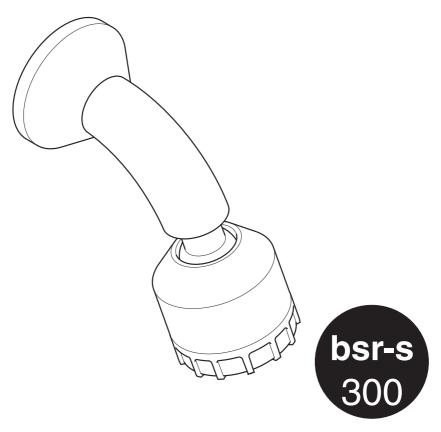


CONTROLS PRODUCT MANUAL



IMPORTANT

Installer: This Manual is the property of the customer and must be retained with the product for maintenance and operational purposes.

INTRODUCTION

The Rada bsr-s 300 is a shower fitting, precision engineered to give a satisfactory shower at pressures between 0.06 bar and 4 bar. The fitting has a short shower arm that is suitable for connection to concealed pipework and it incorporates an adjustable spray head that can deliver three different spray patterns.

DESCRIPTION

The shower fitting comprises a shower arm made from chromium plated copper alloy and a chromium plated plastic shower head. The shower arm incorporates a ball joint that allows the shower head to pivot 20 in any direction. The shower fitting is supplied complete with a metal wall plate and fixings and is suitable for installation to a solid wall, shower cubicle or laminated panel with a concealed pipework supply.

The shower head is fitted with a low capacity spray plate suitable for pressures between 0.06 and 0.09 bar. A high capacity spray plate is included to allow more flow and is recommended for use with gas water heaters.

SAFETY : WARNINGS

Rada products are precision-engineered and should give continued superior and safe performance, provided:

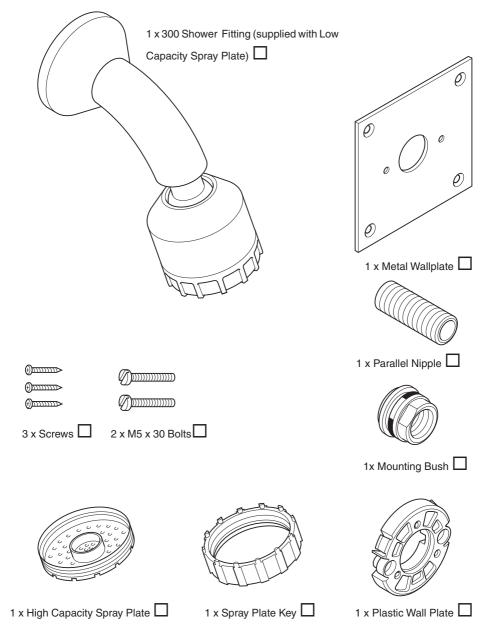
- 1. They are installed, commissioned, operated and maintained in accordance with the recommendations given in this Manual.
- 2. Periodic attention is given, as necessary, to maintain the product in good functional order. Recommended guidelines are given in the **MAINTENANCE** section.
- **3. Cleaning:** Many household and industrial cleaning products contain abrasives and chemical concentrates and should **not** be used for cleaning plated or plastic surfaces. These finishes should be cleaned with a mild washing up detergent or soap solution, and then wiped dry using a soft cloth.
- 4. **Safety:** Anyone who may have difficulty understanding or operating the controls of any shower should be attended whilst showering. Particular consideration should be given to the young, the elderly, the infirm or anyone inexperienced in the correct operation of the controls.

