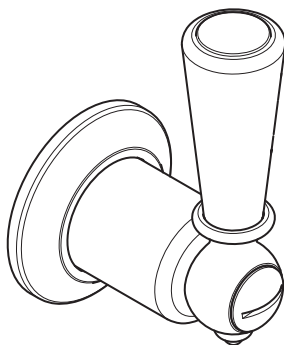
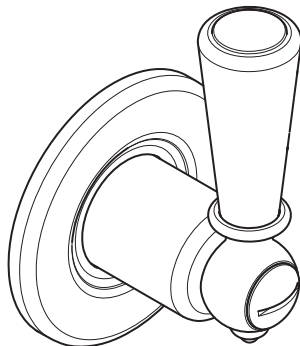


¾" WALL MOUNTED FLOW VALVES  
AND WALL VALVES FOR BATHS & SHOWERS  
INSTALLATION GUIDE

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LEFROY BROOKS



# IMPORTANT INFORMATION

## Professional installation

We recommend that our products are fitted by a fully qualified professional plumber. They should be installed correctly and in accordance with all local water regulations and the system protected by non-return valves (not supplied). All products should be accessible for routine servicing.

## Suits all systems

This Lefroy Brooks product is potentially suitable for every possible application, type of boiler and water supply pressure. However, if your supply pressure is below 1 bar it is advisable to fit a water pump. For systems with combination boilers, it is not advisable to fit pumps (refer to boiler manufacturer).

## Supply temperature safety notice

A thermostatic mixing valve (TMV) should be fitted (not supplied) to the hot supply to restrict the temperature to a safe working/ maximum temperature to comply with local building regulations, current legislation, relevant standards and codes of practice. Maximum allowed temperatures vary subject to type of installation or specification of building.

## Flushing system

It is most important to flush out all pipework thoroughly before connecting the spout. This is the single most common cause of valve/ cartridge failure.

## Supply connections

Lefroy Brooks do not supply any pipework or connections for wall or flow valves as they can be installed in a variety of configurations subject to each customer's installation design or requirement.

Connections should be made using ¾" BSP parallel connectors (not compression fittings).

## Balancing flow

When using wall valves as separate hot and cold supplies, if a significant difference in pressure exists, we advise fitting a 'flow regulator' (not supplied) to the higher or both supplies. Flow valves very often receive a mixed water supply from a thermostatic mixing valve.

Non-return valves are incorporated into Lefroy Brooks thermostatic mixing valves.

Hot and cold water valves are the same for basin, bath & shower installations. The only difference is the sliding wall plate.

## Water quality

In hard water areas, a suitable water treatment system should be provided to prevent limescale deposits (calcium deposits) which may effect the long term performance of the ceramic cartridge. Exterior surfaces should be gently wiped with a dry soft cloth after use to minimise water stains and limescale deposits.

## Servicing

All serviceable parts are available to maintain your Lefroy Brooks product.

## DEFINITIONS

### Flow valves

Water supply is from a thermostatic shower. Flow valves are used to isolate and control flow to items such as hand showers, body jets, bath spouts etc.

### Wall valves

Water supply is 'Hot' or 'Cold'. Wall valves are used to isolate and control flow to bath fillers and spouts.

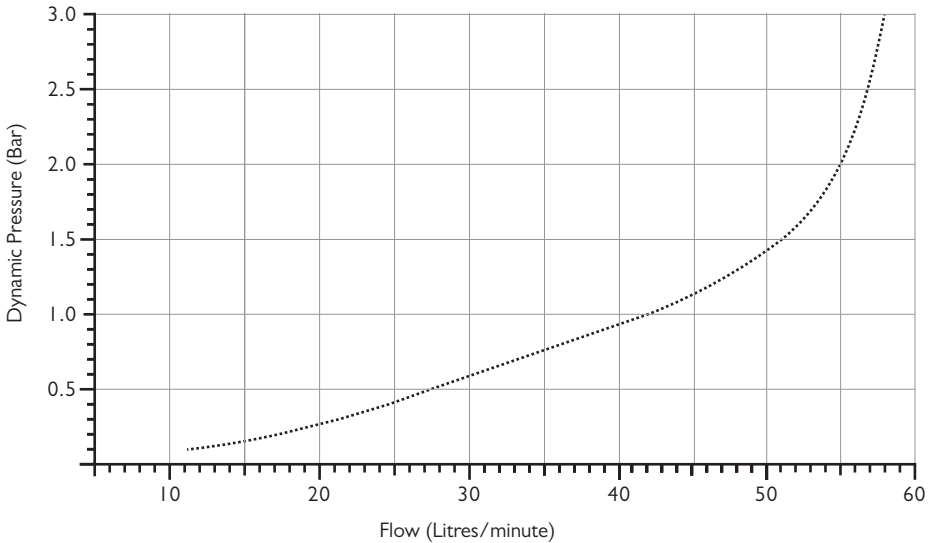
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## EXTENSION KIT

A 25mm extension kit (part number WFV9900) is available for wall and flow valves that are fitted into deep walls. This consists of a shroud and spindle extension. The kit is available for all models except Belle Aire.

