COBRA TECHNICAL PRODUCT CATALOGUE

COBRA

FLUSHVALVES



INTRO DUCTION

Cobra is an iconic South African brand with a history of more than 60 years in the supply and manufacturing of plumbers' brassware in the country. Our technical range of products are designed and engineered to perform to perfection and provide a care free installation to the Plumber and DIY enthusiast.

Our products are manufactured in South Africa using top of the range, latest technology in our world class facilities. In order to ensure we remain renowned for our quality and durability, we use the highest quality materials suitable to outlast hash water and environmental conditions. Now 100% owned by LIXIL, we have access to the knowledge, capabilities and product platforms of the biggest and most innovative sanitary ware company in the world. This, combined with a wealth of local industry knowledge, experience and skills, will ensure we continue to make a significant impact in the industry.

We are entering into a new era for Cobra. It is one which promises innovative new products for both the professional and end user, ensuring we remain the brand you trust.

I would like to take this opportunity to thank all our customers, who have played an integral role in building our brand and look forward to continuing our success story with you.

Yours sincerely Natie van der Westhuizen Chief Operations Officer, LIXIL Africa

ABOUT US

Cobra is the tried-and-tested, much-loved South African brand that plumbers and plumbing merchants rely on for its extensive range of plumbing hardware. The comprehensive range includes compression fittings, wastes and traps, flush valves and pressure control valves amongst others.

With over 60 years of expertise, we have made a name for ourselves as the market leader in plumbing fittings. This, along with our unwavering commitment to produce the best quality products that adhere to the highest independent standards, ensures that our products boast state-of-the-art global appeal.

Cobra is truly a South African icon that continues to leave a lasting impression.

ORGANISATIONAL

TIMELINE

Closy Slim •

1967

First Pressure Control Valve (PCV) launched in South Africa

1873

Carl Nestler, the technological leader for thermostats was founded 1946

Vaal Sanitaryware started manufacturing sanware

1943

Vaal Pottery started off by manufacturing ornaments, ashtrays and crockery | 1950

Friedrich Grohe infiltrated the South African market 1971

Day-Nite Plastics was renamed as Plexicor and started producing acrylic bathroom fittings - leading to the production of baths in 1974

1956

GROHE acquires Carl Nestler, creating the subsidiary GROHE Thermostat GmbH Kwik

Closv

Closy PCV as know it today Closy Slim P

1970 First High Pr PCV launche South Africa

1880

1936

Friderich

Grohe buys

Paschedag

Berkenhoff &

1948

B&P was

renamed after

Friedrich Grohe

Armaturenfabrik

1950

1970

• Ma

Firs

Early 60's

British company Pegler, SANBRA, McKechnies & GROHE amalgamate to form Consolidated Brass Foundries (Cobra)

Masterl

1961

GROHE expands internationally

Facily carvics

Easily servical inte

• Crutch

1951Made by
Friedrich Grohe

• Ovent

1964
First Pressure
Reducing Valve
launched in
South Africa

MasterFlo I Compression Model 1991 Suitable for emerging copper pipe market 1979 1991 GROHE Libra began 2015 manufacturing goes public bathroom and buys LIXIL takes over products in Eichelberg management Cape Town of GROHE Dawn Water Technology 1982 1992 The GROHE Vaal Sanitaryware buys Flow plant in out Cobra Bathrooms Edelburg, (Pty) Ltd. Hemer opens essure <u> 2020</u> sterFlo I nline and integral PCV 2017 1986 LIXIL wholly acquires GROHE Castle Watertech Dawn Water and Cobra Brassware Technology consolidated to become Cobra Watertech 1980 2014 1976 Isca was **GROHE** ole inline created by Yigal egral PCV Yaretzkey and Dawn Water Avi Schacher Technology was formed XTS PCV Cobratron 2001 Expansion tank replaces First Cobra overflow port electronic





WHY COBRA

- Established in 1954 by Frederich Grohe 63 years of local experience
- Our factory quality management systems are ISO 9001 certified.
- We hold permits to apply the SABS mark to products covered by the following South African National Standards.*
- Eco-friendly manufacturing plant.
- Providing jobs for 1 700 employees.
- 10 years genuine warranty support.
- National after-sales service support by qualified plumbers (on-site repair or replacement within 48 hours). Local call centre 0861 21 21 21.
- Recipients of the 2016 Customer Service Award of the Year from SEIFSA (Steel & Engineering Industries Federation of South Africa).
- Made in RSA & developed for African conditions ensuring product longevity against the presence of lead & nickel (DZR brass).
- Spares & parts widely available.
- Backing of two global giants (GROHE & LIXIL).
- Our products come standard with water saving technology.
- Local marketing support & investment to drive sell-through (promoters, activations etc.).
- Local training support for your teams.
- Tried & quality-proven local exclusive ranges on offer.
- Our products have a global footprint.

