

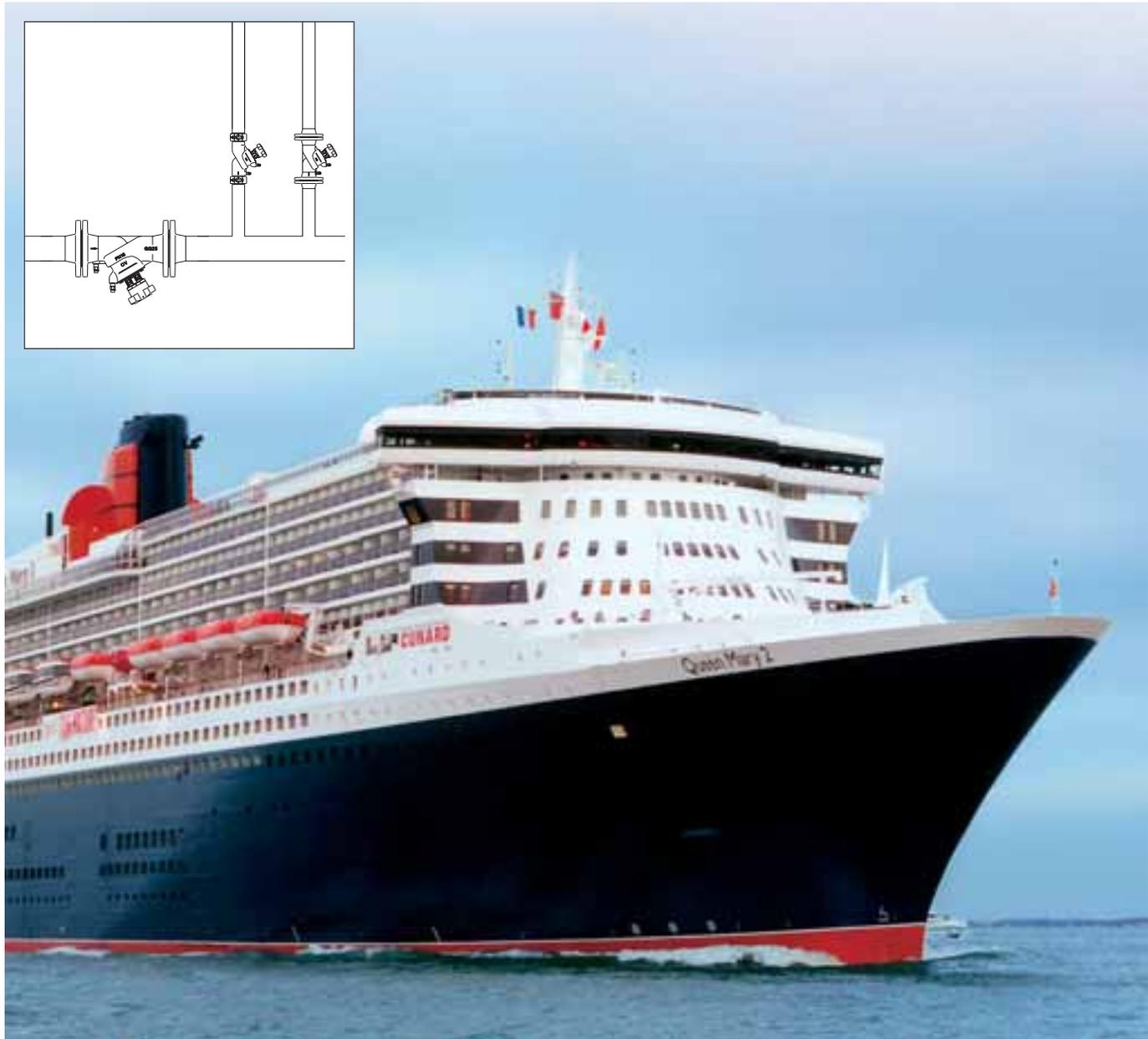
oventrop

Valves, controls + Systems



Isolating and regulating valves
for the shipbuilding industry

Product range



Illustr.: "Queen Mary 2"
(Photo: Alstom Marine, Bernard Biger)



