



Certificate of Accreditation

Sewage Management Facility

Sewage Ejection Pump Station

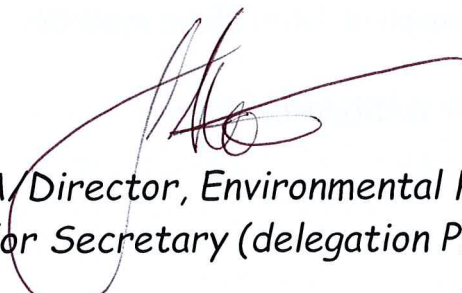
This Certificate of Accreditation is issued by the Secretary of the NSW Ministry of Health pursuant to Clause 41(1) of the Local Government (General) Regulation 2005.

System: *Halgan 1050L, 2000L and 3000L SEPS*

Manufacturer: *Halgan Pty Ltd*

Of: *10 Davis Road, Wetherill Park, NSW, 2264*

The Halgan 1050L, 2000L and 3000L SEPS as described in the attached Schedule have been accredited as a sewage management facility for use in single domestic premises in NSW. The pump well is manufactured to the Australian / New Zealand Standard AS/NZS 1546.1:2008 On-site domestic wastewater treatment units - septic tanks.



*A/Director, Environmental Health
for Secretary (delegation PH335)*

Issued: *7 / 12 / 2021*

Certificate No: *SEPS 018*

Expires: *31 December 2025*



Accreditation Schedule

The Certificate of Accreditation applies to the Halgan sewage ejection pump stations in accordance with the attached plans.

The Halgan Pty Ltd sewage ejection pump station is available in three (3) models with the following capacities:

<i>1080 mm diameter x 1720 mm deep</i>	<i>1050 litres</i>
<i>1430 mm diameter x 1760 mm deep</i>	<i>2000 litres</i>
<i>1430 mm diameter x 2570 mm deep</i>	<i>3000 litres</i>

The Halgan Pty Ltd sewage ejection pump station consists of:

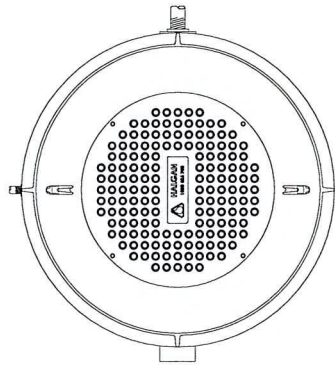
- A cylindrical roto moulded / polyethylene pump well and lid, manufactured by Halgan Pty Ltd, of 10 Davis Road, Wetherill Park NSW; with capacities 1050L, 2000L and 3000L litres.*
- Grundfos SEG and SEG Auto series Grinder pump/s, Davey Submersible Grinder pumps/s, Zenit Submersible Grinder pump/s, Xylem FLYGT Submersible Grinder pump/s or Bianco Submersible Grinder pump/s in either single, dual, or triplex configuration: System grinder pump fitted with start, stop and high-level float switches or transducer in a Single, Dual or Triplex combination.*
- A flexible PVC discharge hose or PVC pressure pipe fitted to a combination anti-syphon/check valve and shut-off valve on the outlet of the grinder pump. The discharge pipe is connected to either 32mm, 50mm or 80mm diameter house pressure main to the sewer.*
- A single, dual, or triplex control panel with audible and visual alarm with start, stop and high-level float switches or transducer supplied. Level alarm available on single pump applications.*
- Guiderail with Auto Coupling options available for additional safety requirements.*

HALGAN™ HPS1050 SINGLE GRINDER PUMP STATION DETAIL

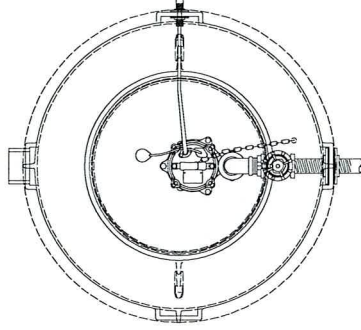
Notes

1. General
 - 1.1. Tank constructed from Polyethylene.
 - 1.2. The Vessel is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles.
 - 1.3. The Vessel must have ease of access to pumpout point for maintenance.
 - 1.4. A hose tap fitted with RPZD backflow protection (as per AS/NZS 3500).
 - 1.5. Non standard installations require Halgan approval.
2. Installation above ground
 - 2.1. Pump station must be placed on a level concrete base designed to withstand pump station loadings.
 - 2.2. Ensure tank is protected from external damage.
 - 2.3. All stormwater must be diverted away from the Vessel to prevent undermining of foundation.
3. Installation below ground
 - 3.1. All connections to the Halgan Pumpstation shall be in accordance with the appropriate authorities.
 - 3.2. Any excavation exceeding 1.5m in depth shall comply with construction safety Acts and Regulations.
4. Excavation dimensions
 - 4.1. The excavated hole width shall be kept as narrow as practicable. The depth shall not be greater than 150mm and the width not greater than 75mm of the tank dimensions.
5. Bedding/Backfill
 - 5.1. Bed down the tank in fresh concrete.
 - 5.2. The bedding/backfill should be a lean concrete mix encasing 3/4 the depth of the tank.
 - 5.3. The bedding/backfill shall be compacted in 300mm layers.
 - 5.4. The remaining 1/4 of the tank shall be backfilled with blue metal up to 10mm diameter.
 - 5.5. The backfill shall be compacted in 300mm layers to encase the whole tank.
 - 5.6. Foreign material such as builder's waste, bricks and concrete shall not be used as backfill.
 - 5.7. The backfill shall be compacted to restore the excavated hole as near as possible to the normal ground.
6. Water charged ground
 - 6.1. Installation in areas subject to flooding & groundwater is only permitted when the level of water does not exceed the height of the middle of the tank.
 - 6.2. In areas of heavy, clay-like soils, the installation is only permitted when there is sufficient drainage underneath the body of the tank.
7. Pipe work
 - 7.1. An isolation valve must be provided in the common discharge line and a non return valve must be provided on each pump discharge.
 - 7.2. For free standing pumps a barrel union/quick release coupling must also be provided.
 - 7.3. For guiderail installations a disconnection flange or barrel union should be provided to facilitate service of check valves.
 - 7.4. The valves and barrel unions/quick release coupling disconnection points should be located as close as practical to the top of the pump station and be accessible from the access chamber.
 - 7.5. Outlet pipework size depend on pump model discharge size selected.

NSW MINISTRY OF HEALTH
 07 DEC 2021
 ACCREDITED

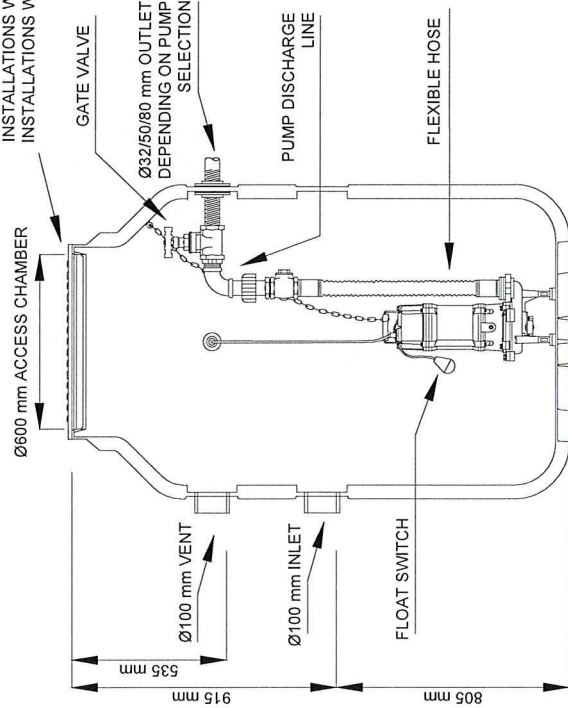


PLAN VIEW

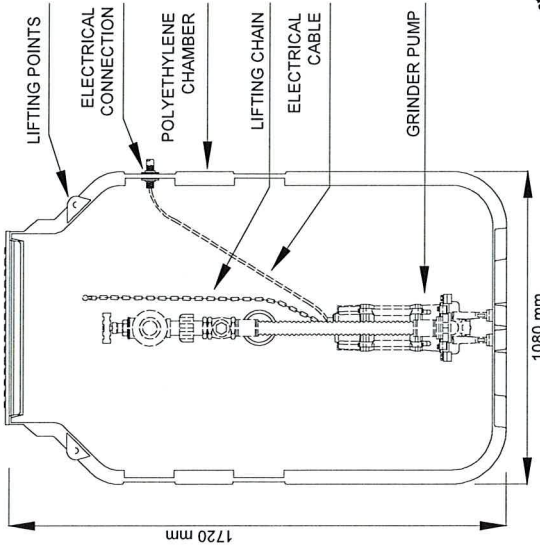


PLAN VIEW - LID REMOVED

INSTALLATIONS WITH B CLASS LIDS ADD 50 mm TO FSL
 INSTALLATIONS WITH D CLASS LIDS ADD 75 mm TO FSL



SECTIONAL SIDE ELEVATION



SECTIONAL ELEVATION

HALGAN™ HPS1050 PUMP STATION DIMENSIONS				
MODEL	HEIGHT	WIDTH	VOLUME	TANK WEIGHT
HPS1050	1720 mm	1080 mm	1050 L	70 KG

REV	DATE	DESCRIPTION	BY	CHKD	APP
A	15.08.2018	DETAIL DESIGN	F	JB	

Freecall 1800 625 753
 22, Ethel Avenue
 Brookvale NSW 2100
 admin@halgan.com.au
 www.halgan.com.au



