

Proportional Pressure Control Valves

HOERBIGER-ORIGA proportional pressure control valves satisfy the most diverse demands for fast response, high precision and flow rates. The large performance spectrum enables innumerable and wide-ranging application opportunities.

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The proportional pressure regulator with piezo control is distinguished by

- Precise control
- High dynamic response
- Long service life
- Low power consumption
- Extremely compact
- Easy to install
- Choice of voltage and current control
- Also available as an OEM version (without integrated electronics controls)

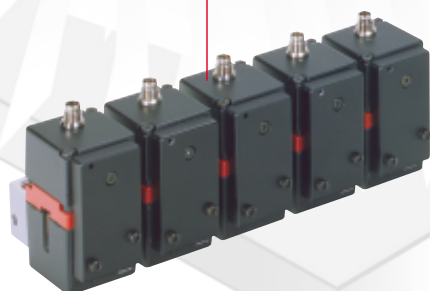
Applications

- Pneumatic brakes
- Tension control
- Ultrasonic welding
- Vacuum generation
- Metering technology
- Respiration devices
- Robotic welding and spraying

Technical data

- Port size G1/8
- Sensitivity < 0.1 %
- Reaction time < 7 ms
- Limiting frequency 43 Hz
- Power consumption 0.25 W max.
- Weight (mass) 0.18 kg
- Max. flow 350 l/min
- Pressure ranges
 - 0 - 8 bar
 - 0 - 2 bar
 - 0 - 200 mbar

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Manifold mounted assembly



MRE, SRE and CRE

The proportional pressure control valves with poppet valve control offer particular advantages

- No permanent air consumption
- Precise control
- High dynamic response
- Very good connection flexibility (electrical and pneumatic)
- Large flow rates in both directions
- Long service life

Applications

- Welding robots
- Erosion machines
- Automated nut-runners
- Testing and measuring technology for liquids and gases
- Grinding and polishing systems

Technical data

- Port size
 - MRE: M5
 - SRE: G1/4, G3/8
 - CRE: G3/8, G1/2
- Max. flow
 - MRE: 10 l/min
 - SRE: 2,500 l/min
 - CRE: 7,800 l/min
- Type of protection, IP 65
- Sensitivity < 0,5 %
- Pressure range (p₁)
 - MRE: 0 -10 bar
 - SRE: 0 - 10 bar
 - CRE: 0 - 16 bar
- Actual value output standard
- Allocation 1V = 1 bar

Airfit Modular design

– the modular design used in SRE and CRE for the airfit swing and airfit comfort series, facilitates the universal combination with other compressed air preparation devices.



SRT and CRT

Proportional pressure control valves with piezo pilot and a piston type pneumatic amplifier

- For extremely fast response to pressure changes
- Long service life
- Low power consumption (0.25 W)

Applications

- Welding robots
- Painting technology

Technical data

- Port size
SRT: G1/4
CRT: G1/2
- Weight (mass)
SRT: 0.8 kg
CRT: 1.15 kg
- Max. flow
SRT: 2,200 l/min
CRT: 6,000 l/min
- Pressure range 0 – 8 bar
- Sensitivity < 2 %
- Reaction time < 15 ms

Series SRT, CRT

Series SRE, CRE

Series airfit tecno

