4.1 Mounting diverter onto a surface:
(Suggested possible method, not mandatory)

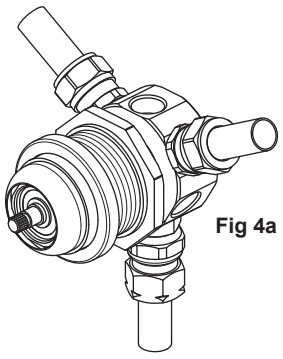
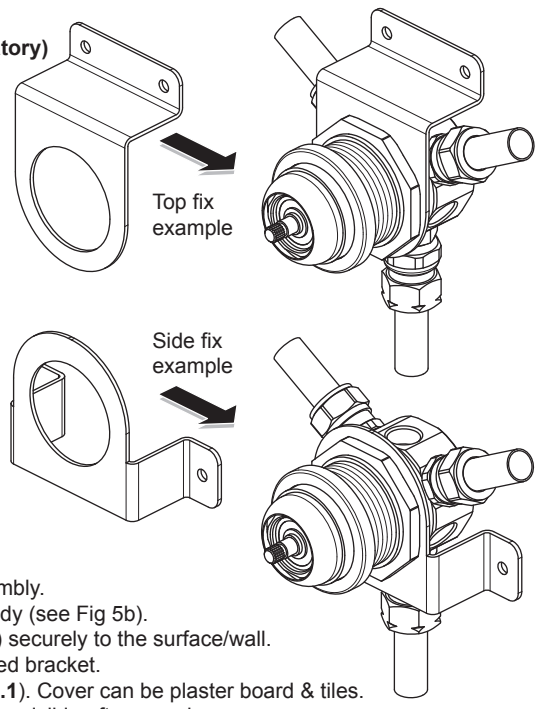


Fig 4a



The metal brackets shown are approx. 70 wide with a depth of 37. The centre hole is Ø51 with two Ø6 holes for screws. (Width on side fix version is 120).

Installation overview:
- Remove back-nut from the diverter assembly.
- Make pipe connections to the diverter body (see Fig 5b).
- Fix the fabricated bracket **(not supplied)** securely to the surface/wall.
- Tighten the back-nut against the fabricated bracket.
- Fit the covering panel (drilled Ø51, see **3.1**). Cover can be plaster board & tiles. Ensure some threads from the diverter are visible after covering.
- Fit chrome trim: secure square escutcheon plate with the threaded grip ring & then fit the handle.

4.2 Mounting diverter into a wall: (Suggested possible method, not mandatory)

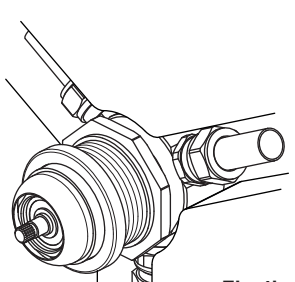
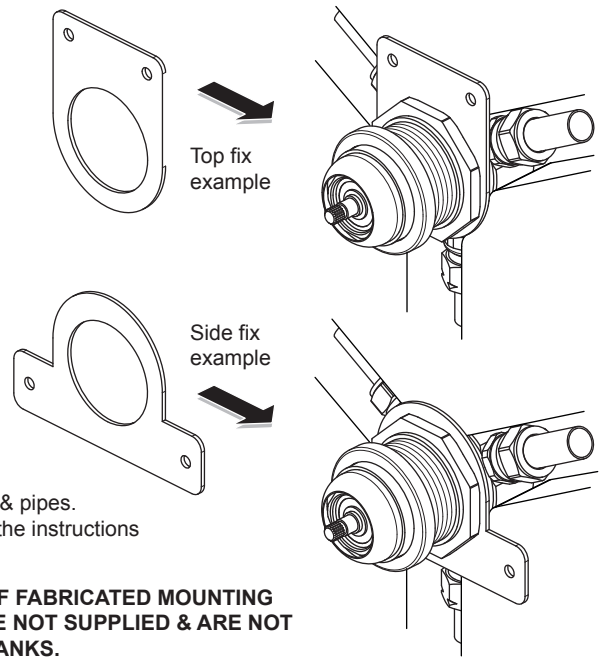


Fig 4b



The metal brackets shown are dimensionally similar to the surface mounted versions, but flat.

Installation overview:
- Chase out block-work for diverter & pipes.
- Continue installation by following the instructions for surface mounting the diverter.

IMPORTANT NOTE: EXAMPLES OF FABRICATED MOUNTING BRACKETS (SEC. 4.1 and 4.2) ARE NOT SUPPLIED & ARE NOT AVAILABLE FROM ARMITAGE SHANKS.