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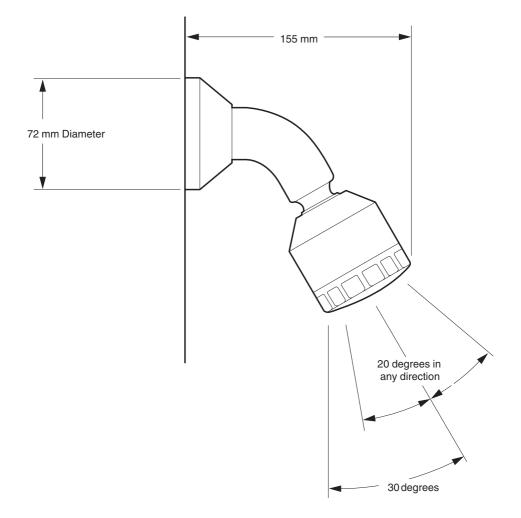
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PACK CONTENTS

Examine the contents of the pack and tick the appropriate boxes to familiarise yourself with the part names and to confirm that all parts are included.



DIMENSIONS



INSTALLATION

General

Installation must be carried out in accordance with these instructions, and must be conducted by designated, qualified and competent personnel.

- 1. Supply pipes must be flushed to clear debris before connecting the shower fittings. Layout and sizing of pipework must be such that when other services are used, pressures do not fall below the recommended minimum at the shower head causing the spray pattern to collapse.
- 2. Avoid a position in which the product could become frozen.
- **3. Do not** fit any form of flow control in the outlet pipework if the shower fitting is installed in conjunction with a product that requires the fitting to act as a vent (e.g. an electric shower).
- 4. Do not use excessive force when making connections.
- 5. Maintained pressures above 4 bar at the shower head, could result in excessive spray forces and possible product damage.
- **6**. A fixing position should be chosen to suit the installation, whether it be over a bath or shower cubicle.
- **7.** For gravity feed installations, the minimum vertical distance between the header tank and the shower head must be 0.6 metres.

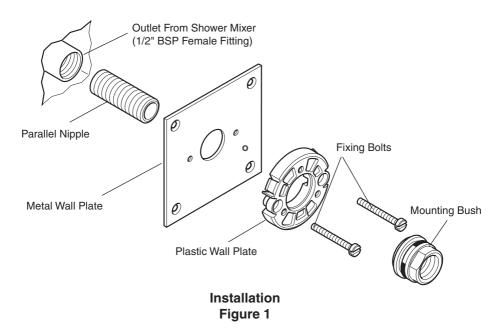
Procedure

Installation to a Solid Wall (Refer to Figures 1, 2 and 3)

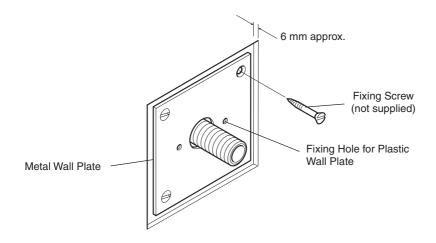
1. Joint and screw the parallel nipple into the female fitting from the shower mixer outlet.

Note! Refer to Figure 3 for the maximum projection of the parallel nipple.

- 2. Turn on the water supply and make sure there are no leaks.
- **3.** Loosely secure the plastic wall plate to the metal wall plate using the two fixing bolts. Place the metal wall plate over the nipple and screw the mounting bush onto the nipple until it locates in the recess in the plastic wall plate.
- **4.** Mark the position of the metal wall plate and the four fixing holes on the wall surface.
- 5. Remove the mounting bush and the metal wall plate. Remove the two fixing screws securing the plastic wall plate to the metal wall plate.
- 6. Drill four holes for the fixing screws (not supplied). Make a recess approximately 6mm deep to accept the metal wall plate. Make sure that there is a clearance in the wall for the two fixing bolts that will secure the plastic wall plate.



- 7. Fix the metal wall plate to the wall with four fixing screws (not supplied).
- **8.** Make good the wall surface and if required tile the surface (refer to Figure 3). Make sure that the plastic wall plate fixing holes are not obstructed.



