



PRODUCT CATALOGUE  
2004

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Markon constantly focus energy on changing needs and have designed and developed technological advancements in water jets for the spa bath (whirlpool) and shower jet markets. Our philosophy is to lead the world in design and development of new products for these markets through innovation, total quality management and supreme service levels.

### *Our Heritage*

Kip Marks founded Markon in 1990 with the first products made for the New Zealand market. Today, we supply leading players in the local and world markets, exporting product to Australia, Asia, USA, England and Europe. We have steadily grown to now become recognised and respected throughout the world as a leader within the industry for both product design and innovation.

### *Our Business*

We specialise in the design and manufacture of components for the spa bath (whirlpool) and shower manufacturing industries. We are committed to designing and developing high quality products and incorporate an extensive research and development strategy to keep us at the forefront of the industry. We constantly monitor trends and markets to offer new and exciting products.

Our strength is our ability to control the total process of design, development and manufacture which allows us to maintain the highest product standards.

### *Our Range*

We offer a modular product range for spa baths (whirlpools) and shower jets and can design and develop customised products to suit individual customer needs. A feature of all our products is the flexibility created by our modular design. This is shown in the unique way we have illustrated our product range in this catalogue. We offer all our products in a range of colours or can customise a colour for individual requirements.

Spa bath (whirlpool) products include, jets, bodies, air controls, air buttons, suction, diverter valves, flow control valves, air injectors, manifolds and accessories.

Shower products include a range of shower jets and a body shower system.

### *Our Quality*

Our specialised manufacturing company, ElectroPlas, manufactures all our products. ElectroPlas use the latest moulding technology and operate the most advanced electroplating plant in the Southern Hemisphere.

Our stringent in-house quality control procedures are implemented continuously throughout our design and manufacturing process. All products undergo extensive trials and quality tests before we make them available for sale.

### *Our Approach*

We view business as a relationship rather than a transaction. We invest time and money understanding our customers and their long-term business strategies. We listen to our customers and work to provide products they require. We are committed to supplying product of the highest quality and focus on providing the very best in customer service.

### *Constant Improvement*

We operate on the theory that “there is always a better way” and therefore our designs will change as a result of research and customer feedback.



## Systems

### New Innovations...

#### Markon Pre-Seal System



The "Pre-Seal" system is intended to reduce and ultimately eliminate the need for sealants used during product installation.

Pre-Seal is aimed at reducing manufacturing costs that OEM's face when plumbing a whirlpool or shower. Markon's design team has researched and developed a unique sealant application system. This patented system involves applying a consistent and measured sealant bead to the relevant flange during the manufacturing process. The factory controlled curing process ensures a quality seal on each and every product prior to packaging and delivery.

Pre-Seal is currently available on "above the water line" components including air buttons, air controls and all shower jets. In the near future the range will be extended, with the introduction of Pre-Seal to whirlpool jets and the Safe-Flo suction.

Products with Pre-Seal available are suffixed with the letter S in the part number.

Pre-Seal is a further example of Markon's commitment to the continued development of innovative products and systems that benefit the whirlpool and shower manufacturing industry.

#### Markon Enviro System



Markon has long recognised the perceived negativity associated with residue build-up in Whirlpool plumbing systems. With the objective of reducing and even eliminating this residue, Markon has designed a range of 100% self draining whirlpool components, which make up the *Enviro System*.

This range includes the EnviroJet and Safe-Flo suction.

The EnviroJet is a self-draining jet which drains all water from the pipe work and jet assembly and dramatically reduces the chance of bacterial growth in unsanitary bath residue. The design of this environmentally friendly jet produces a pipe work layout that induces a series of air bell's in the piping, which prevents water entering the piping when the bath is full unless the pump is switched on.

The Safe-Flo suction is designed to totally self drain. The low profile suction body has a 12 degree drain angle allowing water to drain fully from the suction pipe work.

#### PVD Coatings

Physical Vapour Deposition (PVD) coatings are extremely hard and abrasion resistant coatings guaranteed to last the life of a product. PVD coatings are available in a range of colours on request.

Markon Hydro-Therapy jets are small, stylish, low profile jets that can be clustered in a bath to offer a concentrated body massage. They are ergonomically optimized and are ideal for lumbar regions and tension zones.

## Jet Face

### Features & Benefits

- Wide range of jet face styles.
- Available in plain, eyeball or rotary versions.
- Adjustable flow rates for air and water.
- Fit all Hydro-Therapy bodies.

### Size / Dimensions

Face diameter -	38mm
Nozzle bore -	5mm
Protrusion forward into bath : standard -	9mm
: low profile -	6mm

## Jet Body

### Features & Benefits

- Choice of bodies - manifold fed or standard in-line.
- Bodies fitted with non-return valve in airway.
- Available in ABS or PVC
- Available in imperial or metric.
- 10mm flexible airline feed.
- Locator ring on flange for easy location during assembly.

### Size / Dimensions

Mounting hole size -	28mm
Wall thickness range -	2-10mm
Protrusion from rear of bath wall : manifold fed -	62mm
: standard in-line -	70mm



# Hydro-Therapy Jets

## Jet Face



## Jet Face

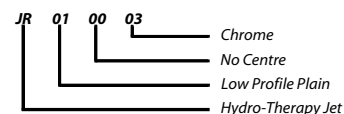
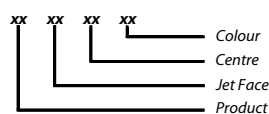
## Jet Body



## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



Product	Code	Jet Face	Code	Centre	Code	Colour	Code
Hydro-Therapy Jet	JR	Low Profile Plain	01	No Centre	00	White (NZ, AUST, UK, EUR)	01
		Full Profile Plain	02	Eyeball *	01	Almond Ivory (Soft Cream - UK)	02
		Twin Helix	03	Rotary	02	Chrome	03
		3 Scallop	04			Gold	04
		5 Scallop	05			Polished Brass	05
		Note * not available with low profile jet face.				Satin Chrome	06
						Pergamon (Alabaster)	07
						White (USA)	10
						(custom colours on request)	

Product	Code	Size	Code	Colour	Code	Optional Extras
Hydro-Therapy Jet Body	BR	25mm NB water x 10mm NB air line - (ABS)	01	Factory White	26	S**
		25mm NB water x 10mm NB air line - (PVC)	02			S**
		32mm OD water x 10mm NB air line - (ABS)	03			S**
		32mm OD water x 10mm NB air line - (PVC)	04			S**
		12mm NB water x 10mm NB air line - (ABS)	05			S**
		12mm NB water x 10mm NB air line - (PVC)	06			S**
		15mm NB water x 10mm NB air line - (ABS)	07			S**
		15mm NB water x 10mm NB air line - (PVC)	08			S**
		19mm NB water x 10mm NB air line - (ABS)	09			S**
		19mm NB water x 10mm NB air line - (PVC)	10			S**
		20mm NB water x 10mm NB air line - (ABS)	11			S**
		20mm NB water x 10mm NB air line - (PVC)	12			S**

Note: \*\* Currently in development. S - Pre-Seal System

Note: Some product may not be available in certain territories due to exclusivity arrangements.

Markon Universal Custom Jets are a mid sized jet that can be located around the entire bath. They are available in a variety of jet face and centre combinations. All components are designed to be interchangeable and can be customised for the required function or colour combination.

## Jet Face

### Features & Benefits

- Supplied as individual components to facilitate customisation.
- Fits all Universal bodies.
- Available in either an eyeball or rotary centre.
- Range of jet faces.
- Full adjustment of water and airflows as well as adjustment of direction on the eyeball and star eyeball versions.
- Jets are easy to remove for servicing without special tools, but still child proof.

