



# DZR Brass Draining Tap

Fig.370 & Fig.371



## Product Life Cycle

The life of the valve is dependent on its application, frequency of use and freedom from misuse. The system into which it is installed must also be compatible with respect to the fluid being transported with reference to its temperature, pressure and other properties, which may cause premature failure or non-operability.

A well designed system will take into consideration all the factors considered in the valve design, but additionally electrolytic interaction between dissimilar metals in the valve and the system must be examined. Before commissioning a system, it should be flushed to eliminate debris and chemically cleaned as appropriate to eliminate contamination, all of which will prolong the life of the valve.

## Limits of Use

### Operating Pressures and Temperatures

The valve to which these installation, operation and maintenance instructions apply have been categorised in accordance with the Pressure Equipment Directive 2014/68/EU.

The fluid to be transported is limited to Group 2 liquids i.e. non-hazardous and on no account must these valves be used on any Group 2 gases, Group 1 liquids or Group 1 gases.

Fig.370 and Fig.371 DZR Brass Drain Taps in sizes up to and including 1 inch are categorised as SEP and do not require the CE mark.

PN	Non-shock pressure at temperature range	Non-shock pressure at max temperature
16	16 bar from -10°C to 120°C	16 bar at 120°C

Not suitable for fatigue loading, creep conditions, fire testing, fire hazard environment, corrosive or erosive service, transporting fluids with abrasive solids.

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## Pressure/Temperature Rating

Valves must be installed in a piping system whose normal pressure and temperature do not exceed the above ratings.

The maximum allowable pressure in valves as specified in the standards is for non-shock conditions. Water hammer and impact for example, should be avoided. If the limits of use specified in these instructions are exceeded or if the valve is used on applications for which it was not designed, a potential hazard could result.

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## Layout and Siting

It should be considered at the design stage where valves will be located to give access for operation, maintenance or repair.

These drain taps may be installed in any orientation but attention should be paid to surrounding structures, ensuring that the hose may be easily connected and that the valve operation is not impaired.

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## Installation

Valves must be installed into a well-designed system and it is recommended that the system be inspected in accordance with the appropriate member state legislation. Prior to installation, a check of the body marking must be made to ensure that the correct valve is being installed.

Valves are precision manufactured items and as such, should not be subjected to misuse such as careless handling, allowing dirt to enter the valve through the end ports, lack of cleaning both valve and system before operation and excessive force fitting and operation. All special packaging material must be removed.

Immediately prior to valve installation, the pipework to which the valve is to be fastened should be checked for cleanliness and freedom from debris.

The valve ends are threaded parallel therefore the valve must be fully tightened up to the body shoulder. Sealing compounds appropriate to the application may be used and a sealing washer on the body shoulder will provide additional security. The spanner must only be located on the valve hexagon at the threaded end to avoid distortion of the valve.

After installation, the valve may be opened and closed fully to confirm satisfactory operation. Sealing compounds may be used but excessive use of hemp type materials should be avoided, which increases the thread interference and may cause oversteering.

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## Operating

### Fig.370

Open the valve by anti-clockwise rotation of the stem using a suitable spanner or key until a positive stop is felt. No further effort is necessary.

To close the valve, rotate the stem clockwise until a positive stop is felt.

**Note:** The operator should use suitable hand protection at extreme temperature conditions.

### Fig.371

Open the valve by anti-clockwise rotation of the stem using a suitable lockshield key until a positive stop is felt.

**Key Refs:** ½" valve (Fig.391 Ref 2), ¾" valve (Fig.391 Ref 3) and 1" valve (Fig.393 Ref 6).  
No further effort is necessary.

To close the valve, rotate the stem clockwise until a positive stop is felt.

**Note:** The operator should use suitable hand protection at extreme temperature conditions.

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## Maintenance

The valve should be at zero pressure and ambient temperature prior to any maintenance.

Maintenance Engineers and Operators are reminded to use correct fitting tools and equipment.

A full risk assessment and methodology statement must be compiled prior to any maintenance.

The risk assessment must take into account the possibility of the limits of use being exceeded whereby a potential hazard could result. A maintenance programme should therefore include checks on the development of unforeseen conditions, which could lead to failure.



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FM311 ISO 9001

- Designed and manufactured under quality management systems in accordance with BS EN ISO 9001:2008

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