

# The Rodin Group

the water friendly company



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## Rodin Water Conservation and Accessibility Products



*showers*



*taps*



*aerators*



*urinals*

Commercial water saving solutions that reduce energy and maintenance costs resulting in rapid capital payback

# Water Saving Shower Systems

## Quality Showering

Rodin Showers use the Turbulence Principle of water treatment. In creating a shower stream with higher intensity to the skin than conventional showers "you get really wet". Rodin Showers provide showering quality and comfort while achieving savings of up to 50% in water and energy usage. This supports government actions that are focused on the conservation of water and energy.

The Shower's uniqueness is that, despite using less water, the intensity of the shower stream remains which in turn optimises showering comfort. Rodin Showers will only produce water saving where the pressure through the shower head is greater than 1 bar.

## Minimum Maintenance

In high usage showering areas Rodin Showers are designed for minimal maintenance and maximum

showering comfort. Unlike conventional shower heads, the system is unlikely to block as a result of scaling. Where a mandatory cleaning requirement exists, the Rodin Shower range has additional advantages:

- scale build up is unlikely
- the shower head is designed for easy cleaning
- if necessary, the internal parts are low cost and easy to replace

## Rapid Payback

Due to the unique construction of the Rodin Shower head both water and energy costs are significantly reduced.

Ideal areas of use include: hotels, hospitals, nursing homes, leisure centres, universities and schools. The capital payback period is very rapid as a result of the savings in water and heating costs.

## The BSRIA Shower Head Comparative Test Report

### Introduction

In September 1997 the BSRIA Crowthorne test facility carried out comparative tests of a low water use Rodin shower head and three other conventional shower heads intended for similar application. Report 13700/1 summarised their findings.

The objective of the test was:

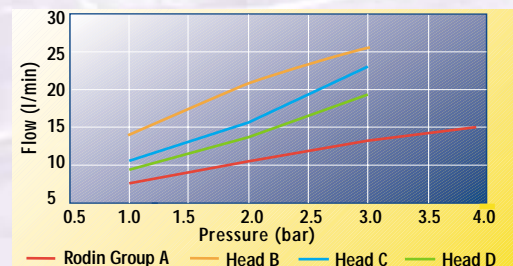
- to compare flow rates for each of the shower heads at pressures of 1 bar and greater using cold water
- Shower head A was the low flow device from The Rodin Group
- Shower head B and C were standard devices from other leading manufacturers
- Shower head D was a domestic electric shower, by a third leading manufacturer

### Test Procedure

The detailed test procedure is detailed in the full report but, in summary, a variable pressure cold water supply was connected to each of the four shower heads in turn. The water discharged from each shower head at differing supply pressures was then collected and weighed electronically in order to calculate the flow rate for each supply pressure.

### Results

The tables show the flow tests results for each shower head. Limitations of the water supply meant a pressure of 4 bar could not be achieved for all shower heads.



Pressure	Rodin head A	Shower head B	Shower head C	Shower head D
bar	l/min	l/min	l/min	l/min
1.0	7.62	13.62	11.10	9.00
2.0	10.82	20.95	16.32	13.35
3.0	13.33	25.76	23.41	19.54
3.9	15.10			

The Rodin Group shower head (A) achieved the lowest flow rates at all pressures. Shower head D which was designed for use with electric showers, with a flow rate of 2.3 to 9.5 l/min, performed better than either B or C but still had a higher flow rate than shower head A.

### Conclusions

The Rodin Group shower head (A) consistently delivered the lowest flow rates during testing that would translate into energy and cost savings of 30 - 50% at 1 and 2 bar.

