

AG-fit Waterers

Installation, Operation & Maintenance Manual









the solution that fits

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Health & Safety

PLEASE TAKE NOTE OF THE FOLLOWING SAFETY PRECAUTIONS BEFORE USE FOR THE WELLBEING OF ALL ANIMALS AND PERSONNEL. ANY HARM OR INJURY WHICH OCCURS FROM THE LACK OF COMPLIANCE WITH THESE HEALTH AND SAFETY MEASURES WILL BE THE **RESPONSIBILITY OF THE OPERATOR.**

- animals may be affected if you do not follow these instructions.
- Personal protection may be required for some stages of installation.
- **CAUTION** When handling heavy equipment, some stages of installation may require at least two people.
- **DO NOT** lean on or exert undue pressure on partially assembled or loose equipment.
- **CAUTION, CHECK POSTURE** when lifting/moving the equipment •
- **ALWAYS** Check all parts are present before use. •

If you have any questions or comments regarding AG-fit, we will be glad to hear them either through our website www.iae.co.uk or by contacting your local IAE dealership.

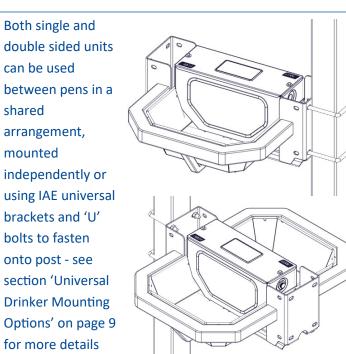




IMPORTANT Read these instructions carefully before use and keep them for future reference. The safety of your

Universal Drinkers

Drinker Insert Variants



AG-fit drinker inserts joined and combined with primary insert are used to make 3 different options for mounting universal drinker onto posts (at heights to suit variable animal sizes and also the intended use of the drinker), these include setups suitable for,

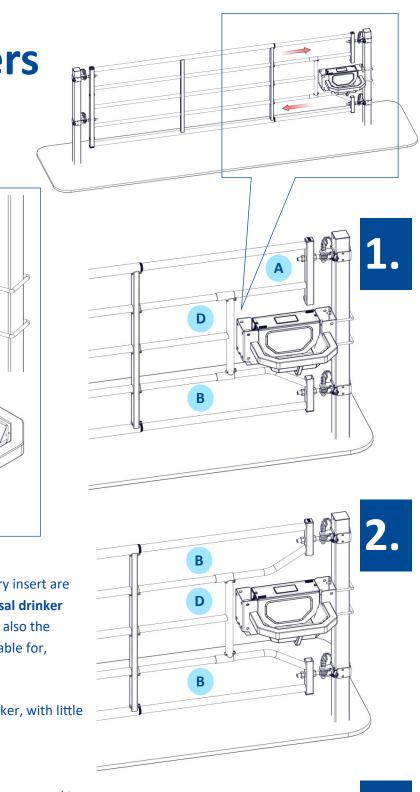
Option 1 - 850mm height from ground to lip of drinker, with little adjustment

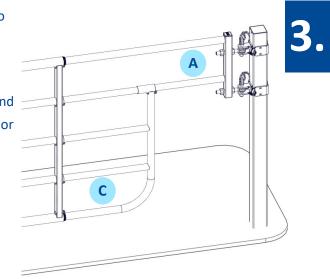
Option 2 - Ranges from 780mm to 940mm height from ground to lip of drinker, allowing greater clearance for adjustment

Option 3 - 1025mm of clearance available (dimension from ground to underside of end panel 2nd rail), to accommodate free standing or low mounted drinkers

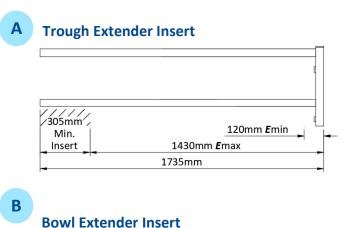
⚠ DO NOT use drinker inserts for hanging gates onto post





