

Ball valves "Optibal"  
Ball valves for potable water "Optibal TW"  
Isolating set "Optibal PK" with thermometer

Product range





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Oventrop brass and bronze ball valves "Optibal" with full flow are used in industrial, commercial and domestic installations for the isolation of pipes transporting fluids.

Depending on the different models, they may be used for the following fluids: water, mineral heating and hydraulic oil, fuel, air and others (see also table in the technical data sheet).

The ball valve is opened/closed by turning the handle or lever around by 90°. The position of the ball is indicated by the position of the handle or lever which moves parallel to it. Even if the handle or the lever are removed, the stem with two flats still indicates the position of the ball.

Advantages:

- full flow
- wide range of application
- all standard types of handles and levers available
- simple insulation of the models with extended plastic handle
- suitable for high pressures due to blow-off proof stem and solid bodies
- ball surface hard-chrome plated

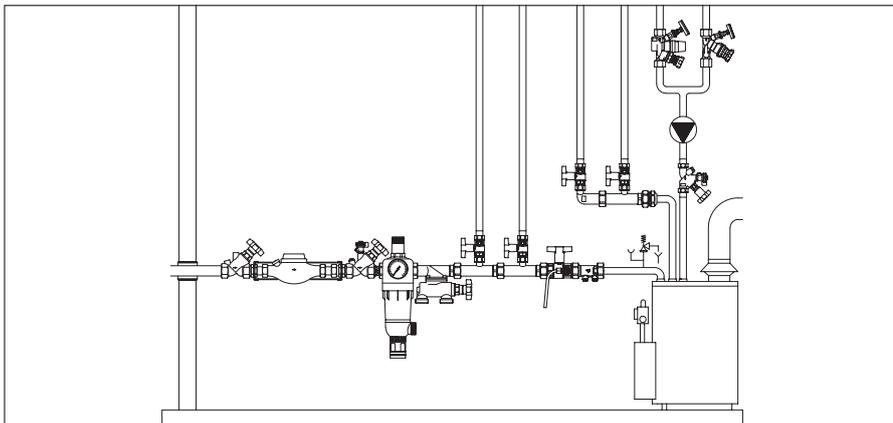
1 Brass ball valve

2 Bronze ball valves

3,4 Bronze ball valves for potable water "Optibal TW" with full flow according to EN 13828 with plugged draining orifice G 1/4 on both sides, ball always surrounded by water, without dead zone.

Also available with press connection on both ports for the direct connection of copper pipe according to EN 1057 and stainless steel pipe "NiroSan".

5 System illustration



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The brass ball valves "Optibal" are suitable for a normal pressure up to PN 20 for cold water, up to PN 16 for fluids and harmless gases.

Temperature range 0 °C up to 100 °C.

**1** Brass ball valve, nickel plated, both ports female thread, with handle.

Not illustrated: same ball valve but one port female thread and one port male thread

**2** Brass ball valve, nickel plated, both ports female thread, with handle and thermometer for a steady control of the fluid temperature. Brass ball valves with plastic handle may be subsequently equipped with a thermometer.

**3** Brass ball valve, nickel plated, both ports female thread, with handle and draining facility (connection thread of the drain valve G 1/4).

**4** Brass ball valve, nickel plated, with handle, one port female thread, one port tapered sealing coupling with male thread.

**5** Brass ball valve, nickel plated, both ports female thread or one port female thread and one port male thread, with galvanised steel lever with plastic coating.

**6** Brass ball valve, nickel plated, both ports female thread or one port female thread and one port male thread, with aluminium T-handle.

Ball valves with steel lever or aluminium T-handle can be converted to plastic handle.

