

AusPress Flushing Sink

Installation, Operation & Maintenance Manual (IOM)

Contents

1.0 Scope	2
2.0 Product Description	2
3.0 Design Considerations	3
Material Selection	3
Cistern Selection.....	4
Maintenance Access.....	4
Corrosion Resistance	4
4.0 Installing	4
Transport, Delivery & Packaging	4
Unpacking and Handling.....	5
Preparation	5
Commissioning	5
5.0 Operation and Maintenance	6
Operation	6
Maintenance	6
6.0 Product Warranty	7
7.0 Appendices	Back of Manual
AusPress Flushing Sink – Installation Drawing (typical)	

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1.0 Scope

The AusPress Flushing Sink is a stainless-steel plumbing fixture, intended for use in commercial healthcare and medical facilities, where the disposal of bodily wastes is directed to sewer with an integrated flushing ring to rinse the sink of debris.

The fixture can be integrated into a bench or inset to a floor, and connected to a cistern (water supply) and DN100 trapped waste pipe.

2.0 Product Description

AusPress Systems is the supplier of the product. All installation, certification and certificates of compliance are assessed and issued by others. AusPress Flushing Sinks are manufactured in Australia under agreement to our standards and quality assurance practices.

Product Supplier:	AusPress Systems Pty Ltd
Address:	PO Box 107, Corunna Avenue, Melrose Park SA 5039
Contact:	1300 287 773 sales@auspress.com.au

Product Name:	AusPress Flushing Sink
Description:	Stainless steel conical sink, with integrated flushing ring.
Purpose:	To provide a hygienic method for disposing bodily wastes in commercial healthcare and medical facilities to sewer.
Material:	316 stainless steel (standard) or 304 stainless steel (on request).
Dimensions:	360mm diameter (opening size).
Inlet(s):	From a cistern: 1.1/2" BSP MI threaded connection. Alternatively, a flush-o-meter connection is also suitable.
Rinse:	Flushing ring to rinse all sides of the sink when flushed from the cistern.
Outlet:	100mm OD spigot outlet (water seal by others) – for PVC and HDPE connections.
	110mm OD spigot outlet with integrated water seal (p-trap arrangement, 90mm seal) – for stainless connections, exposed stainless P-Trap for example.
Installation:	Bench Integrated, for welding the cone to a stainless-steel bench or drainboard at -920mm height.
	Floor Inset Concrete, where the opening is fitted with a removable grate and the fixture set into the concrete floor finished with an epoxy or tile floor finish.
	Floor Inset Vinyl, where the opening is fitted with a removable grate and vinyl lock clamping ring for a secure junction to floor sheet finishes.

3.0 Design Considerations

Material Selection

The AusPress Flushing Sinks are available in two grades of stainless steel: 304 and 316.

- Grade 316 – considered the standard material grade for hygienic areas and its inherent greater resistance to chemicals than 304, and
- Grade 304 – a cheaper material with similar stainless properties but less resistance to chemicals than 316.

Chemicals in this case refer to cleaning chemicals.
 Grade to be nominated at the time of ordering.

Sink Type (Model)

The AusPress Flushing sink is available in 3 different installation types:

- Bench Integrated, for welding the Sink to a stainless steel bench or drainboard at waste height, and
- Floor Inset Concrete, where the opening is fitted with a removable grate and the fixture set into the concrete floor finished with or without an epoxy coating, and
- Floor Inset Vinyl, where the opening is fitted with a removable grate and vinyl lock clamping ring for a secure and hygienic floor junction to the floor sheet finishes.

Drawings are prepared and issued to the Customer for review and acceptance before manufacture.