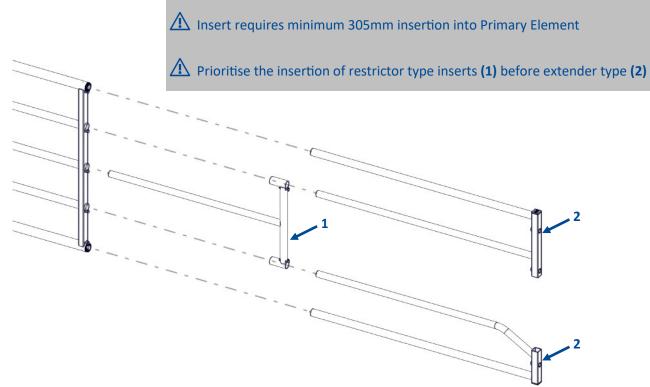


Combining Drinker Insert Variants





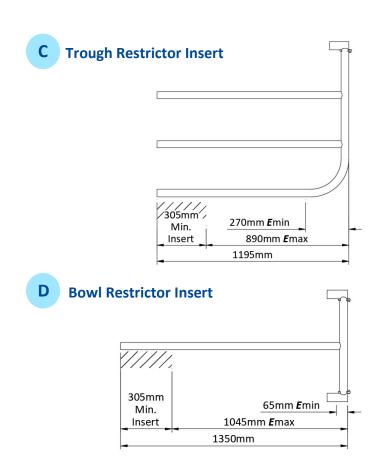
Example Drinker Insert Joining,





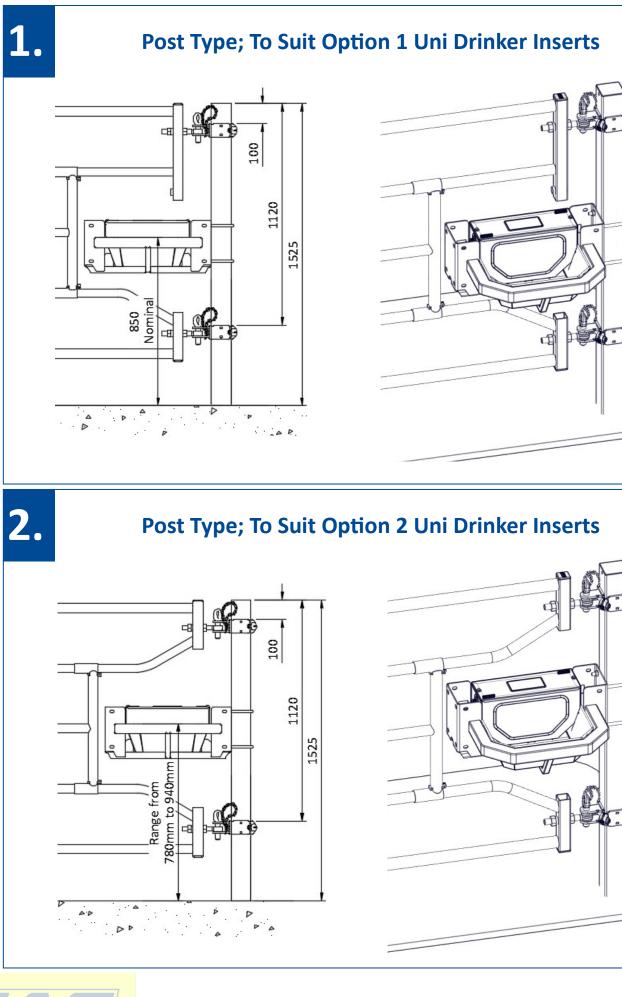
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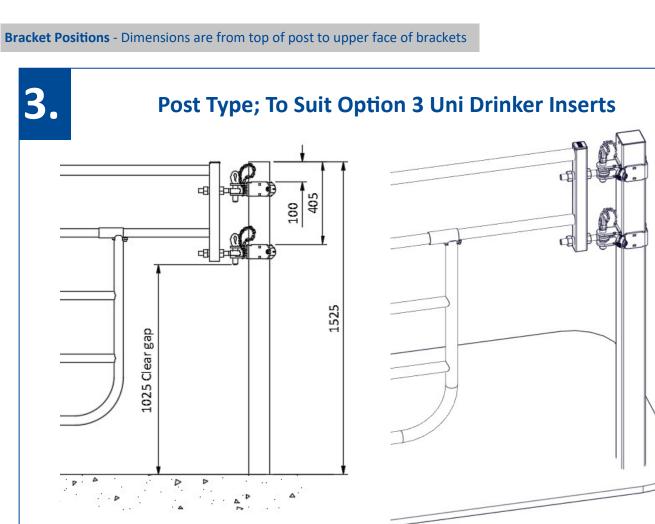
Installation, Operation & Maintenance Manual



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Bracket Positions & Post Configurations





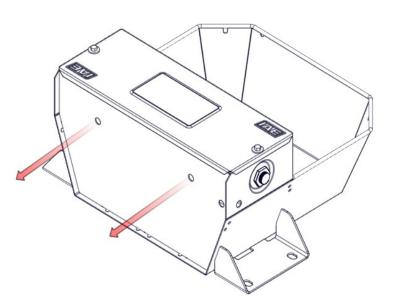




Universal Drinker Mounting Options

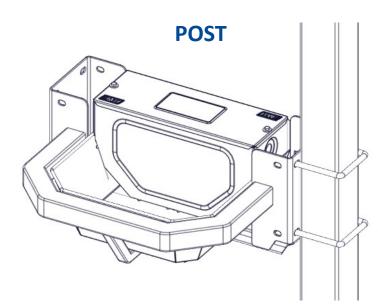
Water Supply Installation





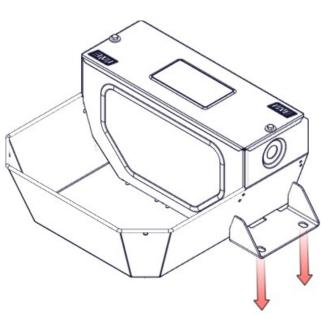
Independently bolted to wall through holes in the service box back face (fittings not supplied)

 Λ Option to suit single sided universal drinker ONLY



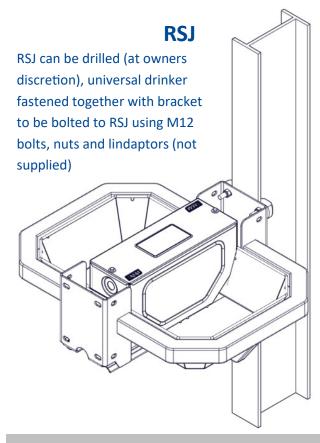
Universal drinkers fastened into IAE universal brackets (attach bracket to corresponding fixing holes in the base plates) use U' bolts to mount onto post

 \triangle 'U' bolts sizes available to suit variable post sizes 100x100 and 120x120