### Size / Dimensions

Face diameter -	All jet faces 68mm (except Maxi 80mm)
Nozzle bore -	7mm
Protrusion into bath -	9mm (5 & 6 scallop face) 12mm (Midi & Maxi)

## Jet Bodies

### Features & Benefits

- Bodies with 10mm NB airline fitted with non-return valve in airway.
- Locator ring on flange for easy location during assembly.
- Choice of jet bodies to suit plumbing requirements.
- Available in ABS or PVC.
- Available in imperial or metric.

### Size / Dimensions

Mounting hole size -	48mm
Protrusion from back of wall : extended airline version -	62mm
: standard airline version -	70mm

## Jet Face

## Jet Body



## Jet Body



Note: Some product may not be available in certain territories due to exclusivity arrangements.

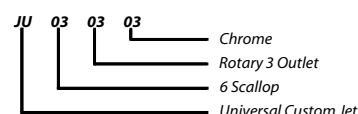
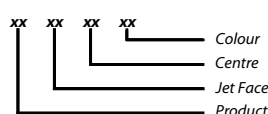
# Universal Custom Jets



## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



Product	Code	Jet Face	Code	Centre	Code	Colour	Code
Universal	JU	5 Scallop	02	Eyeball	01	White (NZ, AUST, UK, EUR)	01
Custom Jet		6 Scallop	03	Rotary - 2 outlet	02	Almond Ivory (Soft Cream - UK)	02
		Midi	04	Rotary - 3 outlet	03	Chrome	03
		Maxi	05	Star Eyeball *	04	Gold	04
						Polished Brass	05
				Note * only available with Midi or Maxi jet face.		Satin Chrome	06
						Pergamon (Alabaster)	07
						White (USA)	10
						(custom colours on request)	

Product	Code	Body	Code	Colour	Code	Optional Extras
Universal Jet Body	BU	25mm NB water x 25mm NB air line - (ABS) *	01	Factory White	26	
		25mm NB water x 25mm NB air line - (PVC) *	02			
		32mm OD water x 32mm OD air line - (ABS) *	03			
		32mm OD water x 32mm OD air line - (PVC) *	04			
		25mm NB water x 10mm NB air line -Extended (ABS)	05			S**
		25mm NB water x 10mm NB air line -Extended (PVC)	06			S**
		32mm OD water x 10mm NB air line -Extended (ABS)	07			S**
		32mm OD water x 10mm NB air line -Extended (PVC)	08			S**
		25mm NB water x 10mm NB air line -Standard (ABS)	09			S**
		25mm NB water x 10mm NB air line -Standard (PVC)	10			S**
		32mm OD water x 10mm NB air line -Standard (ABS)**	11			S**
		32mm OD water x 10mm NB air line -Standard (PVC)**	12			S**
		25mm NB water x 15mm NB air line - (ABS)	13			S**
		25mm NB water x 15mm NB air line - (PVC)	14			S**
		32mm OD water x 20mm OD air line - (ABS)**	15			S**
		32mm OD water x 20mm OD air line - (PVC)**	16			S**

Note \* No longer a standard stock item, available on volume orders only      \*\* Currently in development.      S - Pre-Seal System

Markon Universal Cartridge Jets are a mid sized jet that can be located around the entire bath. Universal Cartridge Jets come pre-assembled as a cartridge for quick, easy and cost effective installation.

## Jet Face

### Features & Benefits

- Pre-assembled cartridge system offers quick and easy installation.
- Fits all Universal bodies.
- Available in eyeball or rotary centre versions.
- Quick and easy assembly.
- Range of jet faces.
- Full adjustment of water and airflow and adjustment of direction with the eyeball version.
- Jets are easy to remove for servicing without the need for special tools (but still child proof).

### Size / Dimensions

Face diameter -	68mm
Nozzle bore -	7mm
Protrusion into bath -	9mm (standard) 5mm (low profile)

## Jet Bodies

### Features & Benefits

- Bodies with 10mm NB airline fitted with non return valve in the airway.
- Locator ring on flange for easy location during assembly.
- Choice of jet bodies to suit plumbing requirements.
- Available in ABS or PVC.
- Available in imperial or metric.

### Size / Dimensions

Mounting hole size -	48mm
Protrusion from back of wall : extended airline version -	62mm
: standard airline version -	70mm

### Jet Face

### Jet Body

				
<b>Plain</b> - with eyeball. Also available as a rotary jet with 2 or 3 outlets.	<b>Low Profile</b> - with 2 outlet rotary. Also available with an eyeball, or 3 outlet rotary.	<b>5 Scallop</b> - with 3 outlet rotary. Also available with a 2 outlet rotary or eyeball.	<b>6 Scallop</b> - with 2 outlet rotary. Also available with a 3 outlet rotary or eyeball.	<b>NEW</b> <b>25mm NB x 10mm NB Pre-Seal</b> <b>32mm OD x 10mm NB Pre-Seal</b> (extended airline version)

### Jet Body

			
<b>25mm NB x 10mm NB extended airline</b> <b>32mm OD x 10mm NB extended airline</b>	<b>25mm NB x 10mm NB standard airline</b> <b>32mm OD x 10mm NB standard airline</b>	<b>NEW</b> <b>25mm NB x 15mm NB airline</b> <b>32mm OD x 20mm OD airline</b>	<b>25mm NB x 25mm NB airline</b> <b>32mm OD x 32mm OD airline</b>

## Universal Cartridge Jets



Universal cartridge jets come as a pre-assembled cartridge that simply clip into the jet body.

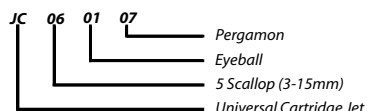
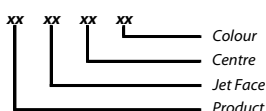


Universal cartridge jets complete with 5 scallop, 3 outlet rotary.

### Product Code Generation

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#### Example



Product	Code	Jet Face	Code	Centre	Code	Colour	Code
Universal Cartridge Jet	JC	Plain (adjustable flow) - for bath wall 0-10mm	01	Eyeball	01	White (NZ, AUST, UK, EUR)	01
		Plain (adjustable flow) - for bath wall 3-15mm	02	Rotary - 2 outlet	02	Almond Ivory (Soft Cream - UK)	02
		Low Profile - for bath wall 0-10mm	03	Rotary - 3 outlet	03	Chrome	03
		Low Profile - for bath wall 3-15mm	04	Star Eyeball *	04	Gold	04
		5 Scallop - for bath wall 0-10mm	05			Polished Brass	05
		5 Scallop - for bath wall 3-15mm	06			Satin Chrome	06
		6 Scallop - for bath wall 0-10mm	07			Pergamon (Alabaster)	07
		6 Scallop - for bath wall 3-15mm	08			White (USA)	10
		Midi - for bath wall 0-10mm **	09			(custom colours on request)	
		Midi - for bath wall 3-15mm **	10				
		Maxi - for bath wall 0-10mm **	11				
		Maxi - for bath wall 3-15mm **	12				
		Plain (non-adjustable flow) - for bath wall 0-10mm	13				
		Plain (non-adjustable flow) - for bath wall 3-15mm	14				

Note \* Only available with Midi or Maxi jet face. \*\* Currently in development

Product	Code	Body	Code	Colour	Code	Optional Extras
Universal Jet Body	BU	25mm NB water x 25mm NB air line - (ABS) *	01	Factory White	26	
		25mm NB water x 25mm NB air line - (PVC) *	02			
		32mm OD water x 32mm OD air line - (ABS) *	03			
		32mm OD water x 32mm OD air line - (PVC) *	04			
		25mm NB water x 10mm NB air line -Extended (ABS)	05			S**
		25mm NB water x 10mm NB air line -Extended (PVC)	06			S**
		32mm OD water x 10mm NB air line -Extended (ABS)	07			S**
		32mm OD water x 10mm NB air line -Extended (PVC)	08			S**
		25mm NB water x 10mm NB air line -Standard (ABS)	09			S**
		25mm NB water x 10mm NB air line -Standard (PVC)	10			S**
		32mm OD water x 10mm NB air line -Standard (ABS)**	11			S**
		32mm OD water x 10mm NB air line -Standard (PVC)**	12			S**
		25mm NB water x 15mm NB air line - (ABS)	13			S**
		25mm NB water x 15mm NB air line - (PVC)	14			S**
		32mm OD water x 20mm OD air line - (ABS)**	15			S**
		32mm OD water x 20mm OD air line - (PVC)**	16			S**

Note \* No longer a standard stock item, available on volume orders only \*\* Currently in development. S - Pre-Seal System

Note: Some product may not be available in certain territories due to exclusivity arrangements.

