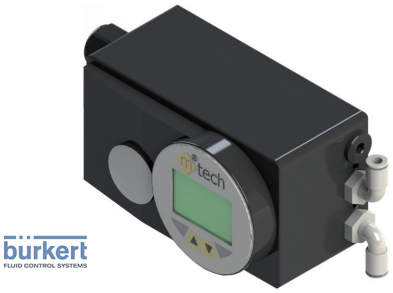
8792 Positioner

Digital electropneumatic positioner



- Compact and robust design
- Easy to start using tune function
- Dynamic positioning system with no air consumption in controlled state
- Optimized for high-pressure proportional valves of the MPG and HPG series
- Version for quarter turn actuators (NAMUR) available

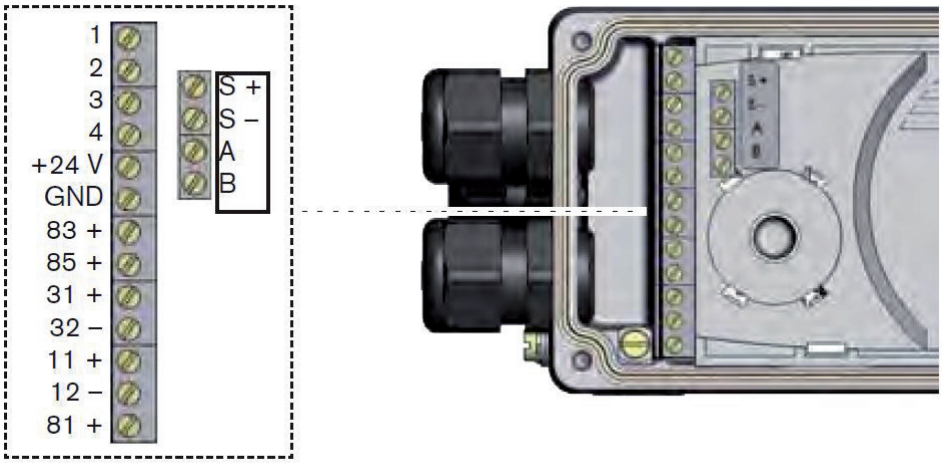
The robust and compact Bürkert positioner has been tailored for m-tech proportional valves with a remote stroke sensor. Operation is done via the external operation and display module with a backlit graphical display.

Technical data

Material body	Aluminium plastic-coated
Operating voltages	24 V DC +/- 10 %
Residual ripple	max. 10 %
Setpoint setting	0/4 bis 20 mA and 0 bis 5/10 V
Input resistance	0/4 bis 20 mA: 180 Ω 0 bis 5/10 V: 19 kΩ
Analogue feedback	4-20 mA, 0-20 mA 0-10 V, 0-5 V
Binary input	Galvanically isolated, 0-5 V = log „0”, 10-30 V = log „1“
Pilot media	Neutral gases, air DIN ISO 8573-1
Dust concentration	Class 7 (<40 µm particle size)
Particle density	Class 5 (<10 mg/m³)
Pressure condensation point	Class 3 (<-20 °C)
Oil concentration	Class X (<25 mg/m³)
Ambient temperature	0 °C to + 60 °C
Pilot air ports	Threaded ports G 1/4
Supply pressure	6-7 bar
Air supply filter	Exchangeable (aperture size ~ 0,1 mm)
Installation	as required, display above or sideways
Type of protection	IP65 and IP67 acc. to EN 60529
Electrical connection	
Cable gland	2xM20x1,5 (cable Ø10 mm) on screw terminals (0,14-1,5 mm²) 1xM12x1,5 (cable Ø3 to 6,5 mm)
Conformity	EMC directive 2004/108/EG
Considered standards	CAN/CSA-C22 2 Nr. 139 UL 429
Weight	1 kg

Version November 2017

Connection options



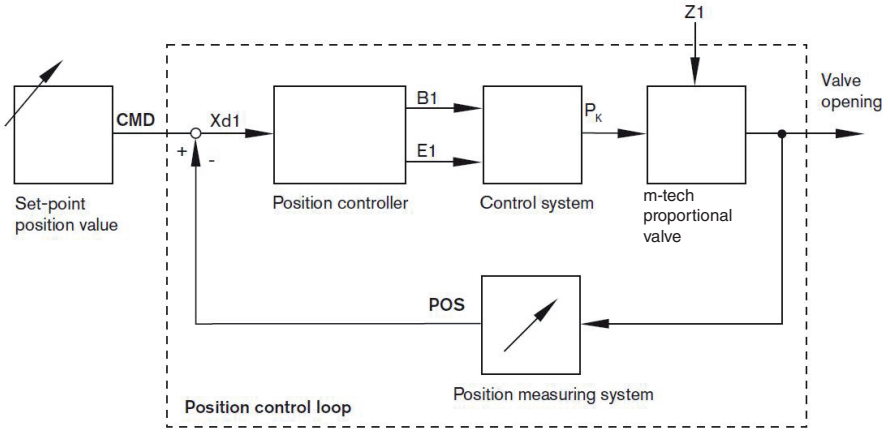
- Cable gland connection

Terminal	Configuration	External circuitry / signal level
11+	Setpoint +	11+ ——— + (4-20 mA or 0-10 V) Completely galvanically separated
12-	Setpoint GND	12- ——— GND
81+	Binary input +	81+ ——— + → 0...5 V (log. 0) → 10...30 V (log.1)
+24 V	Operating voltages +	+24 V ——— 24 V DC ± 10 %
GND	Operating voltages GND	GND ——— max. residual ripple 10 %

- Analogue feedback / binary output

Terminal	Configuration	External circuitry / signal level
83+	Binary output 1	83+ ——— 24 V / 0 V, NC / NO Obtained at GND operating voltages (GND clamps)
85+	Binary output 2	85+ ——— 24 V / 0 V, NC / NO Obtained at GND operating voltages (GND clamps)
31+	Analogue feedback +	31+ ——→ + (0/4-20 mA or 0-5/10 V) Completely galvanically separated
32-	Analogue feedback GND	32- ——→ GND

Signal flow plan



Part numbers

Execution	Application	Article number
Remote DN 0,6	MPG 03 PR / HPG 12 PR	04177
Remote DN 2,0	MPG 12 PR / PCG-H15 PR	04165
NAMUR DN 0,6	Rack/pinion actuators (Single acting)	04192
NAMUR DN 2,0	Rack/pinion actuators (Single und double acting)	04182
Remote stroke sensor	Cable length	
	5 m (Standard)	04161
	10 m, 20 m, 20 m ATEX	Other length on request

Dimensions