

Assembly Manual

XR Pumpout Stations



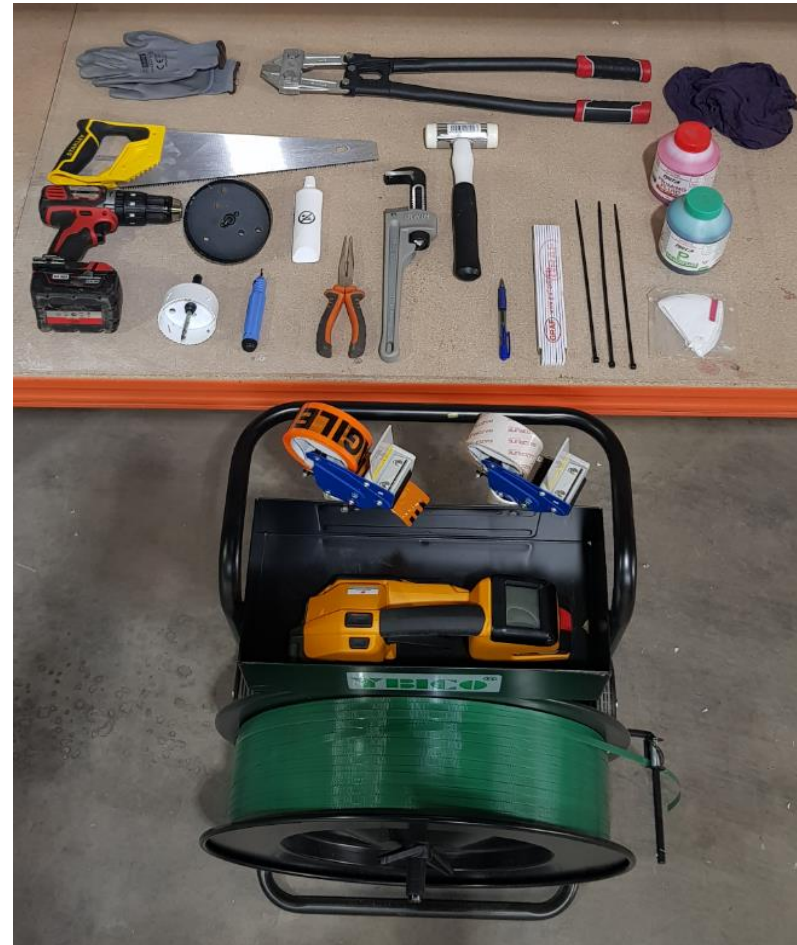
Every job comes with hazards so we take the appropriate precautions and wear the appropriate PPE

- Prepare for the job. Think before you start the job get an idea about the work and find out the hazards if there is any and get a solution to complete the work in a safety manner.
- Protect your eye, cover your arms and hands, and protect your feet.
- Protect your lungs. Glovers protect skin from mold but perhaps a greater danger is mold inhalation. Masks protect lungs from mold and dangerous fumes.
- Use right tools. We should know the value of the right tools. It makes the job easier, faster and safer.
- Have emergency contact information handy.

Tools



- Drill (suitable for 124mm Hole saw)
- Hole saw 124mm
- Hole saw 76mm
- Deburring tool
- Saw
- Lubricant
- Pliers
- Pipe wrench
- Mallet
- Bolt cutter
- Pen / Marker
- Tape measure / folding rule
- Cable ties
- Teflon tape or liquid Teflon
- PVC priming fluid
- PVC glue for pressure pipes
- Rug
- Gloves
- Respirator
- Strapping
- Packing tape



- Select tank, lid and accessories according to FWO
- Visual inspection of the tank before commencing assembly
(Tank to be clean with no damages)
- **Record Tank number on FWO**
- **Select Pump(s) and record Serial number on FWO**

GRAF Australia Pty Ltd

Job No: 00191510

PO No: 121620478 (5030)



Factory Work Order

Raised by: Sarah Leanne Jovicic

Pick & Pack

☐

Customer:

Reece Pty Ltd
Private Bag 109
Burwood VIC 3125
Australia

Logistic:

Reece Customer Site
Lot 401 Wentworth Drive
INGLE FARM SA 5098
Mark - 0431 749 293

Prepaid:

Logistic organised?

