oventrop

Innovation + Quality

Valves, controls + systems

Isolating and regulating valves
Heating and cooling
for plant and industrial engineering

Product range

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1 Measurement of a cast iron flanged double regulating and commissioning valve “Hydrocontrol VFC” DN 350

2 Cast iron flanged double regulating and commissioning valve “Hydrocontrol VFC” DN 350 as regulating valve in cooling water pipes

3 “HighLight Towers”, Munich, Germany

4 “Queen Mary 2”, England

Oventrop offers isolating and regulating valves for plant and industrial engineering (heating-ventilation-air-conditioning).
The extensive product range is extended by bronze sea-water resistant valves which are used for shipbuilding.
Depending on the application and fluid, Oventrop offers custom-made high quality solutions which are of course certified according to DIN ISO 9001.
The heavy pattern series of double regulating and commissioning valves “Hydrocontrol VFC” is also available in the sizes DN 350 and DN 400.

The complete range of Oventrop double regulating and commissioning valves includes:

- **Double regulating and commissioning valves “Hydrocontrol VFC”**
  - made of **cast iron,** both ports flanged
  - **PN 16 DN 20 - DN 400**
  - **PN 6 DN 20 - DN 200**
  - made of **cast iron,** both ports flanged with hole circle according to ANSI
  - **PN 16 DN 20 - DN 400**
- **Double regulating and commissioning valves “Hydrocontrol VGC”**
  - made of **cast iron,** both ports groove connection for couplings of the systems Victaulic and Grinnell
  - **PN 25 DN 65 - DN 300**
- **Double regulating and commissioning valves “Hydrocontrol VFN”**
  - made of **nodular cast iron,** both ports flanged
  - **PN 25 DN 65 - DN 300**
- **Double regulating and commissioning valves “Hydrocontrol VFR”**
  - made of **bronze** - sea-water resistant e.g. for shipbuilding - both ports flanged according to DIN-EN1092-2
  - **PN 16 DN 50 - DN 200**

The Oventrop valves enjoy great popularity all over the world and are successfully installed in large projects and industrial plants for heating and cooling.
Numerous references furnish proof of it.
Oventrop makes it easy for its partners to design, install and balance their hydronic systems. Extensive publications and documentations as well as calculation software and slide rules are available .

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1,2 Examples
Cast iron double regulating and commissioning valves “Hydrocontrol VFC” PN 16, DN 80, in a heating water distribution system for hydronic balancing and regulation using the Oventrop measuring system “OV-DMC 2”.

3 Bronze double regulating and commissioning valves “Hydrocontrol VTR” PN 16 and differential pressure regulators “Hycocon DTZ” in a central heating water distribution system.

4 Bronze double regulating and commissioning valve “Hydrocontrol VTR” both ports with female thread

- PN 25 DN 10 - DN 50
- PN 16 DN 10 - DN 65

Bronze body and bonnet, valve disc with PTFE seal, stem and valve disc made of dezincification resistant (DZR) brass.

Application:
Central heating and cooling systems *).
Temperature range: -20 °C up to +150 °C

Item no. 10601..:
The sizes DN 40 and DN 50 are ACS (France) certified for installation in potable water systems.

Item no. 16887..:
Sizes DN 10 - DN 50 with type approval for shipbuilding (DNV-GL).

The exchangeable coloured rings allow for a clear marking of the “Hydrocontrol VTR” and “Hydrocontrol ATR” valves in the supply and return pipes.

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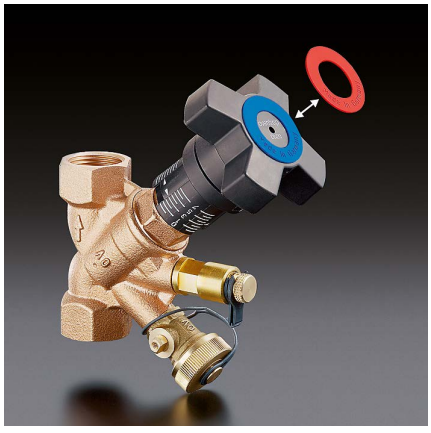
5 Differential pressure regulator “Hycocon DTZ” made of dezincification resistant (DZR) brass

- PN 16 DN 15 - DN 50

The nominal value is infinitely adjustable between 50 mbar and 300 mbar or between 250 mbar and 600 mbar.

Application:
Central heating and cooling systems *).
Temperature range:-10 °C up to +120 °C

*) For cooling systems: Please provide frost protection and vapour sealed insulation!