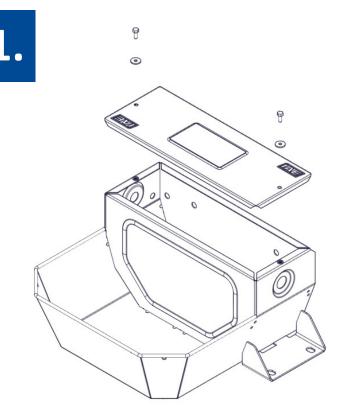


BASE

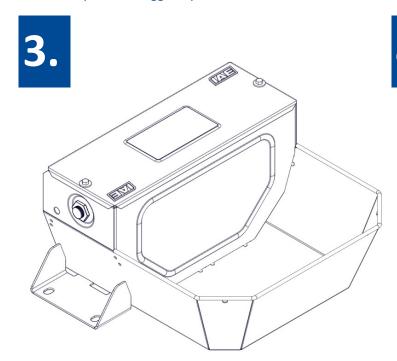
Both single and double universal drinkers can be base mounted through holes in the base plate (x2 fixing holes on either side, also fittings not supplied)



▲ IAE cannot accept responsibility for damage procured through drilling of RSJ - MAX. FLANGE 102mm

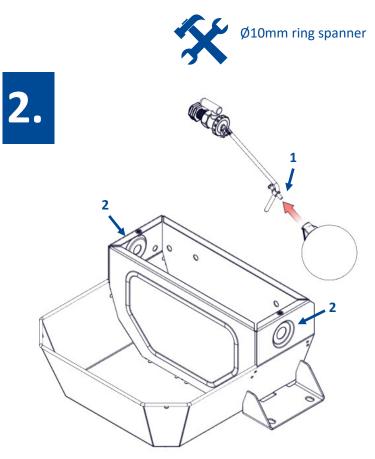


1 - Undo the service box lid (supplied secured) to access the loose components bagged up inside



3 - Secure the service box lid

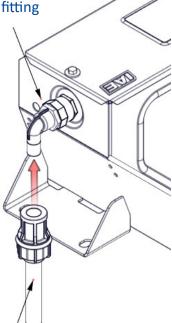




2 - Fit poly float to ball valve (1)Offer up to most suitable Ø27 hole (one on either side),ideally the one closest to water supply route (2)



½ inch 90° threaded elbow plumbing fitting



Blue plastic pipe & compression fitting

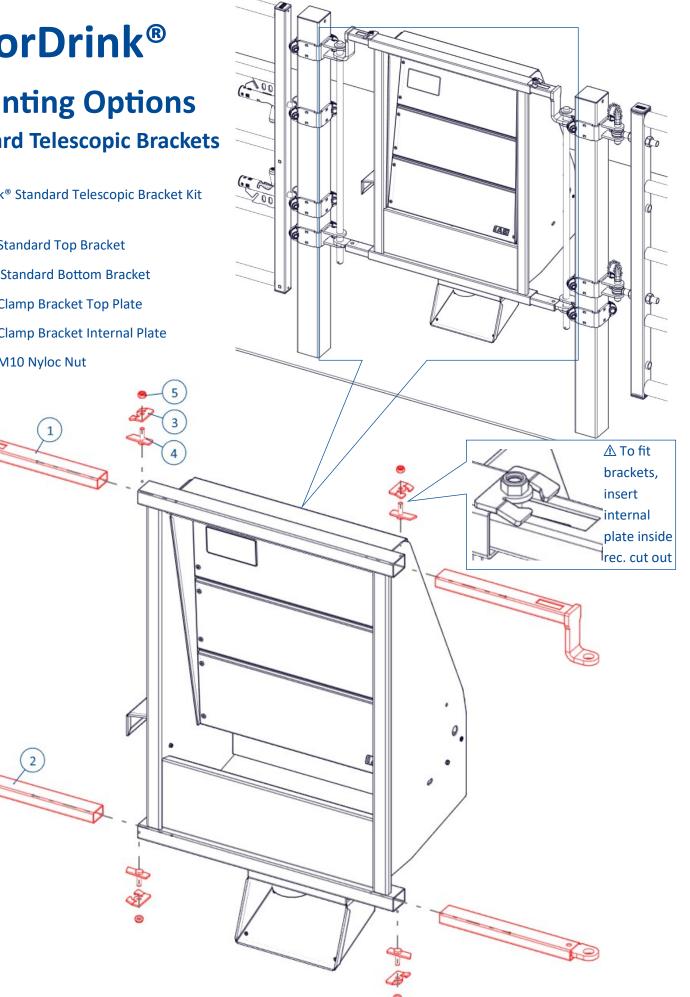
4 - Connect blue plastic pipe, compression fitting and ½ inch90° threaded elbow plumbing fitting (parts not supplied)

VisorDrink[®]

Mounting Options Standard Telescopic Brackets

VisorDrink[®] Standard Telescopic Bracket Kit Parts List,

- 2x Standard Top Bracket 1.
- 2x Standard Bottom Bracket 2.
- 4x Clamp Bracket Top Plate 3.
- 4x Clamp Bracket Internal Plate 4
- 5. 4x M10 Nyloc Nut





Telescopic brackets are mounted to post utilising AG-fit hang brackets and coupling rod (one on either side) to hinge VisorDrink® telescopic brackets, opposed to hinge pins used to hang gates or panels (as head-trap prevention)