Sink Type:	Bench Integrated	Floor Inset
Invert Level	Allow space within the under-bench area for a DN100 S-Trap to be installed and maintained. This includes any shelves and/or joinery.	Invert level to be confirmed before ordering to allow space below the sink to connect as a trapped fixture (ie DN100 P-Trap)
Bench Finish	Stainless bench selected and the sink fully purge welded & polished to form an integrated surface. Match grades of Stainless (ie 316 with 316)	N/A
Floor Finish	N/A	Flat edge for a tile or epoxy floor finish, up to the squared edge of the sink flush.
		Vinyl lock edge to the sink to allow for sheet floor finishes to drain into the sink with an exposed stainless locking ring to the circumference.
Cistern Selection	Min flush volume 4.5L, remote flush control activation.	
Cistern Height	Mount with cistern outlet (bottom) as minimum distance of 450mm from the top of the Flushing Sink (this may require mounting at a level above what is considered normal)	
Cistern Activation Button	Controls recommended 300mm above bench, to the side of the sink (not behind). Confirm with the cistern manufacturer for length and activation restraints.	Controls recommended 1100mm above floor height, to the side of the sink (not over). Confirm with the cistern manufacturer for length and activation restraints.
Tapware and Spray Rinse Fixtures	Recommend to position to either left or right of the sink centre line to avoid in-wall clash of services with the cistern pipe and avoid contamination risk with users leaning over the dirty sink to access these fixtures.	

Cistern Selection

Select a cistern with a minimum flush volume of 4.5L. The selected cistern to be compliant to AS 1172.2, installed to AS 3500.2 and the manufacturer's instructions. The cistern requires a suitable connection method and size to connect to the Flushing Sink 1.1/2" male thread inlet. Cistern is to be suitably supported without undue weight onto the inlet pipe, accounting for full water weight and flushing actions. Bottom of the cistern (ie cistern outlet) is to be a minimum 450mm above the top of the sink.

Flushing controls to be mounted at a suitable height for activation and reach (ie mounted <1400mm above floor level and any obstructions taken into consideration for usability). Consideration by the installer to be given to serviceability of the cistern for the location installed. Attention to be given to ensure the cistern dimensionally suits the Flushing Sink inlet pipe, especially if to be installed within or concealed within a wall.

Maintenance Access

Physical access to the cistern tank, cistern activation controls and trap are required and should be considered as part of the installation process.

Water Supply

Potable water is approved for use, conforming to Australian Drinking Water Guidelines (ADWG). Other water sources including bore and treated may not be suitable with the grade of stainless and would be deemed not acceptable.

Corrosion Resistance

The sink is manufactured from stainless steel, grade 304 or 316 as specified at ordering. Stainless steel has a high resistance but as with all materials, is not resistant to everything and may be prone to pitting or damage from the interaction with *chlorides* or *chlorine* in certain conditions. These conditions are dependent on the grade of stainless, temperature, concentration, and exposure.

Some cleaning chemicals exceed the resistance levels with unintended damage occurring to the material surface, such as common bleach (Sodium hypochlorite). Refer to Tech Note (TN.01) from our website (www.auspress.com.au) or contacting technical@auspress.com.au for more information.

Dissimilar metals shall avoid contact with stainless steel, such as galvanised or zinc coated fixings or otherwise.

4.0 Installing

Transport, Delivery & Packaging

The AusPress Flushing Sink is supplied as a single piece item, wrapped in protective plastic film on a timber pallet for transport.

The person accepting the item from the transport company is responsible for the inspection of the items for correctness, damage, and completeness at the time of receipt.

It is recommended the sink is kept wrapped in a dry, flat, out of direct sunlight, secure and in a protected location until installation.

Unpacking and Handling

Handling of the sink is recommended by two people. Care is required when manoeuvring the sink alone to avoid dragging, tipping and other uncontrolled methods that may damage the shape or surface finish.

The loose accessories such as the grates for floor installed versions are within the sink for transport. Outlet components are supplied often in a separate carton with the sink. Ensure these items are accounted for and stored in a suitable location.

The top exposed edge of the floor installed version is covered with a PVC 'duct' tape to prevent scratches and contaminants during transport and installation. It's recommended this tape remains affixed until commissioning and flooring has been completed.

Preparation

As a plumbing fixture, the sink shall be installed by a licenced plumber, to AS 3500.2 (Sanitary Drainage) and to the following installation instructions. Installation of the cistern, bench, flooring, etc is presumed to be completed by others, following the relevant manufacturer's instructions.