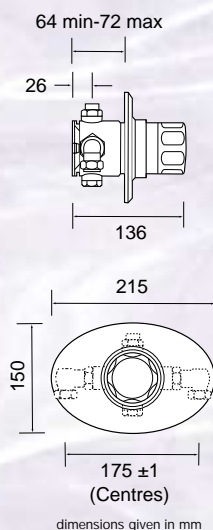
At 3 bar and above, only shower head A was still easy to control and would have been a comfortable showering experience for the user



# Thermostatic Mixer Valve Systems

## *MVT 3503 - Thermostatic Mixing Valve Thermostatic Mixer Valve Systems*

- Complies with NHS Estates purchasing specification D08
- Instant shut-off in the event of hot or cold water failure
- Wax capsule thermostat, maintains stable temperatures
- Factory set to 42°C, can be reset on site
- Maintains temperature to  $\pm 1^\circ\text{C}$
- Single sequential control
- Invigorating performance
- Choice of three (3) valves; exposed, concealed, ABS shrouded surface valve
- Minimum 1 bar pressure through specially designed Rodin shower head
- Brass body ensures longevity and durability



### **The Thermostatic Mixing Valve Scheme**

*"It is imperative that patients, residents, visitors and staff are not scalded by water issuing at unbearable or dangerous temperatures from outlet fittings in Health Care, and premises used by the public"*

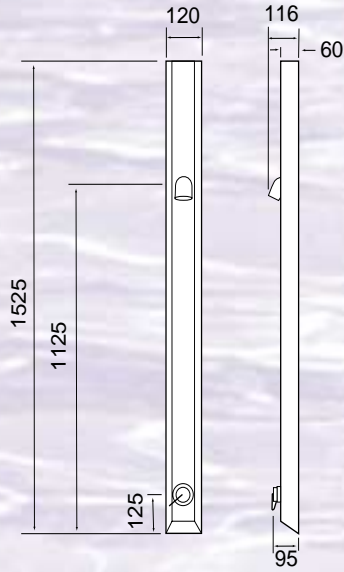
The range of Rodin Thermostatic Mixing Valves are designed and manufactured to the exacting standards of the TMV 3 Scheme.

### **Certification**

Each Rodin valve has undergone third party testing to the requirements of the NHS Estates Model Engineering Specification DO8, and the manufacturer has been awarded a license by the TMV Scheme certifying that they are suitable for use as Type 3.



# Anti-Vandal Shower Systems



dimensions given in mm

## Panel Shower Systems

- Slimline robust design
- Integral thermostatic valve reduces deadleg and risk of *Legionella*
- Single sequential control or both temperature and flow
- Vandal resistant shower head with adjustable spray trajectory and choice of spray rings
- Fits to ceiling, leaving no exposed pipework
- Automatic thermostatic shut off in the event of hot or cold supply failure
- Supplied pre plumbed and ready to install



## Anti-Vandal operating System Controls Thermostatic mixer valve

- MV1515 15mm inlets 15mm outlets \*
  - SBV1515\* 15mm inlets 15mm outlets \*
  - SBV 2222\* 22mm inlets 22mm outlets \*
- \*includes integrated isolation valves



## Thermostatic group mixer valve

- GBV2222 22mm inlets 22mm outlets \*
- GBV2828 28mm inlets 28mm outlets \*



## Manual push button control

- Concealed VAN 2450-CN (not shown)
- Exposed VAN 2400-EX



# Water Saving Wall Mounted Shower-heads

## Profilence



## Profilence and Profinox shower-heads

The Profilence and Profinox shower-head ranges have been specifically designed to work with exposed or concealed wall mounted showers. The shower-heads can be supplied on their own or as part of a complete system including a shower valve and chrome riser rail.

Both ranges incorporate isoflow which is a unique, patented design that protects the O-ring from the water and ensures that water flow is controlled thereby reducing water and energy consumption. A comparison with traditional regulation technology is shown on page 9.

A good quality, invigorating shower will help to minimise the amount of time spent showering and also water consumed. The Profilence and Profinox shower-heads use a 12 hole distributor disk to create a spray pattern with a large surface area while at the same time retaining the appropriate level of force within the spray.