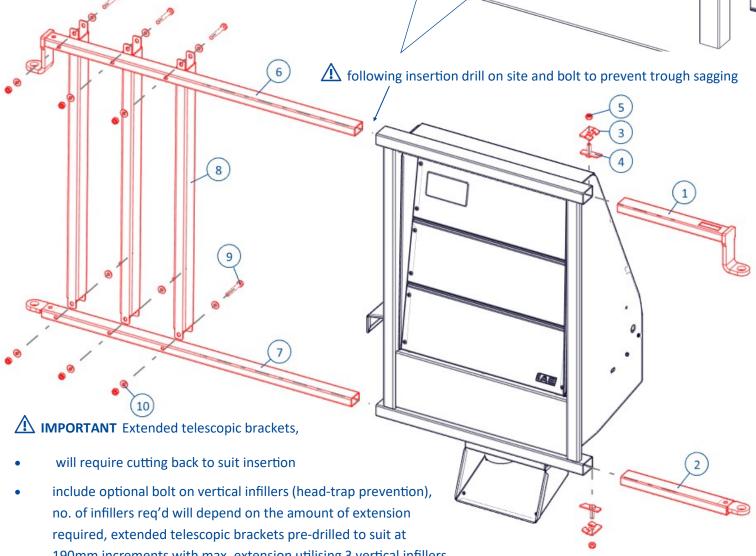
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Extended Telescopic Brackets

VisorDrink[®] Extended Telescopic Bracket Kit Parts List,

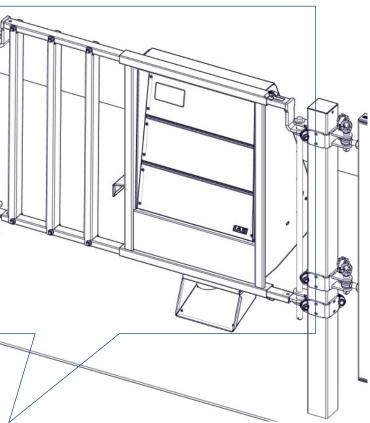
- 1x Standard Top Bracket 1.
- 1x Standard Bottom Bracket 2.
- 2x Clamp Bracket Top Plate 3.
- 2x Clamp Bracket Internal Plate 4.
- 8x M10 Nyloc Nut 5.
- 1x Extended Top Bracket 6.
- 1x Extended Bottom Bracket 7.
- 3x Bolt On Vertical Infiller 8.
- 6x M10x75 bolt 9.
- 10. 12x M10 Washer



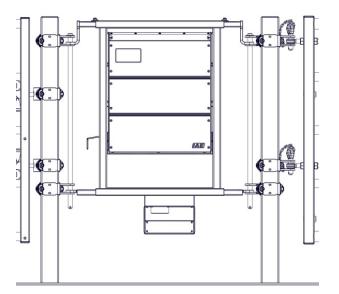
- 190mm increments with max. extension utilising 3 vertical infillers

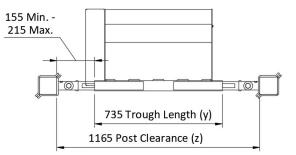


standard top and bottom bracket positioned closest to water supply route



Setup Between Posts Guide

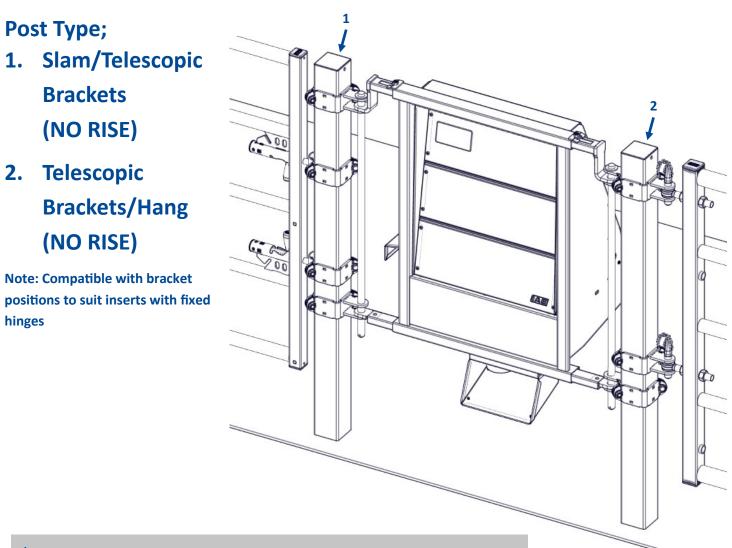


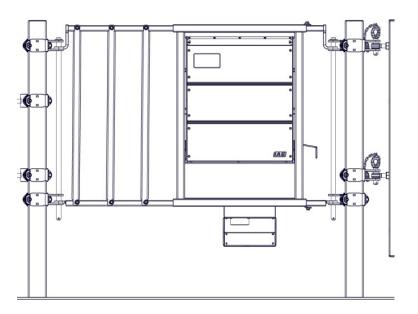


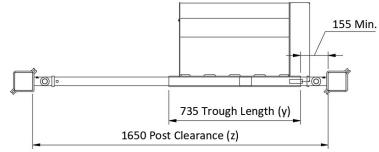
Example VisorDrink[®] Setup Standard Telescopic Brackets,

-	Trough Length (y)	Post Clearance (z)
	735	1045 - 1165
	1345	1655 - 1775
	1955	2265 - 2385