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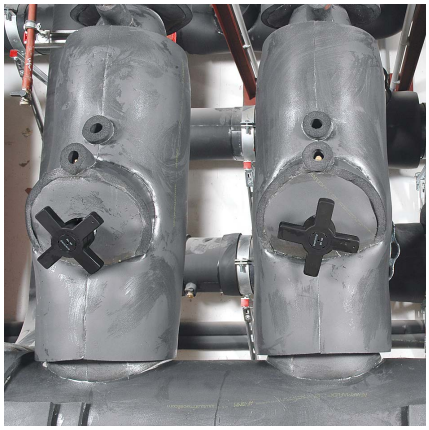

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1, 3 Examples
Cast iron double regulating and commissioning valves “Hydrocontrol VFC” PN 16, DN 125 and DN 200 in a large installation for hydronic balancing of cooling water.

2, 4 Cast iron double regulating and commissioning valve “Hydrocontrol VFC” both ports flanged

- PN 16 DN 20 - DN 400
- PN 6 DN 20 - DN 200

Application:
Central heating and cooling systems.
Temperature range: -10 °C up to + 150 °C

For cooling systems: Please provide frost protection and diffusion tight insulation!

Item no. 16883..:
Sizes DN 50 and DN 200 with type approval for shipbuilding (DNV-GL).

5, 6 Regulation and hydronic balancing of cooling water (connection to cooling plant on roof) with cast iron double regulating and commissioning valve “Hydrocontrol VFC” PN 16, DN 125, before insulation is applied.

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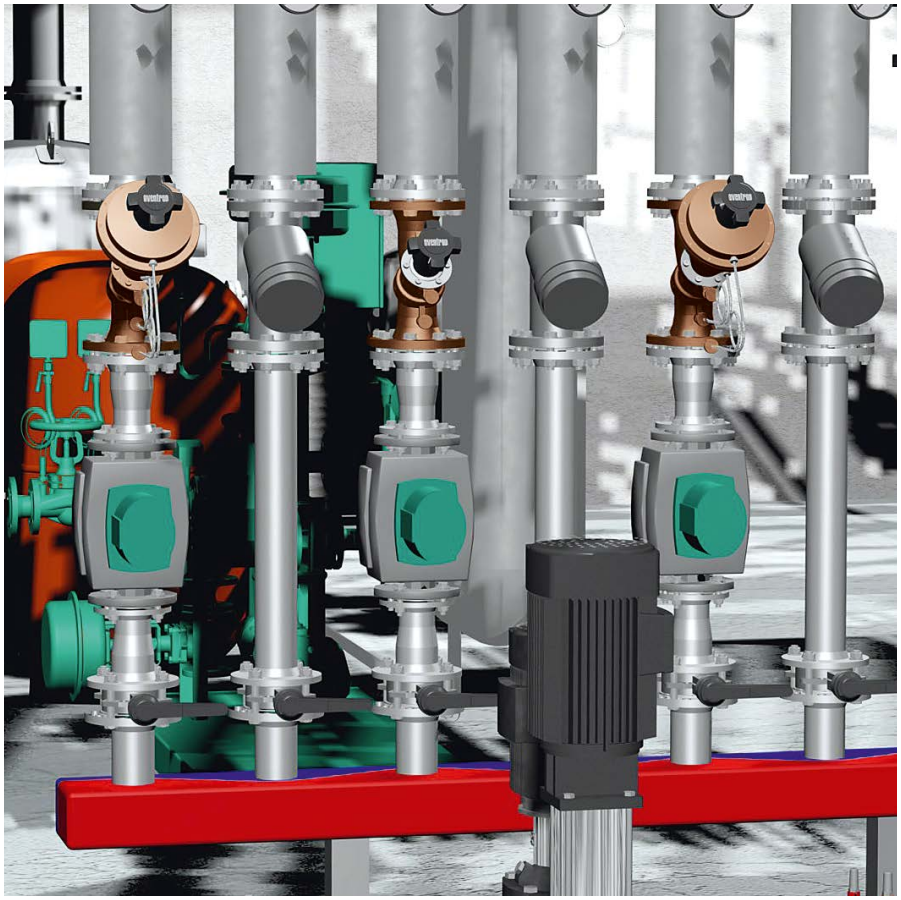

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1 Section of a heating centre design with AutoCAD and three-dimensional illustration of the Oventrop valves.
The three-dimensional valve illustrations are available in the Oventrop AutoCAD valve library or on the Oventrop homepage: www.oventrop.de (Products CAD data) in the data format according to VDI 3805.

The example shows Oventrop cast iron double regulating and commissioning valves “Hydrocontrol VFC”, cast iron differential pressure regulators “Hydromat DFC” and cast iron strainers.