5 PLUMBING

Once the diverter has been firmly attached to the panel, plumbing work can commence.^
The diverter has a male threaded inlet connector pre-fitted to the main body; this is glued in position and should not be removed.

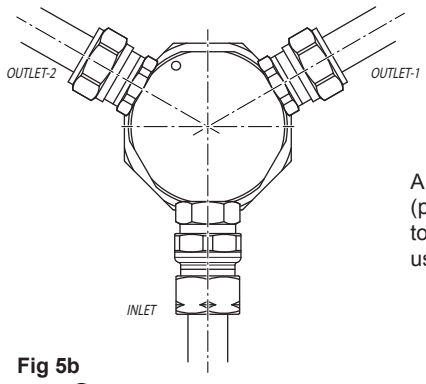


Fig 5a. Rear view of diverter showing couplers fitted.

A supply pipe from the mixing valve (premixed water) should be connected to the inlet port of the diverter body using the G1/2" male thread provided.

Fig 5b

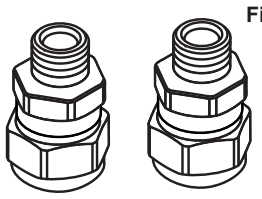


F 960871 NU

A suitable G1/2" female compression straight coupler (shown here to left) can be fitted to the male thread to permit 15mm copper pipe connection to the inlet of the diverter.

Coupler shown here is Armitage shanks short body version which includes a fibre sealing washer

Fig 5c



B 960845 NU

The two outlets from the diverter both have G3/8" female threads.Suitable G3/8" male compression straight couplers (shown here to right) can be fitted to the outlet ports to permit 15mm copper pipe connections to the diverter.

NOTE: PTFE tape should be applied to the G3/8" thread of the couplers to make a water-tight seal into the outlet ports of the diverter.

The couplers mentioned above are readily available from all good plumbers merchants. Only Armitage Shanks Doc-M packs will include this coupler kit. Couplers shown above can be purchased by contacting customer care and quoting spares codes.

Upon completion of installation, check that all connections are tight.Turn on water supply and check all joints for leaks.

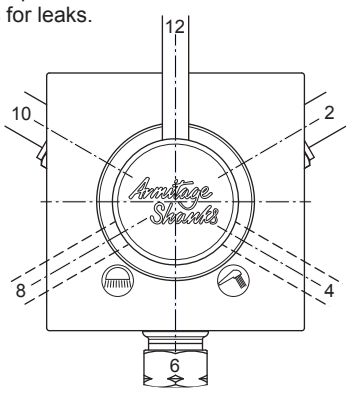


Fig 6a

6 Handle fixation

The handle body has to be orientated to achieve the correct lever positions shown in fig 6b. As mentioned in 3.6, the handle body orientation was originally guessed.
The cartridge provides six click-in positions (each 60° apart & rotates full 360°). See clock face fig 6a.
- Rotate the handle body until water flows from one of the outlets.
- With water flowing, slide handle body off the spline drive of the cartridge.

Handle body orientation cont..:
- If outlet-1 is flowing, orientate the handle body until the hole for the handle stem is aligned to "outlet-1 ON" position & vice-versa.
- Slide the handle body onto the cartridge spline.
- Rotate handle to second outlet-ON & OFF positions to check they operate correctly.

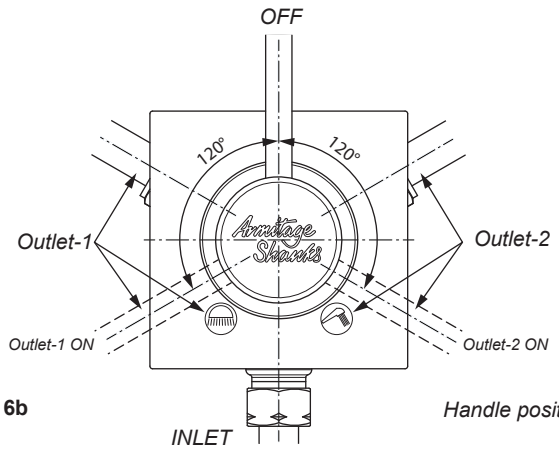


Fig 6b *Handle positions*

Handle fixation:
With the handle body correctly orientated & engaged onto the spline drive of the cartridge:
- Fit grub screw into handle body.
- Tighten the grub screw with a 2.5mm hexagonal key.
- Screw the handle stem firmly into the handle body.