*SANS Standards

SANS 198

SANS 226 classes 1 and 2

SANS 752 SANS 776

SANS 1056

SANS 1067- Part 1

SANS 1067- Part II SANS 1240

SANS 1480

SANS 1808 - 9

SANS 1808 - 10

SANS 1808 - 53

SANS 1808 - 58 SANS 1808 - 66

SANS 21003 Cobra

Functional control and safety valves Screw-down taps and mixers, basin, bath

and shower sets

Float valves

Gate valves

Ball cocks

Compression fittings

Capillary fittings

Automatic shut-off valves

Single lever mixers

Metering taps

Spring-loaded check valves

Drain cocks

In-line strainers

Demand taps

Multilayer Piping Systems for hot and cold water-installations inside buildings; pipes

(MLP).

OUR EXPERTISE

Customer Service and Spares

At Cobra, we are renowned for our after-sales service and availability of spares, affording our customers peace of mind. Our service team was recipient of the 2016 Customer Service Award of the Year from the Steel & Engineering Industries Federation of South Africa (SEIFSA). Our dedicated national after-sales service number (0861 21 21 21) enables customers to speak directly to a service consultant for over-the-phone advice or to book a service call for a consultant to personally visit the site in question. We are committed to attending to our customers' calls within 24 hours.

Quality/Certifications

Quality remains one of the key pillars of continuous improvement. At Cobra, our people are continually coached to ensure they adhere to our quality principles and observe correct procedures.

Our quality management systems at our manufacturing facilities in Krugersdorp and Springs are SABS ISO 9001 certified.

Our technical products are produced and tested to meet in-house standards. Where there is a South African standard in place, such as the South Africa National Standard (SANS) by the South Africa Bureau of Standards (SABS), our products are tested and certified to ensure they conform.

Selected Cobra products are also Joint Acceptance Scheme for Water Installation Components (Jaswic) approved and listed, which means they are accepted for use by municipal bodies.





AERATORS



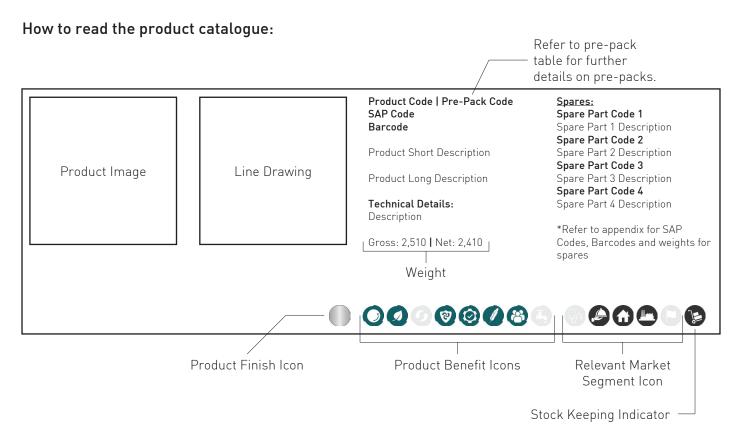
GLOSSARY + GUIDELINE TABLE



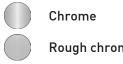
Products bearing this mark have met all requirements of the relevant South African National Standards (SANS) standard and have been certified by the South African Bureau of Standards (SABS).



Products bearing this mark were manufactured and/or assembled in manufacturing facilities where the quality management systems have been SABS ISO 9001 certified.



Product Finish:



Rough chrome



White



Brass



Black

Some of our Cobra Technical products are finished with our Cobra PureShine chrome finish. SANS requires a chrome plate thickness of 0.3 microns (µm) to reduce wear on the product. Cobra chrome plating exceeds this with an average thickness of 0.44µm, while the electroplated nickel substrate on our products exceeds the statutory 12µm with an average of 13.75µm.

Ultimately, users can be assured that Cobra chrome plated products offer superior wear resistance. The below icons indicate the colour of the corresponding product in the catalogue section of this book.

Product Features and Benefits:

Cobra products are produced to offer maximum added value to customers. The figure below shows the various features and benefits of our product portfolio.

In the catalogue section of this book, the features attributed to each product are denoted by the relevant icon.



PureShine

Durable chrome surfaces protect the products from scratches, are resistant to dirt and easy to maintain.



EcoMind

Save precious resources with water-saving technology.

Flow restrictors supplied with Cobra taps and mixers can be easily serviced by home owners. The restrictors are pressure compensating, meaning the stipulated flow will not be exceeded, regardless of inlet pressure.



EasySwitch

For a fresh look, change out the head of your tap without changing the body.

The handle assembly can be removed from Cobra screw down type taps. Depending on the type of headpart used in the tap ($\frac{1}{2}$ " light pattern, $\frac{1}{2}$ " heavy pattern or $\frac{3}{4}$ "), various designs of Cobra handle assemblies can be used to replace the old design.



Dezincification resistant brass (DR/DZR brass)

Dezincification relates to the corrosion of brass. The minimisation of this is a critical aspect of the quality (fitness for purpose) of plumbing fittings that come into contact with water. The risk and rate of dezincification increases with water hardness and the acidity or alkalinity of water (away from a PH of 7).

Dezincification-resistant brass, or DZR/DR brass, is brass that is characterised by exceptional resistance to this type of corrosion. The resistance is achieved by adherence to exacting specifications for chemical composition and careful process controls. All DZR brass must pass an ISO 6509 dezincification resistance laboratory test.