Date order received:

29/10/2019

Dispatch date:

5/11/2019

Free Delivery

QTY	UNIT	ITEM NO.	DESCRIPTION
2	each	12.1125	XR Pumpout tank 1200 mist green Basic consists of: 1x 12.0125 XR Pumpout tank 1200 mist green Blank 1x 375085 Sealing set Platin tank 1x 332033 Seal DN100 black 2x 55.0031 Mid Eye Nut M10 2x 55.0032 Bolt M10 x 30 2x 55.0033 Washer M10
2	pcs	371010	Carat telescopic dome shaft Mini, Pedestrian green
2	each	70.0098	XR Single Pipework Kit suit 1200L 11-420050 - Suit pump SW 2/s@6m
2	each	70.0101	26-107670110XXXUBQ Pump Storm water 2L/s@6m Tank

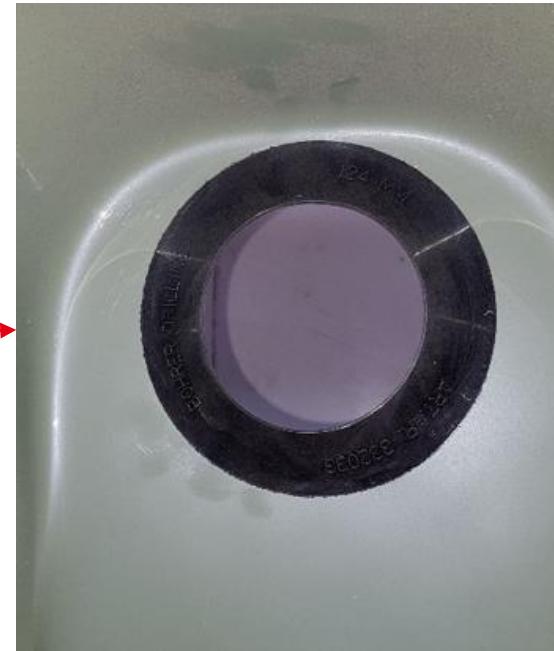
Tank preparation

- Drill outlet
- Upper marking point
- 76mm Hole Saw
- Use the de-burring tool to GENTLY clean off the remaining debris. Make sure it is clean and free of all debris as this may stop the seal from sealing properly.
- DO NOT use the de-burring tool too aggressively, too much taken off and the hole will be oversize and will not seal properly.
- Insert 50mm Uniseal 70.0049



Tank preparation

- Drill inlet
- Upper marking point
- 124mm Hole Saw
- Use the de-burring tool to GENTLY clean off the remaining debris. Make sure it is clean and free of all debris as this may stop the seal from sealing properly.
- DO NOT use the de-burring tool too aggressively, too much taken off and the hole will be oversize and will not seal properly.
- Insert DN100 seal 332033, making sure it is sitting flush on inside of the tank and the lip has not caught up at any point.
- You can run your hand around the inside of the seal to check, but visual inspection is recommended.
- The outside of the seal should also sit flush to the tank.
- Remove any debris that is left in the tank.



