Plumbing Systems

Quick Connect Plumbing System

Whale Quick Connect fittings ensure a high integrity, reliable, plumbing system solution, specifically designed for use in mobile applications.

Save Time and Money by Using Whale
Quick Connect

Fittings and pipework design ensures easy installation and re-usability of components.
The simple two step installation procedure does not require special tools to make a watertight connection.

Features and Benefits

- Unique 'Double Gripper' design provides secure lifelong pipework retention even at excessive pressures
- The innovative 'cage collet' eliminates leaks where fittings are installed close to tight bends
- Collet has internal support ring ensuring o ring seal is held in position and does not distort or leak under pressure
- High integrity single piece moulding improves the strength of the fittings
- Outer sleeve incorporates collet cover, thus preventing accidental pipework release
- Collet clips are not necessary and therefore reduce installation time
- Pipework includes measured cut marks, designed to be a visual guide to ensure that fittings are pushed fully home

Whale Quick Connect Semi-Rigid Pipework

Whale Quick Connect colour coded semi-rigid pipework is available in 12 mm, 15 mm, and 22 mm sizes in standard or high performance (Whalex) PE materials. The pipework's flexibility enables tight bends to be formed, hence reducing both the number of fittings and time required at installation. Whale Quick Connect semi-rigid pipework offers the integrity of metal, but the usability of plastic, and is fully tested and recommended for use with the complete range of Whale fittings (see pages 82-83).

Minimum Bend Radii Recommendations

All grades of Whale Quick Connect semi-rigid pipework are flexible and can be bent into a tight radius to facilitate easy installations.
This reduces the number of fittings required and the cost of the total water system.

Whale Tubing	Minimum Bend Radius
15mm	75mm

This product is protected by the following granted patents: United States Patent No. US 6,349,978; German Patent No. 69810350.5 (EP(DE) 1 032 785); French Patent No. FR 1 032 785; United Kingdom Patent No. GB 2 331 564; and Dutch Patent No. NL 1 032 785.

Installation Guide

Step 1 Cut pipework to length by making a straight clean cut using Whale cutters WX7950 (WX7951-USA only) (see **fig.1**)

Step 2 Simply push the pipework length into the fitting to the second internal stop (see **fig. 2**)

Step 3 To release pipework: Push back the grey collet into the fitting, then hold the collet in and pull out the pipework length (see **fig. 3 and 4**)

Fig 1

Fig 3

Fig 2

Fig 4

The Whale Quick Connect products are protected by the following patents
UK Patent Number: 2331564, European Patent Number: 1032785
USA Patent Number: 6349978

Materials	
Whale Quick Connect Fittings	Glass-filled Polypropylene
Whale Quick Connect Pipework	Polyethylene

Recommended Maximum Operating Conditions	Maximum Pressure	Maximum Temperature
Hot Water	6 bar (90 psi)	65ºC (150 ºF)
Cold Water	12 bar (180 psi)	20ºC (68 ºF)

	Minimum Bend Radius
Quick Connect 15 mm Pipework	75 mm

Minimum Storage Temperature

The minimum dry storage temperature is -40 ºC (-40 ºF)

Note: It is vital that the system is fully winterized to prevent frost damage.

⚠ WARNING **WARNING:** Temperature Settings – To prevent scalding, (regardless of the water heating method or the control devices used), the temperature for the hot water supplied to the faucets and showers should be controlled in the range of 50 ºC to 60 ºC (110 º F to 140 º F) with a fail safe set at 82 ºC (180 ºF).

CAUTION: Ideally, the temperature should be set at 46 ºC (115 ºF) for health and safety reasons, higher settings will increase the risk of scald injury. Those at greatest risk of scald injury include children, the elderly, disabled, and diabetics.

Fail Safe Controls

⚠ WARNING **WARNING:** In a typical marine installation, it is vital to incorporate primary and fail safe controls for water temperature and pressure. Please see list below:

PRIMARY CONTROLS:

Thermostatic Mixer Valve: WX1599B
Pressure Switch: WU7207(B) - In-Line Pressure Switch or included in the Universal Pressure Pump (see page 76)
Pressure Regulator: WX1595B - Pressure Relief Valve - 6 bar $^1/_2$" Female
Expansion Vessel: Accumulator Tank

FAIL SAFE CONTROLS:

WX1595B - Pressure / Temperature Relief Valve
(For typical installation of these necessary controls see page 47)
(For a full list of our part numbers see pages 82-83)
(For advice on specific installation requirements contact Whale - see contact details)

Note: The patented Whale Plumbing System is specifically designed to be use in "mobile" applications. Whale Quick Connect fittings and Whalex pipework (any) are covered for 10 years from date of purchase (except WX1599). For use with Whale plastic tubing and grooved stems only.

Quick Connect Pipework and Fittings

15 mm

WX1502(B)
15 mm Equal Tee

WX1503(B)
15 mm Equal Elbow

WX1504(B)
15 mm Equal Straight

WX1508B
End Plug (Brass)

WX1509B
Stem Adaptor 12 mm – 15 mm

WX1511B
Stem Adaptor 11 mm – 15 mm

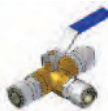**WX1520B**
Adaptor 15 mm Female
15 mm Compression Fitting
(Brass)

WX1521(B)
Stem Tee

WX1522(B)
Stem Elbow

WX1546B
End Stop

WX1571(B)
3 Way Valve (Brass)

WX1573B
Shut-off Valve (Brass)

WX1574(B)
Shut-off Valve

WX1575B
Stem Shut-off Valve (Brass)

WX1576B
Stem Shut-off Valve

WX1577B
Stem Ice Maker Fitting (Brass)