The Markon EnviroJet is a self-draining jet which drains all water from the pipe work and jet assembly, dramatically reducing the chance of bacterial growth in unsanitary bath residue. The pipe work creates a series of air-locks between jets so that the water only enters the piping when the pump operates. This means that the pipes remain dry and clean for most of the time when the bath only is used and get wet only when the spa feature is used. This coupled with the 15 degree drain slope of the piping, significantly minimises the ability for slime to form in the pipe work.

**Jet Face**

*Features & Benefits*

- Compact, low profile jet face.
- High aeration venturi action.
- Self-draining jet face minimises water retention.
- Eyeball adjustable in direction.
- Available in two sizes.

*Size / Dimensions*

Face diameter -	45mm (small) 65mm (large)
Water nozzle bore -	6mm
Protrusion into bath -	4mm

**Jet Bodies**

*Features & Benefits*

- Totally self-draining body.
- Body creates a series of air bell's in the pipe work that dramatically reduces the chances of bacterial build up through unsanitary bath residue.
- Front serviceable jet body.
- Compact, low profile body, ideal for all baths.
- Suitable for bath wall thicknesses 1-10mm
- Available in ABS or PVC.
- Available in metric or imperial.

*Size / Dimensions*

Protrusion from back of bath wall -	58mm
Mounting hole size -	32mm (small) 44mm (large)
Wall thicknesses range -	1-10mm



Note: Some product may not be available in certain territories due to exclusivity arrangements.



The Markon JumboJet is a large bore jet with both direction and flow intensity adjustable by movement of the eyeball stalk. Whilst currently available with a very low profile jet face and stalk, the design allows for a wide variation in profiles and sizes to suit individual manufacturers. Unlike most large bore jets, the JumboJet body has a very low profile behind the bath wall allowing it to be used in compact bath situations.

## Jet Face

### Features & Benefits

- Compact, low profile jet face.
- High aeration.
- Large 10mm bore nozzle.
- Full adjustment of water and airflow and adjustment of direction.

### Size / Dimensions

Jet Face diameter -	80mm
Water nozzle bore -	10mm
Protrusion into bath -	4mm

## Jet Bodies

### Features & Benefits

- Non-return valve fitted to 10mm NB airline version.
- Compact, low profile body, ideal for all baths.
- Suitable for bath wall thicknesses 1-11mm
- Available in ABS or PVC.
- Available in metric or imperial.

### Size / Dimensions

Protrusion from back of bath wall -	62mm to 72mm (dependant on bath wall thickness)
Mounting hole size -	65mm
Wall thicknesses range -	1-11mm



**JumboJet** : Five scallop nozzle in  
25mm NB water x 10mm NB airline.



# JumboJet

NEW PRODUCT

## Jet Face

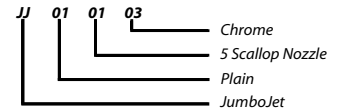
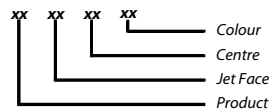
## Jet Body



## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



Product	Code	Jet Face	Code	Centre	Code	Colour	Code	Optional Extras
JumboJet	JJ	Plain	01	Five scallop nozzle	01	White (NZ, AUST, UK, EUR)	01	S**
						Almond Ivory (Soft Cream - UK)	02	
						Chrome	03	
						Gold	04	
						Polished Brass	05	
						Satin Chrome	06	
						Pergamon (Alabaster)	07	
						White (USA)	10	
						(custom colours on request)		

Note\*\* Currently in development S - Pre-Seal System

Product	Code	Size	Code	Colour	Code
JumboJet Body	BJ	25mm NB water x 10mm NB airline - ABS	01	Factory White	26
		25mm NB water x 10mm NB airline - PVC	02		
		25mm OD water x 15mm NB airline - ABS	03		
		25mm OD water x 15mm NB airline - PVC	04		
		32mm OD water x 10mm NB airline - ABS	05		
		32mm OD water x 10mm NB airline - PVC	06		
		32mm OD water x 20mm NB airline - ABS**	07		
		32mm OD water x 20mm NB airline - PVC**	08		

Note\*\* Currently in development

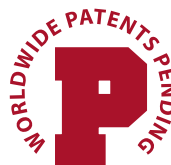
Markon Sparkler Jets offer a totally new concept in bathing, where the jets are no longer directed at the bather. Available EXCLUSIVELY from Markon, they are mounted on the wall of a bath directing gentle jets of water and small air bubbles down the wall and along the base of the bath where the bubbles rise against the body of the bather. These patented jets create “sparkling water” where effervescent bubbles delicately caress the bathers body.

The revolutionary system is powered by a water pump only, eliminating the blower and it’s associated noise.

### **Jet Face**

#### *Features & Benefits*

- Compact, low profile jet face.
- High aeration.
- Available in different styles.



#### *Size / Dimensions*

Face width -	45mm
Water nozzle bore -	5mm
Protrusion into bath -	8 -12mm

### **Jet Body**

#### *Features & Benefits*

- 20 degree drain angle.
- Compact, low profile body, ideal for all baths.
- Quick installation facilitated by power tools.
- No air blower required.
- Suitable for bath wall thicknesses 1-10mm
- Available in PVC only.
- Available in metric or imperial.

#### *Size / Dimensions*

Protrusion from back of bath wall -	53mm
Mounting hole size -	28mm
Wall thicknesses range -	1-10mm

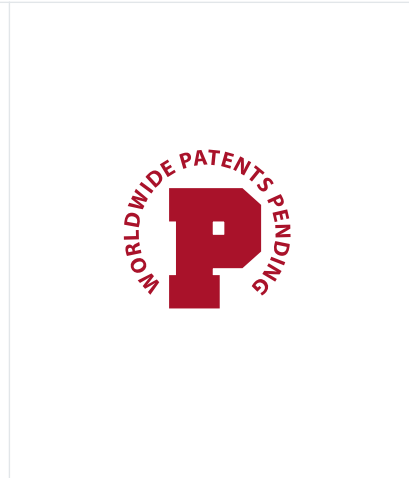
**MARKON**  
**EXCLUSIVE**

***A totally new concept in bathing....Markon Sparkler Jets***

### Jet Face



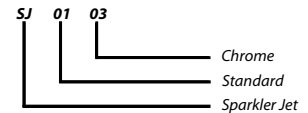
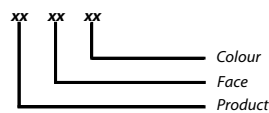
### Jet Body



