

High-Pressure Cut-Off Valve



Type G PC S 032 K69 V01 / V02 / E-G035

- Function: 2/2 NC
- Medium: H_2
- Rated voltage: 12 VDC / 24 VDC
- Actuation current: 2.9 A / 1.4 A
- Holding current reduction to: 1.2 A / 1.6 A
- Duty cycle: 100 % ED with holding current reduction
- Rated working pressure (NWP): 700 bar
- Maximum pressure (MAWP): 1050 bar
- Nominal width main seat: 2.7 mm
- Nominal width pilot seat: 0.2 mm
- Kv: $> 0.19 \text{ m}^3/\text{h}$
- Leakage (internal/external): $1 \times 10^{-4} \text{ mbar l/s}$
- Ambient temperature: -40°C up to $+85^\circ\text{C}$
- Protection class: IP6K9K
- Service life: > 75.000 operations
- Testing according to EC79

Options on request:

- Various electrical plug connections
- ATEX version for stationary applications
- Customer-specific mechanical interface
- Version for natural gas
- Version with circuit breaker for overtemperature according to R134

Special features:

- Small size

Safety Shut-Off Valve



Type G PC S 040 K69 V03 / V22 / V28

- Function: 2/2 NC
- Medium: H_2 , N_2 , air
- Rated voltage: 12 VDC / 24 VDC
- Actuation current: $< 1.5 \text{ A}$ / $< 0.8 \text{ A}$
- Holding current reduction to: $< 0.8 \text{ A}$ / $< 0.4 \text{ A}$
- Duty cycle: 100 % ED with holding current reduction
- Rated working pressure (NWP): 16 bar
- Maximum pressure (MAWP): 25 bar
- Nominal width main seat: 8 mm / 12 mm
- Kv: $> 0.9 \text{ m}^3/\text{h}$ / $> 2.5 \text{ m}^3/\text{h}$
- Nominal width pilot seat: 1.2 mm
- Leakage (internal/external): $1 \times 10^{-4} \text{ mbar l/s}$
- Ambient temperature: -40°C up to $+85^\circ\text{C}$
- Protection class: IP6K9K
- Service life: > 50.000 operations
- Testing according to EC79

Options on request:

- Various electrical plug connections
- ATEX version for stationary applications
- Customer-specific mechanical interface
- Version for natural gas

Special features:

- Two-step opening to avoid pressure shocks
- Seal seat optimized for cryogenic temperature

Flow Control Valve



Type G PC P 040 K69 V03 / V04 V24 / V27

- Function: prop. flow control 2/2 NC
- Medium: H_2
- Rated voltage: 12 VDC / 24 VDC
- Limit current: 1.6 A / 0.8 A
- Duty cycle: 100 % ED
- Nominal width: 2.8 mm / 3.3 mm
- Rated working pressure (NWP): 16 bar
- Maximum pressure (MAWP): 25 bar / 20 bar
- Kv: $> 0.23 \text{ m}^3/\text{h}$ / $0.32 \text{ m}^3/\text{h}$
- Leakage (internal/external): $1 \times 10^{-4} \text{ mbar l/s}$
- Linearity: $< 10\% \text{ F.S.}$
- Hysteresis: $< 15\% \text{ F.S. @ } 350\text{Hz PWM}$
- Ambient temperature: -40°C up to $+125^\circ\text{C}$ / 100°C
- Protection class: IP6K9K
- Service life: $> 3 \text{ Mio. switching cycles}$, $> 25 \text{ Mio. control procedures}$

Options on request:

- Component groups with valves and sensors
- Various electrical plug connections
- Other control pressure ranges
- ATEX version for stationary applications
- Customer-specific mechanical interface
- Version for natural gas

Special features:

- High control quality

Purge / Drain Valve



Type G PC S 028 K69 V...

- Function: 2/2 NC
- Medium: H₂O, coolant, H₂, air, neutral gases
- Rated voltage: 12 VDC / 24 VDC
- Max. actuation current: 2.9 A / 1.3 A
- Holding current reduction to: 0.4 A / 0.2 A
- Duty cycle: 100 % ED with holding current reduction
- Rated operating pressure (NWP): 3 bara
- Kv: 0.024 m³/h up to 0.26 m³/h
- Nominal widths: 0,8 mm up to 3mm
- Leakage (internal/ external): < 1x10⁻³ mbar l/s
- Ambient temperature: -40°C up to + 85°C
- Protection class: IP6K9K
- Service life: > 24 Mio. operations

Options on request:

- Components with valves and sensors (water separator)
- Various plug connections
- Version for customer-supplied heating element

Special features:

- Media separation



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