In South Africa, the use of DZR brass for components of brass plumber's fittings come into contact with water is national law. Building inspectors are being trained to demand the removal of plumber's brassware that does not conform to statutory law.



FeatherTouch

The lightest of touches is required for effortless opening and closing of the single lever mixer.



TeamAssist

Trained and dedicated service teams are in place to provide support pre and post installation.



Cobra Genuine

Genuine spare parts are locally made and readily available.



Low Water Pressure

Suitable for use in environments with low water pressure.

Product Market Segments:

Cobra products are produced to satisfy the needs of a variety of market segments or project types. The below shows the various market segments serviced by the Cobra product portfolio.

In the catalogue section of this book, the appropriate market segments attributed to each product are denoted by the relevant icon.



Health Facilities

This segment includes public and private hospitals, clinics, frail care facilities, veterinary hospitals and doctors' rooms.



Residential

This includes high, medium and entry-level housing.



Government

This segment includes the Department of Public Works and Department of Correctional Services; South African Police Services; Departments of Human Settlements, Health, Basic Education; Department of Higher Education and Training; Department of Defence; Department of Rural Development; South African Revenue Services; Department of Sport and Recreation and the Department of Transport.



Hospitality

This segment includes hotels, guest houses, guest lodges, inns, self-catering lodges and convention centres.



Commercial or Industrial

Included in this segment is office buildings, petrol garages, warehouses, factories, shopping centres, shopping malls, retail outlets, sports facilities and distribution centres.

Stock Keeping Policy:

The LIXIL stock keeping policy differentiates between products where stock is stored in distribution centres for future sales and products that are either made, assembled or purchased according to customer order.



Stock Keeping Items

- These products have been identified as part of the brand's core range where it has proved beneficial for stock to be stored in order to fulfil orders.
- Sales forecast quantities for these items are put together monthly by the LIXIL sales team and stock is produced, assembled or ordered in in advance according to these forecasts as well as any expected new business or promotional activity.
- The primary objective of this policy is quicker stock delivery times to customers as there would already be stock on hand available to be delivered.



Make to Order Items

- These products have infrequent order patterns and are not part of the brand's core ranges. Keeping stock of these items often adds complexity and higher costs to the supply chain process.
- Products and/or parts are only produced or ordered when a customer order has been received.
- Although this may add time to the expected delivery date, the cost savings we achieve by not holding stock of these items allows us to offer other benefits to customers, such as reduced pricing and marketing campaigns.

PRODUCT CARE & MAINTENANCE

Cleaning

To maintain the lustre of chrome plated surfaces simply wipe occasionally with a soft damp cloth using a mild dishwashing detergent or soap solution. Rinse, dry and buff with a soft cloth.

Warning!

Many household and industrial cleaners contain abrasives and/or harsh chemical compounds and acids. Do not use these cleaners as they may irreparably discolour, dissolve or scuff the chrome plated finish.

Avoid using abrasive cloths or scouring pads.

Maintenance

The frequency and extent of maintenance required for this product varies according to prevailing site and operational conditions. No regular maintenance is required and spare parts are available for key components.

LIXIL Africa Service Call Centre: LIXIL Africa Service E-Mail: LIXIL Website: 0861 21 21 21 service.africa@lixil.com www.lixil.co.za

WARRANTY

LIXIL Africa warrants that their products will be clear of material and manufacturing defects. Appraisal of the above will be done against ruling manufacturing specifications and standards at the date of manufacture. Defective product will be repaired or exchanged at LIXIL Africa's sole discretion. LIXIL Africa shall not be liable for indirect or consequential loss or damage.

THE WARRANTY WILL BE VOIDED UNDER THE FOLLOWING CONDITIONS:

- Products used with water pH falling outside of the guidelines set by the Department Of Water Affairs and Forestry or similar body.
- Products not installed by a registered or accredited installer.
- Products used with, or included in, installations where water temperatures are outside of the temperature range stipulated for that product, or as laid down in the standards for water supply and drainage (SANS 10252 & 10254) or an equivalent international standard.
- Products not installed according to manufacturer's installation instructions or according to valid Water Regulations and general good plumbing practice.
- Products which have failed as a result of dirt or debris in pipe-work which has not been flushed prior to the use of terminal fittings.
- Where a defect is attributable to the incorrect use or incorrect handling of the product.
- Where routine maintenance has been neglected.
- If spare parts other than the original spare parts are used during repairs or maintenance of the product.
- If damage was caused by transport by a third party transporter.
- If the surface of the product has been scratched.
- Products used or intended for display purposes.
- If consumables (e.g. filters, filter cartridges, aerators or batteries) or material subject to wear and tear (such as seals or hoses) are affected.
- If product damage is as a result of chemicals and cleaning agents, lime-scale build-up, aggressive environmental influences, or disruptions resulting in damage which are caused by freezing or lime-scale build-up.
- If the defect is caused by specific environmental circumstances (e.g. excess or negative pressure in the line, excess voltage or under voltage on the line).
- If the defect is attributable to wilful or negligent damage to the product by the user or a third party.