### Product Code Generation

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#### Example



Product	Code	Cap Face	Code	Colour	Code
Sparkler Jet	JS	Oblique	01	White (NZ, AUST, UK, EUR)	01
		Round **	02	Almond Ivory (Soft Cream - UK)	02
				Chrome	03
				Gold	04
				Polished Brass	05
				Satin Chrome	06
				Pergamon (Alabaster)	07
				White (USA)	10
				(custom colours on request)	

\*\*Note - Currently in development

Product	Code	Size	Code	Colour	Code	Optional Extras
Sparkler Jet Body	BS	25mm NB water x 10mm NB airline - PVC	01	Factory White	26	S**
		25mm OD water x 15mm NB airline - PVC**	02			S**
		32mm OD water x 10mm NB airline - PVC**	03			S**
		32mm OD water x 20mm NB airline - PVC**	04			S**

\*\*Note - Currently in development S - Pre-Seal System

Available for baths and spa pools, these compact air injectors offer overall cost effective installation by minimising assembly labour, piping and supply fittings. With the fittings supplied with each injector it is possible to connect up to four injectors per airline, in comparison with more conventional systems where each injector has it's own airline. ( e.g. when fitted with a six outlet air supply manifold, MS1326, it is possible to feed up to twenty four air injectors using the six 10mm NB airlines.) Assembly labour is minimised by the use of the glueless "quick-clip" fitting of the elbow or tee to the stem of the injector. Pre-Seal is an option on these products and all bath versions are fitted with non-return valves.

## Features & Benefits

- Compact, low profile cap.
- Quick, cost effective installation with saving on pipe and fittings.
- Pre-Seal optional.
- Non-return valve fitted to bath injectors.
- PVC components.



## Size / Dimensions

Face diameter x height : Bath -	24mm x 6mm
: Spa Pool -	32mm x 7mm
Mounting hole size -	15mm



Air Injector - Bath

Air Injector - Spa Pool

# Air Injectors

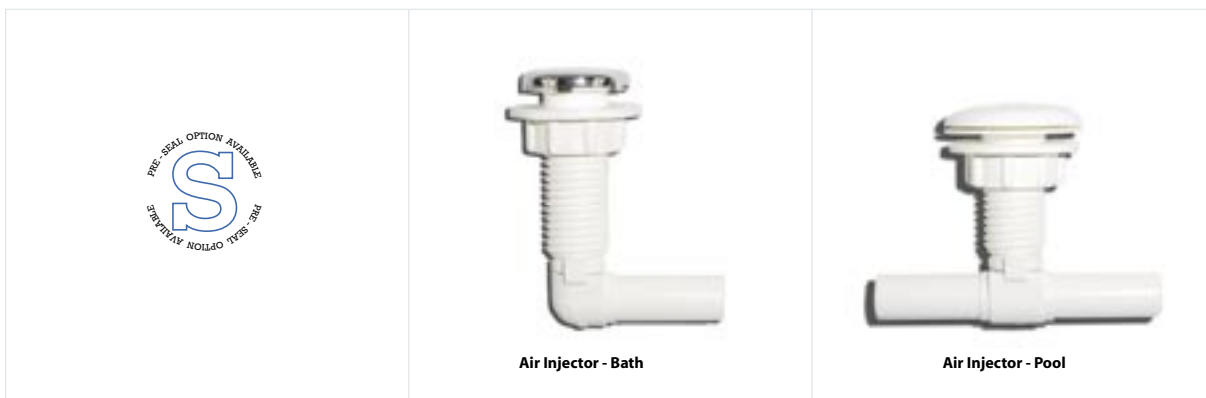
NEW PRODUCT

## Glueless Quick Clip Fittings



## Bath Injector

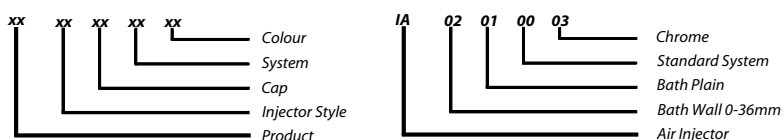
## Spa Pool Injector



## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



Product	Code	Injector Style	Code	Cap	Code	Colour	Code	Optional Extras
Air Injector	IA	Bath - Wall 0-26mm	01	Bath - Plain	01	White (NZ, AUST, UK, EUR)	01	S**
		Bath - Wall 0-36mm	02	Spa Pool - Standard	02	Almond Ivory (Soft Cream - UK)	02	S**
		Spa Pool - Wall 0-17mm	03			Chrome	03	S**
						Gold	04	
						Polished Brass	05	
						Satin Chrome	06	
						Pergamon (Alabaster)	07	
						White (USA)	10	
						(custom colours on request)		

\*\* Currently in development    Note: Air Injectors come as a kit which includes both an elbow and tee.    S- Pre-Seal System

Markon suction are available in two versions, Standard and Safe-Flo.

The standard version is limited to flow rates up to 160 litres per minute, complies with AS3861 and has tee, elbow and slip options. A safety suction break can be fitted to the elbow options to prevent body entrapment.

The Safe-Flo version can handle high flow rates (currently being rated) and is available in the self draining elbow option. Safe-Flo suction require air breathers which are available in either a stylish surface mounted version or an under bath non return valve version.

The Pre-Seal feature is available on all slip options and the Safe-Flo elbow version. The Standard version has a choice of covers and the Safe-Flo currently has one.

## Features & Benefits -

### Standard

- Unique self-locking system on cover for easy installation or removal.
- Service from front of bath wall. Tools required for removal.
- Maximum flow rate 160 litres per minute.
- Slip, tee and elbow options available.
- Safety suction break for body entrapment prevention available on elbow option.
- Choice of suction covers.
- Complies with Australian Standard AS3861.



### Safe-Flo

- Easy click-in installation.
- Service from front of bath wall - tools required for removal.
- Body and hair entrapment safety functions.
- Self-drains (up to 12 degree bath wall slope) minimising bacterial growth.
- Low profile (almost flat on a bath wall).
- Compact elbow (ideal for plumbing in all bath types).
- Pre-Seal option eliminates need for sealant during installation.
- Tested to 380 litres per minute flow.

## Size / Dimensions

### Standard

Suction cover diameter -	100mm
Hole size diameter -	60mm
Covers protrude from face of bath wall -	22mm
Protrusion from back of bath wall : tee -	84mm
: elbow -	57mm



### Safe-Flo

Suction cover diameter -	90mm
Hole size diameter -	70mm
Covers protrude from face of bath wall -	10mm
Protrusion from back of bath wall : Standard elbow -	63mm
: Pre-Seal elbow -	60-70mm (dependant on thickness of bath wall.)

# Suctions

## Suction Cover



## Suction Cover



## Air Breather



## Suction Body

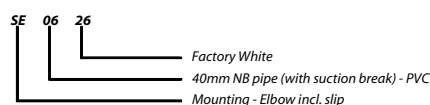
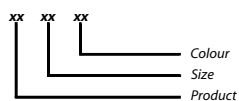


Note: Some product may not be available in certain territories due to exclusivity arrangements.

## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

**Example**



Product	Code	Suction Face	Code	Colour	Code
Suction Cover	SC	2 Vane Sets	01	White (NZ, AUST, UK, EUR)	01
		3 Vane Sets	02	Almond Ivory (Soft Cream - UK)	02
		2 Ring Sets	03	Chrome	03
		Safe-Flo - Vanes	04	Gold	04
				Polished Brass	05
				Satin Chrome	06
				Pergamon (Alabaster)	07
				White (USA)	10
				(custom colours on request)	

Product	Code	Size	Code	Colour	Code	Optional Extras
Slip Suction Standard - incl. nut	SS	40mm NB pipe - long (ABS)	01	Factory White	26	S**
		40mm NB pipe - long (PVC)	02			S**
		40mm NB pipe - short (ABS)	03			S**
		40mm NB pipe - short (PVC)	04			S**
		50mm OD pipe - long (ABS)	05			S**
		50mm OD pipe - long (PVC)	06			S**
		50mm OD pipe - short (ABS)**	07			S**
		50mm OD pipe - short (PVC)**	08			S**
Note ** currently in development.		50mm NB pipe - (PVC)**	09			S**
Tee Suction Standard incl. slip	ST	40mm NB pipe - (ABS)	01	Factory White	26	
		40mm NB pipe - (PVC)	02			
		50mm OD pipe - (ABS)**	03			
Note ** currently in development.		50mm OD pipe - (PVC)**	04			
		50mm NB pipe - (PVC)**	05			
Elbow Suction Standard - incl. slip	SE	40mm NB pipe - (ABS)	01	Factory White	26	
		40mm NB pipe - (PVC)	02			
		50mm OD pipe - (ABS)	03			
		50mm OD pipe - (PVC)	04			
		40mm NB pipe (with suction break) - ABS	05			
		40mm NB pipe (with suction break) - PVC	06			
		50mm OD pipe (with suction break) - ABS	07			
		50mm OD pipe (with suction break) - PVC	08			
Elbow Suction Safe-Flo Pre-Sealable	SE	40mm NB pipe - (ABS)	09	Factory White	26	S**
See page 28 for air breather codes.		40mm NB pipe - (PVC)	10			S**
		50mm OD pipe - (ABS)	11			S**
Note ** currently in development.		50mm OD pipe - (PVC)	12			S**
Elbow Suction Safe-Flo Standard	SE	40mm NB pipe - (ABS)	13	Factory White	26	
See page 28 for air breather codes.		40mm NB pipe - (PVC)	14			
		50mm OD pipe - (ABS)	15			
		50mm OD pipe - (PVC)	16			

\*\* Currently in development S - Pre-Seal System

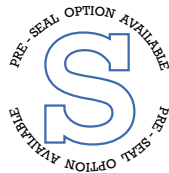
A universal pneumatic button that is ideal for many applications including spa baths, spa pools and kitchen waste disposal units. The air button incorporates a unique patented valving system ensuring full return of the plunger to the rest position. It is designed to be flush mounted and is low profile. There is a choice between the standard air button and a water tight button with the option of the "Pre-Seal" system on both. The water tight button is recommended for a shower over bath environment. "Pre-Seal" buttons come with a pre-applied sealant bead, eliminating the need for further sealants to be used in installation.

## Features & Benefits

- Large displaced volume of air allows for distant operation of the air switch (up to 10 metres).
- Choice of standard or water tight button with or without on/off symbol.
- Patented valving system prevents unintentional operation of the air switch and ensures full return of the plunger to the rest position.
- Pre-Seal option available.
- Water tight button seals to the underside of the cap trim when in the up position eliminating water leaks.
- Top serviceable.
- Suitable for up to 25mm wall thickness

## Size / Dimensions

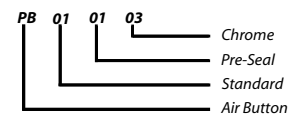
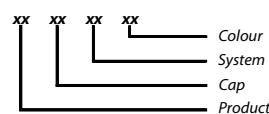
Cap diameter - 46mm  
Mounting hole size - 32mm



## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



Product	Code	Cap	Code	Colour	Code	Optional Extras
Air Button	PB	Standard	01	White (NZ, AUST, UK, EUR)	01	S
		Water Tight	04	Almond Ivory (Soft Cream - UK)	02	S
		Standard I/O	07	Chrome	03	S
		Water Tight I/O	08	Gold	04	S
				Polished Brass	05	
				Satin Chrome	06	
				Pergamon (Alabaster)	07	
				White (USA)	10	
				(custom colours on request)		

S - Pre-Seal System

Suitable for all spa baths and available as a standard or silent version. The Markon "Pre-Seal" system is available as an option on all air controls. Pre-Seal air controls come with a pre-applied sealant bead, eliminating the need for further sealants to be used in installation.

## Features & Benefits

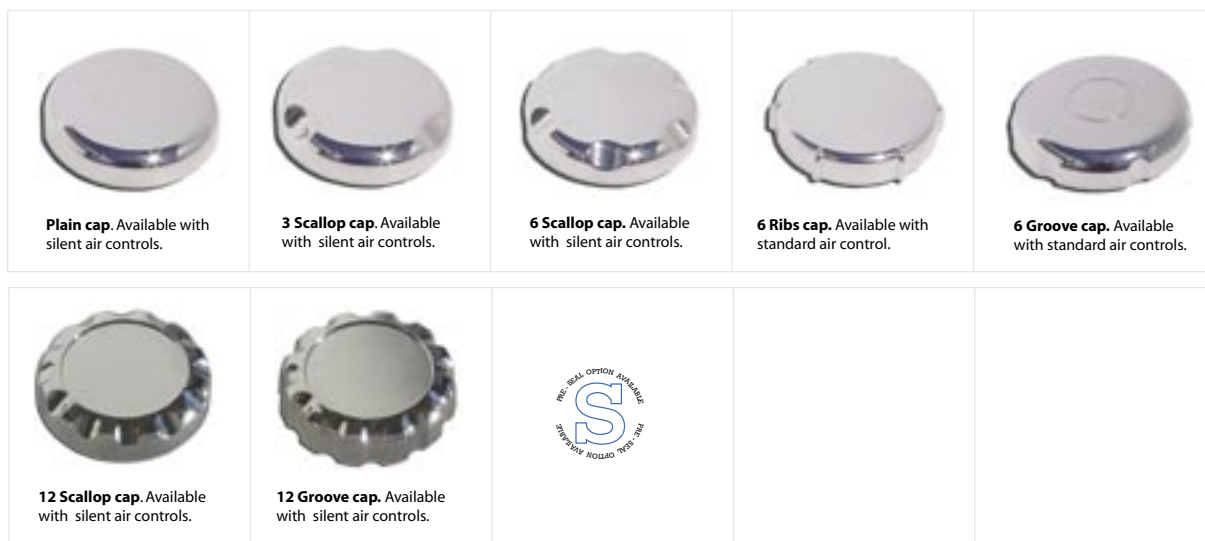
- High airflow rates.
- Cap designs match range of jet faces.
- Pre-Seal option available.
- Top serviceable for ease of maintenance.
- Silent air control's suitable for up to 20mm bath wall thickness.
- Standard air control's suitable for up to 16mm bath wall thickness.
- Bodies available in ABS or PVC.
- Bodies available in different styles.



## Size / Dimensions

Cap diameter - 46mm  
Mounting hole size - 32mm

## Cap Face



## Air Control Body



Note: Some product may not be available in certain territories due to exclusivity arrangements.