Bracket Positions & Post Configurations



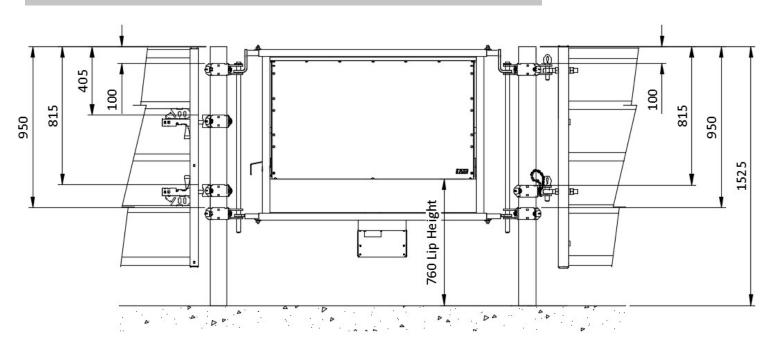




Example VisorDrink[®] Setup Extended Telescopic Brackets,

Trough Length (y)	Post Clearance (z)
735	1170 - 1650
1345	1780 - 2260
1955	2390 - 2870

A Bracket positions are exactly alike on setups using extended telescopic brackets Bracket Positions - Dimensions are from top of post to upper face of brackets





VisorDrink[®] Trough Assembly

Blanking caps for closing off redundant holes are **NOT PROVIDED** 1 2 3 4 5 6 7 8 9 \triangle Service lid hidden for clarity 1 0 a

VisorDrink[®] troughs designed for any hand

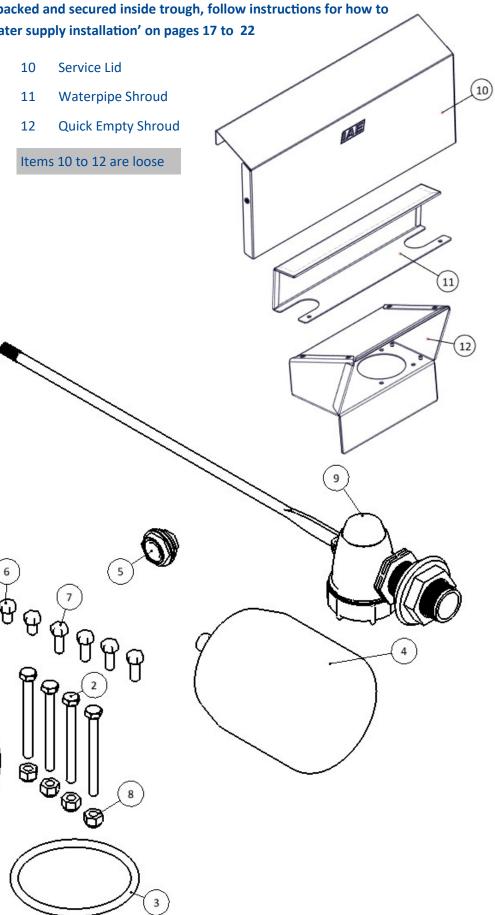
setup, to suit proposed water supply route