7 CHROME MAINTENANCE ETC

When cleaning the fittings always use soap based cleaners. Never use abrasive or scouring powders and never use cleaners containing alcohol, ammonia, nitric acid, phosphoric acid or disinfectants.

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Armitage Shanks pursues a policy of continuing improvement in design and performance of its products.

This right is therefore reserved to vary specification without notice.

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Armitage Shanks

L6919AA Shower Diverter
two Outlets, Panel Mounted

INSTALLATION INSTRUCTIONS

WRAS APPROVED PRODUCT



IMPORTANT
BEFORE CONNECTION, FLUSH WATER THROUGH PIPEWORK TO REMOVE ALL DEBRIS ETC. WHICH COULD DAMAGE THE VALVE MECHANISM

INSTALLER: After installation please pass this instruction booklet to user

Table of Contents:

1. Product dimensions 2
2. Exploded diagram 3
3. Mounting to panel 3
4. Other mounting options 5
5. Plumbing 7
6. Handle fixation 7
7. Chrome maintenance 8

1 PRODUCT DIMENSIONS

The fittings covered by these instructions should be installed in accordance with the Water Regulations published in 1999*. Armitage Shanks strongly recommends that these fittings are installed by a professional fitter

*A guide to the Water Supply (Water Fittings) Regulations 1999 and the Water Byelaws 2000, Scotland is published by WRAS (Water Regulations Advisory Scheme) Unit 13, Willow Road, Pen-y-Fan Industrial Estate, Crumlin, Gwent, NP11 4EG.
ISBN 0-9539708-0-9

