General Suppliers

DZR Brass Draining Cock PN20

MV450 - 2

Installation & Maintenance Instructions

CE MARKING AND THE PRESSURE EQUIPMENT DIRECTIVE 97/23/EC

This has been implemented in United Kingdom law by the Pressure Equipment Regulations 1999 (SI 1999/2001).

The regulations apply to all valves with a maximum allowable pressure greater than 0.5 bar.

Valves with a maximum allowable pressure not exceeding 0.5 bar are outside the scope of the Directive.

Valves are categorized in accordance with the maximum working pressure, size and ascending level of hazard, which is dependent on the fluid being transported.

Fluids are classified as Group 1, dangerous fluids or Group 2, all other fluids including steam. Categories are SEP (sound engineering practice) and for ascending levels of hazard, I, II, III or IV. All valves designated as SEP do not bear the CE mark nor require a Declaration of Conformity.

Categories I, II, III or IV carry the CE mark and require a Declaration of Conformity

(Note- all valves up to and including 25mm (1”) having a maximum allowable pressure greater than 0.5 bar are designated SEP regardless of fluid group).

THE ATEX Directive 94/9/EC

These drain taps are excluded from the ATEX Directive since they have no source of ignition, should not be installed in potentially explosive atmospheres and should only transport Group 2 non-hazardous liquids.

PRODUCT LIFE CYCLE

The life of the drain tap is dependent on its application, frequency of use and freedom from misuse.

The properties of the fluid being transported such as pressure and temperature must be taken into account to avoid premature failure.

Other factors to be considered are the electrolytic interaction between dissimilar metal used in the system, dezincification and stress corrosion cracking occurring on chilled water service.

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 drain tap.

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LIMITS OF USE

These products are categorized as SEP for Group 2 Liquid, but are not necessarily suitable for all fluids in this group.

These valves shall not use on Group 2 Gases and Group 1 Liquids.

Operating pressures and temperatures

Maximum non shock pressure and temperature range:

20 bar from -10˚C to 120˚C

Water hammer and other shock conditions should be avoided. Not suitable for fatigue loading, creep conditions, fire testing, fire hazard environment, corrosive service or transporting abrasive solids.

Warning: The maximum surface temperatures are given above. Care should be taken when operating the valve at these temperatures, to avoid severe burns to the skin.

PRESSURE / TEMPERATURE RATING

These drain taps must be installed in a piping system where the normal pressure and temperature do not exceed the above ratings.

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.

LAYOUT AND SITING

It should be considered at the design stage where strainer ball valve will be located to give access for operating the ball valve and routine inspection.
Drain taps should be fitted at the lowest point of the section of pipe work to be drained.
Access must be available to connect a hose to the profiled outlet and a suitable drain must be available for the discharging water to prevent flooding the area.

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INSTALLATION

Drain taps are precision manufactured items and as such, should not be subjected to misuse such as careless handling, allowing dirt to enter through the end or discharge ports, lack of cleaning the system before operation and excessive force during installation.

All special packaging material must be removed.

The drain tap connection thread is tapered to BS EN 10226.

It is common practice to apply thread sealing compounds appropriate to the application but excessive use should be avoided, since this increase thread interference and may cause overstressing.

The spanner must only be located on the body hexagon at the threaded end to avoid distortion of the body.

OPERATION

Connect a hose to the profiled discharge outlet and direct towards a suitable drain.
Open the drain tap 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.

MAINTENANCE

MV450 – 1, drain taps should have a long period in service before maintenance is required.

These drain taps can be refurbished by fitting a new elastomeric seat washer and stem seal.

If the seat washer or stem seal requires replacing this necessitates a complete system or section drain down.

The drain tap should be at zero pressure and ambient temperature prior to removing the disc/stem assembly.

Use correctly fitting spanners on the hexagon of the body and end cap to remove the disc/stem assembly. Use only genuine Maplef spares.

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