MEASUREMENTS
 CAN VARY ± 3%

HALGAN™ HPS1050 SINGLE
 GRINDER PUMP STATION DETAIL

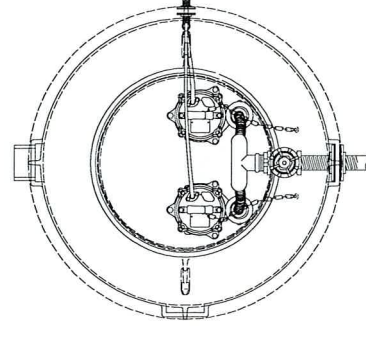
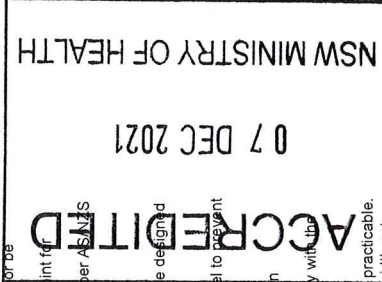


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 ID Number: 100001

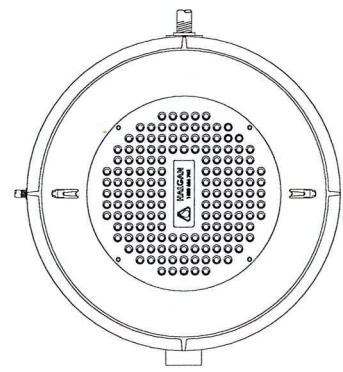
DATE	15.08.2018
SCALE	A4
DRWING	JB
CHECKED	F
DATE	15.08.2018
REV.	

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HALGAN™ HPS1050 DUAL GRINDER PUMP STATION DETAIL

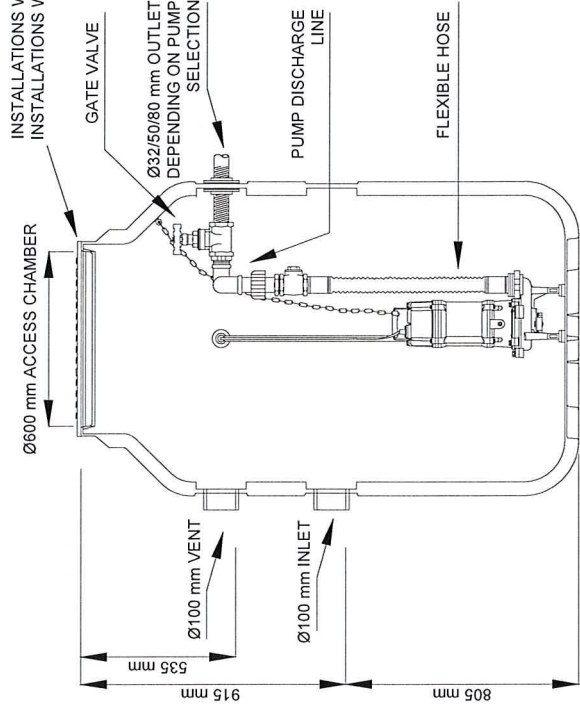


PLAN VIEW - LID REMOVED

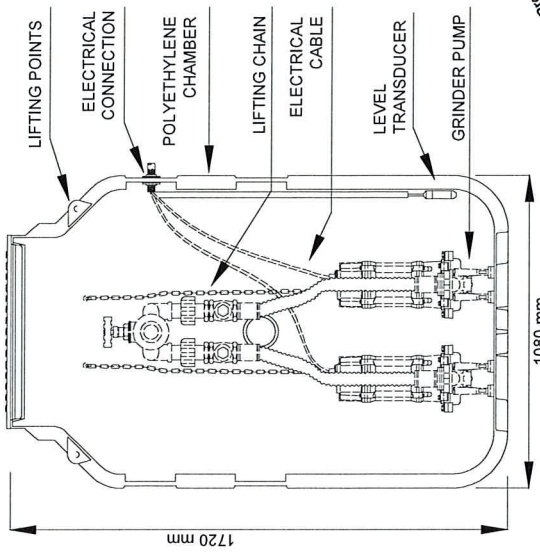


PLAN VIEW

INSTALLATIONS WITH B CLASS LIDS ADD 50 mm TO FSL
INSTALLATIONS WITH D CLASS LIDS ADD 75 mm TO FSL



SECTIONAL SIDE ELEVATION



SECTIONAL ELEVATION

HALGAN™ HPS1050 PUMP STATION DIMENSIONS			
MODEL	HEIGHT	WIDTH	TANK WEIGHT
HPS1050	1720 mm	1080 mm	70 KG

- Notes**
- General
 - Tank constructed from Polyethylene.
 - The Vessel is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles.
 - The Vessel must have ease of access to pumpout point for maintenance.
 - A hose tap fitted with RPZD backflow protection (as per AS/NZS 3500).
 - Non standard installations require Halgan approval.
 - Installation above ground
 - Pump station must be placed on a level concrete base designed to withstand pump station loadings.
 - Ensure tank is protected from external damage.
 - All stormwater must be diverted away from the Vessel to prevent undermining of foundation.
 - Installation below ground
 - All connections to the Halgan Pumpstation shall be in accordance with the appropriate authorities.
 - Any excavation exceeding 1.5m in depth shall comply with the construction safety Acts and Regulations.
 - Excavation dimensions
 - The excavated hole width shall be kept as narrow as practicable. The depth shall not be greater than 150mm and the width not greater than 75mm of the tank dimensions.
 - Bedding/Backfill
 - Bed down the tank in fresh concrete.
 - The bedding/backfill should be a lean concrete mix encasing $\frac{1}{3}$ the depth of the tank.
 - The bedding/backfill shall be compacted in 300mm layers.
 - The remaining $\frac{2}{3}$ of the tank shall be backfilled with blue metal up to 10mm diameter.
 - The backfill shall be compacted in 300mm layers to encase the whole tank.
 - Foreign material such as builder's waste, bricks and concrete shall not be used as backfill.
 - The backfill shall be compacted to restore the excavated hole as near as possible to the normal ground.
 - Water charged ground
 - Installation in areas subject to flooding & groundwater is only permitted when the level of water does not exceed the height of the middle of the tank.
 - In areas of heavy, clay-like soils, the installation is only permitted when there is sufficient drainage underneath the body of the tank.
 - Pipe work
 - An isolation valve must be provided in the common discharge line and a non return valve must be provided on each pump discharge.
 - For free standing pumps a barrel union/quick release coupling must also be provided.
 - For guiderail installations a disconnection flange or barrel union should be provided to facilitate service of check valves.
 - The valves and barrel unions/quick release coupling disconnection points should be located as close as practical to the top of the pump station and be accessible from the access chamber.
 - Outlet pipework size depend on pump model discharge size selected.