1



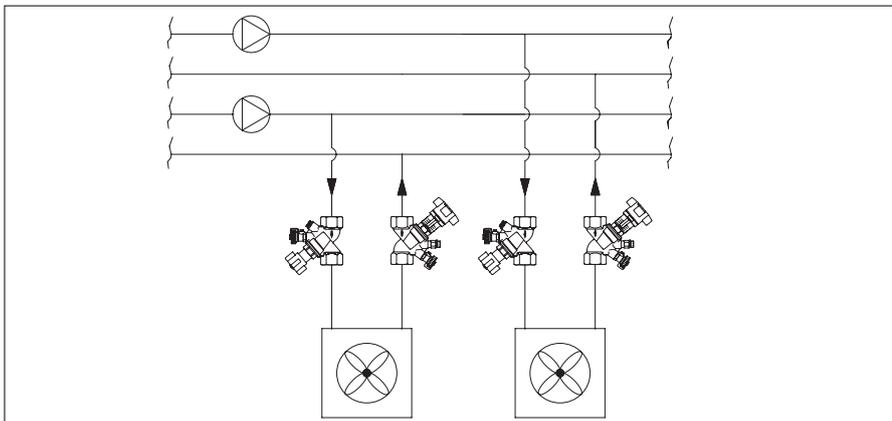
2



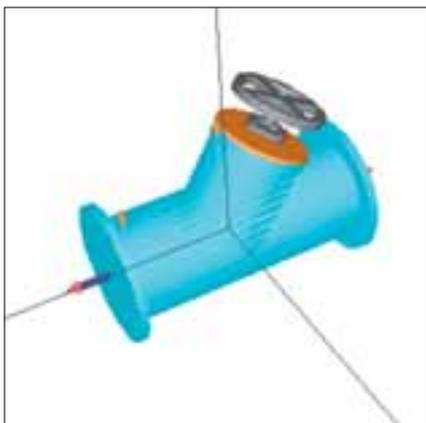
3



4



5



6



7

With the hydronic balancing system, Oventrop offers to the specifying engineer and installer almost all valves and valve combinations necessary to achieve a hydronic balance of heating and cooling systems.

The products can be delivered separately or as a system. Thus the appropriate valves and valve combinations are available for any possible specification.

For the shipbuilding industry Oventrop offers seawater resistant valves for hydronic balancing approved by DNV (Det Norske Veritas).

1 E.g. cruise liners and luxury liners

Illustr.: "Millenium"

(Photo: Alstom Marine, Bernard Biger)

2 E.g. cargo boats and ferries

Illustr.: "MS Eilbek"

(Photo: Unkel, Leer)

3 Installation example of an Oventrop double regulating and commissioning valve "Hydrocontrol FS" DN 200 in a heating circuit.

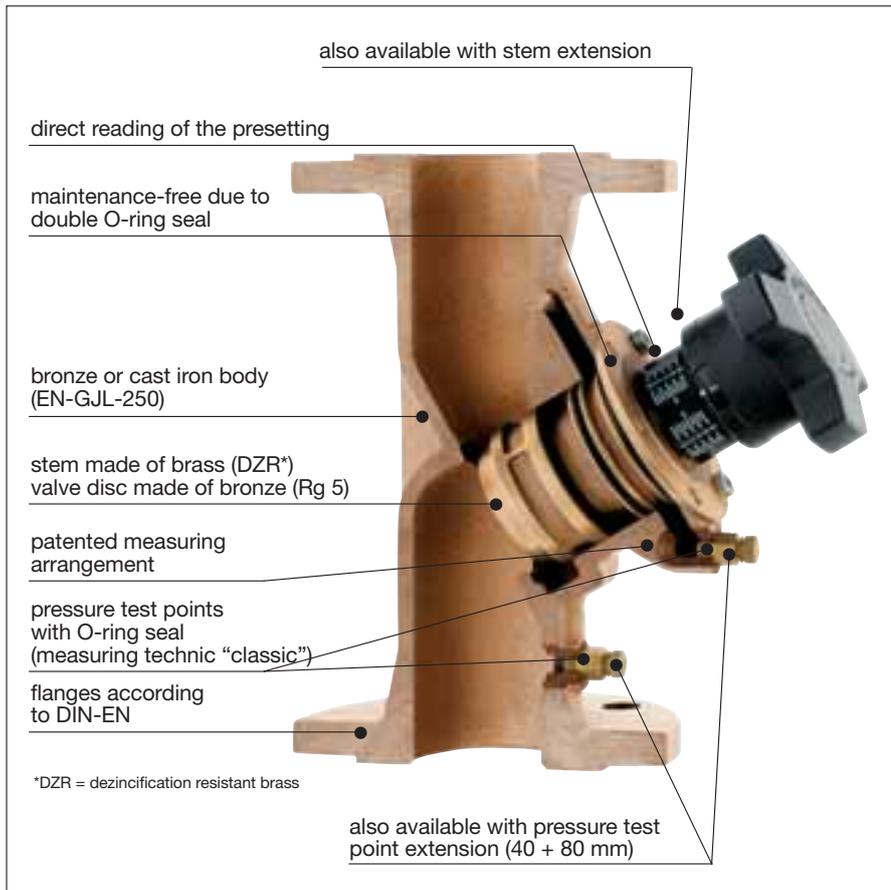
4 Installation example of an Oventrop double regulating and commissioning valve "Hydrocontrol F" DN 150 in a chilled water circuit.