Installation

- A. Installation by a licenced plumber to AS 3500.
- B. Flushing Sink to be suitably supported, either be fixed frame with integrated with a bench or, braced for floor mounted installations to prevent movement.
- C. Flushing Sink to be installed flat (level), with both inlet pipe and outlet spigot vertical.
- D. Install the compatible cistern, unit and flushing controls to the manufacturer's instructions.
Note: The cistern is to be mounted between 450 and 1,800mm above the Flushing Sink for suitable head pressure and flushing action to occur.
- E. Connection to a suitable cistern to use a threaded connection, 1.1/2" BSP to form a sealed connection of equal diameter. Thread tape is recommended.
- F. Connect the Flushing Sink to the sewer using a DN100 WaterMark approved water trap, fitted with a rubber ring seal to the spigot outlet of the Flushing Sink. Suitably support the trap for water and flushing loads. Physical connections such as clamps are not to overstress the plain spigot outlet. Silicon and similar methods to water seal are not recommended.
- G. The water seal formed should not be within the Flushing Sink. Extend the outlet and/or install an alternative trap to comply.
- H. With the cistern commissioned, test the Flushing Sink first with no debris (4.5L flush water only) then again with a small amount (ie 2-3 squares) of toilet paper to test the flushing action.
- I. For floor inset models, fit the supplied floor grate and dress the flooring material to the edge.

Commissioning

- 1) Remove the transport materials including protective edge tapes.
- 2) Clean the sink of any construction or other debris with a dry cloth, avoiding scratching.
- 3) Confirm the water level formed by the water trap is below the bottom of the sink cone (ie level is within the outlet spigot).
- 4) Add 3 squares of toilet paper to the sink and complete a full flush to confirm rinsing action and inspect plumbing joints for any leaks.
- 5) Fit the floor grate in the sink (if applicable)
- 6) Provide the builder and/or owner with this document (IOM), normally documented with the project hand-over records and documents.

5.0 Operation and Maintenance

Operation

The user of the system is under an obligation to ensure the system is maintained in a serviceable and safe condition at all times. It is expected the facility owner reviews the operations as part of their regular safety assessments and make suitable actions accordingly.

Where the sink is not safe for operation, or not operating as expected, cease use of the fixture, isolate and/or tag as out-of-service, until the sink and associated components are inspected, and the issue resolved by suitably trained persons.

Frequency	Action
Before Use	Ensure Flushing Sink is free of debris, surface condition is clean and without damage. Ensure floor grate is fitted for Floor Inset models.
Regularly	Clean the Flushing Sink with methods suitable for stainless steel, rinse thoroughly after. Avoid sharp tools and aggressive cleaning solutions, clean with the grain of the stainless.
Weekly	Perform clean flush to confirm operation plus "Before Use" actions above.
Yearly	Check unit for leaks, check connections for tightness, polish exposed surfaces and all items listed "Before Use" and "Weekly" above.

Maintenance

AusPress products require little maintenance. In most environments, little or no maintenance is necessary. Protection is the best option to avoid problems and obtain a long operational life. Refer to our Tech Note TN.29 Cleaning & Maintaining Stainless for more details. In general,

- Protect from any contact with, grinding and welding sparks, metal shavings, corrosive chemicals or any material or process which may occur during construction and ongoing.
- Prevent unsuitable chemical contact with the stainless. This includes cleaning chemicals with common bleach (Sodium hypochlorite) which are not suitable at any concentration! Please contact technical@auspress.com.au for confirmation if you're unsure.
- Visual inspection for any 'rust' spots caused by foreign debris such as hair clips. Ensure these spots are removed using a clean scotch bright cleaning pad only, then thoroughly rinse with potable water.
- If installed in locations effected by coastal conditions or high levels of beach sand, a regular cleaning regime is to be implemented to prevent build up.
- Where there is heavy coating, plastic or brass tools can be used. With especially persistent coating, diluted citric acid can be used to loosen the deposit. This must be flushed with large quantities of water afterwards.