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www.halgan.com.au

MEASUREMENTS CAN VARY ± 3%
HALGAN™ HPS1050 DUAL GRINDER PUMP STATION
DETAIL

DATE	16.08.2018
IF	SCALE
DESIGNED	JB
DRAWN	AS
CHKD	APP
BY	CHKD / APP
REV	
1	16.08.2018
2	16.08.2018
3	16.08.2018
4	16.08.2018
5	16.08.2018
6	16.08.2018
7	16.08.2018
8	16.08.2018
9	16.08.2018
10	16.08.2018

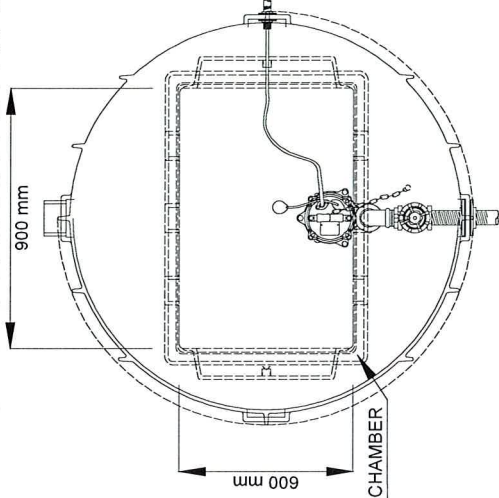
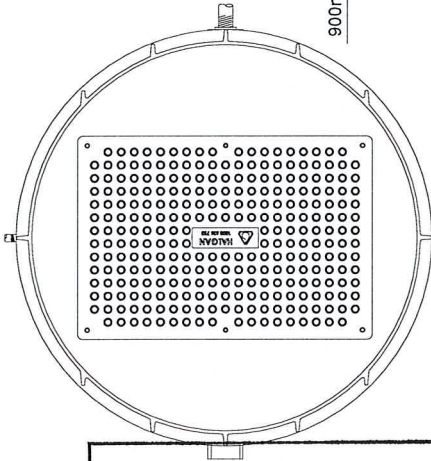


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ID Number: 10080

HALGAN™ HPS2000 SINGLE GRINDER PUMP STATION DETAIL

Notes

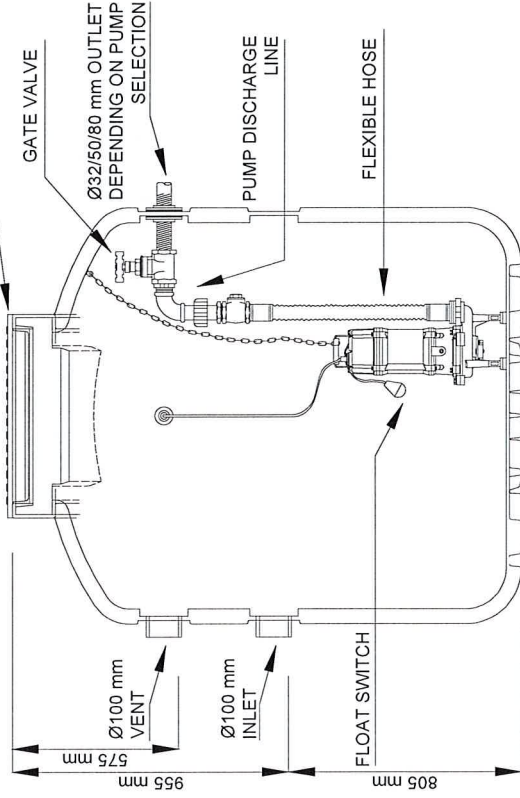
1. **General**
- 1.1. Tank constructed from Polyethylene.
- 1.2. The Vessel is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles.
- 1.3. The Vessel must have ease of access to pumpout point for maintenance.
- 1.4. A hose tap fitted with RPZD backflow protection (as per AS/NZS 3500).
- 1.5. Non standard installations require Halgan approval.
2. **Installation above ground**
- 2.1. Pump station must be placed on a level concrete base designed to withstand pump station loadings.
- 2.2. Ensure tank is protected from external damage.
- 2.3. All stormwater must be diverted away from the Vessel to prevent undermining of foundation.
3. **Installation below ground**
- 3.1. All connections to the Halgan Pumpstation shall be in accordance with the appropriate authorities.
- 3.2. Any excavation exceeding 1.5m in depth shall comply with construction safety Acts and Regulations.
4. **Excavation dimensions**
- 4.1. The excavated hole width shall be kept as narrow as practicable. The depth shall not be greater than 140mm and the width not greater than 75mm of the tank dimensions.
5. **Bedding/Backfill**
- 5.1. Bed down the tank in fresh concrete.
- 5.2. The bedding/backfill should be a lean concrete mix encasing the depth of the tank.
- 5.3. The bedding/backfill shall be compacted in 300mm layers.
- 5.4. The remaining 2/3 of the tank shall be backfilled with blue metal up to 10mm diameter.
- 5.5. The backfill shall be compacted in 300mm layers to encase the whole tank.
- 5.6. Foreign material such as builder's waste, bricks and concrete shall not be used as backfill.
- 5.7. The backfill shall be compacted to restore the excavated hole as near as possible to the normal ground.
6. **Water charged ground**
- 6.1. Installation in areas subject to flooding & groundwater is only permitted when the level of water does not exceed the height of the middle of the tank.
- 6.2. In areas of heavy, clay-like soils, the installation is only permitted when there is sufficient drainage underneath the body of the tank.
7. **Pipe work**
- 7.1. An isolation valve must be provided in the common discharge line and a non return valve must be provided on each pump discharge.
- 7.2. For free standing pumps a barrel union/quick release coupling must also be provided.
- 7.3. For guiderail installations a disconnection flange or barrel union should be provided to facilitate service of check valves.
- 7.4. The valves and barrel unions/quick release coupling disconnection points should be located as close as practical to the top of the pump station and be accessible from the access chamber.
- 7.5. Outlet pipework size depend on pump model discharge size selected.



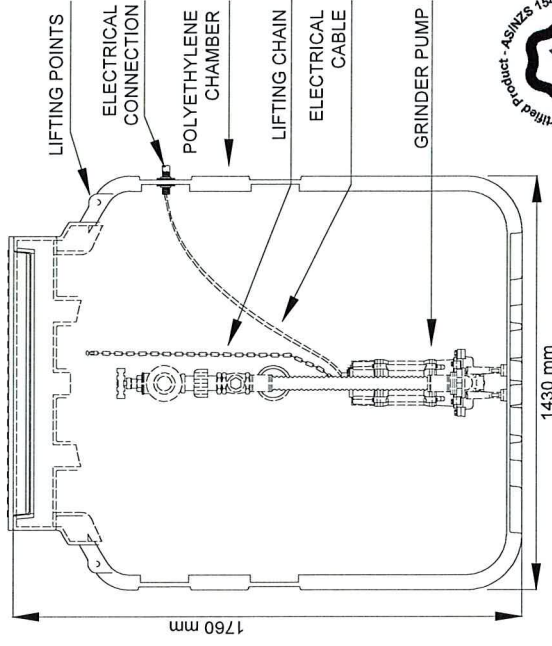
PLAN VIEW

PLAN VIEW - LID REMOVED

INSTALLATIONS WITH B CLASS LIDS ADD 55 mm TO FSL
INSTALLATIONS WITH D CLASS LIDS ADD 90 mm TO FSL



SECTIONAL SIDE ELEVATION



SECTIONAL ELEVATION

HALGAN™ HPS2000 PUMP STATION DIMENSIONS				
MODEL	HEIGHT	WIDTH	VOLUME	TANK WEIGHT
HPS2000	1760 mm	1430 mm	2000 L	150 KG



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MEASUREMENTS CAN VARY ± 3%

HALGAN™ HPS2000 SINGLE GRINDER PUMP STATION DETAIL

DATE	15.08.2018
DRAWN	IF
CHECKED	JB
SCALE	1:25
REV	A4
DRAWING NO.	HPS2000S/GRINDER

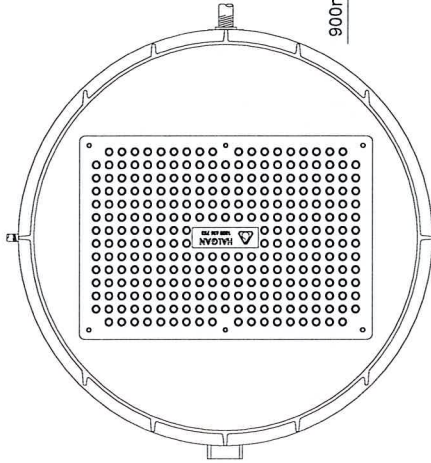
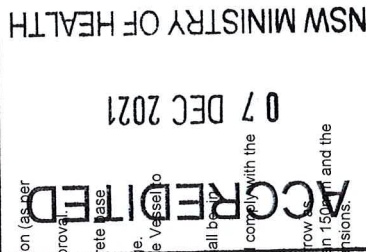
ASK

REV	DATE	DESCRIPTION	BY	CHKD	APP
A	15.08.2018	DETAIL DESIGN	IF	JB	

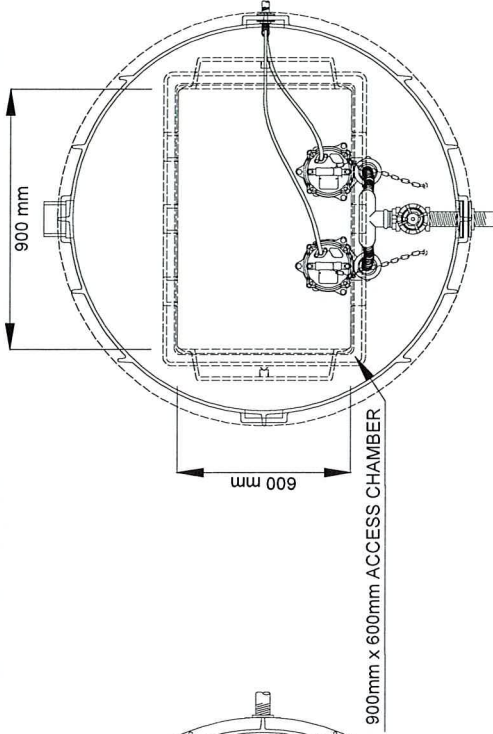
HALGAN™ HPS2000 DUAL GRINDER PUMP STATION DETAIL