Both shower-heads

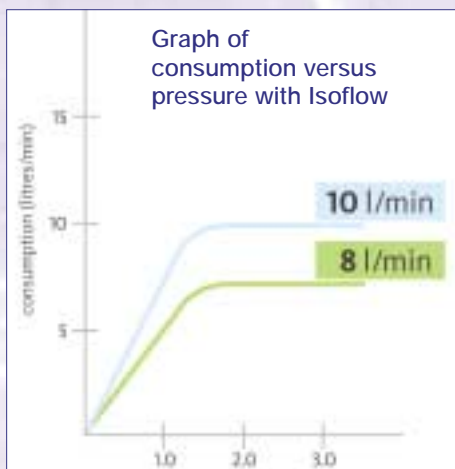
- Use turbulence-technology for high quality, invigorating showers
- Restrict water consumption to either 8 l/min or 10 l/min (depending on model selected) independent of system water pressure
- Are vandal resistant
- Reduce lime-scale build up
- Are easy to maintain
- Can be supplied to provide a spray pattern that can either be adjustable or fixed in relation to its projection away from wall

## Profinox



Simple testing kits are available to measure existing levels of water consumption per minute in retrofit situations thus allowing calculations of water and cost savings to be made.

Given the high and ever increasing cost of water supply and sewerage the payback period for investing in the water saving shower-heads is surprisingly quick.



## Water Saving Hand Held Shower-heads

### **NovoLux and NovoSix Shower-heads**

The NovoLux and NovoSix shower-head ranges are designed to work as hand held showers connected to flexible hoses. The shower-heads can be supplied on their own or as part of a complete system including a shower valve, shower hose, riser rail and sliding holder for the head.

Both ranges incorporate isoflow which is a unique, patented design that protects the O-ring from the water and ensures that water flow is controlled thereby reducing water and energy consumption. See consumption against pressure graph on page 5.

The NovoLux produces a single conventional water jet and incorporates a rotary connector to prevent the shower hose from becoming twisted and reduces the frequency of replacement. It is ideally suited for the professional and care home sectors.

The NovoSix provides six different spray patterns ranging from massaging through to relaxing. It is suited to the hotel and commercial sectors where shower users change frequently with each one having their own shower pattern preference. The wide choice of settings means everyone will find one that meets their requirements.

Both shower-heads

- Restrict water consumption to either 8 l/min or 10 l/min (depending on model selected) independent of system water pressure
- Provide a fast payback from water saving
- Reduce lime-scale build up
- Are easy to maintain

*NovoLux*



*NovoSix*



Simple testing kits are available to measure existing levels of water consumption per minute in retrofit situations thus allowing calculations of water and cost savings to be made. Given the high and ever increasing cost of water supply and sewerage the payback period for investing in the water saving shower-heads is surprisingly quick.

*NovoLux*



*NovoSix - Shower*



*NovoSix - Tropical Rain*



# Shower Accessories and Water Saving Taps

*Flex Agraff*



*Areoflex*



## ***Flex Agraff Shower Hoses and Areoflex Drain Valves***

Flex-Agraff is a stainless steel shower hose with silicone lining. It has a robust construction thanks to the external stainless steel layer. It is able to extend up to 40% in length, is durable and can resist pressure of up to 5 bar at normal temperatures.

The design both improves flexibility and resists kinks while the use of a silicone liner within the hose restricts bacteria growth and biofilm development.

Areoflex is an automatic drain valve that can be fitted to shower valves that are connected to flexible shower hoses. The valve opens automatically once the shower valve is turned off and the residual water is able to drain from the hose out through the valve. As the hose is vented and water is not retained between the valve and the shower head it will dry quickly reducing the opportunity for bacteria growth.

The Areoflex is installed between the shower valve and the shower hose and incorporates a rotary connector which makes the hose easier to use and maximises the life of the hose by helping to prevent it from becoming damaged.

The combination of the Novolux (page 6), Flex-Agraff and Areoflex is ideally suited for use within a care home environment where bacteria control and water saving are of paramount importance.