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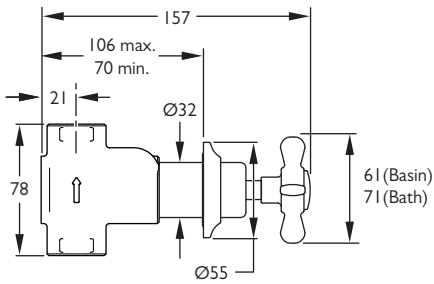
## TYPICAL FLOW RATES



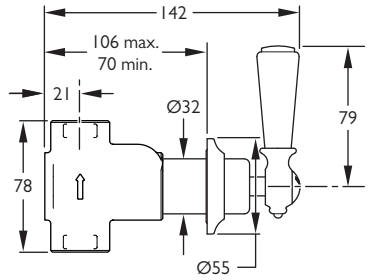
Note: The pressures shown are applied directly to the inlet; the flow rate indicated are free flowing and may vary subject to restrictions created by installation, pipework, layout or application.

# WALL VALVE DIMENSIONS

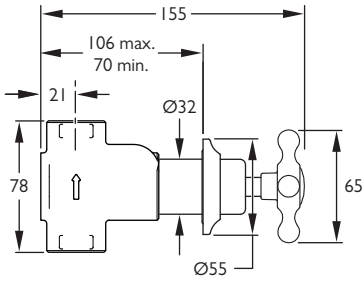
Inlets and outlets have female 3/4" BSP parallel threads. All dimensions are in millimeters (mm).



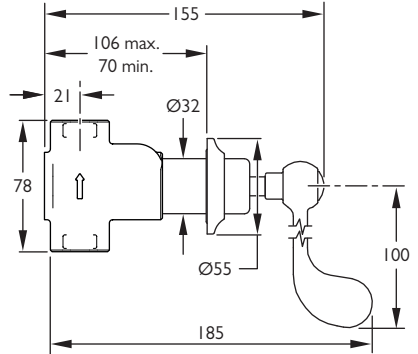
LB – Classic cross handle



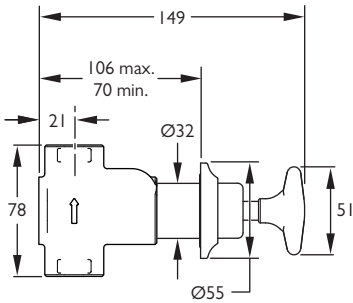
WL – White lever  
BL – Black lever  
MTL – Metal lever



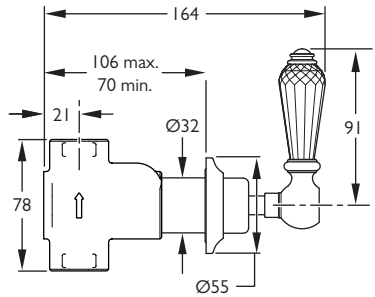
CH – Connaught cross handle



CL – Connaught lever  
(available, but not offered as standard)



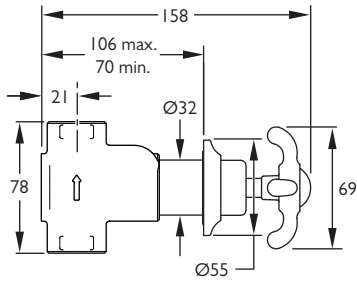
LS – Classic star cross handle



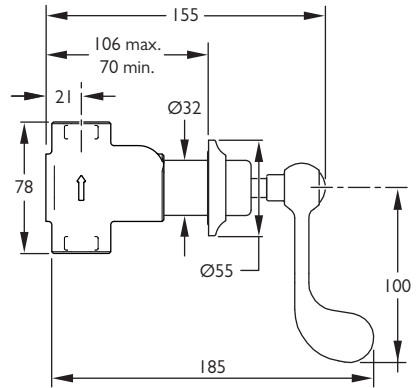
CR – Black crystal lever

Not to scale

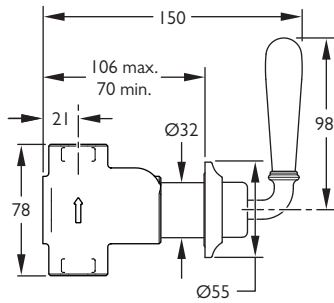
Inlets and outlets have female 3/4" BSP parallel threads. All dimensions are in millimeters (mm).