Notes

1. General
 - 1.1. Tank constructed from Polyethylene.
 - 1.2. The Vessel is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles.
 - 1.3. The Vessel must have ease of access to pumpout point for maintenance.
 - 1.4. A hose tap fitted with RPZD backflow protection (gasbar AS/NZS 3500).
 - 1.5. Non standard installations require Halgan approval.
2. Installation above ground
 - 2.1. Pump station must be placed on a level concrete base designed to withstand pump station loadings.
 - 2.2. Ensure tank is protected from external damage.
 - 2.3. All stormwater must be diverted away from the Vessel to prevent undermining of foundation.
3. Installation below ground
 - 3.1. All connections to the Halgan Pumpstation shall be in accordance with the appropriate authorities.
 - 3.2. Any excavation exceeding 1.5m in depth shall comply with the construction safety Acts and Regulations.
4. Excavation dimensions
 - 4.1. The excavated hole width shall be kept as narrow and practicable. The depth shall not be greater than 150mm and the width not greater than 75mm of the tank dimensions.
5. Bedding/Backfill
 - 5.1. Bed down the tank in fresh concrete.
 - 5.2. The bedding/backfill should be a lean concrete mix encasing $\frac{1}{3}$ the depth of the tank.
 - 5.3. The bedding/backfill shall be compacted in 300mm layers.
 - 5.4. The remaining $\frac{2}{3}$ of the tank shall be backfilled with blue metal up to 10mm diameter.
 - 5.5. The backfill shall be compacted in 300mm layers to encase the whole tank.
 - 5.6. Foreign material such as builder's waste, bricks and concrete shall not be used as backfill.
 - 5.7. The backfill shall be compacted to restore the excavated hole as near as possible to the normal ground.
6. Water charged ground
 - 6.1. Installation in areas subject to flooding & groundwater is only permitted when the level of water does not exceed the height of the middle of the tank.
 - 6.2. In areas of heavy, clay-like soils, the installation is only permitted when there is sufficient drainage underneath the body of the tank.
7. Pipe work
 - 7.1. An isolation valve must be provided in the common discharge line and a non return valve must be provided on each pump discharge.
 - 7.2. For free standing pumps a barrel union/quick release coupling must also be provided.
 - 7.3. For guiderail installations a disconnection flange or barrel union should be provided to facilitate service of check valves.
 - 7.4. The valves and barrel unions/quick release coupling disconnection points should be located as close as practical to the top of the pump station and be accessible from the access chamber.
 - 7.5. Outlet pipework size depend on pump model discharge size selected.

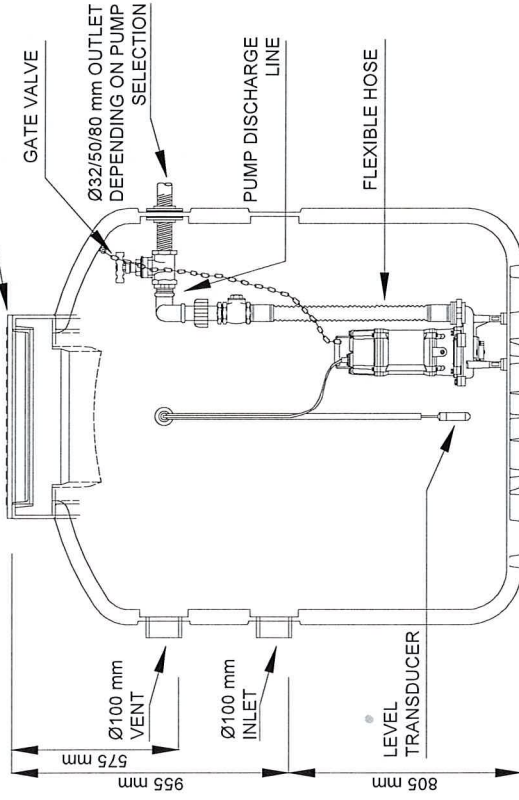


PLAN VIEW

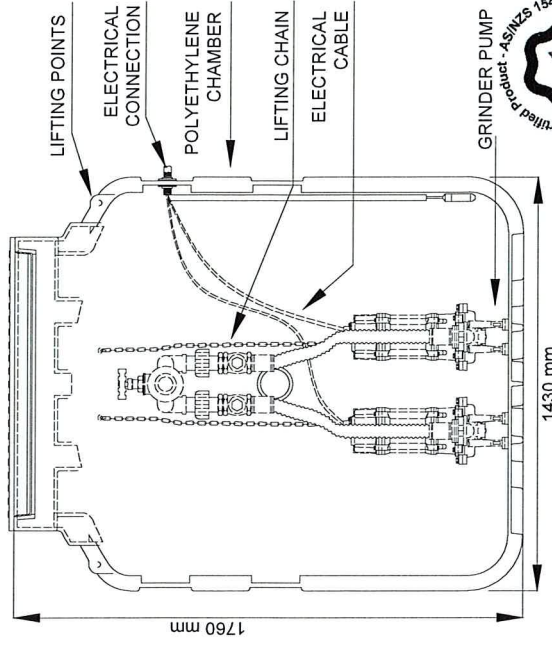


PLAN VIEW - LID REMOVED

INSTALLATIONS WITH B CLASS LIDS ADD 55 mm TO FSL
INSTALLATIONS WITH D CLASS LIDS ADD 90 mm TO FSL



SECTIONAL SIDE ELEVATION



SECTIONAL ELEVATION

HALGAN™ HPS2000 PUMP STATION DIMENSIONS				
MODEL	HEIGHT	WIDTH	VOLUME	TANK WEIGHT
HPS2000	1760 mm	1430 mm	2000 L	150 KG

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Brookvale NSW 2100
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MEASUREMENTS CAN VARY ± 3%
HALGAN™ HPS2000 DUAL GRINDER PUMP STATION DETAIL

DATE	16.08.2018
DRAWN BY	JB
CHECKED BY	JB
SCALE	1:25
APP. NO.	A4
APP. NAME	HPS2000DGRINDER



Global-Mark.com.au®
ID Number: 100006

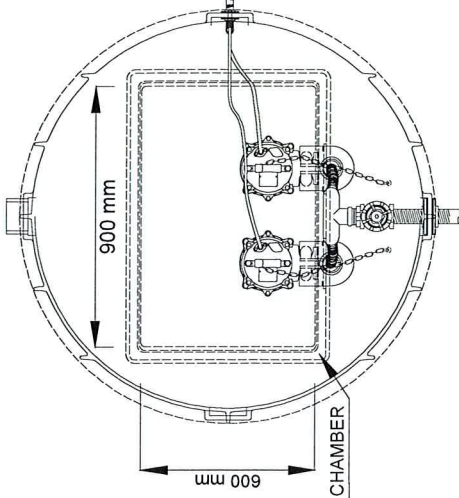
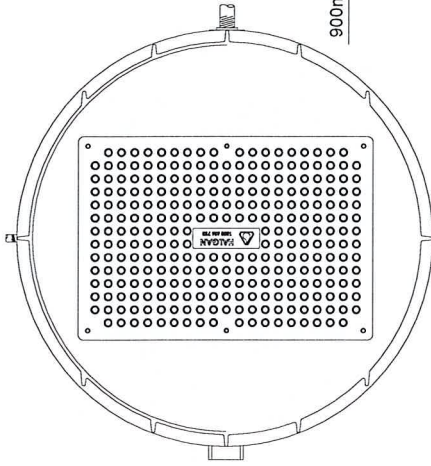
ASK

