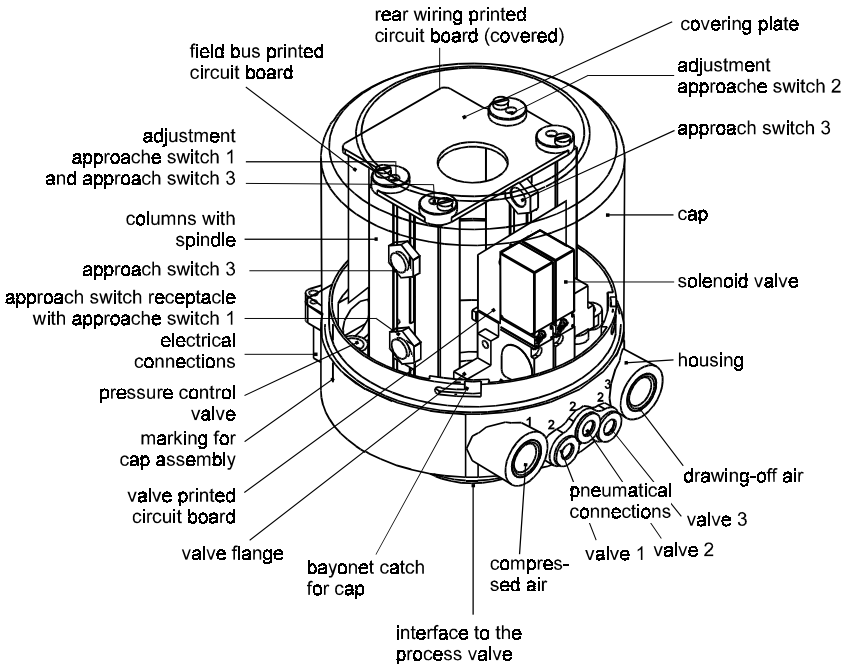
Control head for process valves

Technical Data

Note the data on the rating plate!

Ambient temperature	-10 up to +50°C
Medium	compressed air, unoiled, neutral gases
Media temperatures	-10 up to +50 °C
Pressure range	2,5 up to 7 bar
Supply voltage	
Solenoid valve	24 V DC
Approach switches	8 up to 30 V DC
Voltage tolerance	±10 %
Degree of protection	IP 67
material of body	PPE/PA
material of cap	PSU

ASI-connection	
ASI-profile	S7.F (none)
Input/output configuration	7Hex
ID-Code	FHex
D0...D3 (inputs)	Inputs I1...I4
D0..D3 (outputs)	Outputs O1...O4
Reverse protection	Yes
Readiness delay	< 1 ms
Operating voltage (ASI)	26,5 bis 31,6 V
Total current consumption	≤ 240 mA
Time constant Watchdog	≥ 40 ms



Intended use

To ensure a perfect function, the user must note this Assembly and Operating Instructions and observe the relevant conditions for use and the allowed data according to the Data Sheet. The planning for use and the operating of the device must be made in compliance with the general rules of the art.

Accidental actuations or unallowed impairments have to be avoided by appropriate means. The adjustment of the cycle stroke at double seat process valves with integrated ventilation has to be made with removed control head.

Assembly

- Installation as required, preferably vertical with cap upwards.
- Fix the flange onto the process valve.
- Turn the cap to the left up to the stop and remove it from the control head.
- Put the control head onto the flange and secure it by means of two screws.
- Make the electrical connection via a 8-pole circular connector according to DIN 45326.
  Multipol: 8-pole connecting cable Ø 4-6 mm
  ASI-Bus: unshielded connecting cable 2 x 1,5 mm²

Terminal assignement

(I... Approach switch (1 up to 3), V... Valve (1 up to 3),
U_I...Voltage supply of the approach switches)

PIN	Multipol	ASI
1	V 2	
2	U_I	
3	S 2	ASI -
4	V 1	
5	S 1	ASI +
6	V 3	
7	S 3	
8	GND	

Hint for ASI connection

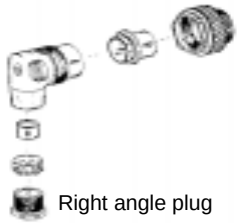
Do not connect approach switches to external potential or earth conductor.

Outputs protected against short-circuit.

In the case of communication failure the Watchdog de-energizes the outputs.

Hint to the assembly of the plug-type connectors

Coupling plug

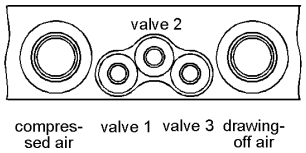


Right angle plug

- Adjustment of the approach switches.
  The height adjustment of the approach switches is made by the relevant spindles
  (see drawing) upward clockwise turning
  downward anticlockwise turning

- Pneumatic connections.

Compressed air connection	G ¼ (PN 2,5 up to 7 bar)
Working connections	threaded hose coupling 6/4, pluggable
Drawing-off air connection	G 1/4



Use **only** calibrates hoses with the diameter outside of 6 mm or 1/4“. Cut the hoses only with a spezific tool “**hose knife**”. Otherwise exist a risk of damage to hose.
For take off the control head choose a wide length of hoses.

Attention! Risk of damage!

Make the adjustment/setting of the cycle stroke in case of double seat process valves with integrated ventilation **only with removed** control head, risk for electronics´ damage.

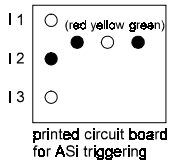
- Put on the cap (note marking) and turn it up to the stop clockwisely. If required, secure it with screw or lead seal.

Indication of state

LED is lighting	function
I1, I2 or I3	approach switch on

only in case of ASI-Bus

green	ASI-voltage applied
yellow	none
red	short-circuit of the output(s)



Maintenance/Repair

The control head will work without maintenance and trouble if it is appropriately used.

Cleaning outside

Test the **influence** of **of cleaner** bevor use on **body and cap**!
After contamination or use of acids or alkalines cleaner must neutralize with many clear water. Clean and empty specific the bores and holes.

Bürkert
Steuer- und Regeltechnik
Christian-Bürkert-Str. 13-17
74651 Ingelfingen
Tel. (07940) 10-0
Fax (07940) 10-204

Bürkert
DLZ Dresden
Tel. (035952) 36-300
Fax (035952) 36-551

Type 1066

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