## ***Thermostatic Bath Shower Mixer Taps***

The bath mixer is chrome plated and utilises ceramic disc technology suitable for use with all plumbing systems and can be supplied with the Flex Agraff and Areoflex drain valve.

Water saving can be achieved, provided a minimum pressure of 1 bar exists at the shower-head, by using one of the following shower-heads:

- NovoLux with isoflow
- NovoSix with isoflow
- NovoLence

Simple testing kits are available to measure existing levels of water consumption per minute in retrofit situations thus allowing calculations of water and cost savings to be made. Given the high and ever increasing cost of water supply and sewerage the payback period for investing in the water saving shower-heads is surprisingly quick.



## Water Saving and TMV3 Taps

### **Sentry Thematic Mono Basin Mixer Tap**

The Sentry thermostatic mono basin tap has TMV3 approval provided the supplied flow regulators are installed. They also ensure that water consumption is 10 l/min at 3 bar pressure. The short lever ensures the tap is easy to operate through 180 degrees through from cold to hot.

The Sentry finished in chrome and is supplied with copper tails, removable check valves, flow regulators and strainers. It is suitable for all plumbing systems and will require a minimum 0.5 bar pressure when the flow regulators are fitted.

It is suitable for use in a range of applications including schools and care homes.



Certificate available on request

### **Rodin Water Saving Mono Basin CHE Tap (with pop up waste)**

The Rodin water saving mono basin mixer tap operates with a single lever and includes a pop-up waste. The tap is supplied with both a water saving aerator and ceramic cartridge. The patented design of the aerator supplied not only introduces more air into the water but it significantly reduces the accumulation of scale and is thus ideal for use in areas of hard water.

Moving the mixer lever upwards/downwards will increase/decrease the flow of water while moving the lever from right to left increases the water temperature. The tap is finished in chrome and is supplied with flexipipe for ease of installation. It requires a minimum operating pressure of 0.2 bar and with the supplied aerator fitted will have water consumption of 8 l/min at 3 bar pressure.

It is suitable for use in a range of commercial applications from hotels to sports clubs and fitness centres.





# Water Saving Aerators for Taps

## Long Life Aerators



### User satisfaction

The Long Life aerator produces a controlled balance of mixed water and air which results in a pleasantly soft and splash free stream of water with a high user satisfaction rating.

### Resistance to calcium deposits

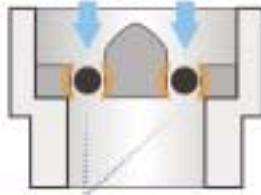
Calcium build up in hard water areas on the outlet screen is negligible due to the unique concave form and wide mesh (1.25mm) thus minimising the residual water which may evaporate to form calcium deposits. In extreme conditions, if deposits do occur they can easily be removed with a stiff brush without damaging the outlet screen.

### Self cleaning

The Long Life Aerators self clean. Solid particles of less than 0.25mm are flushed through while larger particles are collected on the entrance screen and do not influence the water stream.

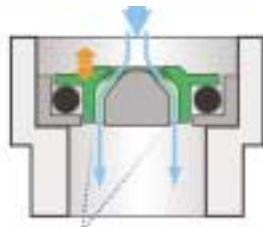
Anti vandal versions are available in both fittings.

### Conventional Regulation Technology

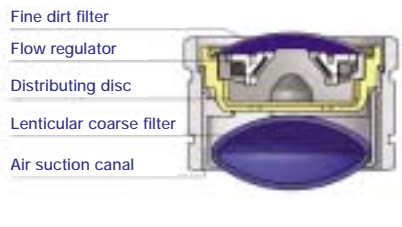


O Ring as active regulation element

### Isoflow Regulation Technology



Control Gap as active regulation element



iso low

## Water Saving Constant Flow (CF) Aerators

The constant flow (CF) aerator range incorporates the best features of the long life aerator line with the latest design in water flow technology. The range incorporates iso-flow which is a unique, patented design that ensures that above a given level of water pressure the volume of water flow is constant. It also protects the O-ring from the water thereby extending the operating life of the aerator. The combination of the above two elements reduce water costs and energy consumption whilst at the same time minimising annual maintenance costs.