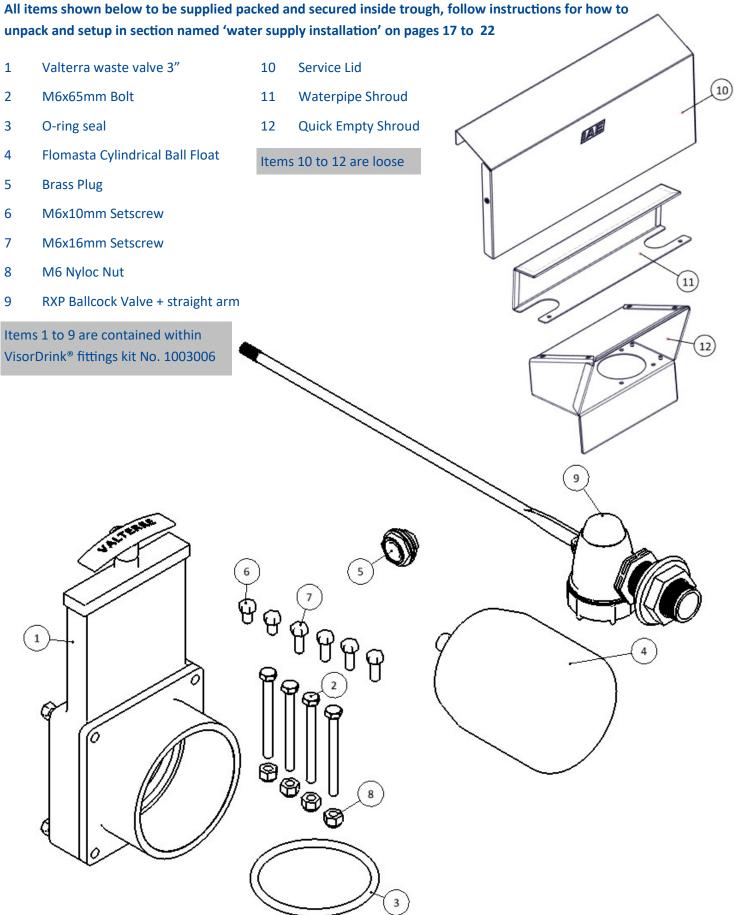


VisorDrink® Items To Be Assembled Parts List

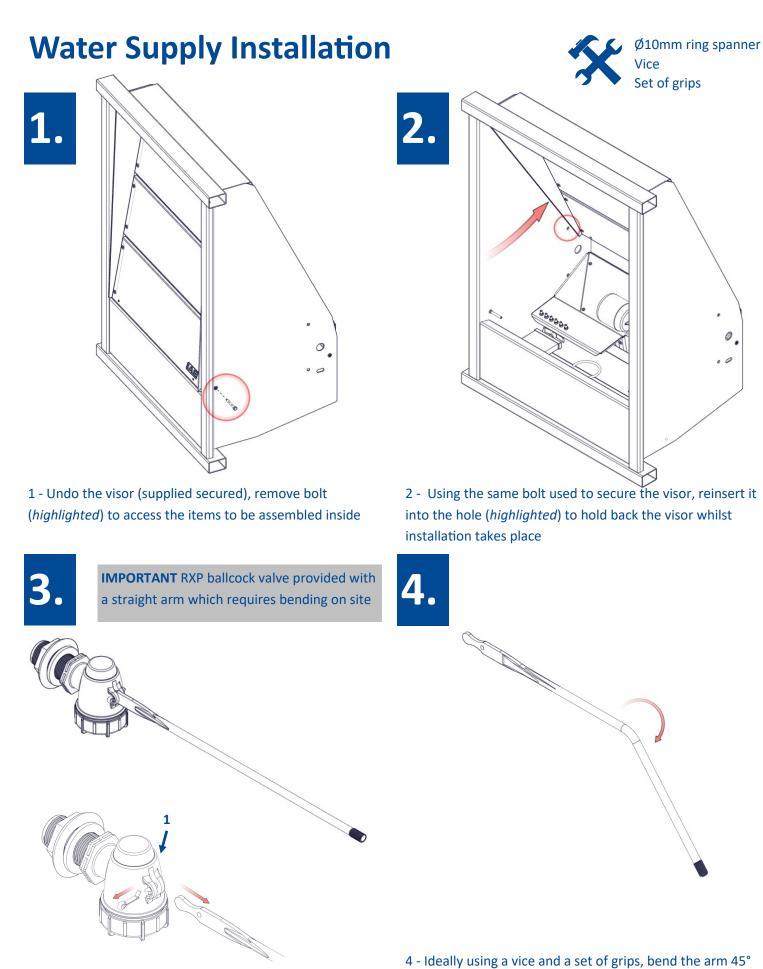
Valterra waste valve 3"	10	Service Lid
M6x65mm Bolt	11	Waterpipe Shr
O-ring seal	12	Quick Empty S
Flomasta Cylindrical Ball Float	Items	5 10 to 12 are lo
Brass Plug		
M6x10mm Setscrew		
M6x16mm Setscrew		
M6 Nyloc Nut		
RXP Ballcock Valve + straight arm		

VisorDrink[®] fittings kit No. 1003006









3 - To prepare for bending, remove the pivot pin to separate the straight arm from the ballcock valve (1)



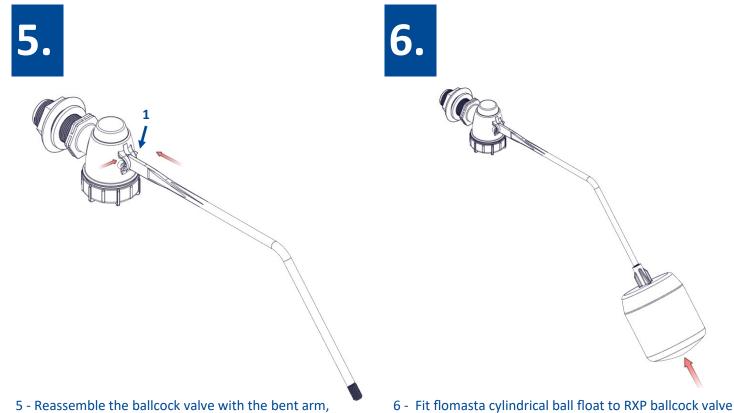


and with true alignment, approximately halfway along the

complete length of the arm

CAUTION plastic threads on the valve are at risk of damage,

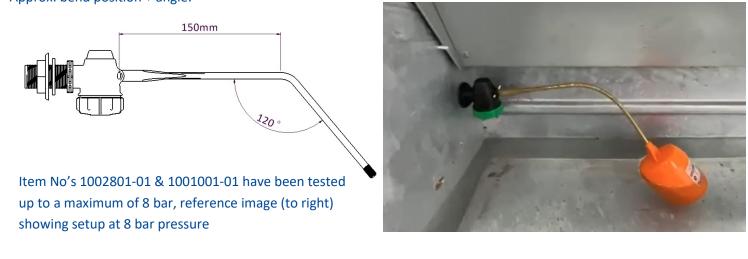
Handle with care | Avoid over tightening | High water pressure may lead to leakages



insert pivot pin (1)

Bending Dimensions & Testing Records,

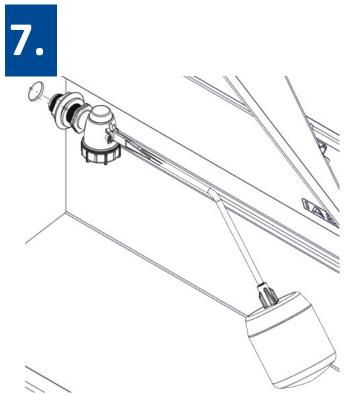
Approx. bend position + angle:



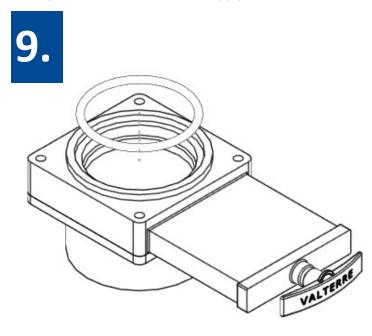
MAINTENANCE Use Teflon tape on threaded connections to prevent leaking (tape not supplied)