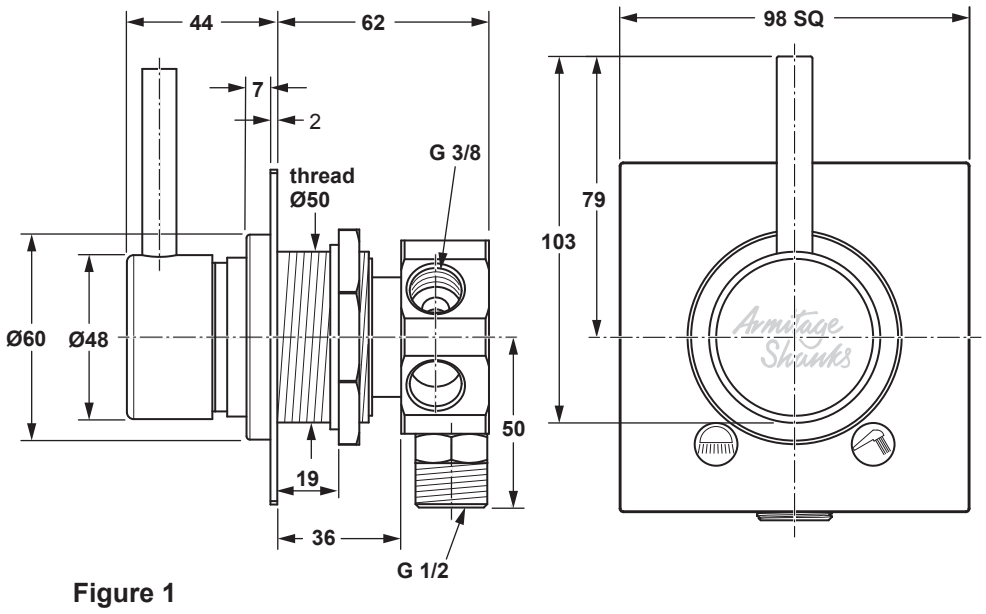


Figure 1

2 EXPLODED DIAGRAM

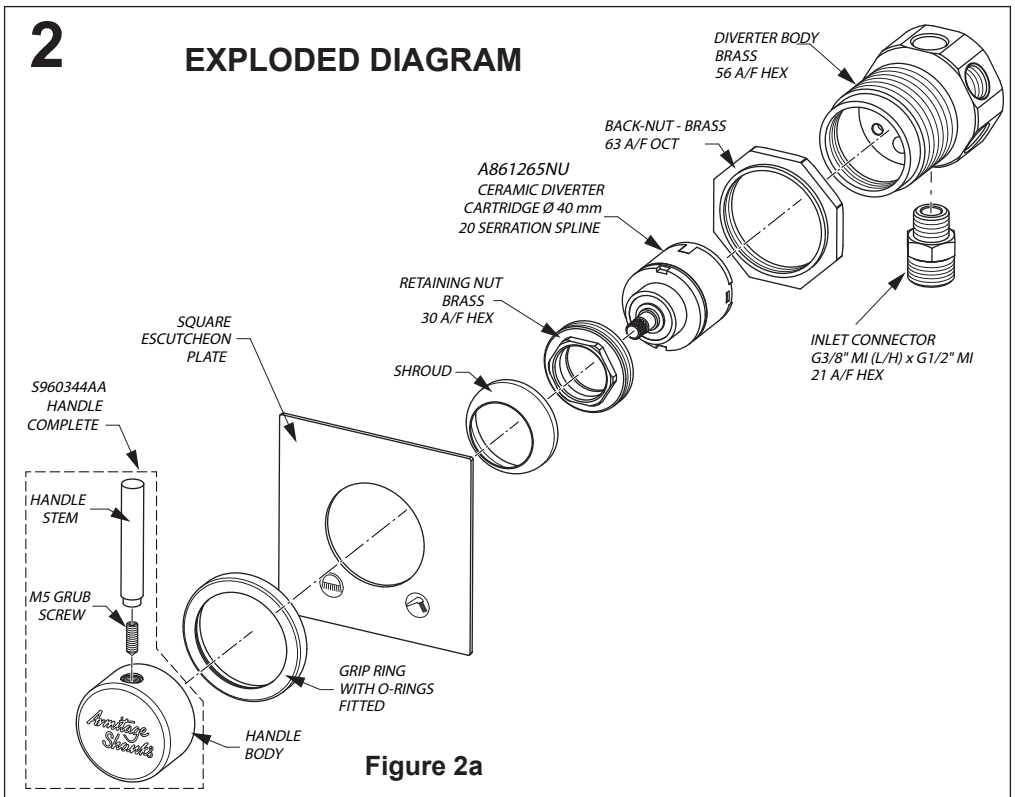


Figure 2a

Check that all the parts shown above are available. The chromed grip ring and square escutcheon plate & handle parts are will be packaged separately. The grip ring will have two o-rings fitted to it.

The remaining parts are pre-fitted to the diverter body, as shown here.

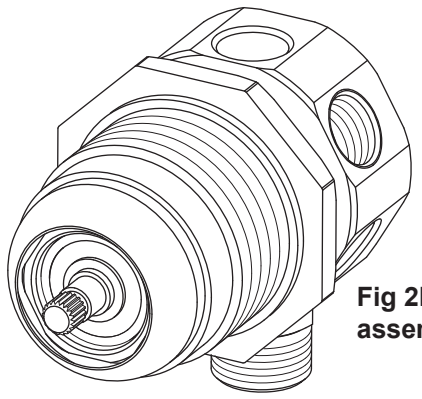


Fig 2b. Diverter valve assembly as supplied

3 MOUNTING TO PANEL

3.1 A Ø51mm (2”) hole should be drilled into the mounting panel at the desired location to permit the diverter body to pass through.

From here proceed with Option **A** or **B** depending on the panel thickness onto which the diverter is being mounted.

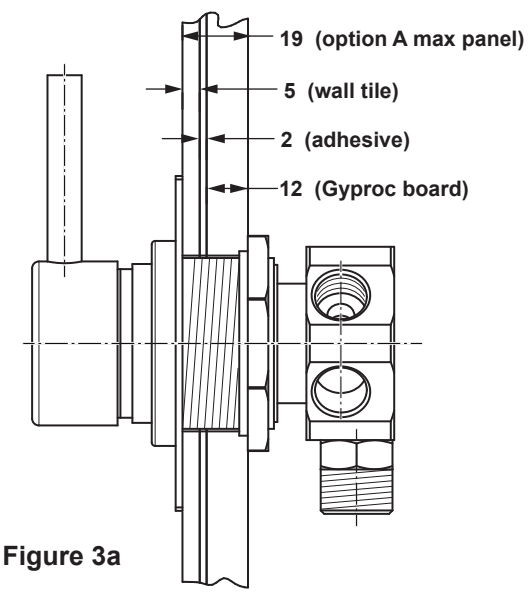


Figure 3a

OPTION A. Thin panels of 19mm or less:

Where the total mounting panel thickness is 23mm or less (including tiles and grout), the following method can be used:

3.2 Insert the diverter into the hole in the panel from the rear until it stops against the back-nut. Some threads from the diverter body should be visible at the front, if not, back-off the back-nut by a few turns. Note: inlet connector is positioned at bottom.

3.3 The square escutcheon can then be slid onto the diverter body from the front of the panel. Ensure the escutcheon is orientated correctly with symbols as shown in Fig.1.