XR Single Pump Pipework Kit 70.0098

- Select and prepare parts as per BOM

70.0098 XR Single Pump Pipework Kit

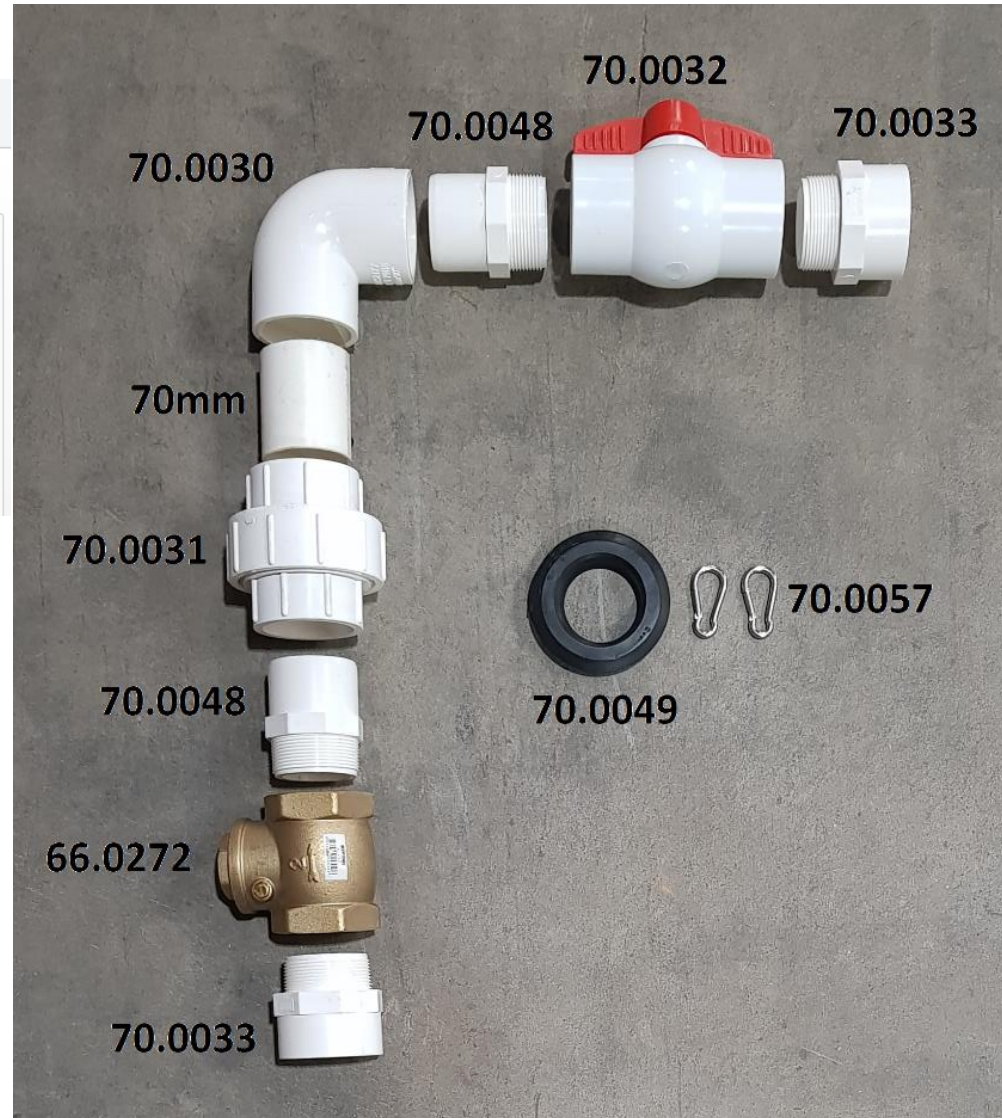
Profile Item Details Buying Details Selling Details History Auto-Build Locations

This item is an inventory item. For inventory items, you may choose to list the bill of materials needed to build the item. If you choose to do so, you can use MYOB's Auto-Build feature to easily record the transfer of inventory items as you build the item.

Minimum Level for Restocking Alert:

List what it takes to build inventory unit(s) of this item

Item Number	Name	Quantity
70.0033	50MM PVC socket m	2.
70.0049	Uniseal 50mm (10107)	1.
66.0272	Brass Swing Check Valve 50mm	1.
70.0048	50MM PVC Adaptor PVMA50	2.
70.0032	50MM PVC Ball Valve f/m f/m	1.
70.0031	50MM PVC Barrel Union	1.
70.0030	50MM PVC Elbow 90 deg	1.
70.0057	Spring Hook SS 5mm	2.
67.0009	Pipe PVC 50x4.6 PN12; 6 meter	0.07