Installation continued on pages 19 to 22 >



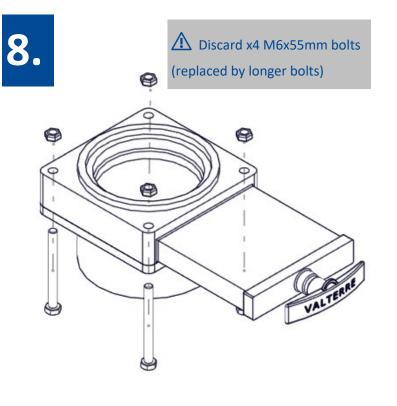


7 - Fit RXP ballcock valve and float inside trough Offer up to most suitable Ø27 hole (one on either side), ideally the one closest to water supply route

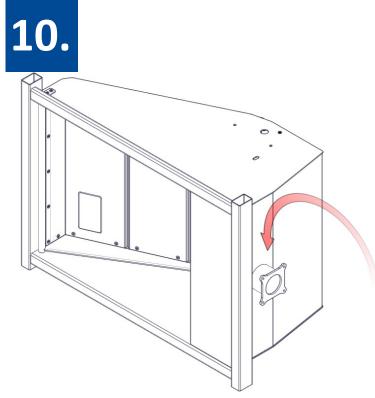


9 - Fit O-ring seal inside the seat recess

▲ Lubricate O-ring before installation to minimise friction between the sealing ring and the surface is it pairing to. Apply a thin film of mineral oil, silicone oil, grease or application fluid



8 - Remove the bolts and nuts supplied fitted to the Valterra waste valve

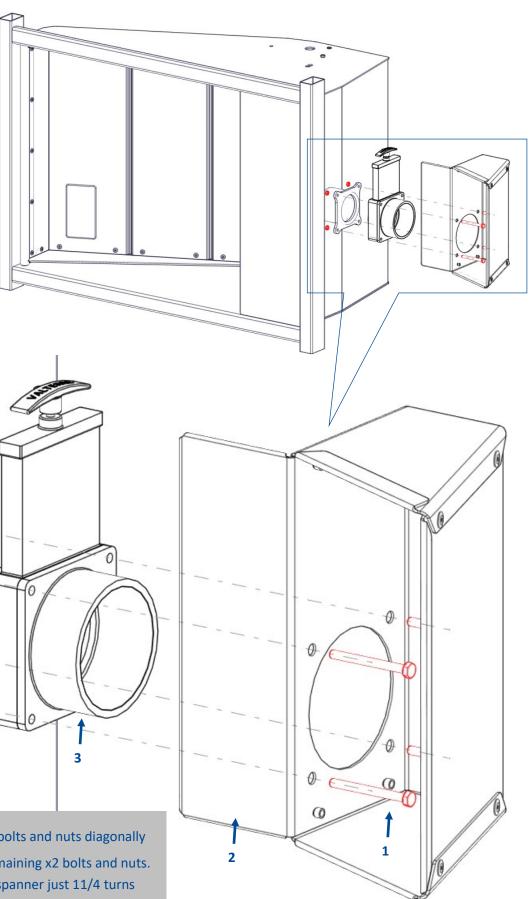


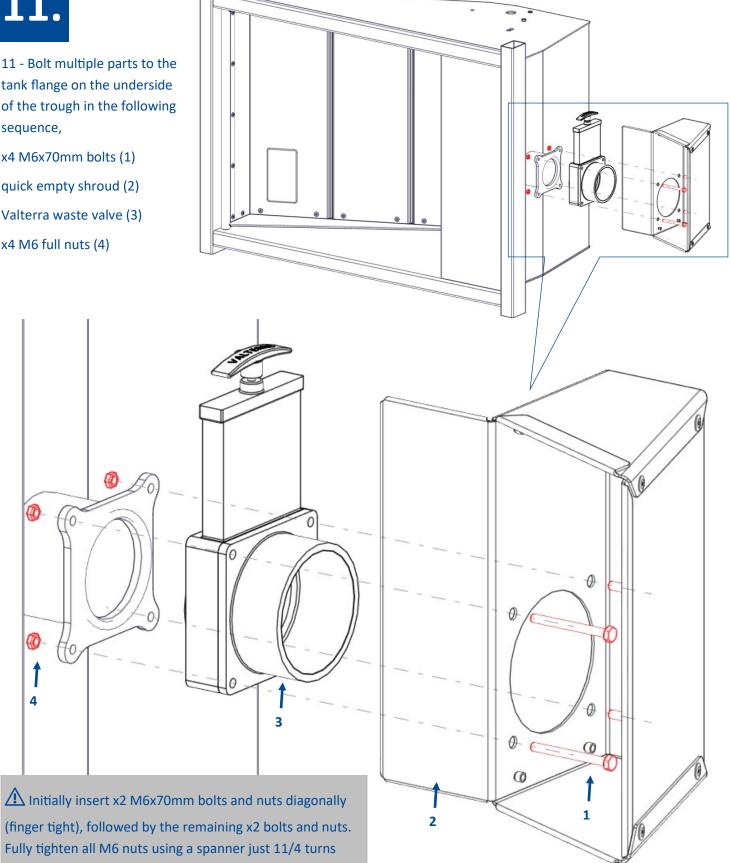
10 - Lay the VisorDrink[®] trough on it's side to combine the Valterra waste valve and quick empty shroud to the main body



11 - Bolt multiple parts to the tank flange on the underside of the trough in the following sequence,