3.4 Slide & then screw the grip ring onto the diverter body (ensure O-rings are in place). To help overcome the friction from the O-ring, wet it slightly with water. Firmly hand tighten the grip ring until it stops against the diverter body or panel.

NOTE: With the grip ring fully tightened, the gap for panel will be reduced to 16mm therefore it may be necessary to back-off the grip ring slightly to achieve 19mm. At this stage, if a thin panel is used, the diverter valve may still be loose.

3.5 The back-nut can now be tightened from the rear against the panel. Ensure the square escutcheon plate is still aligned correctly as it becomes clamped by the back-nut. The diverter body can be held steady using the machined flats (hexagonal).

Handle fixation:

3.6 Once the diverter is firmly fixed to the panel, the handle body can be fitted. At this stage, handle body orientation will be a guess. Slide handle body onto the spline drive of the cartridge. The handle body can later be adjusted to select the shower outlets & establish the correct handle orientation. Fit the lever & grub screw “after” plumbing work has been completed.

OPTION B.Thicker panels between 33-36mm:

Where the total mounting panel thickness is between 33 to 36mm (including tiles and grout), the following method can be used:

3.7 Complete 3.1

3.8 Remove the back-nut from the diverter body.

3.9 Insert the diverter into the hole in the panel from the rear until it stops against the panel. Some threads from the diverter body should be visible at the front.
Note: inlet connector is positioned at bottom..

3.10 Complete **3.3 & 3.4**. Use a strap wrench to tighten the grip ring if necessary.

3.11. If the panel is less than 33mm, then a suitable packing piece should be fixed to the rear of the panel to make up this thickness.

Otherwise the grip ring will not secure the diverter valve in the panel.

3.13 Complete 3.6

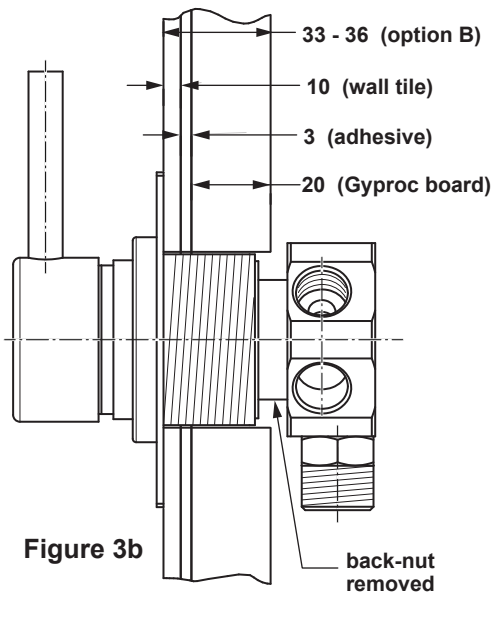
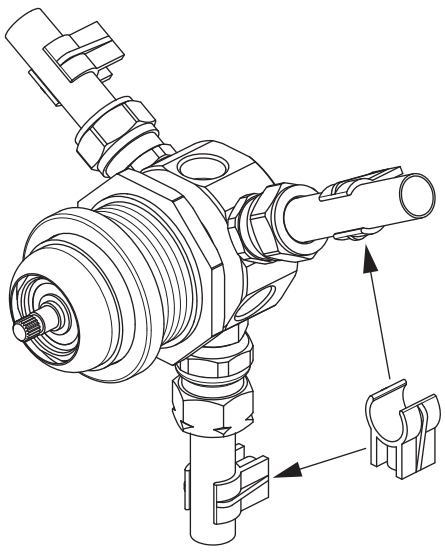


Figure 3b

4 Other mounting options



Mounting diverter onto a surface:
(Suggested possible method, not mandatory)

It is acceptable to use say three standard 15mm pipe fixing clips to secure the assembly onto a surface as shown here.

Temporarily assemble the pipes to the diverter valve. Put the fixing clips onto the pipework in a suitable location, mark these positions on the mounting surface. Securely fasten the fixing clips to the mounting surface.

The pipework can then be plumed to the diverter & secured onto the pipe clips

NOTE: Pipe fixing clips are not supplied with this product.

This diverter is primarily intended for panel mounting. However, if the installer fabricates one of the simplistic mounting brackets shown in **4.1 & 4.2**, the diverter could be mounted onto a surface or built-in into a wall cavity.

IMPORTANT NOTE: EXAMPLES OF FABRICATED MOUNTING BRACKETS ARE NOT SUPPLIED & ARE NOT AVAILABLE FROM ARMITAGE SHANKS.