



General Suppliers

Bronze Y – Strainer PN20

MV70 - 116

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 Y pattern strainers 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 valve 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 valve.



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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:

MV70 – 116 20 bar from -10°C to 100°C
 9 bar at 180°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 strainers must be installed in a piping system where the normal pressure and temperature do not exceed the above ratings.

If system testing will subject the strainer to pressures in excess of the working pressure rating, this should be within the test pressure for the body.

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 will be located to give access for routine inspection and cleaning the strainer element.

Isolation valves should be fitted immediately upstream and downstream to allow the strainer to be isolated, drained and the strainer element removed for cleaning.



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INSTALLATION

Prior to installation, a check of the identification plate and body marking must be made to ensure that the correct valve is being installed.

Maplef 'Y' strainers are manufactured to high quality standards and should not be subjected to misuse.

All special packaging material must be removed.

If strainers are installed in horizontal pipe work the part of the body housing the strainer element must hang below the pipe.

The direction arrow cast on the body must be coincident with the direction of flow in the pipeline.

For vertical pipe work the flow direction must be downwards.

For the purpose of cleaning the strainer element and removing debris the strainer must be installed with sufficient room so that the strainer element can be withdrawn from beneath in a downwards direction.

Confirm that the pipe threading length is correct to avoid excessive penetration of the pipe into the valve which would otherwise cause damage.

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 of the body ends.

Ensure the threads are properly engaged and proceed to tighten the valve onto the pipe. The wrench must only be located on the valve end into which the pipe is being threaded to avoid distortion of the valve.

Strainers and adjoining pipe work must be provided with adequate support to avoid inducing bending stresses into the strainer body, which will impair its performance.

Immediately prior to strainer installation, the pipe work to which the strainer is to be fastened should be checked for cleanliness and freedom from debris.



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MAINTENANCE

Maplef 'Y' pattern strainers will provide a long service life provided the strainer element is cleaned regularly.

The strainer should be at zero pressure and ambient temperature before any maintenance is carried out and correctly fitting tools should be used.

Eye protection and gloves must be worn for this operation.

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

The element will require cleaning after the flushing process and periodically thereafter.

Strainer Element Cleaning

If fitted close the isolating valves.

The strainer has a screwed cap which is removed in an anti-clockwise direction to enable the withdrawal of the strainer element.

As the cap is removed there will be water loss between the two isolation points, therefore unless the pipe work has been drained at another location, a means of collecting the discharged water is recommended.

Clean the strainer element using a brush and or water jet. It is recommended that goggles should be worn during the cleaning process.

Once the strainer element has been cleaned the strainer can be re-assembled.

The strainer element and sealing gasket should be renewed if damage has occurred. Fit genuine Maplef replacement parts.

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