

## Pressure independent control valve Cocon QTZ PN25

Pressure independent control valve for dynamic hydraulic balancing of heat exchangers, fan coils, chilled beams or cooling ceilings and distribution pipes in heating and cooling systems with closed circuits. The valve combination consists of an automatically operating flow controller and a control valve which can be equipped with an actuator or a manual regulating head. Can be installed in the supply or the return pipe.



**Material:** DZR brass. Two P/T ports for differential pressure measurement.

**Connections:** Threaded connection FNPT/MNPT with collar nut

**Operating temperature:** 14°F - 245°F

**Maximum operating pressure:** PN 25 (362.5 psi)

**Maximum differential pressure:** 6 bar (87 psi)

Nominal Diameter	Control Range	Item no.
		With P/T ports / without P/T ports
DN15 (1/2")	0.7 - 3.1 GPM	1673104 /1673504
DN15 (1/2")	0.9 - 5.7 GPM	1673204 /1673604
DN20 (3/4")	1.1 - 7.9 GPM	1673206 /1673606
DN25 (1")	1.8 - 11 GPM	1673208 /1673608
DN32 (1-1/4")	2.6 - 21.1 GPM	1673210 /1673610

### Accessories

	
Thermal insulation shell Item no. 1149104 1/2" Item no. 1149106 3/4" Item no. 1149106 1"-1 1/4"	Adapter with spindle required if are equipped with thermal insulation shell and actuator Item no. 1149190

## Electrothermal Actuator Aktor T

Electrothermal actuator with two-point ON-OFF or steady control (0-10 V).  
Normally closed.

**Max. stroke:** 5mm

**Power Consumption:** 1W

**Positioning force:** >90N

**Floating time:** 5 min

**Protection class:** P54 according to EN 60529, in any position

**Electric protection:** Class II according to EN 60730

**Operation/storage temperature:** 32° F to +122° F

**Connection cable:** 2 x AWG 18 , 3ft 3.37inches



Control	Operating voltage	Start up load	Continuous current	Item no.
ON-OFF	120 V AC +/- 15%, 50/60 Hz	<450 mA for a period of 100ms	8.5 mA	1012420
ON-OFF	24 V AC/DC +20% to -10%, 0 a 60 Hz	<300 mA for a period of 2 min	45 mA	1012416
ON-OFF	230 V AC/DC +/-10%, 50/60 Hz	<550 mA for a period of 100 min	4.5 mA	1012415
Steady 0-10 V DC	24 V +20% to -10% 50/60 Hz	<320 mA for a maximum period of 2 min	42 mA	1012953

## Electromotive Actuator Aktor M

Electromotive actuator with On-Off, three-point for proportional control 0-10 V DC.

**Operating voltage:** 24 V AC/DC +/- 10%, 50/60 Hz

**Power consumption:** 2.5 VA (24 V AC) 1.3 W (24 V DC)

**Position stroke:** max. 4 mm (0.157 in)

**Positioning force:** 150 N

**Positioning time:** 22s / mm (0.04 in)

**Protection class:** IP 54 according to EN 60529

**Operation/storage temperature:** 32° F to 122° F

**Operation/storage humidity:** 0 – 85 % r.h., non-condensing



Control range	Connection cable	Item no.
24 V AC/DC, adjustable On-Off, 3-point or steady control 0-10 V DC	0.25 in <sup>2</sup> , 4.9 ft cable length	1012725
24 V AC/DC, steady control actuator with control signal and feedback 0-10 V DC	0.25 in <sup>2</sup> , 4.9 ft cable length	1012726
24 V AC/DC, steady control actuator, with electrical emergency control function and automatic zero point detection.	0.25 in <sup>2</sup> , 4.9 ft cable length	1012717