i>VMQ</i>	1	7006171	7006175	7006180		7006184
25	Seal support plate O-ring <i>VMQ</i>	1	7380137	7380179			7006160
26	Internal support plate ring	1	7009993	7009972			7009973

HNBR seal kits for DCX3 aseptic seat valve:

E5	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7072320	7072321	7072322	7072323	7072324	
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring EPDM	1	7006145	7006038		7006441	
20	Seal support plate O-ring. HNBR	1	7381072	7006414	7191024		7381090
25	Seal support plate O-ring HNBR	1	7381076	7191035		7381092	
26	Internal support plate ring	1	7009993	7009972		7009973	

EPDM seal kits for DCX3 diaphragm valve with elastomer plug:

F1	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7071037	7071038	7071039	7071040	7071069	7071041
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector EPDM	1	7006145	7006038	7006235		7006008
24	DCX3/4 plug O-ring EPDM	1	7006174	7380158	7006193	7006002	7006008 7006162
32	Diaphragm PTFE	1	7006691	7006692	7006693		7006694
33	Spring washer	2	7007425	7007419			7007426
34	Diaphragm seal support plate ring	1	7003558	7009962	7009988		7010166

FKM FP75 seal kits for DCX3 diaphragm valve with elastomer plug:

F2	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:			7071043	7071044	7071045		7071046
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector FKM FP75	1		7010880	7010801		7381054
24	DCX3/4 plug O-ring FKM FP75	1		7010808	7380914	7380915	7010787
32	Diaphragm PTFE	1		7006692	7006693		7006694
33	Spring washer	2		7007419			7007426
34	Diaphragm seal support plate ring	1		7009962	7009988		7010166

FKM P113 seal kits for DCX3 diaphragm valve with elastomer plug:

F3	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7071042	7072296	7072297	7072298	7071070	7072299
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector FKM P113	1	7380624	7006128	7006130		7380606
24	DCX3/4 plug O-ring FKM P113	1	7006173	7380607	7380609	7380601	7380606 7006136
32	Diaphragm PTFE	1	7006691	7006692	7006693		7006694
33	Spring washer	2	7007425	7007419			7007426
34	Diaphragm seal support plate ring	1	7003558	7009962	7009988		7010166

VMQ seal kits for DCX3 diaphragm valve with elastomer plug:

F4	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7071047	7071048	7071049	7071050	7071071	7071051
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector VMQ	1	7006204	7006036	7006152		7006226
24	DCX3/4 plug O-ring VMQ	1	7006172	7006171	7006057	7006181	7006083 7006198
32	Diaphragm PTFE	1	7006691	7006692	7006693		7006694
33	Spring washer	2	7007425	7007419			7007426
34	Diaphragm seal support plate ring	1	7003558	7009962	7009988		7010166

HNBR seal kits for DCX3 diaphragm valve with elastomer plug:

F5	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1-2 US	DN2" US	DN3" US			
Kit No.:		7072314	7072315	7072316	7072317	7072318	7072319
Guide	Part name	Qty	Seal reference				
23	O-ring for seal support plate with leak collector HNBR	1	7381108	7381078	7006414		7381107
24	DCX3/4 plug O-ring HNBR	1	7381075	7381072	7381074	7381073	7381107 7381099
32	Diaphragm PTFE	1	7006691	7006692	7006693		7006694
33	Spring washer	2	7007425	7007419		7007426	
34	Diaphragm seal support plate ring	1	7003558	7009962	7009988		7010166

EPDM seal kits for DCX3 aseptic seat valves with elastomer plugs:

G1	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7071072	7071073	7071074	7071075	7071076	7071077
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring <i>EPDM</i>	1	7006145	7006038		7006441	
20	Seal support plate O-ring <i>EPDM</i>	1	7380158	7380159	7006164		7006183
24	Elastomer plug O-ring <i>EPDM</i>	1	7006174	7380158	7006193	7006002	7006008 7006162
25	Seal support plate O-ring <i>EPDM</i>	1	7380137	7380179			7006160
26	Internal support plate ring	1	7009993	7009972		7009973	

FKM FP75 seal kits for DCX3 aseptic seat valves with elastomer plugs:

G2	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7071078	7071079	7071080	7071081		7071083
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring <i>EPDM</i>	1	7006145	7006038			7006441
20	Seal support plate O-ring <i>FKM FP75</i>	1	7010808	7010801	7010810		7381043
24	Elastomer plug O-ring <i>FKM FP75</i>	1	7380913	7010808	7380914	7380915	7010787
25	Seal support plate O-ring <i>FKM FP75</i>	1	7010806	7380899			7010881
26	Internal support plate ring	1	7009993	7009972			7009973

FKM P113 seal kits for DCX3 aseptic seat valves with elastomer plugs:

G3	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7072304	7072305	7072306	7072307	7071082	7072308
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring <i>EPDM</i>	1	7006145	7006038		7006441	
20	Seal support plate O-ring <i>FKM P113</i>	1	7380607	7006130	7006131		7006063
24	Elastomer plug O-ring <i>FKM P113</i>	1	7006173	7380607	7380609	7380601	7380606 7006136
25	Seal support plate O-ring <i>FKM P113</i>	1	7006157	7380620			7380617
26	Internal support plate ring	1	7009993	7009972		7009973	



VMQ seal kits for DCX3 aseptic seat valves with elastomer plugs:

G4	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1"-1"1/2 US	DN2" US	DN3" US			
Kit No.:		7071084	7071085	7071086	7071087	7071088	7071089
Guide	Part name	Qty	Seal reference				
15	Seal support plate O-ring <i>EPDM</i>	1	7006145	7006038	7006038		7006441
20	Seal support plate O-ring <i>VMQ</i>	1	7006171	7006175	7006180		7006184
24	Elastomer plug O-ring <i>VMQ</i>	1	7006172	7006171	7006057	7006181	7006083 7006198
25	Seal support plate O-ring <i>VMQ</i>	1	7006170	7006035			7006589
26	Internal support plate ring	1	7009993	7009972		7009973	

HNBR seal kits for **DCX3 aseptic seat valves** with **elastomer** plugs:

G5	Diameter	DN25-38 SMS	DN51 SMS	DN63-76 SMS	DN80 DIN	DN80 ACT. 104	104 SMS 100 DIN
		DN25-40 DIN	DN50 DIN	DN65 DIN			DN4" US
		DN1" - 1"1/4 - 2 US	DN2" US	DN3" US			
Kit No.:		7072325	7072326	7072327	7072328	7072329	7072330
Guide	Part name	Qty	Référence des joints				
15	Seal support plate O-ring EPDM	1	7006145	7006038	7006038		7006441
20	Seal support plate O-ring HNBR	1	7381072	7006414	7191024		7381090
24	Elastomer plug O-ring HNBR	1	7381075	7381072	7381074	7381073	7381107 7381099
25	Seal support plate O-ring HNBR	1	7381076	7191035			7381092
26	Internal support plate ring	1	7009993	7009972			7009973

9.10 Reference of greases

	Ref.	Designation	
Grease for actuator seals	7010662	grease cartridge 400 g (4025 H1 QUINPLEX)	
Grease for valve seals	7030668	grease cartridge 500 g (Kluber Paraliq GTE 703, NFS H1, 21 CRF § 178.3570)	

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