In cases of difficulty or specific information, please contact AusPress for technical advice.

6.0 Product Warranty

This warranty is issued exclusively to the purchaser of the product described as “AusPress Flushing Sink”.

AusPress Systems (also referred to as AusPress) provides a warranty that the product has been manufactured in accordance with the specifications, and to AusPress standard manufacturing capability and requirements.

The warranty is void if the product has been altered or modified without express permission of AusPress, or where the product is used for other than its intended design purpose.

AusPress provides warranty against failure for use as specified:

- All recommendations provided with and included in this document are adhered to.
- Installer(s) shall be trained and suitably qualified (ie licenced plumber).
- The product is used as designed and intended for, confirmed with AusPress at the time of ordering.
- All current technical information available from AusPress must be adhered to.
- Should non-potable water be used, the system must be drained immediately after use and flushed with “fresh potable water” within 24 hours.
- Salt water and/or sea water shall not be used.

Failure to comply with any of above criteria will result in this warranty being voided. AusPress is not responsible for failures related to installation methods or omissions.

Any variation to this warranty will only be issued in writing by an authorised employee of AusPress.

If after inspection by AusPress and our liability for breach of a condition or warranty of supply is limited in our absolute discretion to, and subject to our prior agreement in writing:

- The replacement of the goods or the supply of equivalent goods.
- The repairs of the goods.
- The payment of the cost of replacing the goods or of acquiring equivalent goods; or
- The payment of the cost of having the goods repaired.

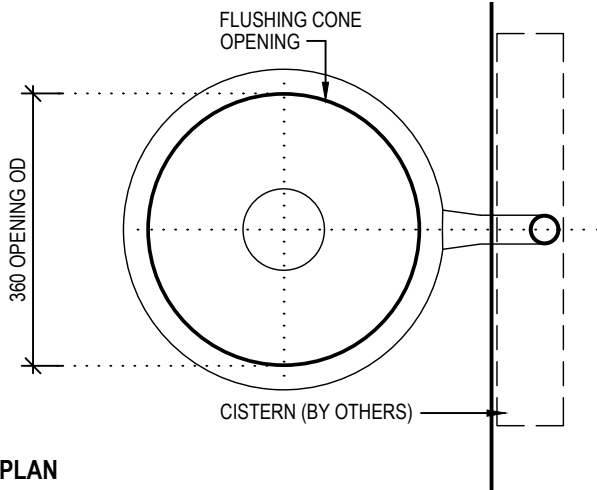
No claim under this warranty will be recognised unless:

- Claim is received in writing including photos.
- Payment for the product has been received in accordance with payment terms.
- Full settlement has been received by AusPress.