LIXIL Africa reserves the right to review any specific case in order to assess the validity of this warranty. LIXIL Africa may charge a discretionary service fee when called out to inspect products which are not LIXIL products or where there is an illegitimate claim.

THE WARRANTY IS VALID FOR:

- 10 years Taps & Mixers, Wastes, Capillary- and Compression fittings
- 3 years Showerheads
- 2 years Electronic Mixers components and Valves
- 2 years Valves (Geyser and Toilet)
- 10 years Cobra-Safe multi-layer pipe system (must be used with Cobra compression fittings and Cobra-Safe inserts or warranty shall be void)
- 10 years all baths, shower trays and vanities, except Tanya, Widestar and Scarlett baths which carry a 5 year warranty
- 20 years on baths with Amanzonite coating
- 10 years on all sanitaryware
- 6 months on all toilet seats supplied by Vaal Sanitaryware

MISCELLANEOUS:

This warranty shall apply in the above-mentioned scope and is subject to the above-mentioned prerequisites. Proof of purchase will be required.

This LIXIL Africa warranty is carried by LIXIL Africa. Please contact our Service Department on 0861 21 21 for warranty enquiries or further warranty information.

FLUSH VALVES

01	FLUSH VALVES	,
	Toilet Flush Valves	,
	Junior Flushmaster Toilet Flush Valves Standard Flushmaster Toilet Flush Valves	í
	Urinal Flush Valves	9
	Junior Flushmaster Urinal Flush Valve	(

FEATURES& BENEFITS

Junior Flushmaster Flush valves:

- Traditional tried-and-tested flush valves.
- Constant flush volume saves water.
- Diaphragm operation for long functional life and low maintenance cost.
- Non-hold open feature- cannot be MADE to waste water.
- 3/4" "Ball-o-stop" control inlet; water can be shut out off at the valve for servicing.
- Flush volume and flow rate can be adjusted.
- Each valve is factory tested to 2,000kPa.
- Robust metal construction renders Junior Flushmaster valves vandal-resistant.
- All components are made from specially selected materials to ensure durability.
- Size allows for space-saving, compact installations.
- Flush time is pre-set to ensure an optimum flush and water saving.
- Hygienic and easy to clean.
- Should you require replacement components, even after many years, you are assured of availability of components or sub-assemblies to ensure continued operations of your Cobra fittings.
- Manufactured from corrosion resistant DZR brass.

Slimline Junior Flushmaster Flush valves:

- Modern minimalistic design well-suited to upmarket public wash rooms.
- Constant flush volume saves water.
- Diaphragm operation for long functional life and low maintenance cost.
- Non-hold open feature- cannot be MADE to waste water.
- ¾" "Ball-o-stop" control inlet; water can be shut out off at the valve for servicing.
- Each valve is factory tested to 2,000kPa.
- Robust metal construction renders Slimline Junior Flushmaster valves vandal resistant.
- All components are made from specially selected materials to ensure durability.
- Flush time is pre-set to ensure an optimum flush and water saving.
- Hygienic and easy to clean.
- Manufactured from corrosion resistant DZR brass.
- Should you require replacement components, even after many years, you are assured
 of availability of components or sub -assemblies to ensure continued operations of your
 Cobra fittings.

Standard Flushmaster flush valves:

- Traditional tried-and-tested flush valves.
- Constant flush volume saves water.
- Each valve is factory tested to 2,000kPa.
- Robust metal construction renders Flushmaster valves vandal-resistant.
- All components are made from specially selected materials to ensure durability.
- Manufactured from corrosion resistant DZR brass.
- No cistern fill-up noise.
- Replaceable piston chamber (top cover assembly).
- Integral vacuum breaker prevents back-siphonage.
- Large inlet for optimum water flow.
- Flush volume and flow rate can be adjusted.
- Hard wearing piston body for long service life.
- Non-hold open feature- cannot be MADE to waste water.
- An inexpensive seal kit allows for complete overhaul if required.
- Should you require replacement components, even after many years, you are assured
 of availability of components or sub -assemblies to ensure continued operations of your
 Cobra fittings.







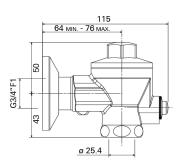
TOILET FLUSH VALVES

Junior Flushmaster Toilet Flush Valves









FJ2-000 FFUUSTFJ-0GT0173 6002194013129

Toilet flush valve

Exposed. Non-hold open feature. With wall flange, integral vacuum breaker, and 'Ball O Stop" control inlet. 3/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 150 - 500kPa for back entry WC pans: inlet flow pressure 200 - 500kPa for top entry WC pans: Maximum system pressure 600kPa.

Spares: C-FL32X3 Wall flange C-FJ8-10 Piston assembly C-FJ8-20 Pushbutton assembly C-FJC1-2 Flush valve top cover

Gross: 1,000 | Net: 0,955







































FJ2-001 FFU1ST01-0GT0173 6002194021162

Toilet flush valve

Exposed. Non-hold open feature. With wall flange, integral vacuum breaker, and 'Ball O Stop" control inlet. 3/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 150 - 500kPa for back entry WC pans: inlet flow pressure 200 - 500kPa for top entry WC pans: Maximum system pressure 600kPa.