XR Dual Pump Pipework Kit 70.0099

- Select and prepare parts as per BOM

70.0099 XR Dual Pump Pipework Kit

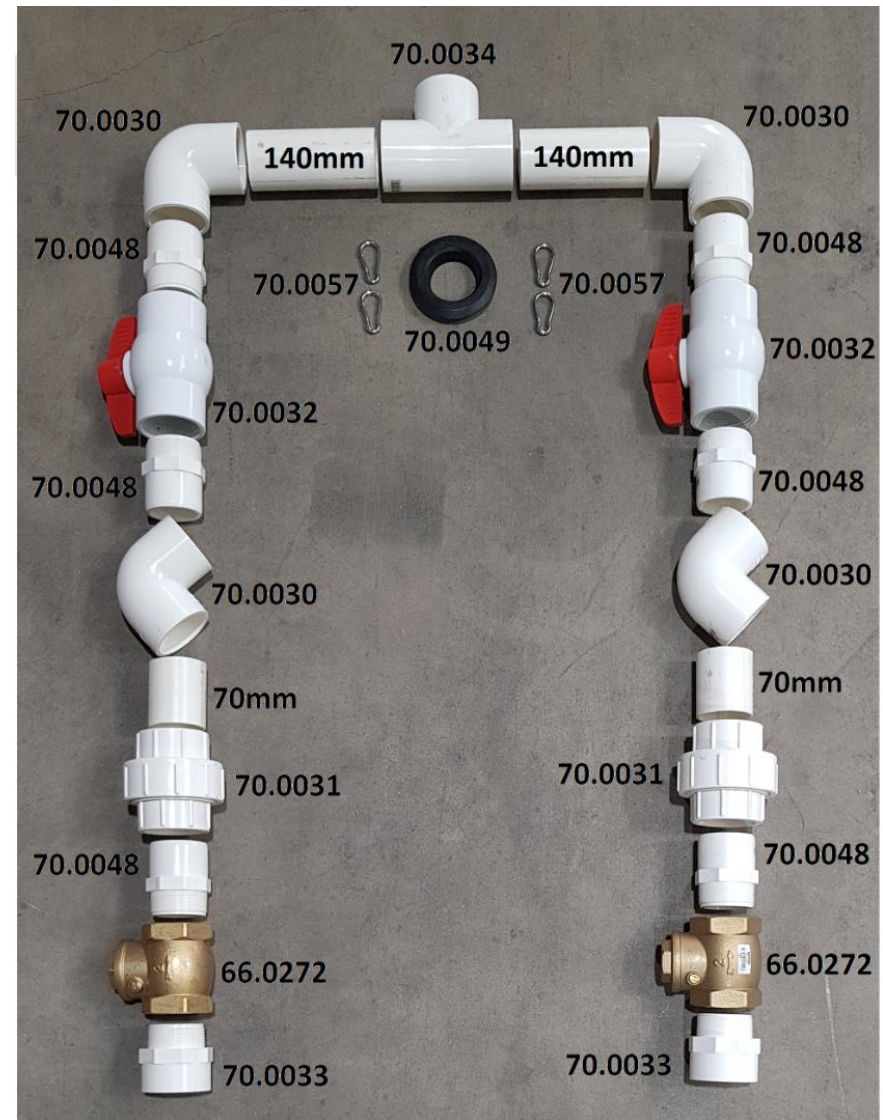
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Minimum Level for Restocking Alert:

List what it takes to build inventory unit(s) of this item

Item Number	Name	Quantity
70.0048	50MM PVC Adaptor PVMA50	6.
70.0030	50MM PVC Elbow 90 deg	2.
70.0057	Spring Hook SS 5mm	4.
70.0033	50MM PVC socket m	2.
70.0032	50MM PVC Ball Valve f/m f/m	2.
70.0034	50MM PVC T	1.
70.0031	50MM PVC Barrel Union	2.
66.0272	Brass Swing Check Valve 50mm	2.
70.0049	Uniseal 50mm (10107)	1.
67.0009	Pipe PVC 50x4.6 PN12; 6 meter	0.42



Assembly of Valves

- Check the arrow mark in the Swing check valve 66.0272. Arrow to point away from the pump (Outflow direction)
- Apply Teflon tape or Liquid Teflon on thread and then assemble the adaptor 70.0048 & socket 70.0033 tightly with the valves. (see picture)
- Continue the same steps to assemble ball valve 70.0032 with adaptor and socket. (see picture)
- When finished apply PVC primer on the outside of the adaptors and inside of the sockets.