REV	DATE	DESCRIPTION	BY	CHKD	APP
A	14.02.2018	DETAIL DESIGN	F	JB	

HALGAN™ HPS2000 DUAL GRINDER PUMP STATION W/GUIDE RAILS DETAIL

Notes

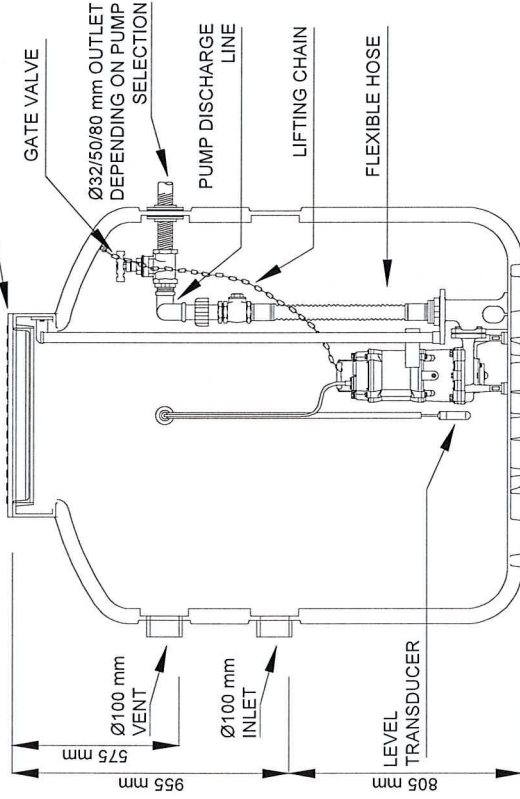
1. General
 - 1.1. Tank constructed from Polyethylene.
 - 1.2. The Vessel is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles.
 - 1.3. The Vessel must have ease of access to pumpout point for maintenance.
 - 1.4. A hose tap fitted with RPZD backflow protection (refer AS/NZS 3500).
 - 1.5. Non standard installations require Halgan approval.
2. Installation above ground
 - 2.1. Pump station must be placed on a level concrete base designed to withstand pump station loadings.
 - 2.2. Ensure tank is protected from external damage.
 - 2.3. All stormwater must be diverted away from the vessel to prevent undermining of foundation.
3. Installation below ground
 - 3.1. All connections to the Halgan Pumpstation shall be in accordance with the appropriate authorities.
 - 3.2. Any excavation exceeding 1.5m in depth shall comply with the construction safety Acts and Regulations.
4. Excavation dimensions
 - 4.1. The excavated hole width shall be kept as narrow as practicable. The depth shall not be greater than 150mm and the width not greater than 75mm of the tank dimensions.
5. Bedding/Backfill
 - 5.1. Bed down the tank in fresh concrete.
 - 5.2. The bedding/backfill should be a lean concrete mix encasing $\frac{1}{3}$ the depth of the tank.
 - 5.3. The bedding/backfill shall be compacted in 300mm layers.
 - 5.4. The remaining $\frac{2}{3}$ of the tank shall be backfilled with blue metal up to 10mm diameter.
 - 5.5. The backfill shall be compacted in 300mm layers to encase the whole tank.
 - 5.6. Foreign material such as builder's waste, bricks and concrete shall not be used as backfill.
 - 5.7. The backfill shall be compacted to restore the excavated hole as near as possible to the normal ground.
6. Water charged ground
 - 6.1. Installation in areas subject to flooding & groundwater is only permitted when the level of water does not exceed the height of the middle of the tank.
 - 6.2. In areas of heavy, clay-like soils, the installation is only permitted when there is sufficient drainage underneath the body of the tank.
7. Pipe work
 - 7.1. An isolation valve must be provided in the common discharge line and a non return valve must be provided on each pump discharge.
 - 7.2. For free standing pumps a barrel union/quick release coupling must also be provided.
 - 7.3. For gullerall installations a disconnection flange or barrel union should be provided to facilitate service of check valves.
 - 7.4. The valves and barrel unions/quick release coupling disconnection points should be located as close as practical to the top of the pump station and be accessible from the access chamber.
 - 7.5. Outlet pipework size depend on pump model discharge size selected.



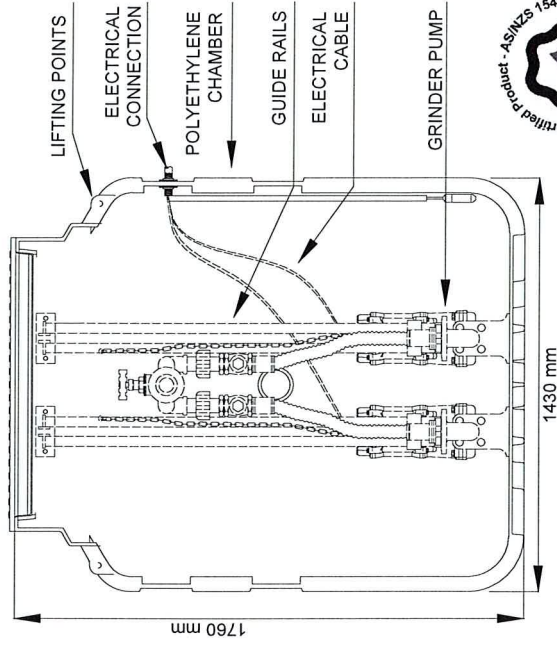
PLAN VIEW

PLAN VIEW - LID REMOVED

INSTALLATIONS WITH B CLASS LIDS ADD 55 mm TO FSL
INSTALLATIONS WITH D CLASS LIDS ADD 90 mm TO FSL



SECTIONAL SIDE ELEVATION



SECTIONAL ELEVATION

HALGAN™ HPS2000 PUMP STATION DIMENSIONS				
MODEL	HEIGHT	WIDTH	VOLUME	TANK WEIGHT
HPS2000	1780 mm	1430 mm	2000 L	150 KG

REV	DATE	DESCRIPTION	BY	CHKD	APP
A	27/08/2018	INITIAL DESIGN	JB	JB	

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MEASUREMENTS CAN VARY ± 3%
HALGAN™ HPS2000 DUAL GRINDER PUMP STATION W/GUIDE RAILS DETAIL

ISSUED	DATE	SCALE	NO.
IF	27.08.2018	A4	
CREATED	DATE	SCALE	NO.
JB	1/25	A4	
DRAWING NO.	HPS2000D/GRINDERGR		

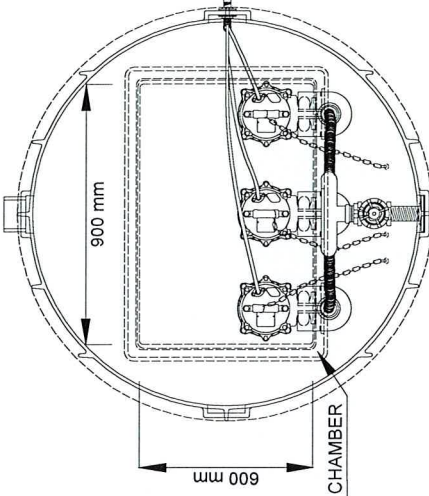
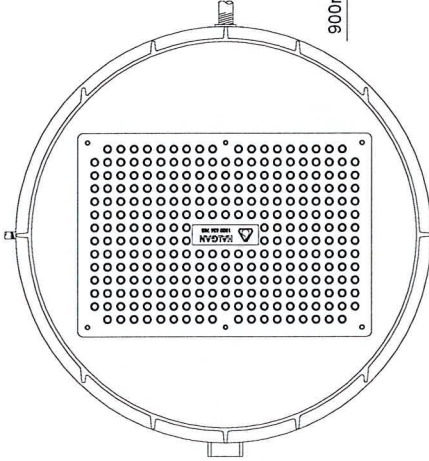


HALGAN™ HPS2000 TRIPLEX GRINDER PUMP STATION W/GUIDE RAILS DETAIL

Notes

1. General
 - 1.1. Tank constructed from Polyethylene.
 - 1.2. The Vessel is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles.
 - 1.3. The Vessel must have ease of access to pumpout point for maintenance.
 - 1.4. A hose tap fitted with RPZD backflow projection (as per AS/NZS 3500).
 - 1.5. Non standard installations require Halgan approval.
2. Installation above ground
 - 2.1. Pump station must be placed on a level concrete base designed to withstand pump station loadings.
 - 2.2. Ensure tank is protected from external damage.
 - 2.3. All stormwater must be diverted away from the vessel to prevent undermining of foundation.
3. Installation below ground
 - 3.1. All connections to the Halgan Pumpstation shall be in accordance with the appropriate authorities.
 - 3.2. Any excavation exceeding 1.5m in depth shall comply with the construction safety Acts and Regulations.
4. Excavation dimensions
 - 4.1. The excavated hole width shall be kept as narrow as practicable. The depth shall not be greater than 150mm and the width not greater than 75mm of the tank dimensions.
5. Bedding/Backfill
 - 5.1. Bed down the tank in fresh concrete.
 - 5.2. The bedding/backfill should be a lean concrete mix encasing $\frac{1}{3}$ the depth of the tank.
 - 5.3. The bedding/backfill shall be compacted in 300mm layers.
 - 5.4. The remaining $\frac{2}{3}$ of the tank shall be backfilled with blue metal up to 10mm diameter.
 - 5.5. The backfill shall be compacted in 300mm layers to encase the whole tank.
 - 5.6. Foreign material such as builder's waste, bricks and concrete shall not be used as backfill.
 - 5.7. The backfill shall be compacted to restore the excavated hole as near as possible to the normal ground.
6. Water charged ground
 - 6.1. Installation in areas subject to flooding & groundwater is only permitted when the level of water does not exceed the height of the middle of the tank.
 - 6.2. In areas of heavy, clay-like soils, the installation is only permitted when there is sufficient drainage underneath the body of the tank.
7. Pipe work
 - 7.1. An isolation valve must be provided in the common discharge line and a non return valve must be provided on each pump discharge.
 - 7.2. For free standing pumps a barrel union/quick release coupling must also be provided.
 - 7.3. For gullerall installations a disconnection flange or barrel union should be provided to facilitate service of check valves.
 - 7.4. The valves and barrel unions/quick release coupling disconnection points should be located as close as practical to the top of the pump station and be accessible from the access chamber.
 - 7.5. Outlet pipework size depend on pump model discharge size selected.