Installation Figure 2 **9.** Refer to Figure 3. Install the plastic wall plate, making sure that the two larger holes are horizontal and one shower arm fixing hole is at the top centre. Secure with the two fixing bolts, do not tighten the fixing bolts at this stage. Joint the exposed end of the nipple. Screw the mounting bush onto the nipple and tighten until its flange locates in the recess of the plastic wall plate. Tighten the plastic wall plate fixing bolts.

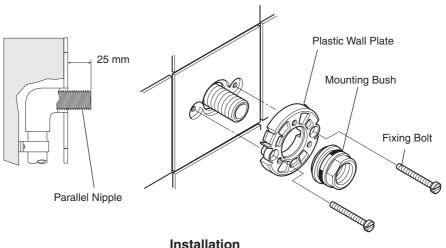


Figure 3

10. Refer to Figure 4. Push the shower arm fully over the mounting bush and secure with the three fixing screws. Push the shower arm trim over the wall plate until it is secured by the retaining lugs.

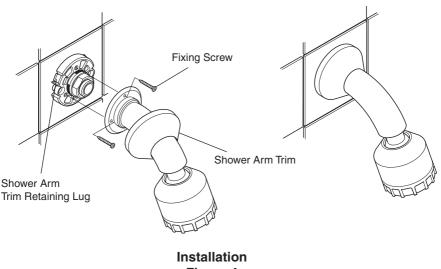


Figure 4

Installation to a Shower Cubicle or Laminated Panel

- **10.** Refer to Figure 5. Drill a 25mm hole and two 5.5mm holes in the panel.
- **11.** Joint and secure the parallel nipple into the 1/2" BSP female fitting from the shower mixer outlet. Turn on the water supply and make sure that there are no leaks.

Note! Refer to Figure 3 for the maximium projection of the nipple.

- **12.** Install the plastic wall plate on the nipple. Screw the mounting bush onto the nipple and tighten until its flange locates in the recess of the wall plate. Place the metal wall plate in position and secure with the two fixing bolts.
- **13.** Drill four holes in the panel (through the existing holes in the metal wall plate) to accept the screws (not supplied) for receiving the metal wall plate. Secure the wall plate to the panel.
- 14. Remove the mounting bush. Joint the exposed end of the parallel nipple. Screw the mounting bush onto the nipple and tighten until its flange locates in the recess of the wall plate. Tighten the wall plate fixing bolts.
- **15.** Refer to Figure 4. Push the shower arm fully over the mounting bush and secure with the three fixing screws. Push the shower arm trim over the wall plate until it is secured by the retaining lugs.

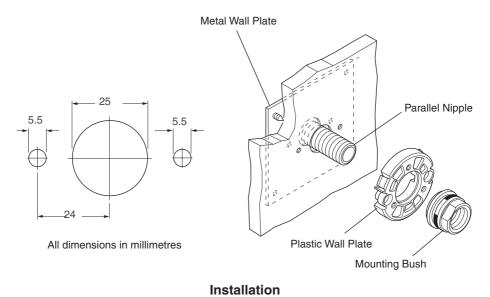
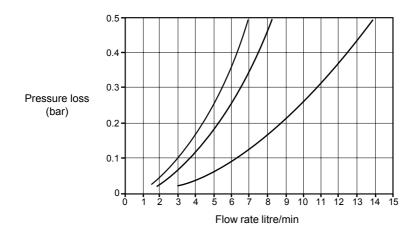


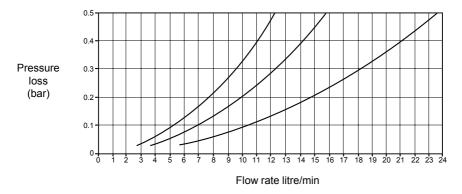
Figure 5

OPERATION

The Rada bsr-s 300 has an adjustable spray pattern and is fitted with a low capacity spray plate. A high capacity spray plate is also supplied to enable the flow rate to be increased (refer to the flow / pressure loss graphs). A spray plate removal key is supplied.