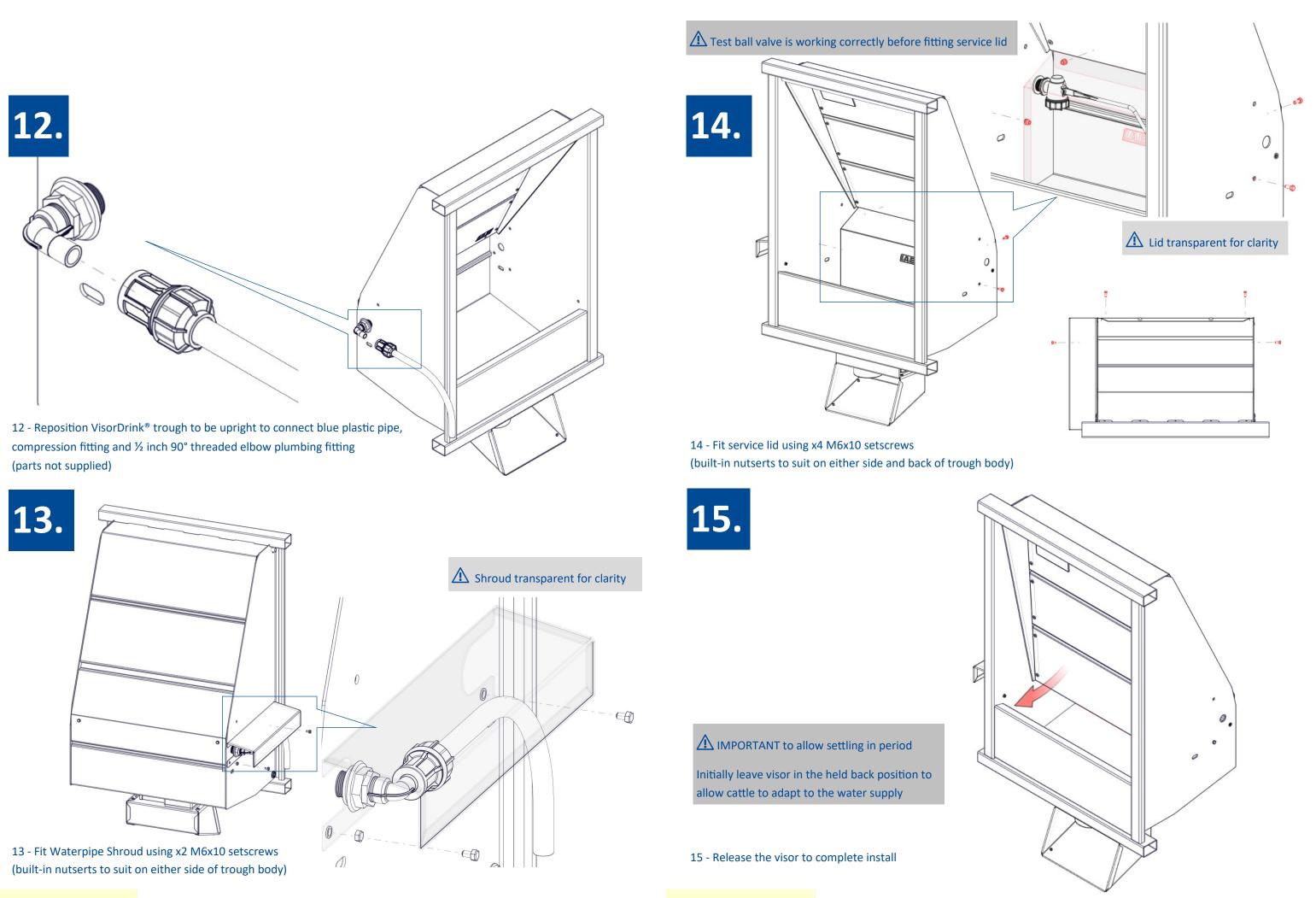
- x4 M6x70mm bolts (1)
- quick empty shroud (2)
- Valterra waste valve (3)
- x4 M6 full nuts (4)





(finger tight), followed by the remaining x2 bolts and nuts. Fully tighten all M6 nuts using a spanner just 11/4 turns from tighter tight * BE CAREFUL NOT TO OVERTIGHTEN *







Maintenance & Storage

General Guidance

Although IAE equipment is designed to withstand adverse weather conditions and to withstand prolonged heavy usage, monthly inspections and regular maintenance will help to extend the longevity of the product. The following checklist may be useful:

- Check steel framework for any signs of corrosion, distortion or wear. Replace or repaired; Any damage to steelwork (i.e. exposed bare metal) should be made good by rubbing down and applying 1 no coat of Galvafroid and 1 no coat of oil based paint.
- Pressure wash or steam wash all equipment after each usage.
- Lubricate all moving parts at regular intervals.
- Check all nuts, bolts & set screws, pay particular attention to the nyloc nuts, over time the nylon contained can degrade - replace nylocs if required.

Hot Dip Galvanising

All IAE products (unless stated otherwise) are Hot Dip Galvanised to the standard of BS EN ISO 1461

Paint & Protective Systems

The Galvanizers Association (www.hdg.org.uk) have conducted field tests with galvanised steel samples throughout the U.K. and identified localised corrosion rates within 10 mile squares.

The results of their tests indicate that steelwork of 3mm and 5mm thick. Hot Dip Galvanized to BS EN 1461: 1999 giving a coating thickness of 55 and 70 microns respectively, typically provides protection against corrosion in excess of 25 years.