Gross: 1,100 | Net: 1,051

Spares: C-FL32X3 Wall flange C-FJ8-10 Piston assembly C-FJ8-20 Pushbutton assembly C-FJC1-2

Flush valve top cover















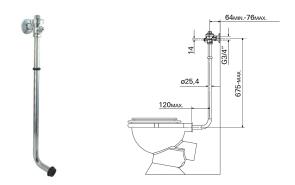












FJ2-100 FFUUSBFJ-0GT0173 6002194013150

Toilet flush valve

Exposed back entry. Non-hold open feature. With wall flange, integral vacuum breaker, and 'Ball O Stop" control inlet. Bent flushpipe with Rubber pan connector and seat buffer, 3/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 150 - 500kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 1,860 | Net: 1,786

Spares: C-FJ8-10 Piston assembly C-FJ8-20 Pushbutton assembly C-FJC1-2 Flush valve top cover FJT1-1 Flush pipe C-FJV1-7 Rubber pan connector C-FJV1-2

Rubber seat buffer

















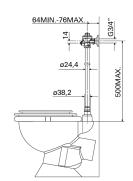












FJ2-210 FFUUSPFJ-0GT0173 6002194013167

Toilet flush valve

Exposed top entry. Non-hold open feature. With wall flange, integral vacuum breaker, and 'Ball O Stop" control inlet. Straight flushpipe with compression pan connector and seat buffer, 3/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 150 - 500kPa for back entry WC pans: Maximum system pressure 600kPa. 500mm Long flush pipe.

Spares: C-FJ8-10

Piston assembly C-FJ8-20

Pushbutton assembly

C-FJC1-2 Flush valve top cover

FJT1-2

Flush pipe C-FJV1-2

Rubber seat buffer

C-FM8-20

Compression pan connector

Gross: 2,000 | Net: 1,920













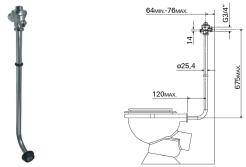












FJ2-601 FFUUSEFJ-0GT0173 6002194013143

Toilet flush valve

Exposed back entry. Non-hold open feature. With wall flange, integral vacuum breaker, and 'Ball O Stop" control inlet. Bent flushpipe with Rubber pan connector and seat buffer, 3/4"BSP female iron connection end.

Techincal Details:

Recommended optimum design pressures: inlet flow pressure 150 - 500kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 1,517 | Net: 1,457

Spares: FJT1-1

Flush pipe C-FJV1-7

Rubber pan connector

C-FJV1-2

Rubber seat buffer

C-FJ8-10

Piston assembly

C-FJ8-20

Pushbutton assembly

C-FJC1-2

Flush valve top cover



















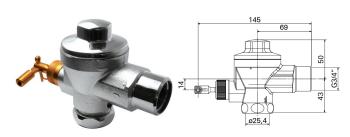








2



FJ4-001 FFU2STFJ-0GT0173 6002194021193

Toilet flush valve

Concealed. Non-hold open feature. With push rod captive linkage, integral vacuum breaker, and 'Ball O Stop" control inlet. 3/4"BSP female iron connection end.

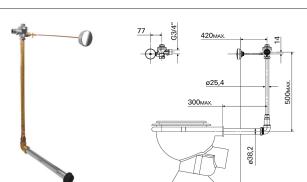
Spares: C-FJ8-10 Piston assembly C-FJC1-2 Flush valve top cover C-FJ8-24 Captive linkage

Technical Details:

Recommended optimum design pressures: inlet flow pressure 150 -500kPa: Maximum system pressure 600kPa.

Gross: 1,106 | Net: 1,057





FJ4-203 FFU4STFJ-0GT0173 6002194013181

Toilet flush valve

Concealed back entry. Non-hold open feature. With integral vacuum breaker, and 'Ball O Stop" control inlet. Straight flushpipe with elbow, 3/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 150 - 500kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 2,880 | Net: 2,765

Spares: FJT1-2 Flush pipe FMT3-4CP Flush pipe C-FM8-45 Elbow connector

C-FM8-3

Rubber pan connector C-KM9-14

Palm press pushbutton assembly

with pushrod C-FJ8-10

Piston assembly

C-FJC1-2

Flush valve top cover

C-FJ8-24 Captive linkage C-FMR1-015

Pushrod

Spares:

C-FJ8-10

C-FJC1-2













Piston assembly C-FJ8-20

Pushbutton assembly

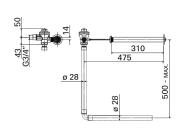
Flush valve top cover











FJ4-203PR FFU6STFJ-0GT0173 6002194015741

Toilet flush valve

Concealed back entry. Institutional version. Non-hold open feature. With integral vacuum breaker, and 'Ball O Stop" control inlet. Capillary reducing coupling outlet for 28mm copper flushpipes, "Through the wall"vandal resistant guide tube, pushrod and captive linkage, pushbutton assembly and rubber pan connector. 3/4"BSP female iron connection end. CP pushbutton assembly.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 150 -500kPa: Maximum system pressure 600kPa.