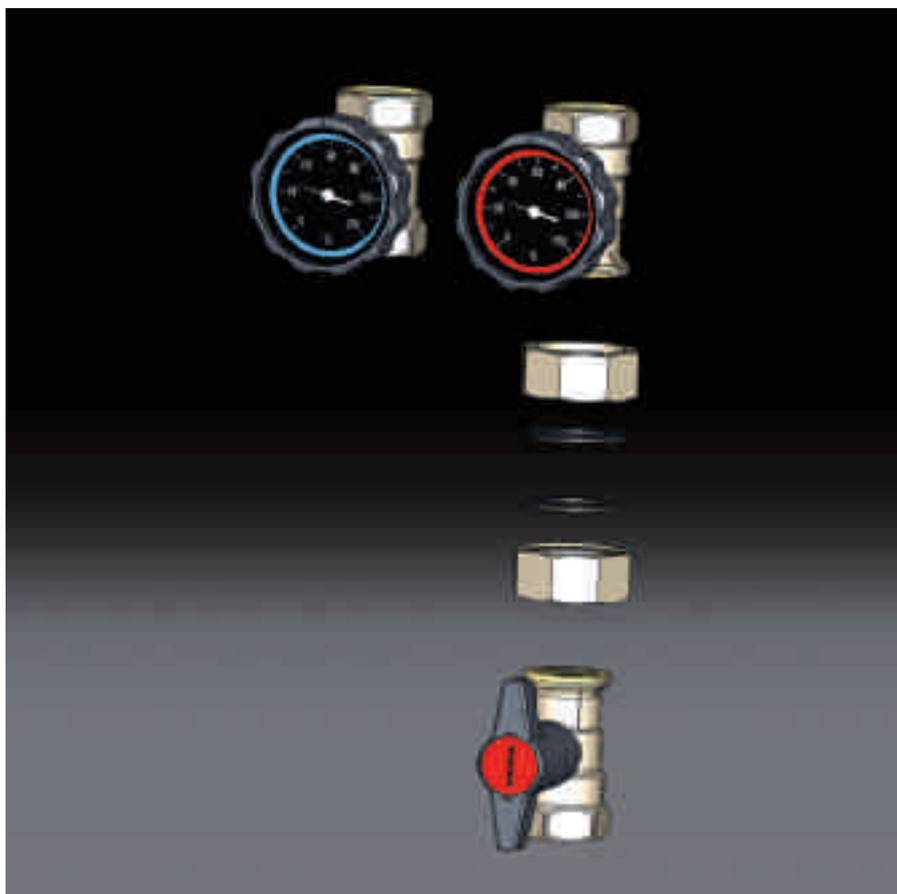
**7** Insulation made of polyethylene flexible foam for brass ball valves "Optibal" with extended plastic handle.

Operating temperature ts: -20 °C up to +100 °C

The insulation consists of two double shells which are closed with integrated straps. Illustration with ball valve.

Alternatively for ball valves with extended handle: Insulation shells made of expanded polypropylene (not illustrated).

**8** Thermometer conversion set, anthracite for ball valves "Optibal" with extended plastic handle.



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**The Oventrop isolating set "Optibal PK" with thermometer is a product assembly for the realisation of individual boiler connections.**

The set consists of a pump ball valve with check valve for installation at the pump inlet, a pump ball valve with thermometer (red) for the supply and a ball valve with thermometer (blue) for the return.

This set allows the installer to realise a connection between the boiler and the pipework according to requirements on site. Standard pumps with flat sealing male thread can be used.

**Application:**

Heating systems up to PN 10

**Material:**

Brass, nickel plate

**Models:**

Size	Item no.
DN 25	1353581
DN 32	1353582

**1** Isolating set "Optibal PK" including collar nuts and seals for pump connection.

**2** Ball valve "Optibal" both ports female thread; with neutral anthracite thermometer  
Item no.: 1078003-16

**3** Conversion set thermometer, anthracite  
Size Item no.  
DN 10 + 15 1077181  
DN 20 + 25 1077182  
DN 32 up to DN 50 1077183

The brass ball valves "Optibal" with extended plastic handle can be upgraded with this thermometer conversion set.

This applies to:

Item no.:	1077103-16
	1077303-10
	1077804-08
	1075704-10

Further information can be found in the catalogue "Product" and on the internet, product range 5.

Subject to technical modifications without notice.

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