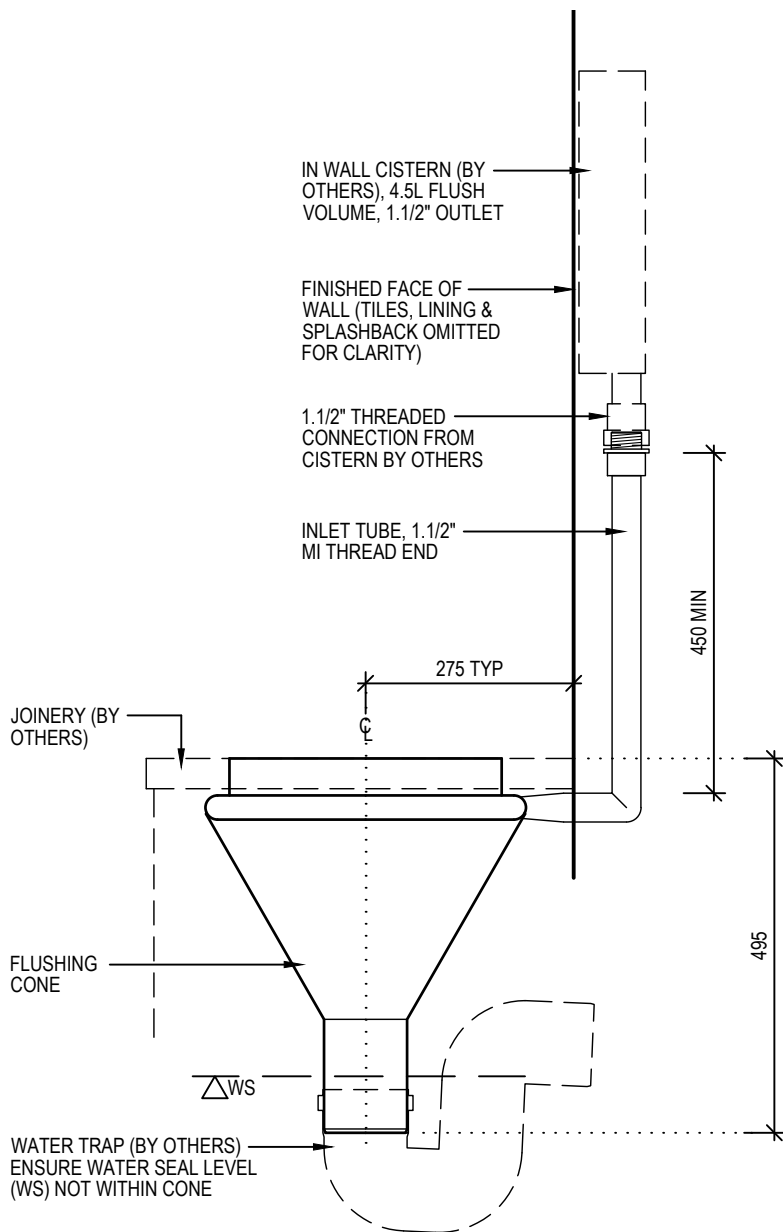
No claim involving labour charges or product replacement will be recognised by AusPress unless AusPress’ agreement in writing is obtained immediately any such problem becomes evident and prior to rectification.

With the exception of those conditions and warranties applied by the Trade Practices Act, or other consumer protection legislation and which may not be excluded, this warranty covers the complete liability of AusPress and all other warranties and guarantees expressed or implied are hereby expressly included so far as is permissible by law and settlement of any claim in accordance with the terms of this warranty shall fully discharge the liability of AusPress as to the fault in the product giving rise to any claim.

END



P1 PLAN
FLUSHING CONE IN-SITU TYPICAL
1:10



E1 ELEVATION
FLUSHING CONE IN-SITU TYPICAL
1:10

NOTES
DRAWINGS TO BE READ IN CONJUNCTION WITH AUSPRESS "FLUSHING SINK" MANUAL.

ALL MEASUREMENTS TO BE CONFIRMED BEFORE MANUFACTURING AND ASSEMBLY.

B	05/03/24	Clarify vertical dimensions with manual.	AH
A	18/09/23	Initial Issue	AH
REV	DATE	AMENDMENTS	INIT

AusPress
AusPress Systems Pty Ltd
PO Box 107, Corunna Avenue
Melrose Park SA 5039
Call: 1300 AUSPRESS (1300 287 773)
Visit: www.auspress.com.au

PROJECT NAME:
AusPress Products

DRAWING TITLE:
**Flushing Sink
Common Installation Drawing**

SHEET:	SCALE:	DATE:	DRAWN / CHECK:
1 of 1	NTS	18/09/23	AH/CS

(C) AusPress Systems Pty Ltd - This drawing remains the property of AusPress at all times. Materials implied based on provided drawings. AusPress accepts no responsibility for any variation upon actual installation. No copies, utilisation or handing over to third parties is permitted without prior consent.

VERIFY ALL DIMENSIONS AND LEVELS ON SITE BEFORE COMMENCING ANY WORK OR SHOP DRAWINGS - DO NOT SCALE DIMENSIONS. In the event of conflict with the provided drawings, notify AusPress immediately. All designs based on our recommended installation technical information and product specifications.