Gross: 2,060 | Net: 1,978

















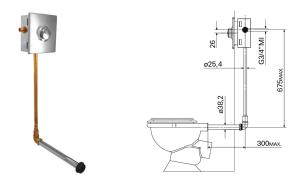












KF4-213 FFU6STKF-0GT0174 6002194021636

Toilet flush valve

Concealed back entry. Non-hold open feature. With integral vacuum breaker, and 'Ball O Stop" control inlet. Junior econo flush master in a front access box with stainless steel face plate and chrome plated palm press pushbutton. With rough brass vertical and chrome plated horizontal flush pipes complete with pan connector. 1 1/4"BSP male iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 150 - 500kPa for back entry toilet pans: Maximum system pressure 600kPa.

Spares: C-FJ8-10

Piston Assembly

C-FJC1-2

Flush valve top cover C-KM9-16

Palm press button for front access

C-FJ8-20

Pushbutton assembly

FJT1-2

Flush pipe

FMT3-4CP

Flush pipe

C-FM8-45

Elbow connector

C-FM8-3

Rubber pan connector

Gross: 4,140 | Net: 4,016



















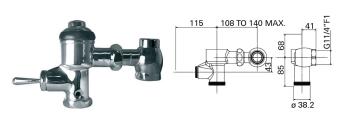


TOILET FLUSH VALVES

Standard Flushmaster Toilet Flush Valves







FM1-000 FFUUSTFM-0GT0174 6002194013037

Toilet flush valve

Exposed. Non-hold open feature. With wall flange, integral vacuum breaker, and control stop with integral non-return valve inlet. Adjustable control stop to valve connection 108mm t0 140mm. 1 1/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa. Spares:

C-FMC1-2

Standard flushvalve top cover

Control stop for Standard flushvalve

C-FM8-32

Control stop headpart

C-FMC1-5

Flush valve Handle

C-FM8-30

Flush valve toilet piston

C-FM8-50

Standard flush valve service kit

Gross: 2,460 | Net: 2,362









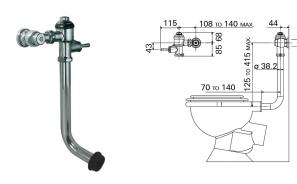












FFU1STFM-0GT0174 6002194013051

Toilet flush valve

Exposed back entry. Non-hold open feature. With wall flange, integral vacuum breaker, and control stop with integral non-return valve inlet. Adjustable control stop to valve connection 108mm t0 140mm. With bent flushpipe and rubber pan connector. 1 1/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa. Spares:

C-FMC1-2

Standard flushvalve top cover

C-FMC1-3

Control stop for Standard flushvalve

C-FM8-32

Control stop headpart

C-FMC1-5

Flush valve Handle

C-FM8-30

Flush valve toilet piston

C-FM8-50

Standard flush valve service kit

Gross: 2,920 | Net: 2,804

















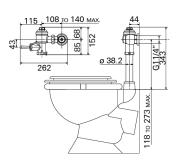












FM1-210 FFU2STFM-0GT0174 6002194013075

Toilet flush valve

Exposed top entry. Non-hold open feature. With wall flange, integral vacuum breaker, and control stop with integral non-return valve inlet. Adjustable control stop to valve connection 108mm t0 140mm. With straight flushpipe and compression pan connector. 1 1/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 3,200 | Net: 3,104

Spares:

C-FMC1-2

Standard flushvalve top cover

C-FMC1-3

Control stop for Standard flushvalve

C-FM8-32

Control stop headpart

C-FMC1-5

Flush valve Handle

C-FM8-30

Flush valve toilet piston

C-FM8-50

Standard flush valve service kit













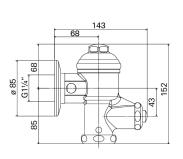












FM2-000 FFU4STFM-0GT0174 6002194021292

Toilet flush valve

Exposed top entry. Non-hold open feature. With wall flange, integral vacuum breaker, and butterfly control inlet. 1 1/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa. Spares: C-FMC1-2

Standard flushvalve top cover

C-FM8-30

Flush valve toilet piston

C-FM8-50

Standard flush valve service kit

Gross: 2,995 | Net: 2,876













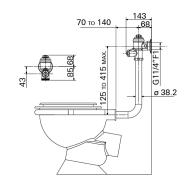












FM2-100 FFUUSBFM-0GT0174 6002194013044

Toilet flush valve

Exposed back entry. Non-hold open feature. With wall flange, integral vacuum breaker, and butterfly control inlet. With bent flushpipe and rubber pan connector. 1 1/4"BSP female iron connection end

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa. Spares:

C-FMC1-2 Standard flushvalve top cover

C-FM8-30

Flush valve toilet piston

C-FM8-50

Standard flush valve service kit

Gross: 2,385 | Net: 2,290





















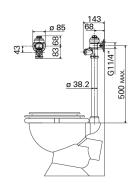












FM2-210 FFUUSPFM-0GT0174 6002194009092

Toilet flush valve

Exposed top entry. Non-hold open feature. With wall flange, integral vacuum breaker, and butterfly control inlet. With straight flushpipe and compression pan connector. 1 1/4"BSP female iron connection