The aerator is self cleaning and has a patented filter system which allows water to drain through quickly once a tap has been turned off. This helps reduce scale forming on the internal surfaces of the aerator due to evaporation.

Vandal resistant versions of the CF aerator are available which provides a fully rotating collar. These require a special key for installation and removal.



# Waterfree Urinals and Replacement Cartridges

The patented, sealed cartridge is the heart of the Falcon Waterfree urinal system and is more effective than a standard P trap as a barrier between drain line odours and the open air. It is installed into the housing in the base of Falcon Waterfree urinals and is 100% compatible with all Falcon Waterfree urinal models.

The cartridge channels the liquid from the urinal bowl through a layer of biodegradable sealant liquid within the cartridge and out into the building drain system.

The cartridge is designed as a replaceable component when its function has been exhausted. An O-ring and patented bayonet tabs lock the cartridge into the urinal housing and provide an airtight seal that is tamper resistant.



## Cartridge Features & Benefits

	Feature	Benefit
Life Cycle	Average of 7,000 uses	Reduced water and sewer costs – 150,000 litres of water annually per urinal
Trap seal	Mechanical-free design	No components to fail
Odour barrier	Dual barrier system consists of biodegradable sealant liquid within the cartridge, an O-ring seal, and patented bayonet locking mechanism	Provides an air-tight installation of the cartridge into the urinal and odour free operation will improve washroom hygiene
Sealant liquid	Pre-measured pack of biodegradable sealant liquid is provided with the cartridge	Sealant wastage is eliminated
Tamper-resistance	Cartridge is installed into the urinal housing with patented bayonet locking mechanism	Cartridges can only be removed with the installation key provided by Falcon
Maintenance	Cartridge requires no maintenance during the normal life cycle and sealant liquid never needs to be replenished. Cartridge replacement is simple and takes 3 to 5 minutes	Flush valve maintenance is eliminated with reduced labour costs



# Accessibility Solutions



## **Rodin Doc M Pack**

The Rodin Doc M pack is compliant with LABC Building Control Regulations and meets current disabled toilet regulations. It is finished in white and contains the following products:

- Doc M pan
- Doc M cistern
- Toilet seat
- Wall mounted basin
- TMV3 mixer tap
- 4 standard grab rails
- 1 drop down grab rail

(Pack does not include mirror or bottle trap)



## **Walk-in Bathing Solutions**

Walk-in baths are appropriate for those people who struggle with stepping into a fully sided bath or who have regular visits from ageing relatives or a young family. Standard 1700mm baths can be replaced with an easy access alternative, with minimum redecorating and disruption.

The Darwell is fitted with a glass door and is locked by an electromagnetic lock that opens at the touch of a button and provides a secure watertight seal. There is an indicator light that shows when the bath is fully sealed and ready to be filled. Water sensors ensure that the door will remain locked until the water has drained to an appropriate level. The bath comes with a battery back-up for the lock along with an audible alarm in the event of power failure. There is a low threshold for easy access both in and out while the door itself opens inwards to save space.

Baths are available in both left and right hand versions while an optional shower screen can be provided to provide the added flexibility of a shower bath.



# The Rodin Group range

## WATER TREATMENT PRODUCTS

CARTRIDGE FILTERS



CHLORINE DIOXIDE



CYCLONE FILTERS



SCALE-BUSTER



TITANIUM AOP SYSTEM



ULTRA VIOLET



## WASHROOM PRODUCTS

TOILET CUBICLES



WATER SAVING AERATORS



WATER SAVING SHOWERS



WATERLESS URINALS



WATER SAVING TAPS



ACCESSIBILITY



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