# Air Controls

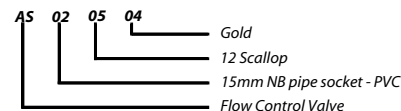
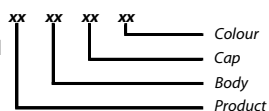
## Adapters



## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



Product	Code	Body	Code	Cap	Code	Colour	Code	Optional Extras	
Silent Air Control	AS	15mm NB pipe socket - ABS	01	Plain	01	White (NZ, AUST, UK, EUR)	01	S	
		15mm NB pipe socket - PVC	02	3 Scallop	02	Almond Ivory (Soft Cream - UK)	02	S	
			2 x 10mm NB spigot - ABS	03	6 Scallop	03	Chrome	03	S
			2 X 10mm NB spigot - PVC	04	6 Ribs **	04	Gold	04	S
			20mm OD pipe - ABS	05	12 Scallop	05	Polished Brass	05	S
			20mm OD pipe - PVC	06	12 Groove	06	Satin Chrome	06	S
							Pergamon (Alabaster)	07	
							White (USA)	10	
							(custom colours on request)		

Note\*\* Currently in development    S - Pre-Seal System

Product	Code	Body	Code	Cap	Code	Colour	Code	Optional Extras
Standard Air Control	AN	15mm NB pipe socket - ABS	01	6 Groove	01	White (NZ, AUST, UK, EUR)	01	S
		15mm NB pipe socket - PVC	02	6 Ribs	02	Almond Ivory (Soft Cream - UK)	02	S
						Chrome	03	
						Gold	04	
						Polished Brass	05	
						Satin Chrome	06	
						Pergamon (Alabaster)	07	
						White (USA)	10	
						(custom colours on request)		

S - Pre-Seal System

Product	Code	Size	Code	Colour	Code
Air Control Adapters	MA	25mm NB straight socket - ABS	01	Factory White	26
		25mm NB straight socket - PVC	02		
		25mm NB 90 degree elbow - ABS	03		
		25mm NB 90 degree elbow - PVC	04		
		2 x 10mm NB spigot - ABS	05		
		2 x 10mm NB spigot - PVC	06		

Note: Some product may not be available in certain territories due to exclusivity arrangements.

Markon flow control valves have many unique features and benefits including the ability to handle water contaminated with sand and grit. Innovative design of the valve centre and the adjacent sealing faces on the body has produced a valve that will allow the free flow of contaminated water without affecting the operation of the valve. When flushed with clean water, any grit or dirt that may have entered the valve cavity is flushed away in seconds. The teardrop handle version comes complete with a flexible gasket to seal against the bath wall eliminating the need for further sealing.

## Features & Benefits

- High flow rates with minimum pressure loss.
- Gasket seal on teardrop version.
- Patented self-flushing design.
- Low bypass rates.
- Compact design allows for use in confined spaces.
- Top access for servicing and lubrication.
- Available in a range of handles.
- Patented "Quick Fit" system for fast cost effective installation.
- Available in ABS or PVC.
- Available in metric or imperial.
- Quiet operation.

## Size / Dimensions

Available in 2 x 25mm NB pipe sockets or 2 x 32mm OD pipe sockets.

Cap diameter - Tear Drop	64mm
- Other caps	46mm
Mounting hole size -	32mm
Depth from rear of valve to front of bath wall -	65mm



# Flow Control Valves

## Cap



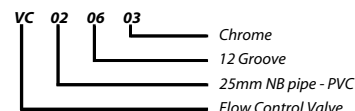
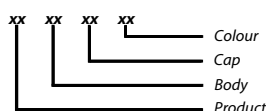
## Body



## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



Product	Code	Body	Code	Cap	Code	Colour	Code
Flow Control	VC	25mm NB pipe - ABS	01	Tear Drop	01	White (NZ, AUST, UK, EUR)	01
		25mm NB pipe - PVC	02	3 Scallop	02	Almond Ivory (Soft Cream - UK)	02
		32mm OD pipe - ABS **	03	6 Scallop **	03	Chrome	03
		32mm OD pipe - PVC **	04	6 Ribs **	04	Gold	04
				12 Scallop	05	Polished Brass	05
				12 Groove	06	Satin Chrome	06
						Pergamon (Alabaster)	07
						White (USA)	10
						(custom colours on request)	

Note\* Gasket seal fitted to Tear Drop handle. \*\* Currently in development

Available in two sizes, these patented Markon diverter valves have many unique features. Innovative design of the valve centre and its adjacent sealing faces on the body has created a valve that will allow the free flow of contaminated water without affecting the operation of the valve. When flushed with clean water, any grit or dirt that may have entered the valve cavity is flushed away in seconds. The tear drop handle version comes complete with a flexible gasket to seal against the bath wall eliminating the need for further sealing.

### *Features & Benefits*

- High flow rates with minimum pressure loss.
- Patented self-flushing design.
- Low by-pass rates.
- Quiet operation.
- Gasket seal on tear drop handle version eliminates the need for sealant to the bath wall.
- Top access for servicing and lubrication.
- Available in a range of handles.
- Patented "Quick Fit" system for fast cost effective installation.
- Available in ABS or PVC.
- Available in metric or imperial.

### *Size / Dimensions*

25mm version is 3 x 25mm NB pipe sockets.

40mm version is 1 x 40mm NB pipe socket (entry) and 2 x 40mm NB pipe spigots (exits)

Cap diameter - 54mm

Hole size diameter - 32mm

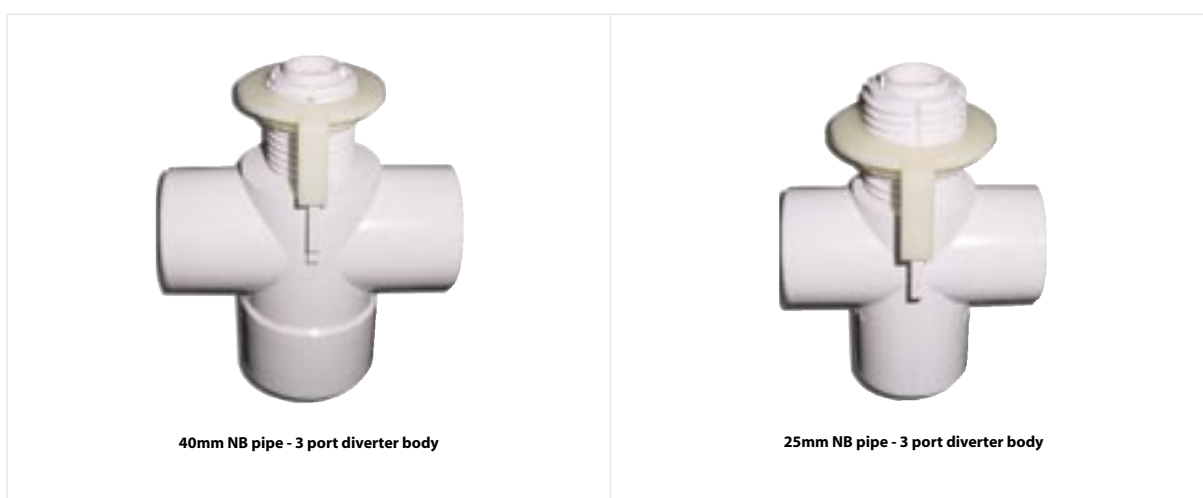


# Diverter Valves

## Cap



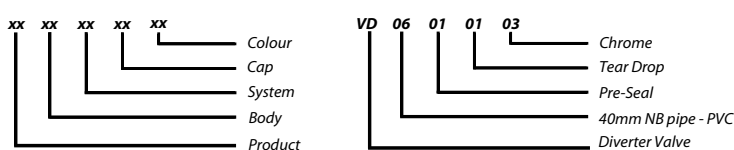
## Body



## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add an "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



Product	Code	Body	Code	Cap	Code	Colour	Code
Diverter Valve	VD	25mm NB pipe - ABS	01	Tear Drop	01	White (NZ, AUST, UK, EUR)	01
		25mm NB pipe - PVC	02	3 Scallop	02	Almond Ivory (Soft Cream - UK)	02
		32mm OD pipe - ABS **	03	6 Scallop **	03	Chrome	03
		32mm OD pipe - PVC **	04	6 Ribs **	04	Gold	04
		40mm NB pipe - ABS	05	12 Scallop	05	Polished Brass	05
		40mm NB pipe - PVC	06	12 Groove	06	Satin Chrome	06
		50mm NB pipe - ABS **	07			Pergamon (Alabaster)	07
		50mm NB pipe - ABS **	08			White (USA)	10
						(custom colours on request)	

