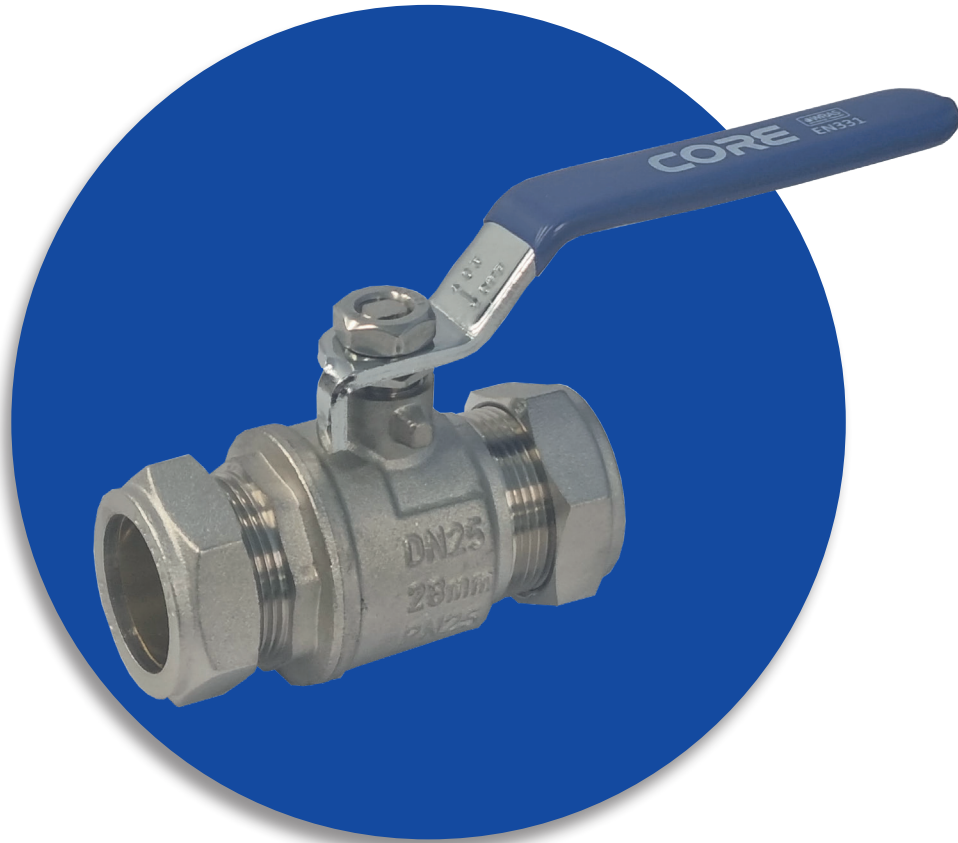


# Installation & Operating Manual



## Compression Ball Valves

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### 1. Introduction

- The CORE range of Compression Ball Valves are suitable to be used as on / off operating devices in pipework systems.
- The CORE range of Compression Ball Valves have been classified in accordance with PED 2014/68/EU.

### 2. Technical Data

Valve Type	Size Range	Connection Type	Temperature Rating	Pressure Rating (Max)
CORE 171AC	15mm – 54mm	BS EN 1254-2	-10°C – 110°C	25 Bar
CORE 800	15mm – 54mm	BS EN 1254-2	-10°C – 110°C	25 Bar

### 3. Valve Features

- The CORE range of Compression Ball Valves are offered as full bore therefore having a low flow resistance.
- The CORE range of Compression Ball Valves are operated by use of hand lever and should only be used in the fully open or fully closed position. Flow regulation or throttling should be avoided as this may cause damage to the valve seals.

### 4. Valve Installation

- CORE recommend that the installer adheres to the installation requirements as specified by the Water Supply Water Fittings Regulations 1999.
- Compression Ball Valves provide a positive shut off and the valve are bi-directional.
- The valve should be sited to ensure ease of access.
- It is the responsibility of the installer to ensure the valve is suitable for service conditions e.g., temperature, pressure, and service media.
- Where fitted, remove flange protectors / dust caps and all other packaging material.
- Care should be taken to ensure the surface finish of the valve is protected during installation. Any damage to the valve surface may cause metallic corrosion.
- The valves may be installed in horizontal pipework with the stem in the vertical position, or in vertical pipework with the stem horizontal.
- There is no need to use any sealing materials or compounds when installing Compression Ball Valves.

- It is the responsibility of the installer to ensure that the valve, and adjoining pipework is suitably supported to avoid any undue stresses being applied to the valve.
- It is the responsibility of the installer to ensure that no undue stresses are applied to the valves during the installation process, particularly with regards to any valve body joints and threaded connections.
- It is the responsibility of the installer to protect the valve, and any adjoining pipework from the effects of galvanic corrosion.
- It is the responsibility of the installer to ensure that the valve, and any adjoining pipework be adequately lagged in accordance with current guidance or regulations.
- In line with BSRIA recommendations, suitable consideration needs to be made as to how the removal of system debris can be achieved during the flushing process.

#### **5. Preparation / Jointing**

- Tube ends should be square and burr free around all jointing surfaces.
- Remove nut and olive from the compression ball valve and place over the tube.
- Insert the tube into firmly into the valve until resistance is met from the valve / tube stops.
- Assemble by pushing the olive into position and slide the nut onto the threaded part of the valve and rotate until hand tight.
- Using suitable tooling (flat face spanners) tighten the nut into position (this is usually between 3/4 to 1 full turn).
- Repeat for the other side of the valve.

During the assembly process, a light oil may be used on the threads to assist with the assembly process. It is more beneficial to require light oil on larger valve sizes.

#### **6. Approvals Classification**

- Please contact your CORE representative Quality Department for further details of any specific product approvals and accreditations.

#### **7. Troubleshooting**

- If any maintenance is to be undertaken on the CORE range of Compression Ball Valves it is the responsibility of the installer to ensure the system is adequately drained, depressurized and the valve isolated before any work commences.
- A full risk assessment should be undertaken prior to any works taking place.

#### **8. Warranty**

- For further details about the CORE range's warranty period, please contact your CORE representative.