WX1578B
Stem Ice Maker Fitting With
15 mm Equal Tee (Brass)

WX1582(B)
Check Valve - Non Return
Valve (Brass)

Threaded ³/₄"

WX1516B
Adaptor ¾" BSP Male

WX1542(B)
Adaptor ¾" BSP Female

WX1552B
Adaptor ¾" Garden Hose Thread
(Green) Female

WX1568B
Adaptor ¾" Male - ½" Male (Brass)

Threaded ³/₈"

WX1538 / CS1538B
Adaptor ⅜" BSP Female

WX1538B
Adaptor ⅜" BSP Female (Brass)

WX1539B
Stem Adaptor ⅜" Female (Brass)

WX1563(B)
Stem Adaptor ⅜" NPT Male (Brass)

WX1583B
Adaptor ⅜" BSP Male

Threaded ¹/₂"

WX1080B
Adaptor ½" BSP Male - 10 mm
Compression Fitting (Brass)

WX1513B
Adaptor ½" NPT Male (Brass) -
15 mm

WX1514B
Adaptor ½" BSP Male - 15 mm

WX1515(B)
Faucet Tail Assembly Adaptor ½"
BSP Male - 15 mm

WX1519B
Flexible Heater Connector ½" NPT
Male ½" BSP Female
Length - 350 mm (14")

WX1524(B)
Stem Adaptor ½"
NPT Male (Brass)

WX1531(B)
Elbow Adaptor ½" BSP
Female - 15 mm

WX1532(B)
Adaptor ½" Female - 15 mm

WX1533B
Adaptor ½" BSP Female (Brass) -
15 mm

WX1534(B)
15 mm Stem with None Return Valve
Adaptor ½" NPT Male (Brass)

WX1536B
Adaptor ½" BSP (Green)
(Short Wings) Female

WX1567B
½" NPT Male - ½" BSP Male
Shower Bulkhead Adaptor (Brass)

WX1587(B)
Stem Adaptor ½"
BSP Male - 15 mm

Part Numbers Explanation:

B Suffix: refers to items available only in bulk packed quantities for high volume production OEM use

(B) Suffix: refers to items available in either retail packaging (e.g. WX1502) or in bulk packed quantities for high volume production OEM use (e.g. WX1502B).

Flexible Hose Fittings ½"

WX1544(B)
½" Hose Connector (Brass)

WX1584(B)
Stem Adaptor ½"
Flexible Hose Male

WX1585B
Tee ½" barb X ½" barb X ½" barb

WX1586B
Tee ½" barb X 15 mm WX X ½" barb

WX1591(B)
Stem Elbow ½" Flexible Hose

Flexible Hose Fittings ¾"

WX1555B
Tee ¾" barb X ¾" barb X ¾" barb

WX1556B
Tee ¾" barb X 15 mm WX
X ¾" BARB

WX1557B
Tee ¾" barb X ½" barb X ¾" barb

WX1558B
Tee ½" barb X ½" barb X ¾" barb

WX1592(B)
Stem Elbow ¾" Flexible Hose

WX1593(B)
Stem Adaptor ¾" Flexible Hose

WX2259B
Adaptor 22 Spigot X ¾" barb

Other Connections

WX1517B
⁹⁄₁₆" X 24 UNEF Male Faucet Tail
Adaptor (Brass) suitable for Gröhe
Faucets

WX1535B
Stem Adaptor ⅛" Hose (Brass)
for Windsrceen Washer

WX1537B
Stem Adaptor ¼"
NPT Female (Brass)

WX1566B
Tank Fitting Assembly

WX2260B
End Stop 22mm Spigot

WX1528(B)
Adaptor ⅝" - 15mm

Plumbing Safety Fittings

WX1595B
Pressure Relief Valve – 6 bar
½" Female

WX1599B
Thermostatic Mixer Valve ½" Male
(Brass) 15 mm and Check Valve /
Non-Return Valve
Note: This product is covered by 1
year warranty

Flexible Hose Fittings Other

WX1548B
⅜" Hose Connector (Brass)

WX1597(B)
Stem Adaptor ⅝" Flexible Hose

Colour Coded Tubing

WX7152
Standard Semi-Rigid Pipework
15 mm Blue 10 m (33 ft)
WX7152B
Standard Semi-Rigid Pipework
15 mm Blue 50 m (164 ft)

WX7154
Standard Semi-Rigid Pipework
15 mm Red 10 m (33 ft)
WX7154B
Standard Semi-Rigid Pipework
15 mm Red 50M (164 ft)

WX7156
Standard Semi-Rigid Pipework
15 mm Green 10 m (33 ft)
WX7156B
Standard Semi-Rigid
Pipework 15 mm Green 50 m (164 ft)

WX7162B
WHALEX Semi-Rigid Pipework 15 mm
High Performance Blue 50 m (164 ft)
WX7562B
WHALEX Semi-Rigid Pipework 15 mm
High Performance Blue 152 m (500 ft)

WX7164B
WHALEX Semi-Rigid Pipework 15 mm
High Performance Red 50 m (164 ft)
WX7564B
WHALEX Semi-Rigid Pipework 15 mm
High Performance Red 152 m (500 ft)

WX7166B
WHALEX Semi-Rigid Pipework 15 mm
High Performance Green 50 m (164 ft)

WX7168B
WHALEX Semi-Rigid Pipework 15 mm
High Performance White 50 m (164 ft)

Tools

WX7950
Pipework Cutters - must be used to cut
Whale Semi-Rigid Pipework

WX1569B
Pipework Mounting Clip (White)
WX1565(B)
Pipework Mounting Clip (Black)

WHALEX Pipework is NSF61 listed and has the benefits of
a more scratch-resistant surface
and greater durability.