

CHAPTER 9 CONTROL TOPS

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CONTACT-FREE INDUCTIVE VALVE POSITION MEASURING (TEACH FUNCTION)

- / status display luminated in colour
- / integrated control air supply to the actuator
- / field bus port AS-interface, DeviceNet, IO-Link or Bürkert system bus (büS)
- / with ATEX-option: II 3 G Ex ec IIC T4 Gc X
- II 3 D Ex tc IIIC T135°C Dc X

INNOVATION
& TECHNOLOGY

AVAILABLE MODELS FOR THE FLOWSTAR CONTROL TOP

e.g.: **RT-24-0-0-Ex-T4**

| Connection variants | cable length | solenoid valve | Compliances* | Special model* |
|----------------------------------|--|---|--|--|
| 24 24 V DC | 0 cable gland M16 x 1,5 (without cable) | 0 without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch | Ex Atex | T4 with 4 position indications (N4) |
| AS AS-I Bus | 15 15 cm cable | 1 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch | UL UL certified | |
| IO IO-Link (Port Class A) | 80 80 cm cable | 2 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch | Ex-UL Atex + UL | |
| IP Ethernet IP | | 3 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch | 0 without Atex in case of special model | |

*the last two fields to be left empty if not applicable. **Please note:** special model T4 without compliances; field for compliance with indicator "0"

FLOWSTAR



Rieger Control Top FlowStar

This new control top has been developed between AWH and Rieger in collaboration with Bürkert. It serves as a custom-fit solution for our in-house hygienic and aseptic process valves to achieve an even more efficient and precise application.

The well-established contact-free position measuring with three proximity switches (Teach-In function) has also been implemented here.

FlowStar is available in the models 24 V DC, AS-I bus, IO-Link (Port Class A) or Ethernet IP.

CONSTRUCTION

- / with integrated adaptor
- / adaptable for all valve types
- / convertible for valves with Bürkert 8681 control tops
- / Cap can be shut with a seal

SERVICEABILITY

- / more process information available and even faster data readout for service technicians with the IO-Link model
- / IO-Link and Ethernet IP offer ideal circumstances for predictive maintenance
- / possible remote diagnosis or maintenance

EFFICIENCY

- / faster and cost-effective setup using the IO-Link model
- / digitalization of your plant to reduce cost of expensive analogue components

OPERATING SAFETY

- / high system availability utilizing continuous industrial communication



In case of any questions or for a product presentation on your premises please contact our sales team. Simply scan the QR code and you will be forwarded to our contact form.



Rieger Control Top FlowStar, 24 V DC

for pneumatic valves

| Reference Number | Model with cable gland M16 x 1,5 (without cable) | kg | Price |
|------------------|--|-----|------------|
| RT-24-0-0 | without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves only position indication | 0,9 | on request |
| RT-24-0-1 | 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator NC or NO | 0,9 | on request |
| RT-24-0-2 | 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator air/air | 0,9 | on request |
| RT-24-0-3 | 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for mix proof valves | 0,9 | on request |

| Reference Number | Model with 15 cm cable with multi-pole connection (M12 plug according to IEC 61076-2-101, 12-pole) | kg | Price |
|------------------|--|-----|------------|
| RT-24-15-0 | without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves only position indication | 0,9 | on request |
| RT-24-15-1 | 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator NC or NO | 0,9 | on request |
| RT-24-15-2 | 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator air/air | 0,9 | on request |
| RT-24-15-3 | 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for mix proof valves | 0,9 | on request |

/ For more detailed descriptions: see Bürkert operating instructions.
 / Mounting kit integrated in Control Top – no separate mounting kit necessary.
 Exception for LCV valves, ESV valves <DN 25/1" and N13
 / not discountable

Rieger Control Top FlowStar, IO-Link (Port Class A)

for pneumatic valves

| Reference Number | Model with cable gland M16 x 1,5 (without cable) | kg | Price |
|------------------|--|-----|------------|
| RT-IO-0-0 | without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves only position indication | 0,9 | on request |
| RT-IO-0-1 | 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator NC or NO | 0,9 | on request |
| RT-IO-0-2 | 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator air/air | 0,9 | on request |
| RT-IO-0-3 | 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for mix proof valves | 0,9 | on request |

| Reference Number | Model with 15 cm cable glands and multi-pole connection (M12 connection in accordance with IEC 61076-2-101, 4-pole (port class A)) | kg | Price |
|------------------|--|-----|------------|
| RT-IO-15-0 | without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves only position indication | 0,9 | on request |
| RT-IO-15-1 | 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator NC or NO | 0,9 | on request |
| RT-IO-15-2 | 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator air/air | 0,9 | on request |
| RT-IO-15-3 | 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for mix proof valves | 0,9 | on request |

