

Cocon AQH

Pressure independent control valve

DN 15



Small pressure independent control valve (PICV) for flow control of small terminal units in combination with an actuator.

Functions

- Pressure independent flow control
- Settable from 35 to 420 l/h
- Shutoff

Features

- + Starting flow 35 l/h
- + Very small, fits into cramped spaces
- + Valve insert replaceable without interrupting operation of the system

Specifications

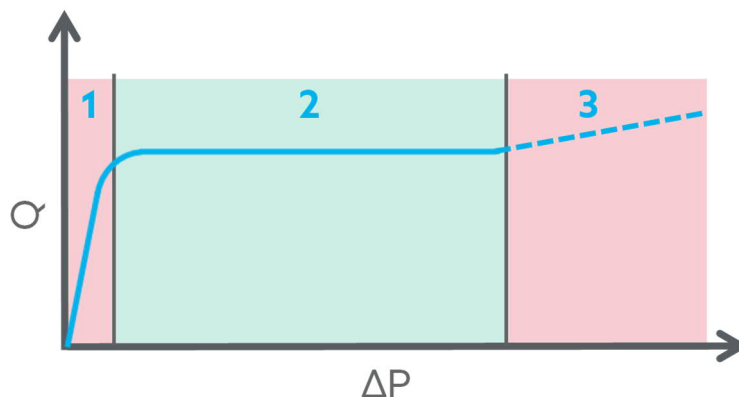
Size	DN 15	
Version	with external threads to ISO 228	
Operating temperature	2 to 110 °C	
Operating pressure	max. 10 bar / PN 10	
Diff. pressure ΔP max.	150 kPa (1.5 bar)	
Differential pressure ΔP min.	35...170 l/h:	15 kPa
	>170...300 l/h:	20 kPa
	>300...420 l/h:	25 kPa
Medium	Heating and cooling water to VDI 2035 Water / glycol mixture with max. 50% glycol share	
Actuator connection	Connection:	M30 x 1.5
	Stroke:	1,1 mm
	Closing dimension:	11,8 mm
	Closing force:	90...150 N

Valve function is also given below ΔP min. However, the flow is below the set value.

Functions

Flow control

The Cocon AQH keeps the flow constant within the differential pressure (ΔP) control range, the green area in below diagram. Within the ΔP control range the flow is not affected by differential pressure, it is pressure independent.



1	2	3
Below the ΔP control range	Within the ΔP control range	Above the ΔP control range
Flow Q increases pressure dependently along the Kv curve.	Flow Q is pressure independently controlled to the set flow value.	Flow Q further increases pressure dependently. Danger of noise and/or vibration.

FLOW RANGE

The settable flow range is from 35 to 420 l/h. The value is set at the valve insert with a presetting key which is supplied with the product. The valve insert has a scale with readings in l/h. The required value can be set without any further conversion.

ΔP CONTROL RANGE

The maximum differential pressure is 150 kPa. The minimum differential pressure is dependent of the set flow value:

Set flow value Q	Minimum differential pressure ΔP
from 35 to 170 l/h	15 kPa
above 170 to 300 l/h	20 kPa
above 300 to 420 l/h	25 kPa

Shutoff

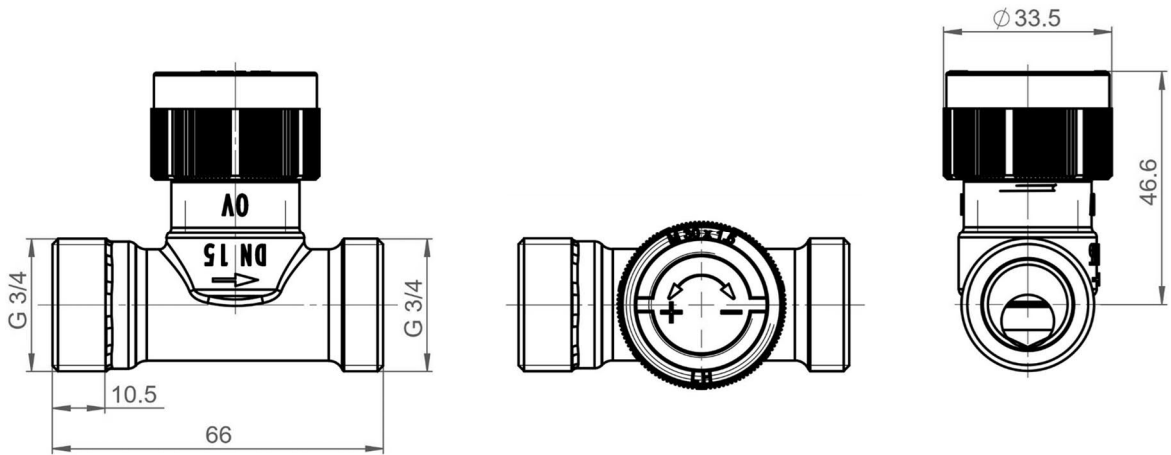
The pipeline can be shutoff for a short period with the protection cap which is supplied with the product. Permanent, unattended shutoff against atmosphere only with the Cocon AQH is not advisable. For such cases secure the valve or pipe end with a suitable plug or cap.

Item data

Item number

1142064 Pressure independent control valve Cocon AQH, DN15, G 3/4 external threads flat sealing, flow range 35 to 420 l/h

Dimensions



Dimensions in mm unless specified otherwise.

Accessories

Fittings

Item No.



Connection set with externally threaded tailpieces.
Consisting of two tailpieces R 1/2, unions Rp 3/4 and sealing rings each.

1140792

Screen insert

Item No.



The screen insert is attached to the inlet of the valve insert. It can be installed without interrupting operation using Demo-Bloc 1188051.

1187090

Demo-Bloc


Item No.





Special tool for changing valve inserts under system pressure. Threaded connection M 30 x 1.5. Including coupling set for AQH valve inserts.

1188051

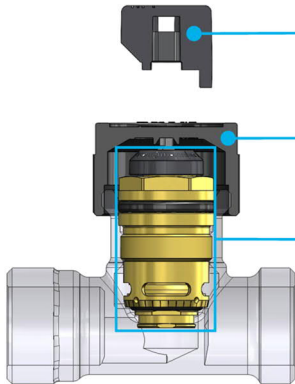
Aktor T Thermal Actuators

		Version	Cable length	Item No.
	Aktor T on/off Normally closed	230 V AC	1 metre	1012415
			2 metres	1012452
			5 metres	1012455
			10 metres	1012459
	Aktor T on/off Normally open	24 V AC/DC	1 metre	1012416
			2 metres	1012442
			1 metre	1012420
			230 V AC	1012425
			24 V AC/DC	1012426

Aktor M motorised actuators

Aktor M motorised actuators		Version	Control signal	Item No.
	Failsafe function and position feedback	24 V AC/DC	Modulating	1012717
			On/off, floating, modulating	1012725
	Position feedback		Modulating	1012726
			Modbus	1012745
		230 V AC	On/off, floating	1012729
	Binary input	21...32 V DC	KNX	1012746
	Short runtime	230 V AC	On/off	1012710
		24 V AC/DC	On/off	1012711

Spare parts

		Artikel-Nr.
	1651182	Presetting key
	1146091	Protection cap (anthracite)
	1187095	Valve insert AQH