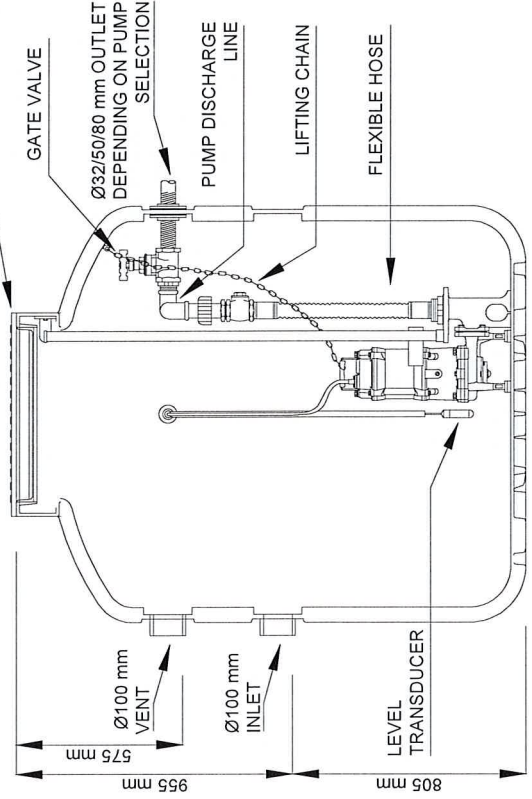
NSW MINISTRY OF HEALTH
 0 / DEC 2021
 APPROVED



PLAN VIEW

PLAN VIEW - LID REMOVED

INSTALLATIONS WITH B CLASS LIDS ADD 55 mm TO FSL
 INSTALLATIONS WITH D CLASS LIDS ADD 90 mm TO FSL



SECTIONAL SIDE ELEVATION

SECTIONAL ELEVATION

HALGAN™ HPS2000 PUMP STATION DIMENSIONS				
MODEL	HEIGHT	WIDTH	VOLUME	TANK WEIGHT
HPS2000	1760 mm	1430 mm	2000 L	150 KG



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MEASUREMENTS CAN VARY ± 5%
 HALGAN™ HPS2000 TRIPLEX GRINDER PUMP STATION W/GUIDE RAILS DETAIL

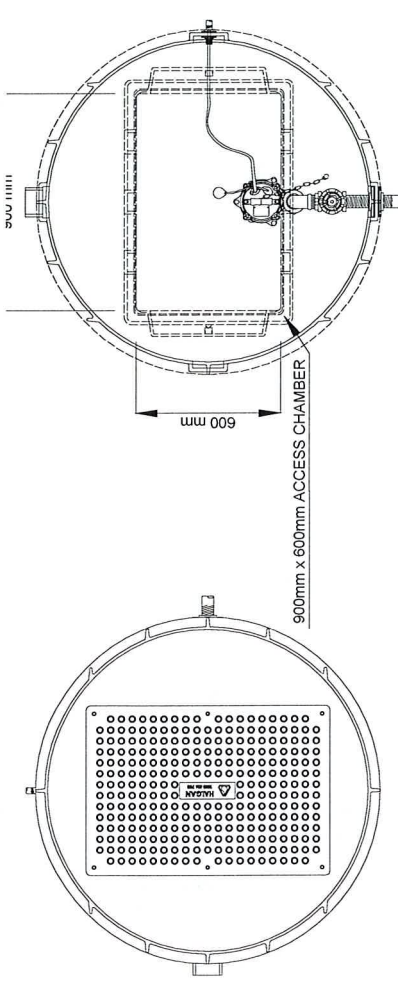
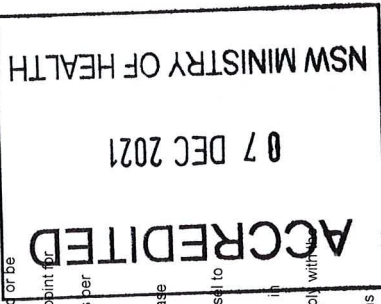
DATE	71.06.2018
DRAWN	IF
CHECKED	JB
SCALE	1:25
REV.	A4
ITEM NO.	HPS2000/GRINDERGR