5 Pipework scheme heating/cooling Control of air-conditioned rooms for Fan-Coil or succeeding heat exchangers.

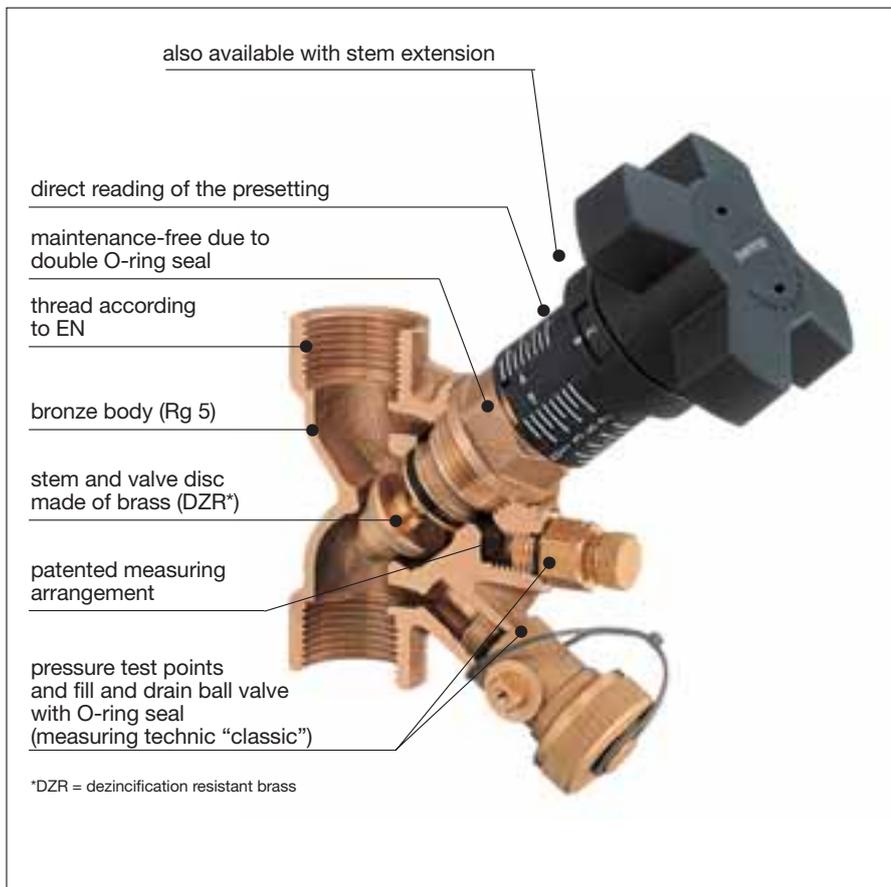
6 CAD and technical data of the Oventrop double regulating and commissioning valves "Hydrocontrol F, R, FR, FS and G" edited for the shipbuilding industry can be found on the internet under www.tribon.com of the manufacturer "Tribon Solutions".

The company "Tribon Solution" is a world-wide distributor of software for the design and calculation of ships and shipbuilding engineering. The Oventrop data is three-dimensional CAD data which can easily be integrated into the Tribon Software free of charge e.g. for an exact design of pipework (heating, cooling, potable water conditioning) in a ship.

7 On demand, Oventrop also offers to the shipbuilding industry special models, e.g. valves with stem and pressure test point extensions or a bonnet protected against twisting by a fixing plate.



1



2

The bronze double regulating and commissioning valves "Hydrocontrol R/ Hydrocontrol FR" are installed in hot water central heating systems ("Hydrocontrol R: PN 25/150°C, "Hydrocontrol FR": PN 16/150°C) and cooling systems in order to provide a hydronic balance between the various circuits of the system. The bronze double regulating and commissioning valves "Hydrocontrol FR" are also suitable for cold salt water (38°C max.) and domestic water. The calculated flow rate or pressure loss can be preset for each individual circuit, thus making the hydronic balance easy to achieve.

They can be installed in either the supply or the return pipe.

Advantages:

- the location of functioning components on **one** level allows a simple assembly and easy operation
- only **one** valve for 5 functions:
 - presetting
 - measuring
 - isolating
 - filling
 - draining
- low pressure loss (oblique pattern)
- infinitely adjustable presetting, exact measurement of pressure loss and flow by using the pressure test points
- thread of "Hydrocontrol R" according to EN 10226 suitable for Oventrop compression fittings (one edge olive) for copper pipes with a max. diameter of 22 mm
- flanges of "Hydrocontrol F", "Hydrocontrol FS" and "Hydrocontrol FR": round flanges according to DIN EN 1092-2 or ANSI, lengths according to DIN EN 558-1, basic series 1
- groove connections for couplings of the "Hydrocontrol G" suitable for couplings of the systems Victaulic and Grinnell
- fill and drain ball valve with internal stop and pressure test point with O-ring seal between valve body and pressure test point (no additional seals required)
- patented measuring channel led around the stem assembly to the pressure test points ensures the best possible accuracy between the differential pressure measured at the pressure test points and the actual differential pressure of the valve
- simple insulation by using the stem and pressure test point extensions.

1 "Double regulating and commissioning valve "Hydrocontrol FR" (cut illustration)

2 Double regulating and commissioning valve "Hydrocontrol R" (cut illustration)

Awards:

 International Design Award Baden-Württemberg

 Good Design Award Japan

 International Forum Design Hanover Award iF