For Dual

- Make sure the height of the valve and adaptor assembly level is equal

Assembly of Single Pipework Kit



Prepare the parts to press fit

- Wipe the inside and outside diameter of the joints well with PVC primer and allow to dry off
- Now glue joints step by step together
- Apply PVC glue on inside and outside diameters of the joints. Only prepare one joint at a time
- Quickly push them together, give a quarter turn and hold the parts together for a few seconds to create a strong fusion



Join the elbow and ball valve
Position:

- Elbow 6 o'clock
- Ball valve 12 o'clock

Pipe joint



Barrel union

- Ensure the union nut is on the upper section



Join the check valve with the threaded part of the barrel union

- Ensure the arrow is facing towards barrel union

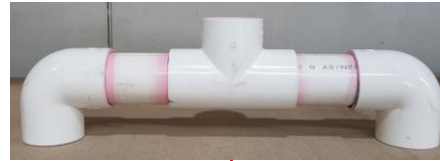
Assembly of Dual Pipework Kit

Follow the same method as for the single pipework kit



Join the elbows, pipes and T-piece
Position:

- Elbows 6 o'clock
- T-piece 12 o'clock



- Elbows 3 and 9 o'clock
- Ball valves 12 o'clock



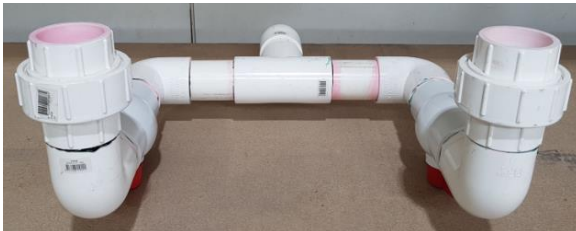
- Elbows 6 o'clock
- Ball valves 12 o'clock

- Pipe joints



Barrel union

- Ensure the union nut is on the upper section



Join the check valve with the threaded part of the barrel union

- Ensure the arrow is facing towards barrel union



Pump preparation

The pump can have a vertical or horizontal outlet

- Select the parts to build connection to the 50mm pipe
- **Record the part numbers and quantity used on the FWO**
- Join the connectors to the pump
- Use the same methods as for the other threaded and press fitted parts
- When using an elbow ensure the elbow is level



Join the pipework kit & pump

- Attach the stainless steel chain 70.0027 and use a spring hook 70.0057 to secure the chain to the pump handle
- Determine the length of the chain by adding up the distance from pump handle to the tank neck + length of dome + length of riser (if applicable)
- **Cut the chain and record item number and length used (in meter) on the FWO**
- Attach a second spring hook on the end of the chain
- Place the pump in position into the tank

!!!Attention!!!

Depending on the tank bottom shape you may need to install the bottom plate 70.0069. If this is the case record it on FWO

- Measure the distance from the pump connection to the centre of the tank outlet (centre of Uniseal 70.0049)
- Measure the length of the pre-assembled pipework from inlet pipe centre to pipe connector
- Now calculate the length of pipe and cut. Distance pump connection to the centre of the tank outlet MINUS length of the pre-assembled pipework PLUS 8cm. **Record the length of pipe 67.0009 on FWO**

Tip: Join all parts DRY and check if sizing is correct before press fitting

- Secure the power cord to valve using a cable tie
- Place assembly back in tank and measure the length of the tank outlet pipe. Pipe should stick out by approx. 20cm.
- Cut pipe, push from outside the tank through the uniseal into position and glue into the pipework



Final steps



- Check the pipework is complete
 - Put the tank installation manual, pump documents and tank seal in a bag and secure with a cable tie to the ball valve
 - Drill a 8mm hole in the lower end of the telescopic lid and attach the chain with the spring hook
 - Take a picture of final install
 - Secure the pipework for transport and pack the pumpout tank ready for dispatch
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- Additional parts as float switches and controller to be packed on separate skid
 - If a riser is on the order, install it on the tank and secure with 2x 40mm stainless steel screws underneath the tank seal