FH – La Chapelle cross handle

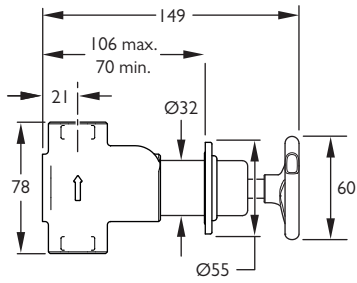


FL – La Chapelle lever  
(available, but not offered as standard)

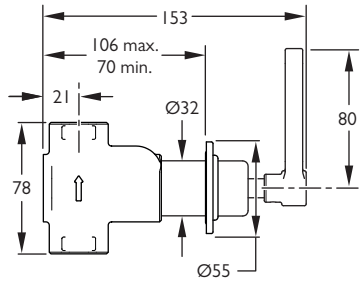


FW – La Chapelle white lever  
FM – La Chapelle metal lever  
FB – La Chapelle black lever

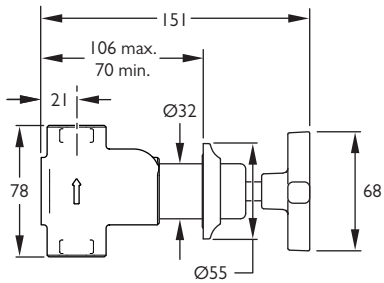
Inlets and outlets have female 3/4" BSP parallel threads. All dimensions are in millimeters (mm).



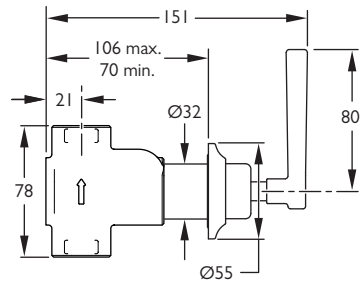
TH – Ten Ten handwheel



TL – Ten Ten lever



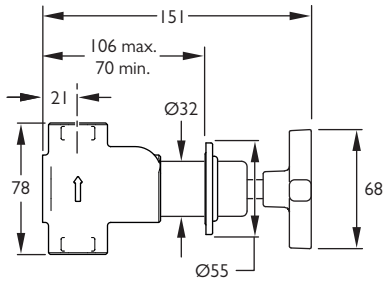
MH – Mackintosh cross handle



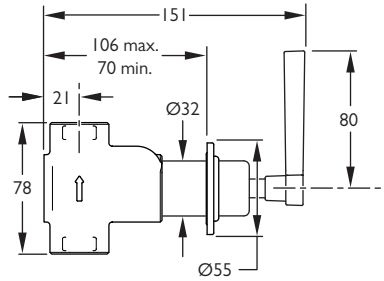
ML – Mackintosh lever  
MB – Mackintosh black lever

Not to scale

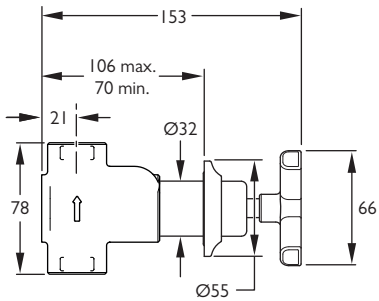
Inlets and outlets have female 3/4" BSP parallel threads. All dimensions are in millimeters (mm).



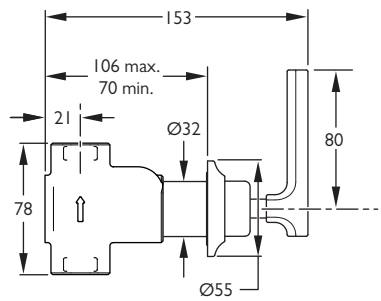
JH – Janey Mac cross handle



JL – Janey Mac lever



DH – Fifth cross handle

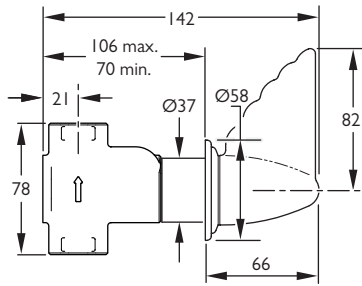


DL – Fifth lever

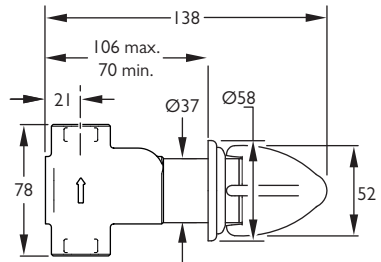
Not to scale



Inlets and outlets have female 3/4" BSP parallel threads. All dimensions are in millimeters (mm).