/ For more detailed descriptions: see Bürkert operating instructions.
 / Mounting kit integrated in Control Top – no separate mounting kit necessary.
 Exception for LCV valves, ESV valves <DN 25/1" and N13
 / not discountable

Rieger Control Top FlowStar, AS-I Bus

for pneumatic valves

| Reference Number | Model with 15 cm cable with multi-pole connection (M12 plug according to IEC 61076-2-101, 4-pole) | kg | Price |
|------------------|--|-----|------------|
| RT-AS-15-0 | without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves only position indication | 0,9 | on request |
| RT-AS-15-1 | 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator NC or NO | 0,9 | on request |
| RT-AS-15-2 | 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator air/air | 0,9 | on request |
| RT-AS-15-3 | 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for mix proof valves | 0,9 | on request |

| Reference Number | Model with 80 cm cable with multi-pole connection (M12 plug according to IEC 61076-2-101, 4-pole) | kg | Price |
|------------------|--|-----|------------|
| RT-AS-80-0 | without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves only position indication | 0,9 | on request |
| RT-AS-80-1 | 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator NC or NO | 0,9 | on request |
| RT-AS-80-2 | 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for single seat valves with actuator air/air | 0,9 | on request |
| RT-AS-80-3 | 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, e.g. for mix proof valves | 0,9 | on request |

/ For more detailed descriptions: see Bürkert operating instructions.
 / Mounting kit integrated in Control Top – no separate mounting kit necessary.
 Exception for LCV valves, ESV valves <DN 25/1" and N13
 / not discountable

Rieger Control Top FlowStar, Ethernet IP

for pneumatic valves

| Reference Number | Model with cable gland M16 x 1,5 (without cable) | kg | Price |
|------------------|---|-----|------------|
| RT-IP-0-0 | without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, Ethernet IP, cable gland M16 x 1,5 (without cable) e.g. for single seat valves only position indication | 0,9 | on request |
| RT-IP-0-1 | 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, Ethernet IP, cable gland M16 x 1,5 (without cable) e.g. for single seat valves with actuator NC or NO | 0,9 | on request |
| RT-IP-0-2 | 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, Ethernet IP, cable gland M16 x 1,5 (without cable) e.g. for single seat valves with actuator air/air | 0,9 | on request |
| RT-IP-0-3 | 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, Ethernet IP, cable gland M16 x 1,5 (without cable) e.g. for mix proof valves | 0,9 | on request |

| Reference Number | Model with 80 cm cable with cable gland and multi-pole connection (M12 plug according to IEC 61076-2-101, 5-pole) | kg | Price |
|------------------|---|-----|------------|
| RT-IP-80-0 | without solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, Ethernet IP, 80 cm cable e.g. for single seat valves only position indication | 0,9 | on request |
| RT-IP-80-1 | 1 solenoid valve, 3 internal proximity switches + 1 outlet for external proximity switch, Ethernet IP, 80 cm cable e.g. for single seat valves with actuator NC or NO | 0,9 | on request |
| RT-IP-80-2 | 2 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, Ethernet IP, 80 cm cable e.g. for single seat valves with actuator air/air | 0,9 | on request |
| RT-IP-80-3 | 3 solenoid valves, 3 internal proximity switches + 1 outlet for external proximity switch, Ethernet IP, 80 cm cable e.g. for mix proof valves | 0,9 | on request |

/ For more detailed descriptions: see Bürkert operating instructions.
 / Mounting kit integrated in Control Top – no separate mounting kit necessary.
 Exception for LCV valves, ESV valves <DN 25/1" and N13
 / not discountable

Adapter-Kits for LCV Valves

for Control Top FlowStar

| DN DIN/Inch | Reference Number | Valve Type | kg | Price |
|-----------------------------|------------------|------------|----|------------|
| DN 25 DIN / 1" | RT-AD-020 | LCV valves | <1 | on request |
| DN 40 – 50 DIN / 1,5" – 2" | RT-AD-021 | LCV valves | <1 | on request |
| DN 65 – 100 DIN / 2,5" – 4" | RT-AD-022 | LCV valves | <1 | on request |