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 3,770 | Net: 3,657

Spares: C-FMC1-2 Standard flushvalve top cover C-FM8-30 Flush valve toilet piston

C-FM8-50 Standard flush valve service kit













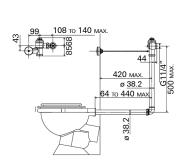












FM3-402 FFU5STFM-7FT0174 6002194013068

Toilet flush valve

Concealed back entry. Non-hold open feature. With integral vacuum breaker, and control stop with integral non-return valve inlet. Adjustable control stop to valve connection 108mm to 140mm. Straight vertical flushpipe RB, Elbow flushpipe conector, straight horizontal flushpipe CP, rubber pan connector. Palm press pushbutton assembly CP with pushrod and captive linkage. 1 1/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 5,281 | Net: 5,123

Spares: C-FMC1-2

Standard flushvalve top cover C-FM8-30 Flush valve toilet piston

C-FM8-50 Standard flush valve service kit











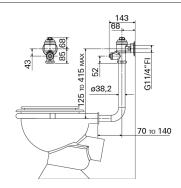












KF1-104 FFU1STKF-0GT0174 6002194013105

Toilet flush valve

Exposed back entry. Non-hold open feature. Econoflush with wall flange, integral vacuum breaker, and butterfly control inlet. With bent flushpipe and rubber pan connector. 1 1/4"BSP female iron connection end.

Spares: C-FMC1-2

Standard flushvalve top cover

C-FM8-30

Flush valve toilet piston

C-FM8-50

Standard flush valve service kit

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 3,459 | Net: 3,356

















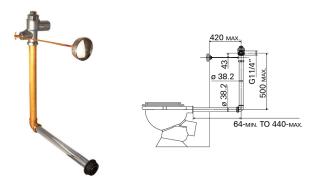












KF3-402 FFU3STKF-7FT0174 6002194013099

Toilet flush valve

Concealed back entry. Non-hold open feature. Econoflush with integral vacuum breaker and butterfly control inlet. Rough brass straight vertical flush pipe, elbow flush pipe connector, chrome plated straight horizontal flush pipe, rubber pan connector. Chrome plated palm press pushbutton assembly with pushrod and captive linkage. 1 1/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 4,475 | Net: 4,341

Spares: C-FMC1-2 Standard flushvalve top cover C-FM8-30

Flush valve toilet piston

C-FM8-50

Standard flush valve service kit













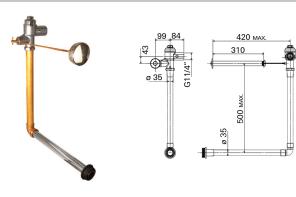












KF3-402PR FFU4STKF-0GT0174 6002194034056

Toilet flush valve

Concealed back entry, institutional version. Non-hold open feature. Econoflush with integral vacuum breaker and butterfly control inlet. 2 x Straight couplings for 35mm copper pipes. Rubber pan connector. Chrome plated pushbutton assembly with "Thruthe-wall" vandal resistant quide tube pushrod and captive linkage. 1 1/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 2,885 | Net: 2,770

Spares: C-FMC1-2

Standard flushvalve top cover C-FM8-30

Flush valve toilet piston C-FM8-50

Standard flush valve service kit











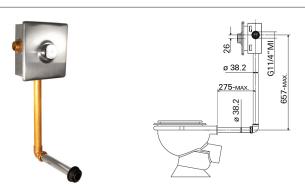












KF3-412 FFU5STKF-0GT0174 6002194021629

Toilet flush valve

Concealed back entry with front access box comprising of galvanised steel underwall box with stainless steel face plate and chrome plated palm press button. Non-hold open feature. Econoflush with integral vacuum breaker and butterfly control inlet. 2 x rough brass flush pipes. Elbow flush pipe connector pre-soldered, rubber pan connector. 1 1/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 - 300kPa for back entry WC pans: Maximum system pressure 600kPa.

Gross: 6,210 | Net: 6,055

Spares:

C-FMC1-2

Standard flushvalve top cover

C-FM8-30

Flush valve toilet piston

C-FM8-50

Standard flush valve service kit



























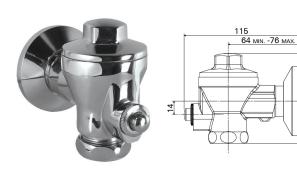


URINAL FLUSH VALVES

Junior Flushmaster Urinal Flush Valves







FJ6-000 FFUUSUFJ-0GT0173 6002194013136

Urinal flush valve

Exposed. Non-hold open feature. With 'Ball O Stop" control inlet, wall flange, additional screw and piston for large bowl and stall urinals. 3/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 -500kPa: Maximum system pressure 600kPa.