REV	DATE	DESCRIPTION	BY	CHKD	APP
1	17.12.2018	RETAIL DESIGN	IF	JB	

HALGAN™ HPS3000 SINGLE GRINDER PUMP STATION DETAIL

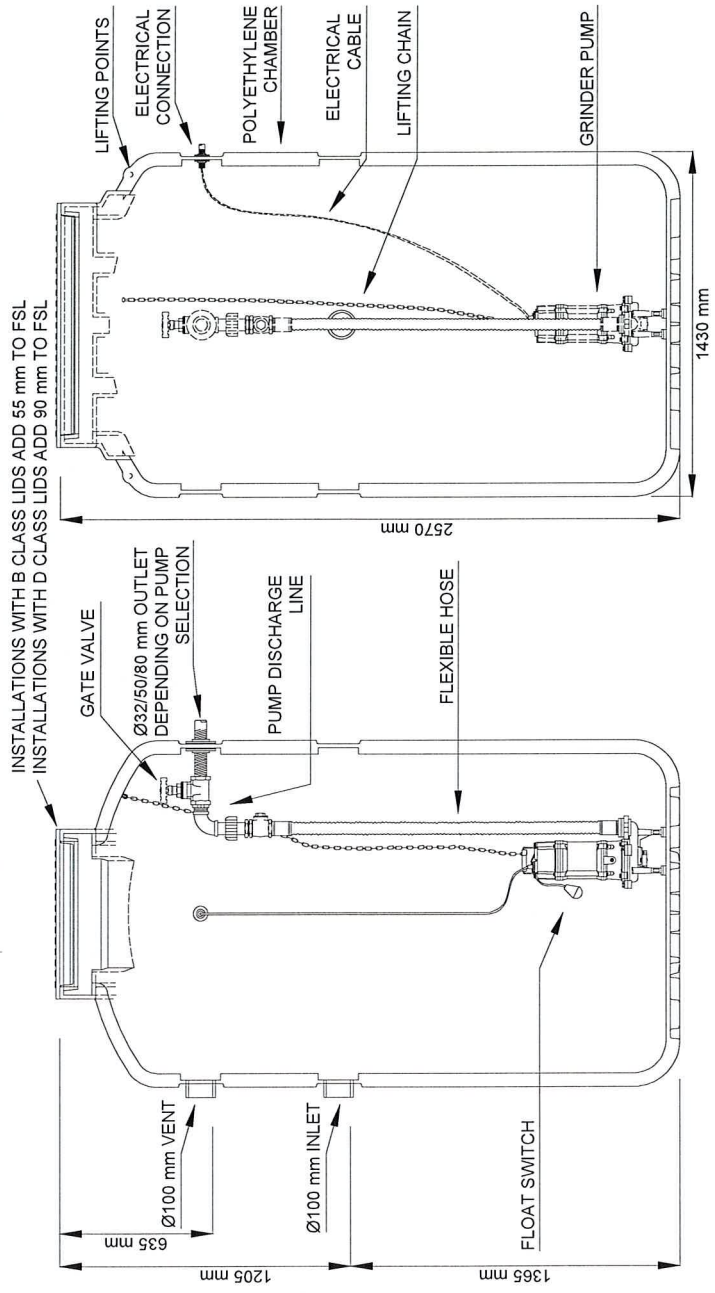
Notes

1. General
 - 1.1. Tank constructed from Polyethylene.
 - 1.2. The Vessel is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles.
 - 1.3. The Vessel must have ease of access to pumpout point for maintenance.
 - 1.4. A hose tap fitted with RPZD backflow protection (as per AS/NZS 3500).
 - 1.5. Non standard installations require Halgan approval.
2. Installation above ground
 - 2.1. Pump station must be placed on a level concrete base designed to withstand pump station loadings.
 - 2.2. Ensure tank is protected from external damage.
 - 2.3. All stormwater must be diverted away from the Vessel to prevent undermining of foundation.
3. Installation below ground
 - 3.1. All connections to the Halgan Pumpstation shall be in accordance with the appropriate authorities.
 - 3.2. Any excavation exceeding 1.5m in depth shall comply with construction safety Acts and Regulations.
4. Excavation dimensions
 - 4.1. The excavated hole width shall be kept as narrow as practicable. The depth shall not be greater than 150mm and the width not greater than 75mm of the tank dimensions.
5. Bedding/Backfill
 - 5.1. Bed down the tank in fresh concrete.
 - 5.2. The bedding/backfill should be a lean concrete mix encasing $\frac{1}{3}$ the depth of the tank.
 - 5.3. The bedding/backfill shall be compacted in 300mm layers.
 - 5.4. The remaining $\frac{2}{3}$ of the tank shall be backfilled with blue metal up to 10mm diameter.
 - 5.5. The backfill shall be compacted in 300mm layers to encase the whole tank.
 - 5.6. Foreign material such as builder's waste, bricks and concrete shall not be used as backfill.
 - 5.7. The backfill shall be compacted to restore the excavated hole as near as possible to the normal ground.
6. Water charged ground
 - 6.1. Installation in areas subject to flooding & groundwater is only permitted when the level of water does not exceed the height of the middle of the tank.
 - 6.2. In areas of heavy, clay-like soils, the installation is only permitted when there is sufficient drainage underneath the body of the tank.
7. Pipe work
 - 7.1. An isolation valve must be provided in the common discharge line and a non return valve must be provided on each pump discharge.
 - 7.2. For free standing pumps a barrel union/quick release coupling must also be provided.
 - 7.3. For guller installations a disconnection flange or barrel union should be provided to facilitate service of check valves.
 - 7.4. The valves and barrel unions/quick release coupling disconnection points should be located as close as practical to the top of the pump station and be accessible from the access chamber.
 - 7.5. Outlet pipework size depend on pump model discharge size selected.



PLAN VIEW

PLAN VIEW - LID REMOVED



SECTIONAL SIDE ELEVATION

SECTIONAL ELEVATION

HALGAN™ HPS3000 PUMP STATION DIMENSIONS			
MODEL	HEIGHT	WIDTH	TANK WEIGHT
HPS3000	2570 mm	1430 mm	225 KG

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MEASUREMENTS
CAN VARY ± 3%

HALGAN™ HPS3000 SINGLE
GRINDER PUMP STATION DETAIL

DATE	15.08.2018
DRAWN	IF
CHECKED	JB
SCALE	1:30
APP. NO.	A4
PROJECT NO.	HPS3000S/GRINDER
REV.	A



Globat-Mark.com.au®
ID Number: 10006

ACCOMMODATION SERVICES

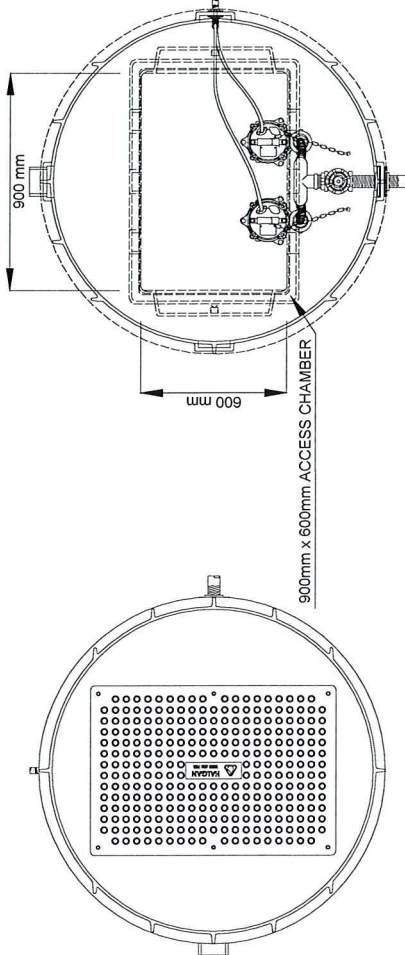
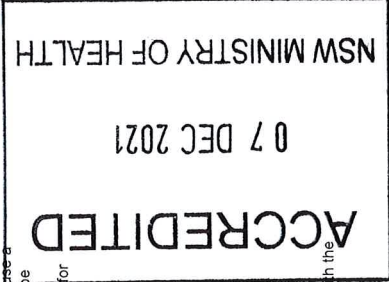
01 DEC 2009

ACCREDITED

HALGAN™ HPS3000 DUAL GRINDER PUMP STATION DETAIL

Notes

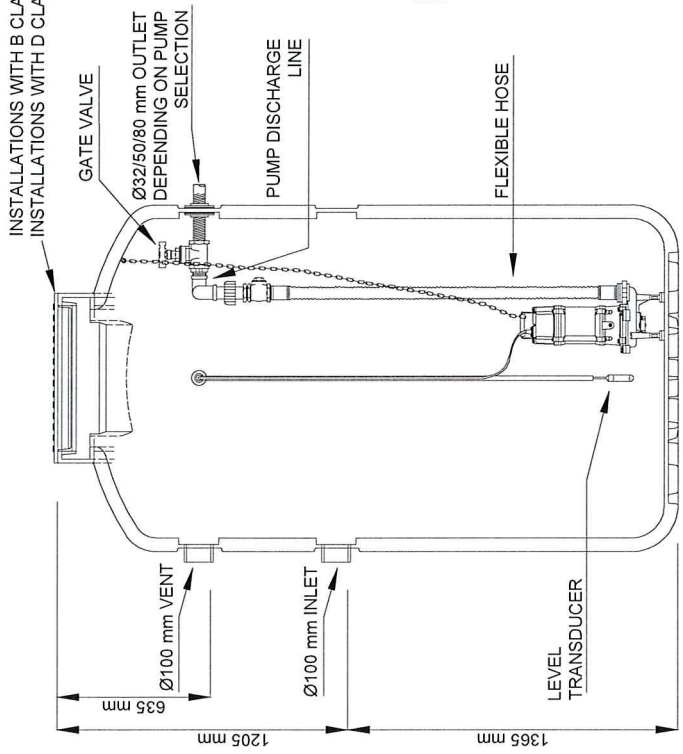
1. General
 - 1.1. Tank constructed from Polyethylene.
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 - 7.5. Outlet pipework size depend on pump model discharge size selected.



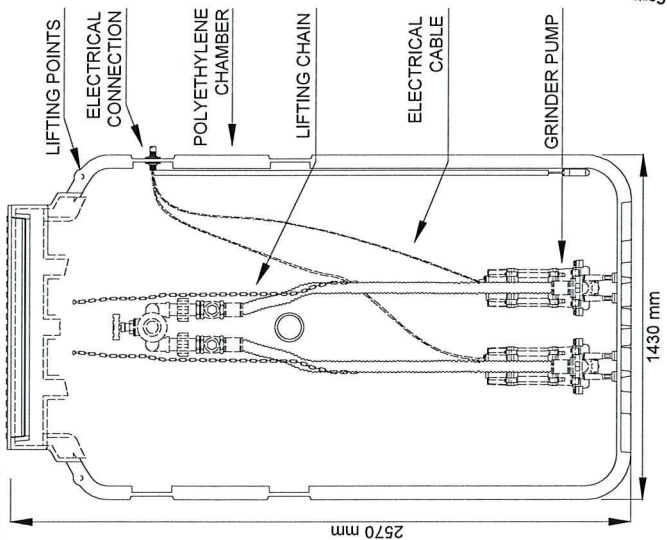
PLAN VIEW - LID REMOVED

INSTALLATIONS WITH B CLASS LIDS ADD 55 mm TO FSL
INSTALLATIONS WITH D CLASS LIDS ADD 90 mm TO FSL

PLAN VIEW



SECTIONAL SIDE ELEVATION



SECTIONAL ELEVATION

HALGAN™ HPS3000 PUMP STATION DIMENSIONS				
MODEL	HEIGHT	WIDTH	VOLUME	TANK WEIGHT
HPS3000	2570 mm	1430 mm	3000 L	225 KG

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MEASUREMENTS CAN VARY ± 3%
HALGAN™ HPS3000 DUAL GRINDER PUMP STATION
DETAIL

