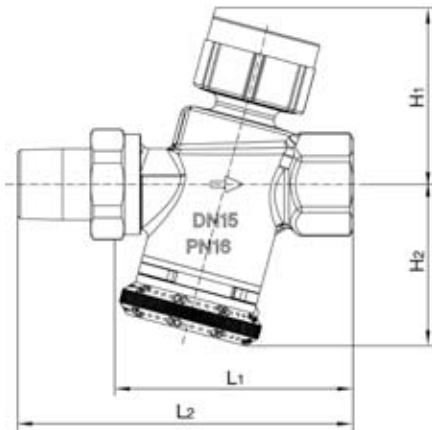


Oventrop

“Cocon Q”

Pressure independent control valve

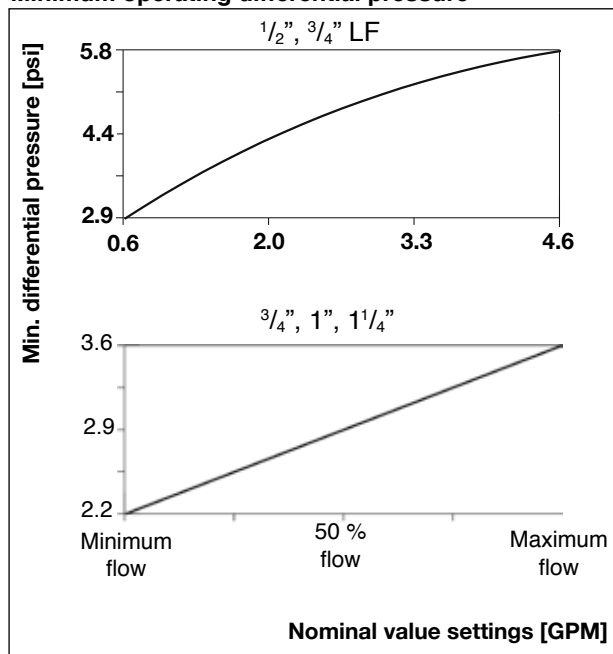
Part No.



Size:	L1	L2	H1	H2
1/2"	2.75	3.9	2.0	1.9
3/4" LF	2.9	4.2	2.0	1.9
3/4"	3.4	4.6	2.3	2.1
1"	4.6	6.1	2.6	3.1
1 1/4"	4.9	6.5	2.6	3.1

See back for dimensions with actuators

Minimum operating differential pressure



1

Product specification

Function:

The Oventrop pressure independent control valve “Cocon Q” maintains a valve authority of 100% and the desired flow over a wide range of differential pressures. The “Cocon Q” is ideal for variable flow applications and it makes selection and commissioning easy. Select the valve with the flow range that satisfies the desired flow rate, and set the design flow rate on site with a quick turn of the hand wheel.

The valve is used for the hydronic balancing and temperature control of appliances or sections of the system in chilled ceiling, fan-coil, convector, central heating, and surface heating systems.

Performance data:

Maximum working temperature:	250°F (120°C)
Minimum working temperature:	14°F (-10°C)
Maximum working pressure:	232 psi (16 Bar)
Maximum differential pressure:	60 psi (4 Bar)
Minimum differential pressure:	3 to 6 psi (0.2 to 0.4 Bar)
Flow accuracy:	+/- 10%
Positioning accuracy:	0.1 GPM

Item numbers:

With test points

Size	Flow range	Item number
1/2"	0.7 - 4.6 GPM	167 62 04
3/4" LF	0.7 - 4.6 GPM	167 60 06
3/4"	0.8 - 5.7 GPM	167 61 06
1"	1.3 - 8.8 GPM	167 61 08
1 1/4"	2.6 - 15.8 GPM	167 61 10

Accessories:

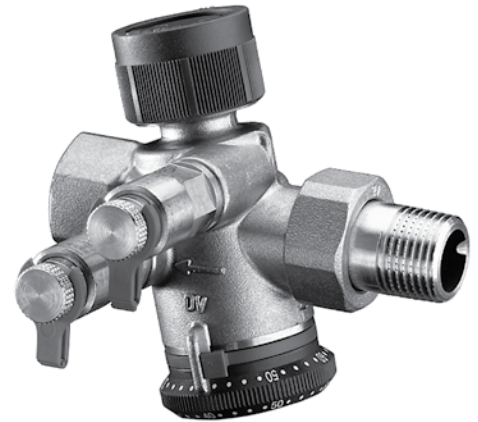
Lead sealing locking wire:	108 90 91
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24V actuators with M30x1.5 connection

Item number	Model	Operating behavior (control signal)	Medium floating time	Maximum fluid temperature [F]	Allowable installation position	Actuator addition to H1 [in]
101 24 96*	Electrothermal, N.C., with end switch	On / Off	~ 4.5 minutes	212	Any	1.25
101 28 16*	Electrothermal, N.C.					
101 28 26*	Electrothermal, N.O.					
101 29 51*	Electrothermal, N.C.	0-10 V	~ 60 s/mm	203	Any, but not upside down	1.9
101 27 00	Electromotive, N.C. or N.O.	0-10 V, 0-5 V, 5-10 V	~ 15 s/mm			
101 27 01	Electromotive	Floating (3-point)				

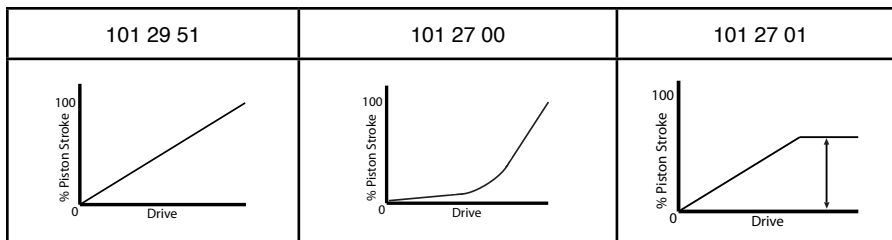
*Not for use with 1" or 1 1/4" valves.



Construction:

The “Cocon Q” has a brass body and is alloyed to resist dezincification (DZR). No dielectric fittings are required for installation. The valve stem is stainless steel and the flexible components are made of EPDM and PTFE. The “Cocon Q” offers a hand wheel mounted opposite and inline with the actuator. The actuator and hand wheel are oriented 15 degrees from vertical to allow for easier operation. The valve has integral self-sealing ports for measuring differential pressure and fluid temperature using standard pressure and temperature test probes. Test ports are located perpendicular to the hand wheel, on the same side of the valve, and are replaceable with blind plugs if not needed. Test ports are spaced 1.0 inch apart and extend 1.5 inches from the valve body. The hand wheel is adjustable while the valve is in operation with the actuator installed. The “Cocon Q” includes a locking clip stop to ensure the balanced position while in operation and to prevent hand wheel repositioning after setting.

Proportional actuator characteristic lines



Valve characteristic line