Spares: C-FL32X3 Wall flange C-FJ8-11 Piston assembly C-FJC1-2 Flush valve top cover

Gross: 1,000 | Net: 0,955













Spares:









FJ6-001 FFU1SUFJ-0GT0173 6002194021216

Urinal flush valve

Exposed. Non-hold open feature. Econoflush with 'Ball O Stop" control inlet, wall flange, additional screw and piston for large bowl and stall urinals. 3/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 -500kPa: Maximum system pressure 600kPa.

C-FL32X3 Wall flange C-FJ8-11 Piston assembly C-FJC1-2 Flush valve top cover

Gross: 1,000 | Net: 0,955













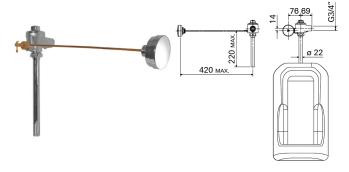












FJ8-102 FFU2SUFJ-0GT0173 6002194013174

Urinal flush valve

Concealed. Non-hold open feature. Concealed. Non-hold open feature. Econoflush with 'Ball O Stop" control inlet, palm press pushbutton assembly with pushrod and captive linkage and straight urinal tail pipe. 3/4"BSP female iron connection end.

C-KM9-14

Spares:

C-FJ8-24

Captive linkage C-FJ8-11

Piston assembly

Palm press pushbutton assembly with pushrod

C-FJC1-2

Flush valve top cover

C-FMR1-015

Pushrod FJT5-1

Flush pipe

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 -500kPa: Maximum system pressure 600kPa.

Gross: 1,900 | Net: 1,824

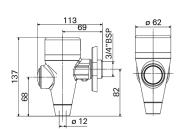












FJS6-000 FFU3SUFJ-0GT0173 6002194078500

Urinal flush valve

Exposed. Non-hold open feature. Slimline flush valve with 'Ball O Stop" control inlet, wall flange, additional screw and piston for large bowl and stall urinals. 3/4"BSP female iron connection end.

Technical Details:

Recommended optimum design pressures: inlet flow pressure 30 -500kPa: Maximum system pressure 600kPa

Gross: 1,440 | Net: 1,376



Spares:















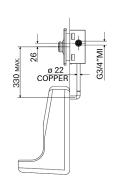












KF8-112 FFUUSUKF-0GT0174 6002194021643

Urinal flush valve

Concealed. Non-hold open feature. 'Ball O Stop" control inlet. Econoflush with front access box with stainless steel face plate and chrome plated palm press pushbutton. With vertical 22mm copper flush pipe. 3/4"BSP male iron connection end.

Gross: 4,000 | Net: 3,880

Spares: C-FJ8-11 #N/A

C-KM9-16 Pushbutton assembly

FJT5.1 Flush pipe C-FJC1-2

Flush valve top cover





























FLUSH VALVES

Recommended optimum design pressures and flow rates:

For optimum and correct operation, it is critical that the supply pipe to the flush valves is sized correctly by a professional and complies with SANS 10252-1:2012 requirements. In the event that you are unsure of the pipe size, please contact Cobra Technical Services on 0861 21 21 21.

The water supply system should be designed so as to yield a required flow rate at each valve as indicated:

- 1. Junior Flushmaster toilet flush valves are suitable for operations with flow pressures ranging from 150 500kPa (inlet). Minimum Flow Rate required: 65L/min.
- 2. Junior Flushmaster urinal flush valves are suitable for operations with flow pressure ranging from 30 500kPa (inlet). Minimum Flow Rate required: 18L/min.
- 3. Standard Flushmaster toilet flush valves are suitable for operations with flow pressures ranging from 30 300kPa (inlet). Minimum Flow Rate required: 108L/min.
- 4. Valves must be accessible for maintenance and servicing and a suggested minimum clearance of 60mm is required above the unit for this purpose.
- 5. The outlet of the flush valve must face vertically downward.

Important:

- All plumbing is to be installed according to the applicable regulations, rules, codes and procedures.
- Water supply lines and piping must be sized to provide the adequate volume of water for every flush cycle refer to optimum design pressures and flow above.
- Take note of the minimum required operating pressure and flow rates required.
- Take care not to exceed the maximum system pressure of 600kPa.
- Flush all water lines prior to installation to clear them of any potential debris.
- Do not use any "toothed tools" to install or service the flushmaster flush valve this will result in marring / scratching of the device.

Installation and functioning problems:

Problem	Cause	Solution
Valve does not operate	Water supply	Check water supply
Valve does not shut off	Dirt in piston bypassDirt / debris at valve seatDirt / debris at sealing area	Clean bypass grooveClean valve seatClean piston
Insufficient water	 Incorrect Flushmaster for application Control stop valve incorrectly installed Piston damaged Piston stroke too short 	 Check requirements Adjust control stop valve Replace piston Turn piston adjustment screw anti-clockwise
Too much water Noisy flush	 Incorrect Flushmaster for application Control stop valve improperly adjusted Piston stroke too long 	 Check requirements Adjust screw at control stop valve clockwise Turn piston adjustment screw clockwise
Lever assembly leaks	Lever nut is looseFibre washer damagedU-packing dirty	 Tighten nut Replace washer Disassemble lever & clean u-packing

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Cobra has a policy of continuous product development and advancements and therefore reserves the right to modify product specifications accordingly.

