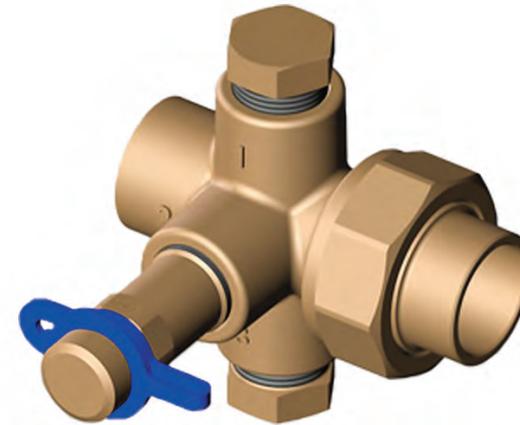


Notes:**DZR Brass Union****DZR Brass Union**

Unions provide an easily demountable facility for localised pipework and flow control items such as valves. It also provides the means of gaining access to the live system through the three ports provided, one of which is supplied complete with a P/T port.

The union is a precision manufactured product and should be handled, installed and used with care as detailed in these instructions.

Union Models

Fig. T1800 has female NPT threaded end connections as ANSI/ASME B1.20.1

Fig. S1800 has solder end connections as ASME/ANSI B16.22

Unions are supplied with a P/T port fitted.

Limits of Use

The union rating is shown in the table below and it must be installed in a system where the normal pressure and temperature does not exceed this rating.

The union is 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.

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Operating Pressure and Temperature

Model	Non-Shock Pressure at Temperature Range	Non-Shock Pressure at Max. Temperature
T1800	600 psi from 15°F(*) to 160°F	150 psi at 260°F
S1800	125 psi from 15°F(*) to 175°F	85 psi at 250°F

(*) = temperatures apply only when glycol additives used.

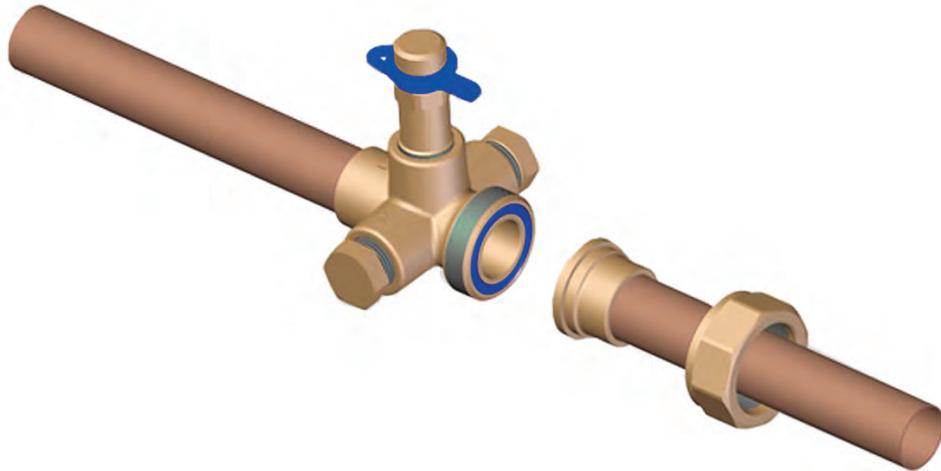
Layout and Siting

Prior to installation, it should be considered where the union will be located to allow access for slackening the union nut and insertion of a test probe.

Installation

The union is a precision manufactured product and should not be subjected to misuse. The union should only be unpacked immediately prior to installation to avoid damage or foreign particles entering through the end ports. The union and adjacent pipework should be checked for cleanliness and freedom from debris before installation. There should be no internal burrs in the pipe to be connected to the union.

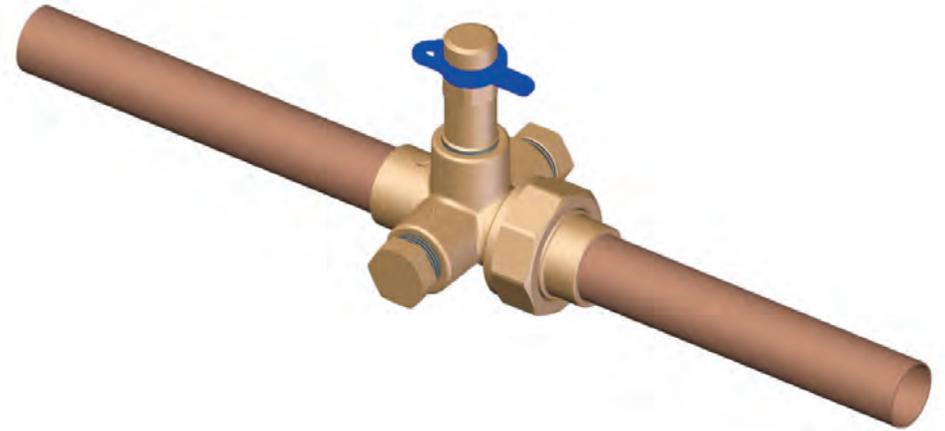
Before proceeding with the installation, the union nut and pipe connector must be removed from the body. Ensure the body o-ring does not get damaged or lost. **Under no circumstances should attempts be made to solder a Fig. S1800 union into the pipeline without first removing the union nut and solder connector from the body. This connector is soldered to the tube away from the valve. The warning label on the plastic bag should be read and understood.**



Installation Cont.

When installing threaded unions, thread sealing liquids or tape may be used on the pipe threads but excessive use should be avoided. The use of hemp-style material should be avoided since this may cause overstressing of the female ends of the union.

After the union body and pipe connector/union nut have been fitted to the pipe, the union nut may be assembled. Ensure that the body o-ring is in place. Orientate the union to the required position and hand tighten the union nut to the body, making sure the union body and pipework are in line. Using a correctly fitting wrench or spanner, further tighten the union nut ¼ turn. Excessive force is not required.



Operation

The valve is fitted with a P/T port complete with a blue coloured strap and captive cap. For safety reasons, all manometer probe insertions of the P/T port must be carried out with the system cold.

Remove the screwed cap and insert the test probe into the P/T port. A silicone oil or grease should be lightly applied to the shaft of the probe before insertion. No other type of lubricant should be used. Always re-fit the screwed cap.

Maintenance

The NIBCO® Unions Fig. T1800 and S1800 do not require any routine maintenance.