NOTE: \* Gasket seal fitted to tear drop handle    \*\*Currently under development

## Air Supply Manifolds



## Water Supply Manifolds



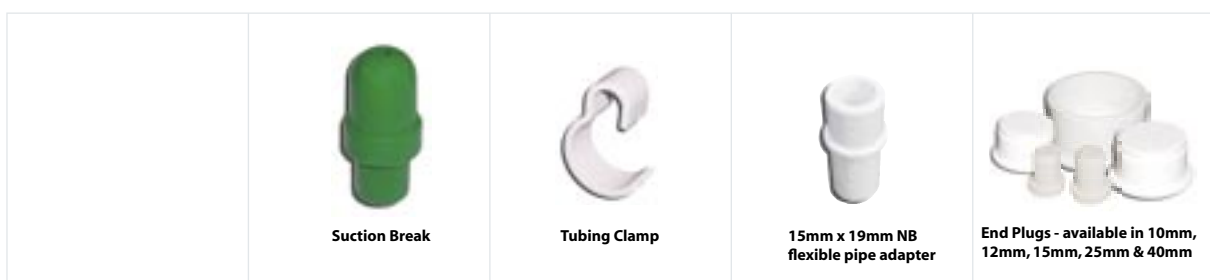
## Air Breathers

## Tees



## Air Control Adapters

## Accessories



Product	Code	Size	Code	Colour	Code
Supply Manifolds - Air	MS	25mm NB x 2 off 10mm NB (short) - ABS	11	Factory White	26
		25mm NB x 2 off 10mm NB (short) - PVC	12		
		25mm NB x 6 off 10mm NB - ABS	13		
		25mm NB x 6 off 10mm NB - PVC	14		
		10mm NB x 8 off 10mm spigot - ABS *	15		
		10mm NB x 8 off 10mm spigot - PVC *	16		
		25mm NB x 2 off 10mm NB (long) - ABS	17		
		25mm NB x 2 off 10mm NB (long) - PVC	18		
		Note* Also available on request in multiples of 2 spigots (minimum 4 spigots)			

Note: Some product may not be available in certain territories due to exclusivity arrangements.

## Manifolds & Accessories

Product	Code	Size	Code	Colour	Code
Supply Manifolds - Water	MS	25mm NB x 6 off 15mm NB socket - ABS	01	Factory White	26
		25mm NB x 6 off 15mm NB socket - PVC	02		
		25mm NB x 6 off 12mm NB socket - ABS	03		
		25mm NB x 6 off 12mm NB socket - PVC	04		
		25mm NB x 2 off 15mm NB socket - ABS	05		
		25mm NB x 2 off 15mm NB socket - PVC	06		
		25mm NB x 2 off 12mm NB socket - ABS	07		
		25mm NB x 2 off 12mm NB socket - PVC	08		

Product	Code	Size	Code	Colour	Code
Air Control Adapters	MA	25mm NB straight socket - ABS	01	Factory White	26
		25mm NB straight socket - PVC	02		
		25mm NB 90 degree elbow - ABS	03		
		25mm NB 90 degree elbow - PVC	04		
		2 x 10mm NB spigot - ABS	05		
		2 x 10mm NB spigot - PVC	06		

Product	Code	Size	Code	Colour	Code
Tees	MI	10mm NB x 10mm NB centre - ABS	01	Factory White	26
		10mm NB x 10mm NB centre - PVC	02		
		10mm NB x 10mm NB side - ABS	03		
		10mm NB x 10mm NB side - PVC	04		
End Plugs	MP	10mm NB - ABS	01	Factory White	26
		10mm NB - PVC	02		
		25mm NB - ABS	03		
		25mm NB - PVC	04		
		40mm NB - ABS	05		
		40mm NB x - PVC	06		
		15mm NB - ABS	07		
		15mm NB - PVC	08		
		12mm NB - ABS**	09		
		12mm NB - PVC**	10	** Currently in development	

Product	Code	Size	Code	Colour	Code
Tubing Clamp	MO	25mm x 10mm	01	Factory White	26
Pipe Adapter	MO	15mm NB x 19mm NB flexible pipe	02		
Suction Break	MO	10mm break	03	Factory Green * available for suction break only	65

Product	Code	Version	Code	Colour	Code	Optional Extras
Air Breather	AB	Under Bath Non- Return-Valve* **	01	Factory White	26	
		Surface Mount Plain Cap	02	White (NZ, AUST, UK, EUR)	01	S
				Almond Ivory (Soft Cream - UK)	02	
				Chrome	03	
				Gold	04	
				Polished Brass	05	
				Satin Chrome	06	
				Pergamon (Alabaster)	07	
				White (USA)	10	
				(custom colours on request)		

\* Available only in factory white. \*\* Currently under development S - Pre-Seal System

Note: Some product may not be available in certain territories due to exclusivity arrangements.

The range includes three different shower jets including the Super Spray Jet, Spray Jet and MarkoJet. There is a range of bodies to suit plumbing methods which allow the jets to be used in pre-assembled shower systems or for direct wall mounting. Pre-Seal is available with all shower bodies other than the BSP Male fitting.

## Features & Benefits

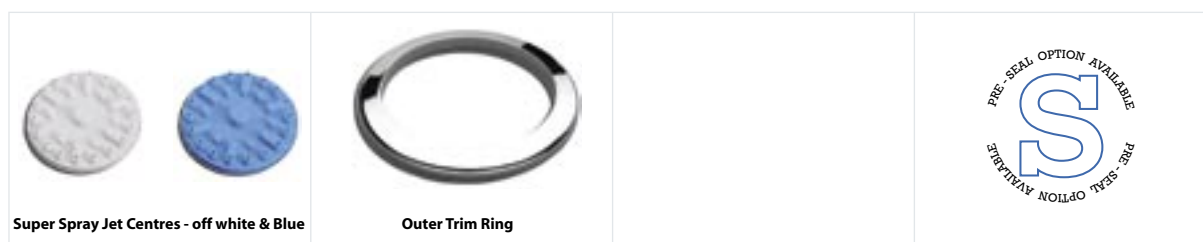
- Low profile jet face options.
- Pre-Seal available on selected bodies.
- The MarkoJet offers a pulsating body massage.
- Easy clean with front access to the jet internals.
- All jets are directional.
- Outer trim ring available.
- Choice of Flexi, Pipe or BSP bodies.
- Bodies available in Acetyl only.



## Size / Dimensions

Jet face diameter with normal trim -	55mm
Outer trim ring diameter -	70mm
Low profile jets (Spray & MarkoJet) protrude -	18mm
Super Spray jet protrudes -	30mm
Behind front of wall depth -	40mm
Hole size diameter -	40mm

Available In Retail Packaging



Note: Some product may not be available in certain territories due to exclusivity arrangements.

