

VALVE TAG

BOSS 9510 series valves are supplied with a data tag indicating:

- the Fig. Number of the valve type (e.g. "fig. 9510");
- the nominal size;

On the tag there is sufficient room to write the required setting of the valve, indicating either the topset® setting figures, the desired flowrate or the desired valve pressure drop. The tag can be fixed to the topset® handwheel with the provided plastic tie. By keeping the tie long, it is possible to leave the tag on the outside of any thermal isolation, thus simplifying the identification of the hidden device.

DISCLAIMER

The information contained in this publication is believed to be correct and complete at the time of printing but it is an approximate guide only. Due to limitations in the printing process, images may not be representative of their true colours and colour variations may occur due to the natural origin of the products. Stock may vary from branch to branch and is subject to availability. Any industry accreditations portrayed (eg WRAS, BBA etc) are correct at time of going to press but may be subject to change without prior notice. All photographs are a guide only and do not necessarily represent the products available. BSS Industrial reserves the right to change product details and designs without prior notice. To the fullest extent permitted by law, BSS Industrial assumes no liability or responsibility for typographical and clerical errors and omissions in this publication (which may be corrected by us without liability) and this publication does not form the basis of any contract. All products sold are subject to our Group Sale Terms, a copy of which are available on request or are otherwise available at www.bssindustrial.co.uk. Travis Perkins Group is the owner of the registered trademark BOSS.



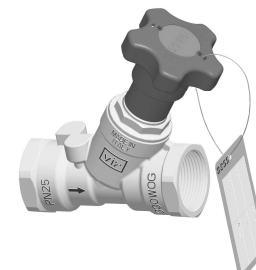
Registered Office: Lodge Way House
Lodge Way, Harlestone Road,
Northampton. NN5 7UG
Registered in England No 60987.

9510 series

How to use the VIR 9510 series Double Regulating Valve (Installation, Operating and Maintenance Instructions)

GENERAL INFORMATION

BOSS 9510 series (DZR brass body) valves are designed to be installed on heating and cooling systems. They allow a correct balance between the different branches of a hydraulic heating/cooling system; in fact they allow :



- Regulation of the flow by modifying the position of the throttling disk obtained by rotating the topset® handwheel (there are 40 different positions, as shown by the figures on the handwheel);
- The flow to be isolated and, when reopened, to recover the same previous setting of the topset® handwheel by using the "Memory Stop" function (see VALVE SETTING paragraph);

BOSS DRV 9510 series valves are intended to be used for non hazardous liquids only, therefore liquids which are included in the Group 2 fluid classification as defined by the Pressure Equipment Directive 97/23/EC: this, together with the Pressure/Temperature rating shown below, places the 9510 series valves in the SEP category, for which the CE logo is not required.

PRESSURE AND TEMPERATURE RATINGS

End Connections	Non-shock pressure at temp. range	Non-shock pressure at maximum temp.
Threaded	25 bar from -10°C (*) to 100°C	20 bar at 130°C (**)

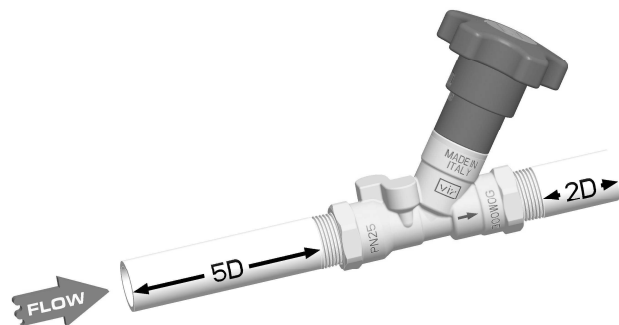
(*) = Only for below zero water temperatures where antifreeze fluids have been added.

(**) = Only for water temperatures over 100°C where anti - boiling fluids have been added.

The operative conditions shown in the table are intended for non-shock operating conditions: water hammer, impacts, stress loads, corrosive or erosive external environmental elements and the transport of fluids with abrasive properties should be avoided.

INSTALLATION

BOSS 9510 series valves $\frac{1}{2}$ " and $\frac{3}{4}$ " have female end - connections threaded ISO 228/1.



BOSS 9510 series valves from 1" to 2" have female end - connections threaded ISO 7/1 Rp.

It is important that the flow direction matches the direction of the arrow indicated on the body of the valve. In order to obtain the best valve performance, it is advisable to install the 9510 series valves:

- Using pipes of the same nominal size of the valve;
- With a minimum straight pipe length equal to 5 pipe diameters at the inlet (10 when installed at the outlet of a pump) and 2 pipe diameters at the outlet;
- Avoiding that any material used to connect the pipes or that any burrs present on the pipe ends themselves protrude inside the bore and obstruct part of the flow (it's advisable to flush the line before its start or after eventual maintenance on the system).

The valves should be installed in such a way so that the pipeline does not subject the valve to any torsion, bending or tension.

VALVE SETTING

Valve presetting can be done by using the appropriate flow graphs specific to each diameter. On request, it is possible to obtain the values of graphs of the K_v flow coefficients in relation to each topset® handwheel position, for all valve sizes.

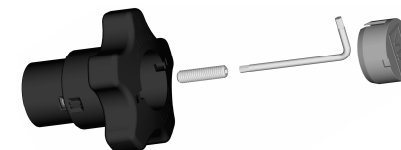
The final presetting of the valve can be read on the main and secondary graded scales on the topset® handwheel (double zero indicates that the valve is closed):

- The main valve setting is displayed in the lower window, where the values move in a vertical direction. Each number indicates a complete turn of the handwheel.
- The secondary valve setting is displayed in the upper window, where the values move in a horizontal direction. Each number indicates one tenth of a turn of the handwheel.

MAINTAINING THE REQUIRED VALVE SETTING

Once the required flowrate has been reached, it is possible to set the Memory Stop device as follows :

- With a small tool gently remove the plastic cap at the centre of the handwheel;
- Insert the hexagonal 3mm Allen key provided into the central bore and, leaving the topset® in its desired position, tighten the inner screw clockwise until it stops (do not over-wrench).
- Replace the plastic cap.



Now the valve may be closed, thus interrupting the flow, at any time: when reopened, the Memory Stop is guaranteed to return to the previous setting.