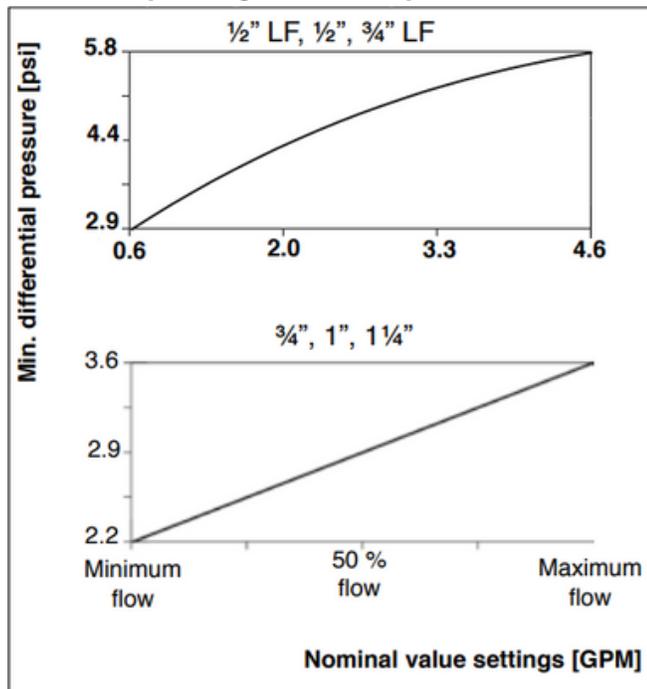


| Size: | L1 | L2 | H1 | H2 |
|-----------|------|-----|-----|-----|
| ½", ½" LF | 2.75 | 3.9 | 2.0 | 1.9 |
| ¾" LF | 2.9 | 4.2 | 2.0 | 1.9 |
| ¾" | 3.4 | 4.6 | 2.3 | 2.1 |
| 1" | 4.6 | 6.1 | 2.6 | 3.1 |
| 1¼" | 4.9 | 6.5 | 2.6 | 3.1 |

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 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: 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: 2.2 to 6 psi (0.15 to 0.4 Bar)

Flow accuracy: +/- 10%
 Positioning accuracy: 0.1 GPM
 Close-off pressure with 1012705/06: 232 psi

Item numbers:

| With test points | | Item number | |
|------------------|----------------|-------------------|------------|
| Size | Flow range | Male/female ports | Male ports |
| ½" LF | 0.13 - 0.9 GPM | 167 60 04 | 167 60 64 |
| ½" | 0.7 - 4.6 GPM | 167 62 04 | 167 62 64 |
| ¾" LF | 0.7 - 4.6 GPM | 167 60 06 | 167 60 66 |
| ¾" | 0.8 - 5.7 GPM | 167 61 06 | 167 61 66 |
| 1" | 1.3 - 8.8 GPM | 167 61 08 | 167 61 68 |
| 1¼" | 2.6 - 15.8 GPM | 167 61 10 | 167 61 70 |

Accessories:

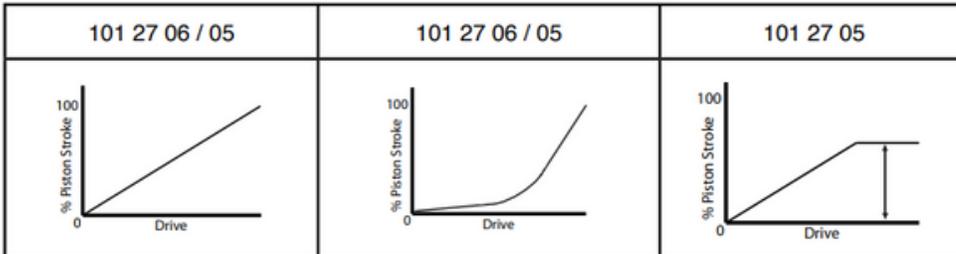
Lead sealing locking wire: 108 90 91

24V actuators with M30x1.5 connection

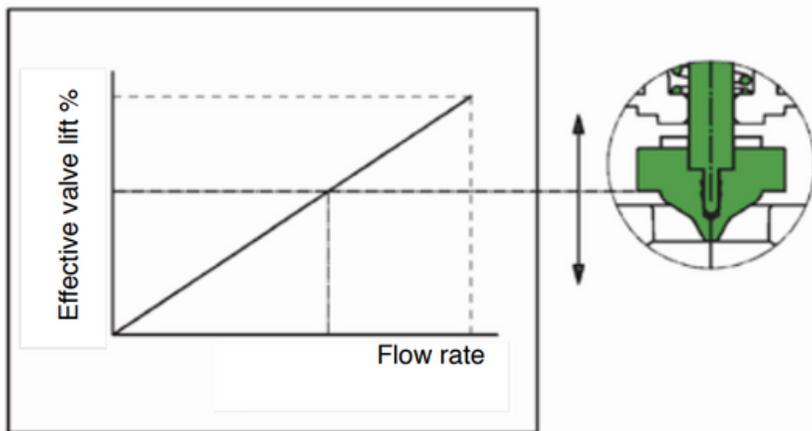
| Item number | Model | Operating behavior (control signal) | Medium floating time | Maximum fluid temperature [F] | Allowable installation position | Actuator addition to H1 [in] |
|-------------|---------------|---|----------------------|-------------------------------|---------------------------------|------------------------------|
| 101 27 06 | Electromotive | 0-10 V with feedback | ~ 15 s/ mm | 203 | Any, but not upside down | 1.9 |
| 101 27 05 | Electromotive | On/Off (2-point), Floating (3-point), 0-10 V (proportional) | | | | |



Proportional actuator characteristic lines



Valve characteristic line



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 selfsealing 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.