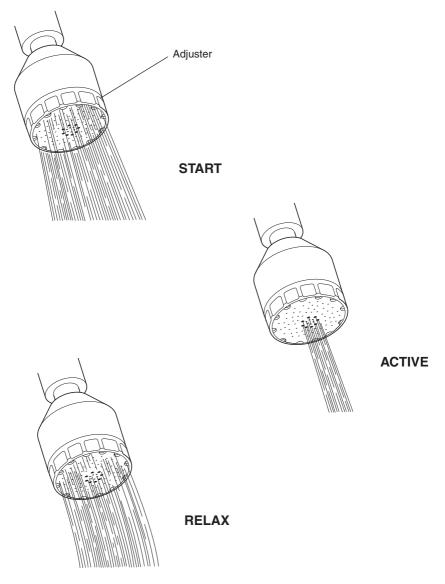






The spray pattern is adjusted as follows:

- 1. START: Turning the adjuster fully clockwise diverts the water to the outer holes.
- 2. ACTIVE: Turning the adjuster fully anti-clockwise diverts the water to the inner holes.
- **3. RELAX:** Selecting a "Mid" position allows the water to flow from both sets of holes, giving a higher flow rate at a lower pressure.



FAULT DIAGNOSIS

	Symptom Cause/Rectification	
1.	Reduced or no flow.	a. Check pressure from mixer.
2.	Poor or no spray pattern.	 a. Holes in spray plate blocked. Clean spray plate. b. Inner 'O' seal damaged. Renew inner 'O' seal. Check that the supply pressure is not too high. c. Insufficient supply pressure.
3.	Leaking from shower head.	a. Seals worn. Renew seals.b. Scale on swivel ball. Descale.

MAINTENANCE

General

Rada products are precision-engineered and should give continued superior and safe performance, provided:

- 1. They are installed, commissioned, operated and maintained in accordance with our recommendations
- 2. Periodic attention is given as necessary to maintain the product in good functional order.

Maintenance

Maintenance must be carried out in accordance with these instructions, and must be conducted by designated, qualified and competent personnel.

External surfaces may be wiped clean with a soft cloth, and if necessary, a mild washing-up type detergent or soap solution can be used.

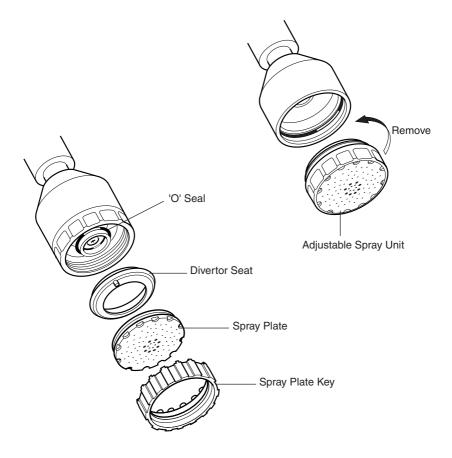
Warning: many household and industrial cleaning products contain mild abrasives and chemical concentrates, and should **not** be used on polished, chromed or plastic surfaces.

When ordering spare parts, please state product type, i.e. Rada bsr-s 300 shower fitting and identify part name and number. Refer to the **SPARE PARTS** section.

Procedure - Cleaning or Changing the Spray Plate (Refer

to Figure 6)

- 1. Turn the adjustable spray unit fully anti-clockwise, engage the spray plate key into the spray plate, unscrew anti-clockwise and remove. Remove the divertor seat.
- 2. Leave the inner 'O' seal in the shower head.
- **3.** Either clean with a stiff brush or dip into a proprietary inhibited (suitable for plastic kettles) descalent, used in accordance with the manufacturers instructions.
- 4. Do not use metal probes to clear spray holes.
- 5. Refit the divertor seat, screw in (clockwise) the spray plate and tighten with the spray plate key.