# Shower Jets

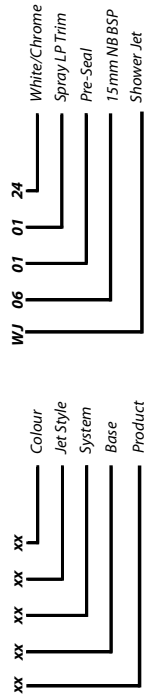
Product	Code	Body	Code	Jet Style	Code	Colour	Jet	Trim	Outer Trim	Code	Optional Extras
Shower Jets	WJ	2 x 12mm NB Flexi	01	Spray Low Profile - with trim	01	NA	White	Chrome	NA	24	S
		1 x 12mm NB Flexi	02	Spray Low Profile - with trim & outer trim	02	NA	White	Chrome	Chrome	25	S
		2 x 12mm NB Pipe (incl.nuts)	03			NA	White	Satin Chrome	Satin Chrome	45	S
		1 x Quick Fit **	04								S
		2 x Quick Fit **	05	MarkoJet Rotary - with trim	03	White	White	Chrome	NA	27	S
		15mm NB BSP male fitting	06	MarkoJet Rotary - with trim & outer trim	04	White	White	Chrome	Chrome	28	
		Note** Currently in development				White	Grey	Chrome	NA	29	
						White	Grey	Chrome	Chrome	30	
						Blue	White	Chrome	NA	31	
						Blue	White	Chrome	Chrome	32	
						Blue	Grey	Chrome	NA	33	
						Blue	Grey	Chrome	Chrome	34	
						White	White	Chrome	Chrome	46	
				Super Spray - with trim	05	Blue	Chrome	Chrome	NA	35	
				Super Spray - with trim & outer trim	06	Blue	Chrome	Chrome	Chrome	36	
						Blue	Grey	Chrome	NA	37	
						Blue	Grey	Chrome	Chrome	38	
						Off White	Chrome	Chrome	NA	39	
						Off White	Chrome	Chrome	Chrome	40	
						Off White	Grey	Chrome	NA	41	
						Off White	Grey	Chrome	Chrome	42	
						Blue	Satin Chrome	Satin Chrome	Satin Chrome	47	
						Off White	Satin Chrome	Satin Chrome	Satin Chrome	48	
						(custom colours on request)					

S - Pre-Seal System \*\* Currently Under Development

## Product Code Generation

Markon product codes are alpha-numeric. To order optional extras add the suffix at the end. (i.e for Pre-Seal add a "S" at the end of the code. Note: Optional extras are only available for the product sizes defined in line with the suffix.

### Example



All information contained in Markon Holdings Limited (Markon) literature is accurate to the best of our company's knowledge. Suggestions may be made and are without warranty or guarantee of results. Before using any Markon product, the user should determine the suitability of the product for its intended use (including but not limited to dimensions, fit and function). The user assumes the risk and liability in connection of the former, not withstanding any suggestions, advice or assistance that may be given by Markon's personnel.

## PRICING

For pricing, see separate price sheet. Prices are subject to change without prior notice. Prices on Markon price lists are those, which are in effect as of the date of publication and are only fixed for the time mentioned in our offer. Invoices will reflect the prices in effect upon the date of receipt of order. If in doubt, contact Markon for current pricing prior to order placement.

## TERMS / PAYMENT

Payment shall be made within the date specified in the invoice. Where such date is not stated, we reserve the right to supply only against a prepayment or payment shall be made cash on delivery. All payments are to be in the currency stated. Terms are issued upon approval.

## TAXES

Prices do not include sales, use, license, excise or other taxes with respect to the manufacturer, sales, delivery, and export duties of the goods, all of which are the sole responsibility of the customer.

## SHIPMENTS AND DELIVERY

Unless otherwise stated and agreed the goods are shipped ex-works. Shipping and delivery dates are given as estimates only, based on factors in existence at the time such estimates are made. Each delivery will be deemed to be a separate sale, and the customer will make payment on partial deliveries. Markon will not be liable for damages due to delays in, or the inability to complete the manufacture and delivery of goods due to labour difficulties, weather, acts of GOD, government acts or regulations, shipping delays, inability to obtain equipment or materials from source of supply, or any other cause whatsoever beyond reasonable control of Markon. Markon does not accept requirements for compensation from delays.

## DAMAGES AND RISK OF LOSS

All damages or risk of loss and all incidents of title and ownership will pass to the customer upon Markon's delivery of the goods to the carrier (FOB shipping point), even if Markon may have selected the carrier. In no event will Markon be liable for any loss or damage, including but not limited to loss of profits, incidental or consequential damages, that result after Markon delivers the goods to the carrier or during shipment of the goods. For any such loss or damage, Markon will have no responsibility whatsoever, and the customer will be responsible for initiating and processing all claims directly with the carrier.

## LIMITED WARRANTY

Markon warrants that all of the products it manufactures are free from manufacturing defects in materials and workmanship. Inspection of all components manufactured by others and used in Markon's products is conducted and Markon warrants that those components are free from manufacturing defects in material and workmanship that are detectable by such reasonable inspection. The foregoing warranties are in lieu of all other warranties, express or implied, including but not limited to the warranty of fitness for a particular purpose. The foregoing warranties are void if the product has not been used, cared for and maintained in accordance with written instructions that may accompany product or if the product has been otherwise unreasonably used, neglected, mishandled, or improperly serviced or stored or if the product has been damaged by accident or other casualty. No employee or representative of Markon has authority to bind the company to any representation, promise or warranty concerning Markon's products. Unless a representation, promise or warranty is set forth in this instrument it is not enforceable by the customer. The customer's sole and exclusive remedy against Markon for breach of warranty will be for the repair or replacement of the defective product or, at Markon's option, a refund of the purchase price paid by the customer for the product upon the return of the product to Markon. No other remedy, including but not limited to compensation for property damage, lost profits, lost sales, or incidental or consequential damages, will be available to the customer. Claims under the foregoing warranties must be made by obtaining prior return authorisation and shipping instructions from Markon and returning the defective product in accordance with Markon's return policy then in effect. Markon's products are intended for sale to manufacturing and wholesaling customers only. This paragraph constitutes the complete and final expression of any and all warranty agreements between Markon and the customer notwithstanding any usage of trade, course of dealing, documents sent to Markon by the customer or oral or written statements made by Markon's agents, employees or representatives.

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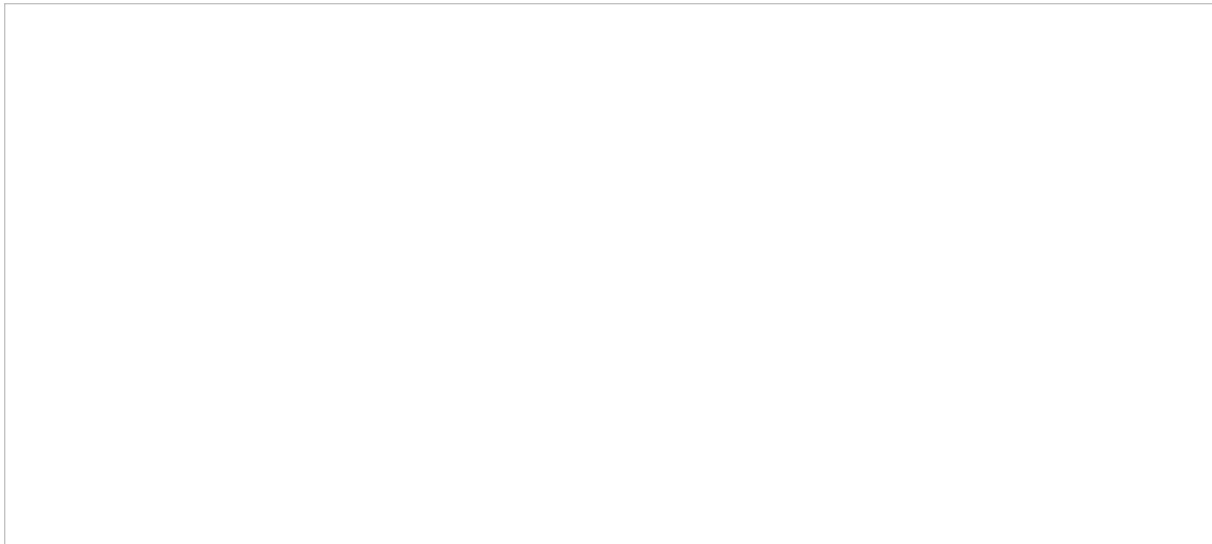
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