EXNER PROCESS EQUIPMENT

EXmatic 450

Control unit
Technical Information

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1 Product description

1.1 Controlunit EXmatic 450

EXmatic 450 is a pneumatic control unit for retractable holder, such as EXtract. The control unit is to drive the holder from position "maintenance" "into the "measuring" position and back again. The reached position is acknowledged over pneumatic lamps. Manual pneumatic buttoms are integrated to control different rinsing solutions.

1.2 Process integration

The control unit EXMATIC 450 is supplied compressed air 4-6 bar. The connection of the interchangeable fitting and the cleaning and drain valves is realized by pneumatic hoses which are gathered in a multi hose.

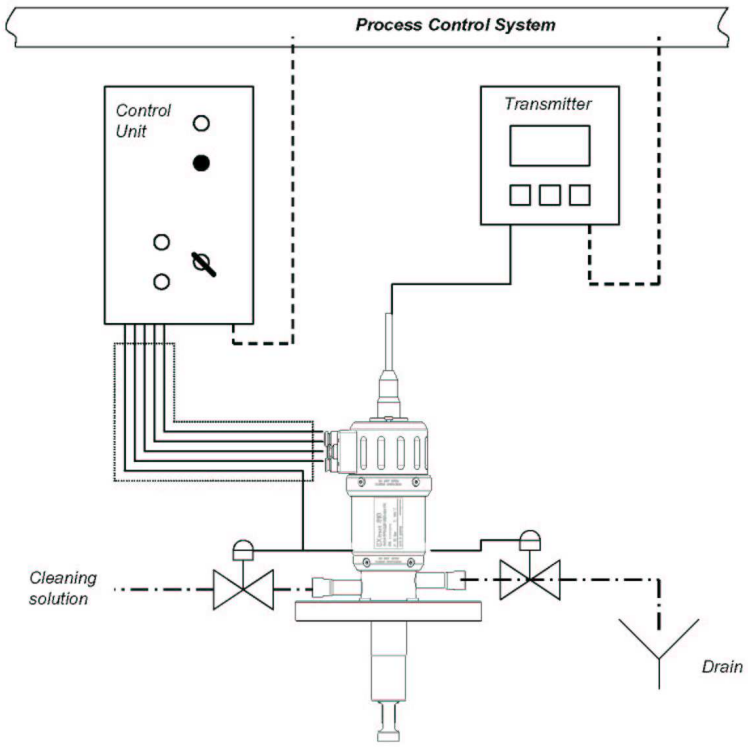


Figure 3: Process sequence

2 Installation

Connect the air supply on the bottom side of the control unit.

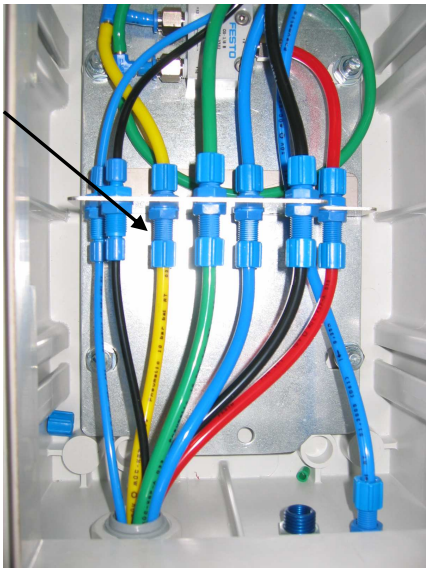
use

- pneumatic tube ∅ = 6mm.
- filtered (40 µm), water-free and deoiled compressed air only

Connect the multi hose on the bottom side of the control unit

Inside the box, connect the tubes as follows:

∅ = 6mm blue = ∅ 6mm blue
∅ = 6mm black = ∅ 6mm black
∅ = 6mm red = ∅ 6mm red
∅ = 6mm green = ∅ 6mm green
∅ = 6mm yellow = ∅ 6mm yellow
∅ = 4mm blue = ∅ 4mm blue
∅ = 4mm black = ∅ 4mm black



