

- technical information

Water fittings

The range of water fittings have been designed to meet the requirements of EN 200 (Specification for the performance of draw off taps with metal bodies for water service).

SPECIFICATION

Brass DIN 17660 with sealing in EPDM and PVDF. Wrist operated fittings have ceramic headwork's made of Al-oxide.

Most water fittings are delivered with plastic (PP) hose nozzles.

Handles of chemical resistant polypropylene, coloured to match the service medium in accordance with EN13792-2002.

All fittings are protected by a surface treatment of Polyester powder coat which is highly resistant to most chemicals.

Outlets

Serrated plastic nozzles (fixed or removable) suitable for 8 mm to 13 mm ID rubber tubing or aerator are fitted on request.

Inlet connections

All single water and mixer fittings that have "-52H" at the end of the item number are delivered with 700 mm flexible SPX hose with OD15 mm inlet connection.

Installation

Installation of fittings can be done either with flexible hoses or compression ring fittings. Please request documents 99G0005 and 99G0004 for more information.

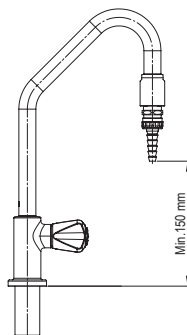
It is a condition of Approval of the XL range of Labtaps that the following information is given to our customers: "Supply shall be by gravity from a cistern by means of a distributing pipe which does not supply any other fitting at a lower level" (IRN 105) (Byelaws 22 and 25)

All water systems should be thoroughly flushed before use.

All fittings are delivered with easy-to-mount anti-rotational mounting kit.

AUK3 regulations

Check with local water board their requirements regarding AUK3 back flow prevention regulations. It is required that a minimum of 150 mm be maintained between the lowest point of the air aperture of the DC device and free discharge of spillover level.



Testing

All fittings are tested and inspected before dispatch.

Maximum design working pressure is 1000 kPa (10 bar).

The maximum installation test pressure is 1000 kPa (10 bar).

Single Water Fittings

All swanneck fittings are supplied with a FIXED plastic nozzle with exception for those with pipe interrupter, which are delivered with a removable hose nozzle.

All fittings coded according to EN13792-2002 (please refer to page 3 for media coding).

Mixer Fittings

A balanced tank storage water supply for BOTH hot and cold services is required for all non-divided flow mixer fittings.

Direct mains cold water supply may ONLY be used with the XL1223 (divided flow) mixer.

NOTE: Maximum Test Pressure: 1000 kPa (10 bar).

Maximum Working Pressure: 1000 kPa (10 bar).

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Special Water Fittings

SPECIFICATION

These fittings are suitable for de-ionised, distilled, de-mineralised and R/O types of pure water. They can be used with other media that should not be in contact with nonferrous metals (ask for details).

Materials

The materials that are in contact with the media are POM, PE and EPDM. On recirculation fitting the material is ABS. (We can supply these fittings in PP or Stainless Steel if required), and like all other fittings they have the Polyester finish to protect from chemicals.

Mounting

The recirculation valve requirements should be discussed with the special water supplier.

Testing

All fittings are tested and inspected before dispatch.

Maximum working pressure is 1000 kPa (10 Bar).

Maximum test pressure is 1000 kPa (10 Bar).

Laboratory furniture companies should always liaise with the installer of the pure water systems to ensure the fittings are compatible with the rest of the system.

When the system is completed it should be flushed for up to 3 hours to remove any swarf and glue from the installation.

Drop Lever Gas Cocks

*XL 1256, 1258, 1263, 1264, 1265, 1267
(Supplied with 1/4" BSP SHANK)*

SPECIFICATION

Outlet Connections: Fixed serrated nozzles suitable for 8 mm to 13 mm ID rubber hose.

Inlet Connection: 1/4" BSP shank by 65 mm.

Construction: Fire safe plug cocks of brass constructed using grease suitable for Natural Gas and LPG.

Installation

Supply pressure should be in the range from 1.5 kPa to 5 kPa.

A qualified installer should be used. LPG supplies should be regulated locally in order to prevent pressure surges.

NOTE: The maximum possible pressure should never exceed 5 kPa.

Connection:

Fitting connection is a 1/4" BSP male threaded shank 65 mm long. The connection end of the shank is designed to fit 8 mm BS 27871 Table X tubing using a compression nut.

NOTE: The use of compression fittings, if used for domestic gas or LPG, should be in accordance with gas board regulations.

Testing

All drop lever gas cocks components are tested at 135 kPa before despatch (based on BS 1552). Finally assembled drop lever gas cocks are tested at 13,8 kPa. Installation test pressures on systems incorporating drop lever gas cocks should NOT EXCEED 13,8 kPa otherwise the lubricant will be blown out and the cocks may leak.

A competent Gas Engineer should always test Natural Gas installations.

Leakage should be checked using soap and water or trapped pressure drop over 15 minutes.

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Burning gas “lift/turn” fittings

XL 20-Series
(Supplied with 1/2" BSP SHANK)

SPECIFICATION

Outlet Connections: Fixed serrated metal nozzles suitable for 8 mm to 13 mm ID rubber tubing.

Installation

Installation can be done either with flexible hoses or compression ring fittings.

Please request documents 99G0005 and 99G0004 for more information.

Construction: Brass body.

Seals: Nitrile.

Testing

All fittings are tested and inspected before dispatch.

Maximum design Test Pressure: 1000 kPa (10 bar).

Maximum design Working Pressure: 700 kPa (7 bar).

Technical Gas, Burning Gas, Vacuum and Oxygen Valves

SPECIFICATION

Materials

Brass DIN 17660 with Viton sealing & PVDF. Fittings for technical gases and vacuum are delivered with plastic (PP) hose nozzles.

The 4.0 grade Oxygen valves are specially cleaned and have Oxygen-approved lubricant.

Handles are moulded in chemical resistant polypropylene coloured to match the service medium in accordance with EN 13792:2002

Inlet connections:

All fittings for dry services that have “-52H” at the end of the item number are delivered with 700 mm flexible hose with OD15 mm inlet connection. Hoses are manufactured from materials compatible with specific media types (please request document 99G0005 for more information)

Installation

Installation of fittings can be done either with flexible hoses or compression ring fittings. Please request documents 99G0005 and 99G0004 for more information.

Outlets

Serrated fixed nozzles suitable for 8 mm to 13 mm bore rubber tubing, and if the nozzle is removed a 3/8" female connection is available.

Important Note

Oxygen service valves are specially cleaned, lubricated and packed in sealed plastic bags. USE ONLY SPECIFICALLY CONSTRUCTED FITTINGS FOR OXYGEN.

Max Pressure & Testing

All fittings are leak tested before leaving the factory.

For maximum pressure levels see specifications on page 5-7.

Purging of new installations with compressed air or nitrogen is recommended to clean the system.

Medical gas cleanliness for Oxygen fittings

Oxygen (or other grade 4.0 clean technical gases) lines require purging with grade 4.0 Nitrogen in order to avoid contamination.

Hazardous or aggressive gases (a.o. ammonia) may require special fittings. For advice please consult us.

The gas supply should be clean, and free of contamination.

Vacuum taps can be fitted with flow restrictors to help balance the system.

Supply pressure for gases should be reduced to at least 1.4 Bar from the supply cylinder, for safety reasons (ref BS3202: 1959 “recommendations on Laboratory furniture and fittings”).

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