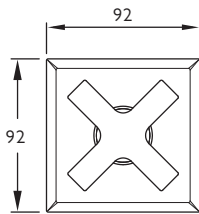
RL – Belle Aire lever



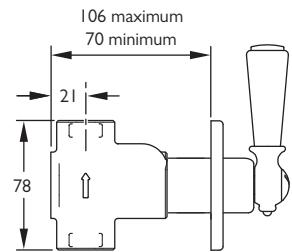
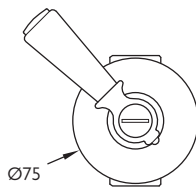
RH – Belle Aire cross handle

## FLOW VALVE DIMENSIONS

Inlets and outlets have female 3/4" BSP parallel threads.



DH & DL models only



Not to scale

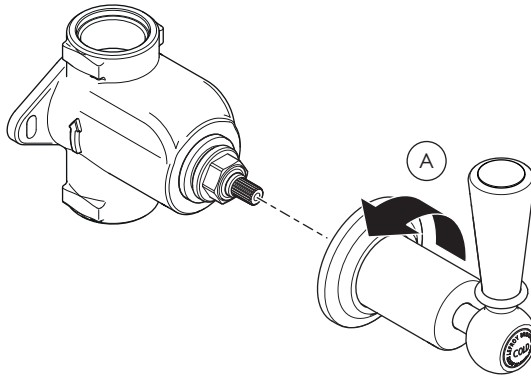
For other dimensions see 'Wall valve dimensions' section

### Notes:

Belle Aire flow valves are the same as Belle Aire wall valves, except that the red and blue 'hot' and 'cold' temperature indicators are replaced with black.

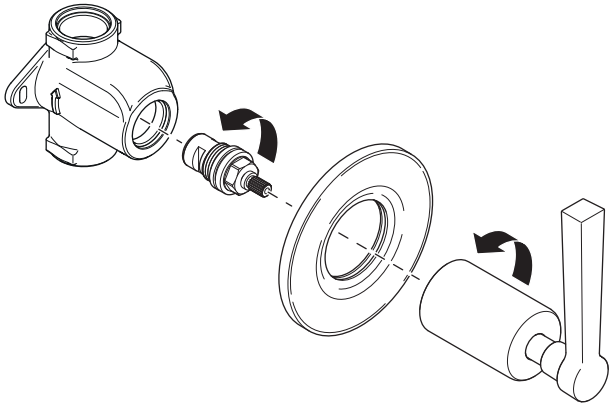
Janey Mac & Ten Ten flow valves are the same as Janey Mac & Ten Ten wall valves.

## INSTALLATION



- 1 Unscrew and remove the shroud (A). Wearing a rubber glove such as those used for washing up will improve grip. The shroud forms part of the lever/cross handle/handwheel assembly. The wall plate will remain attached to the shroud.
- 2 Locate the valve body to the mounting surface and mark the locations of the mounting holes.
- 3 Drill the mounting surface to accommodate the chosen fixings.
- 4 The valve bodies have arrows indicating the direction of flow through the valve. Ensure that the arrows are in the required direction then secure in place using the required fixings.
- 5 Connect pipes to the valve inlet and outlet using suitable fittings to suit  $\frac{3}{4}$ " BSP female parallel threads (NOT compression fittings such as nut and olive). Where soldered joints are used it is important to remove the flow cartridge from the valve body before applying heat to the valve body.
- 6 Rotate the splined end of the flow cartridge to the 'off' position. Locate and screw the shroud to the valve body.

## REPLACEMENT PARTS



### Spare cartridges (singles)

PHL044

$\frac{3}{4}$ " x  $\frac{1}{2}$  turn clockwise closing ceramic cartridges for CH, DH, FH, JH, LB, LS & MH cross handle models.

PHL042

$\frac{3}{4}$ " x  $\frac{1}{4}$  turn clockwise closing ceramic cartridges for BL, CL, CR, DL, FB, FL, FM, FW, JL, MB, ML, MTL, TH. TL & WL lever models.

PHL043

$\frac{3}{4}$ " x  $\frac{1}{4}$  turn counter clockwise closing ceramic cartridges for BL, CL, CR, DL, FB, FL, FM, FW, JL, MB, ML, MTL, TL & WL lever models.

PWV098

$\frac{3}{4}$ " x  $\frac{1}{2}$  turn clockwise closing extended ceramic cartridges with adapters for RH cross handle models.

PWV099

$\frac{3}{4}$ " x  $\frac{1}{4}$  turn clockwise closing extended ceramic cartridges with adapters for RL lever models.

PWV100

$\frac{3}{4}$ " x  $\frac{1}{4}$  turn counter clockwise closing extended ceramic cartridges with adapters for RL lever models.



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