Connect the tubes to the holder / valves as follows:

to holder

tube ∅ = 6mm black in connection 1 (black) for air supply measuring.

tube ∅ = 4mm black in connection 3 (black) for the reply signal "measuring".

tube ∅ = 6mm blue in connection 2 (blue) for the air supply service

tube ∅ = 4mm blue in connection 4 (blue) for the reply signal "service"

to valves

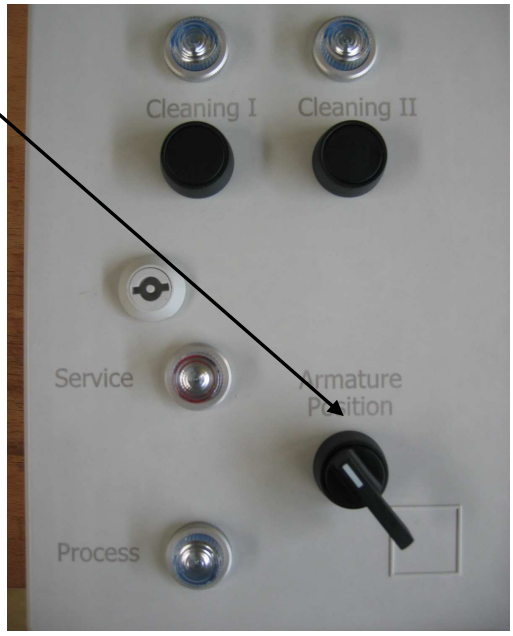
tube ∅ = 6mm red to the drain valve

tube ∅ = 6mm yellow to cleaning valve 1

tube ∅ = 6mm green to cleaning valve 2

3 Function

To drive the holder from position service to process and back again, turn the black switch "Armature Position".
You will get a feedback of the position on the pneumatic lamps.



To start a cleaning, push button "Cleaning I" for the first cleaning solution and button "Cleaning II" for a second cleaning solution.
he cleaning runs as long as you push the button.

The feedback signal indicates that the cleaning is running.

4 Technical data

4.1 Order structure EXmatic 450

EXmatic 450	Pneumatic Control Unit for Retractables

Code	Housing
GF	Plastic housing
SS	Stainless steel housing
XX	special

Code	Cleaning
1	for one cleaning solution
2	for two cleaning solutions
X	special

Code	Drain port
0	without
1	with port for drain valve

Code	Connecting hose
00	without
03	3m length
05	5m length
10	10m length
XX	special

Code	Fastener
00	without
EX	Fastening angle EXtract
RE	Fastening angle RETRACTEX
IT	Fastening angle InTrac 7XX
XX	special

EXmatic 450 - - - - < Ordercode Pric

Accessories and Spareparts

Part No.	Description
2-083-70-001	Wall Mounting Set (for plastic housing)
2-083-70-002	Wall Mounting Set (for stainless steel housing)
2-083-70-003	Post Mounting Set (for plastic and stainless steel)
2-095-70-001	Membrane-valve PVDF/FPM (single) G3/8"; Air Ø6; DN12 PN6 NC for Cleaning solution or drain
2-095-70-002	**Cleaning valve set** PVDF/FPM with 2 membrane-valves for **one cleaning solution** and one drain; connectors, PTFE-tubing and mounting brackets included
2-095-70-003	**Cleaning valve set** PVDF/FPM with 3 membrane-valves for **two cleaning solutions** and one drain; connectors, PTFE-tubing and mounting brackets included

4.2 Material

Materials			
Control cabinet			
Casing	glass-reinforced plastic		
	stainless steel	option	

4.3 Ambient conditions

Temperature	
Ambient temperature	0…+55°C
Transport and storage temperature	-10…+60°C

Ambient	
Relative humidity	10…95 % not condensing

Type of protection	
Casing	IP 54

4.4 Pneumatics

Pneumatic hoses		
	outer ∅	**inner ∅**
for control air	6 mm	4 mm
for position indication	4 mm	2 mm

Compressed air	
	- filtered 40µm, water and oil-free - 4 - 6 bar - no permanent air consumption!