2 Bronze differential pressure regulator “Hydromat DTR” (in the foreground), both ports with female thread
- PN 16 DN 15 - DN 50

Cast iron differential pressure regulator “Hydromat DFC” (in the background), both ports flanged
- PN 16 DN 65 - DN 200

Application:
Central heating and cooling systems *).
Temperature range: -10 °C up to +120 °C

The sizes DN 15 up to DN 50 are infinitely adjustable between 50 mbar and 300 mbar or between 250 mbar and 700 mbar.

The sizes DN 65 up to DN 150 are infinitely adjustable between 200 mbar and 1000 mbar or between 400 mbar and 1800 mbar (DN 65 up to DN 200).

3 Cast iron double regulating and commissioning valve “Hydrocontrol VGC”, both ports groove connections for couplings
PN 25 DN 65 - DN 300

Suitable for couplings of the systems Victaulic and Grinnell.

Application:
Central heating and cooling systems*).
Temperature range: -10 °C up to +150 °C

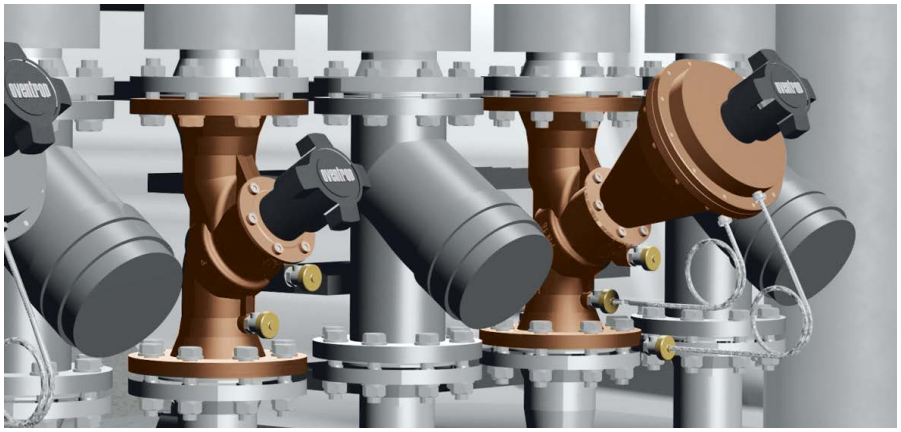
4 Bronze flow regulator “Hydromat QTR”, both ports female thread
- PN 16 DN 15 - DN 40

Application:
Central heating and cooling systems *).
Temperature range: -10 °C up to +120 °C

5 Pressure independent control valves “Cocon QTZ/QFC”

Application:
Central heating and cooling systems*).
Temperature range: - 10 °C up to + 120 °C

*) For cooling systems: Please provide frost protection and vapour sealed insulation!



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1 Section of a heating centre design with AutoCAD and three-dimensional illustration of the Oventrop valves.

2 Lugged cast iron butterfly valves made of nodular cast iron

- with EPDM liner:
  - Lugged pattern, lever operated
    PN 16 DN 50 - DN 200
  - Lugged pattern, gear operated
    (not illustr.)
    PN 16 DN 50 - DN 400

Application:
Central heating and cooling systems and industrial plants.
Temperature range: -10 °C up to +110 °C

- with NBR liner:
  - Lugged pattern, lever operated
    PN 16 DN 50 - DN 200
  - Lugged pattern, gear operated
    (not illustr.)
    PN 16 DN 50 - DN 400

Application:
Central heating and cooling systems and industrial plants.
Temperature range: -10 °C up to +80 °C

3 Cast iron gate valve, both ports flanged
- PN 16 DN 40 - DN 300

Application:
Central heating and cooling systems.
Temperature range: -10 °C up to +120 °C

4 Cast iron swing check valve, both ports flanged
- PN 16 DN 40 - DN 300

Application:
Central heating and cooling systems.
Temperature range: -10 °C up to +120 °C

5 Cast iron strainer, both ports flanged
- PN 16 DN 15 - DN 600

Application:
Central heating and cooling systems.
Temperature range: 0 °C up to 120 °C

6 The measuring system “OV-DMC 3” has especially been designed for the regulation of heating and cooling systems. Communication takes place via commercial smartphones, tablets, notebooks and PCs. The measuring system including an extensive range of accessories is supplied in a sturdy case.

Further information can be found in the catalogue “Products” and on the internet, product ranges 3 and 5:
www.oventrop.com

OVENTROP GmbH & Co. KG
Paul-Oventrop-Straße 1
D-59939 Olsberg, Germany
Phone +49 29 62 82 0
Fax +49 29 62 82 450
E-Mail mail@oventrop.com
Internet www.oventrop.com

Product ranges 3.5
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