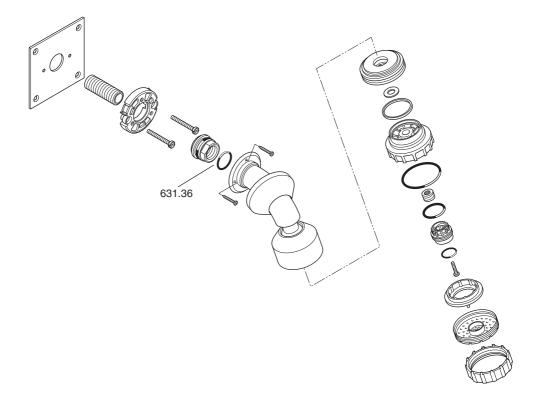
Spray Plate Figure 6

SPARE PARTS

Spare Parts List

- 090 29 Plastic Wall Plate
- 130 85 Shower Arm Trim chrome
- 552 07 Parallel Nipple
- 575 19 Spray Plate Key
- 631 36 'O' Seal
- 915 03 Mounting Bush
- 928 58 300 Adjustable Spray Unit chrome/white
- 936 99 300 Service Pack components identified 'A'
- 937 27 Component Pack components identified 'B'
- 937 44 Spray Plate white
- 938 06 Metal Wall Plate

Spare Parts Diagram



CUSTOMER CARE

Guarantee

Your product has the benefit of our manufacture's guarantee which starts from date of purchase. Within the guarantee period we will resolve defects in materials or workmanship, free of charge, by repairing or replacing parts or product as we may choose.

This guarantee is in addition to your statutory rights and is subject to the following conditions:

- The product must be installed and maintained in accordance with the instructions given in this user auide.
- · Servicing must only be undertaken by us or our appointed representative. Note! If a service visit is required the product must be fully installed and connected to services.
- Repair under this guarantee does not extend the original expiry date. The guarantee on any replacement parts or product ends at the original expirv date.
- · For shower fittings or consumable items we reserve the right to supply replacement parts only.

The guarantee does not cover:

- Call out charges for non product faults (such as damage or performance issues arising from incorrect installation, improper use, inappropriate cleaning, lack of maintenance, build up of limescale, frost damage, chemical attack, corrosion, system debris or blocked filters) or where no fault has been found with the product.
- Water or electrical supply, waste and isolation issues
- Compensation for loss of use of the product or consequential or indirect loss of any kind.
- Damage or defects caused if the product is repaired or modified by persons not authorised by us or our appointed representative.
- Routine maintenance or replacement parts to comply with the requirements of the TMV2 or TMV3 healthcare schemes
- Accidental or wilful damage.
- Products purchased ex-showroom display.

What to do if something goes wrong

If your product does not work correctly refer to this manual for fault diagnosis and check that it is installed and commissioned in accordance with our instructions. If this does not resolve the issue, contact us for help and advice.

Rada is a registered trade mark of Kohler Mira Limited.

The company reserves the right to alter product specifications without notice.



Technical Helpdesk Service

Contact our Customer Services Team for product advice, to purchase spare parts or accessories or to set up service visit. You can contact us via phone or e-mail - contact details below.

Please provide your model name, power rating (if applicable) and date of purchase.



Rada Website (www.radacontrols.com)

From our website you can view our full product catalogue or download a brouchure.



Spares and Accessories

We hold the largest stocks of genuine Rada spares and accessories.

Service/Repairs

No one knows our products better than our nationwide team of Service Technicians. We can carry out service or repair work to your product both during and after the guarantee period.

You have the assurance of a fully trained Technician, genuine Rada spare parts and a 12 month guarantee on any chargeable work done.

Service Contracts

Regular servicing ensures your product continues to operate at the peak of performance. We offer annual or bi-annual servicing carried out by our fully trained technicians subject to site survey

To Contact Us - UK Customer Service & **Specification Enquiries**



0844 571 1777 Calls cost 7p per minute plus your phone company's access charge



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