Gasket Kits for LCV Valves

for Control Top FlowStar

| DN DIN/Inch | Reference Number | Valve Type | kg | Price |
|----------------------------|------------------|------------|----|------------|
| DN 25 DIN / 1" | 50010104 | LCV valves | <1 | on request |
| DN 40 – 50 DIN / 1,5" – 2" | 50010104 | LCV valves | <1 | on request |

Adapter-Kit for ESV Valves

for Control Top FlowStar

| DN DIN/Inch | Reference Number | Valve Type | kg | Price |
|------------------------------|------------------|------------|----|------------|
| DN 10 – 20 DIN / 1/2" – 3/4" | RT-AD-001 | ESV valves | <1 | on request |

Adapter-Kit for N13

for Control Top FlowStar

| DN DIN/Inch | Reference Number | Valve Type | kg | Price |
|--------------------------|------------------|-------------------------------|----|------------|
| DN 40 DIN / 1 1/2" | on request | Mix Proof Valves N13 – Hybrid | <1 | on request |
| DN 50 – 80 DIN / 2" – 3" | RT-AD-012 | Mix Proof Valves N13 – Hybrid | <1 | on request |
| DN 100 DIN / 4" | on request | Mix Proof Valves N13 – Hybrid | <1 | on request |

Gasket Kits for N13

for Control Top FlowStar

| DN DIN/Inch | Reference Number | Valve Type | kg | Price |
|--------------------------|------------------|-------------------------------|----|------------|
| DN 40 DIN / 1 1/2" | on request | Mix Proof Valves N13 – Hybrid | <1 | on request |
| DN 50 – 80 DIN / 2" – 3" | 1002089 | Mix Proof Valves N13 – Hybrid | <1 | on request |
| DN 100 DIN / 4" | on request | Mix Proof Valves N13 – Hybrid | <1 | on request |



Control Top Type 8692 and 8694 (positioner)

Digital electro-pneumatic positioner for the integrated attachment to process regulating valves.

- / compact stainless steel design
- / with graphic display including background illumination (8694 without display)
- / very simple start-up directly at control top 8692 by display, 8694 by PLC
- / wide-ranging software functions
- / integrated control air leading into the actuator

Further details see website company Bürkert www.buerkert.com.

Control Top Type 8692 with display

for pneumatic control/regulating valves

| DN | Reference Number | Type | Description | mA/ASI | kg / lb | Price |
|-----------|------------------|----------|---|---------|---------|------------|
| DN 25-65 | 3008692-001 | 00306918 | single-acting, cable gland | 4-20 mA | 0,9 / 2 | on request |
| DN 25-65 | 3008692-007 | 00307030 | single-acting, multipole, plug-in connector | 4-20 mA | 0,9 / 2 | on request |
| DN 80-100 | 3008692-011 | 00307042 | single-acting, plug-in connector | 4-20 mA | 0,9 / 2 | on request |
| DN 80-100 | 3008692-014 | 00307043 | single-acting, multipole, plug-in connector | 4-20 mA | 0,9 / 2 | on request |

/ without mounting set – upon separate order
/ not discountable

Control Top Type 8694 without display (positioner)

for pneumatic control/regulating valves

| DN | Reference Number | Type | mA/ASI | kg / lb | Price |
|-----------|------------------|----------|---------|---------|------------|
| DN 25-65 | 3008694-001* | 00227417 | 4-20 mA | 0,9 / 2 | on request |
| DN 80-100 | 3008694-002* | 00227437 | 4-20 mA | 0,9 / 2 | on request |
| DN 25-65 | 3008694-003 | 00239611 | ASI | 0,9 / 2 | on request |
| DN 80-100 | 3008694-007 | 00239612 | ASI | 0,9 / 2 | on request |

* Type 00227417 and 00227437 are only available for a limited time.

/ without mounting set – upon separate order
/ not discountable

Mounting Sets

for Control Top Type 8692 and 8694

| DN | Reference Number | Valve Type | kg / lb | Price |
|--------------------------|------------------|--------------------|-----------|------------|
| DN10-DN20 DIN <1" | 5008692-001 | single seat valves | 1,1 / 2,4 | on request |
| DN25-DN40 DIN 1"-1 1/2" | 5008692-002 | single seat valves | 1,1 / 2,4 | on request |
| DN50 DIN 2" | 5008692-004 | single seat valves | 1,2 / 2,6 | on request |
| DN65-DN100 DIN 2 1/2"-4" | 5008692-003 | single seat valves | 1,2 / 2,6 | on request |

/ not discountable