



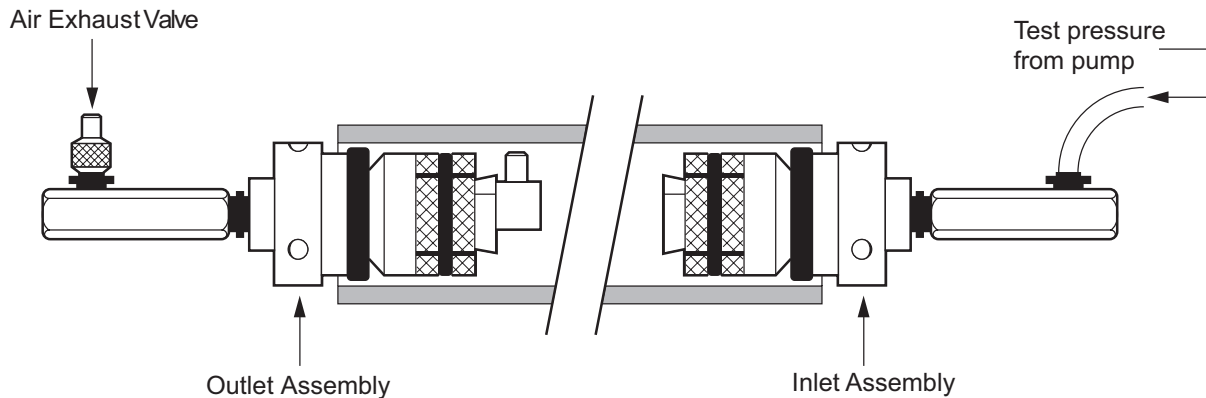
HYDROPLUGS

TYPES RS and R

Installation Manual

**Equipment for Hydrostatic Pressure Testing
of Pipework, Tubes or other Vessels with suitable Inlet Bores**

Typical Application



Range

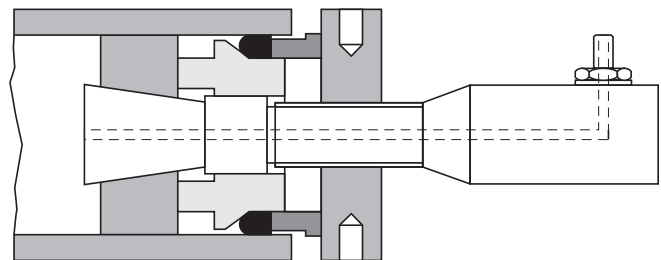
Types RS & R

Bore diameter size range:

9.5mm to 19mm (Type RS)
19mm to 310mm (Type R)

Maximum test pressure:

Varies with Hydroplug size up to 550 bar (8,000 psi).
NOTE: Under special conditions higher test pressures may be possible. Please contact Chalwyn for details.



Application:

Seal on bore of plain ended tube

Basic Concept

Traditionally the hydrostatic pressure testing of pipework, heat exchanger tubes etc has involved the use of welded on blanking plates or flange closure plates and gaskets. This can be an expensive and time consuming process and is potentially dangerous when high test pressures are involved.

The solution to this problem is provided by the Chalwyn Hydroplug.

The Chalwyn Hydroplug enables an easy way to make a pressure tight connection to an unmodified plain or flanged pipe or tube end. The Hydroplug

incorporates ports to both introduce and pressurise the test fluid and allow air to be vented from the system.

Application

Hydrostatic pressure test of tubes, pipes or other vessels with suitable inlet bores.

Testing

Normally, Chalwyn Hydroplugs are employed in pairs, one at each end of the pipe or tube to be pressure tested. The twin seal type is used singularly.

The correct specification Hydroplugs are selected from the range available to suit the format, diameter and wall thickness of the assembly to be tested.

After ensuring the component to be tested is free from any sharp edges likely to damage the Hydroplug seals, the Hydroplugs are inserted into

the bore. Once tightened in position, the test fluid is introduced through the port provided in one Hydroplug expelling trapped air via the air vent in the second Hydroplug. Test pressure can then be gradually applied, the air vent being closed once signs of air escape cease.

After testing is complete and the test pressure released, the Chalwyn Hydroplugs are removed for inspection and made ready for the next test application.

System Features

- Efficient, cost effective and safe method of pressure testing pipework and tubes.
- Equipment to be tested does not need to be modified or fitted with special flanges or blanking plates.
- Suitable for both flanged or plain end pipes or tubes.
- Covers a range of entry diameters from 6mm to 310mm.
- Custom designed Twin-Seal type for special applications.
- Special support collars available for thin wall tube.
- Easy to introduce test fluid.
- Facility for air venting.
- No special tools required.
- Operators easily trained.
- Immediate availability of Hydroplug for re-use.
- Full spares back up from Chalwyn.

SAFETY

Always consult the Chalwyn "Selection, Application and Maintenance" Manual for the specific type of Hydroplug before carrying out test work. Observe the requirements of HSE Guidance Note GS4 - Third Edition when pressure testing. Only Group II liquids should be used.



Chalwyn by AMOT
sales@chalwyn.co.uk
www.chalwyn.co.uk

A division of Roper Industries Limited

UK

Western Way
Bury St Edmunds
Suffolk, IP33 3SZ
Tel: +44 (0)1284 715739
Fax: +44 (0)1284 715747

USA

8824 Fallbrook Drive
Houston
TX 77064
Tel: +1 (281) 940 1800
Fax: +1 (281) 668 8802