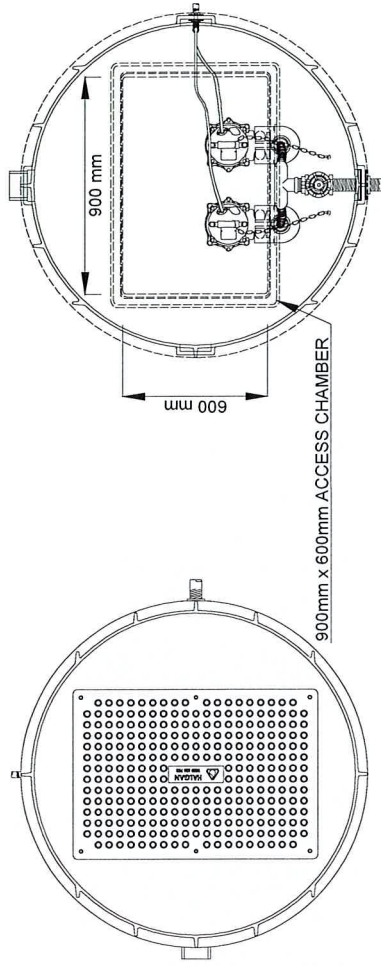
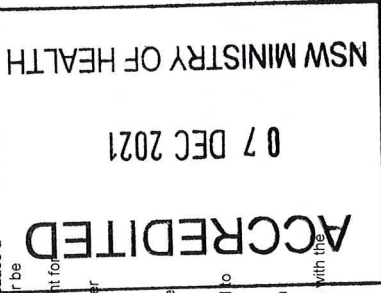


DATE	16.08.2018
SCALE	1:30
BY	JB
CHKD	JB
APP	JB
REV	A4
DESCRIPTION	HPS3000 D GRINDER

HALGAN™ HPS3000 DUAL GRINDER PUMP STATION W/GUIDE RAILS DETAIL

Notes

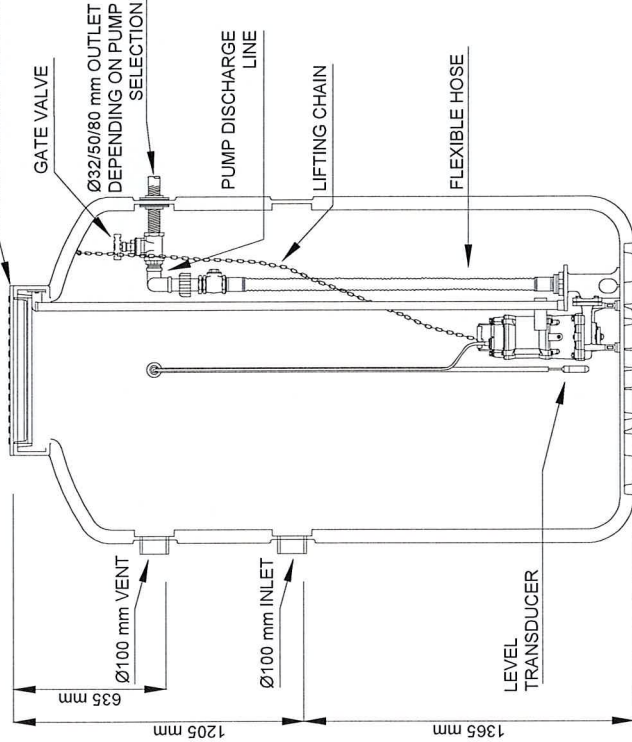
1. General
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 - 7.5. Outlet pipework size depend on pump model discharge size selected.



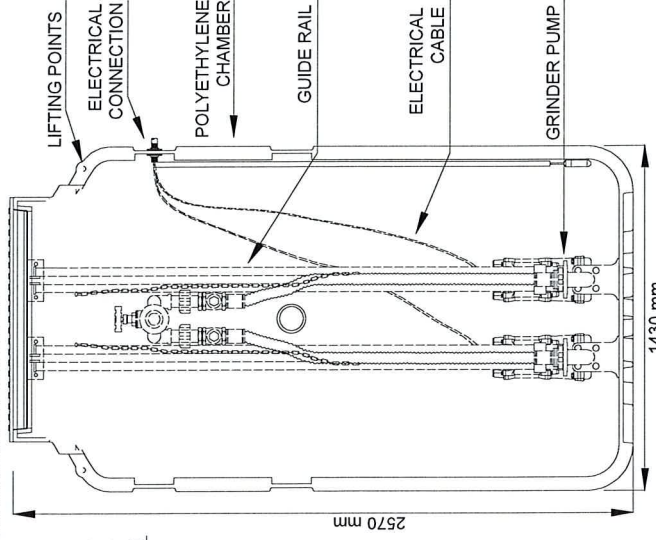
PLAN VIEW

PLAN VIEW - LID REMOVED

INSTALLATIONS WITH B CLASS LIDS ADD 55 mm TO FSL
INSTALLATIONS WITH D CLASS LIDS ADD 90 mm TO FSL



SECTIONAL SIDE ELEVATION



SECTIONAL ELEVATION

HALGAN™ HPS3000 PUMP STATION DIMENSIONS				
MODEL	HEIGHT	WIDTH	VOLUME	TANK WEIGHT
HPS3000	2570 mm	1430 mm	3000 L	225 KG

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MEASUREMENTS CAN VARY ± 3%
HALGAN™ HPS3000 DUAL GRINDER PUMP STATION W/GUIDE RAILS DETAIL

DATE	27.08.2018
DESIGNED BY	JB
CHECKED BY	JB
SCALE	1:30
REV.	A4
DRAWING NO.	HPS3000DGRINDER



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ID Number: 10006

IGM MINISTRY OF HEALTH

8 DEC 2007

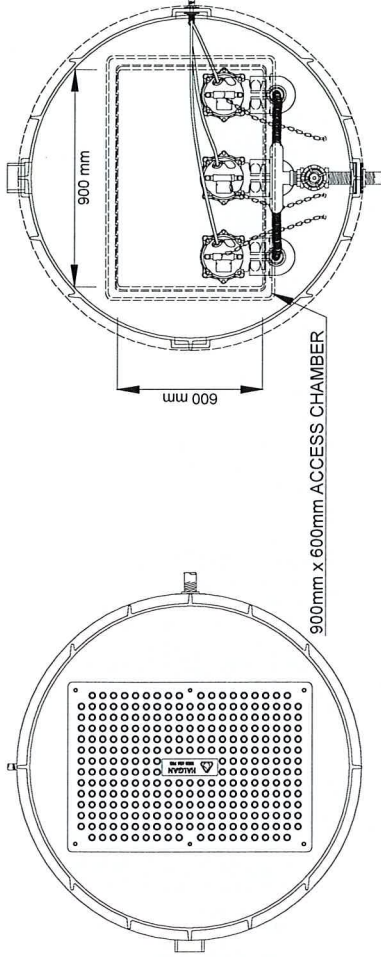
ACCREDITED

HALGAN™ HPS3000 TRIPLEX GRINDER PUMP STATION W/GUIDE RAILS DETAIL

Notes

1. General
 - 1.1. Tank constructed from Polyethylene.
 - 1.2. The Vessels is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles.
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 - 7.5. Outlet pipework size depend on pump model discharge size selected.

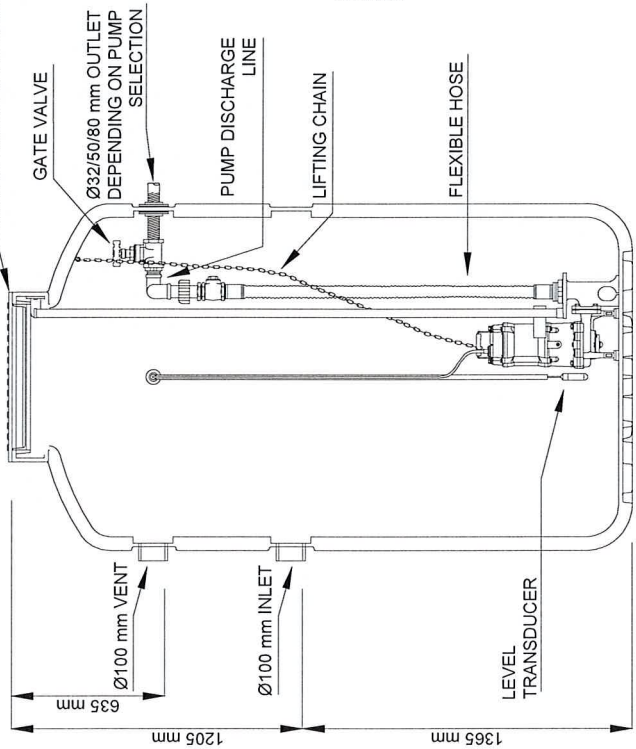
ACREDITED
07 DEC 2021
NSW MINISTRY OF HEALTH



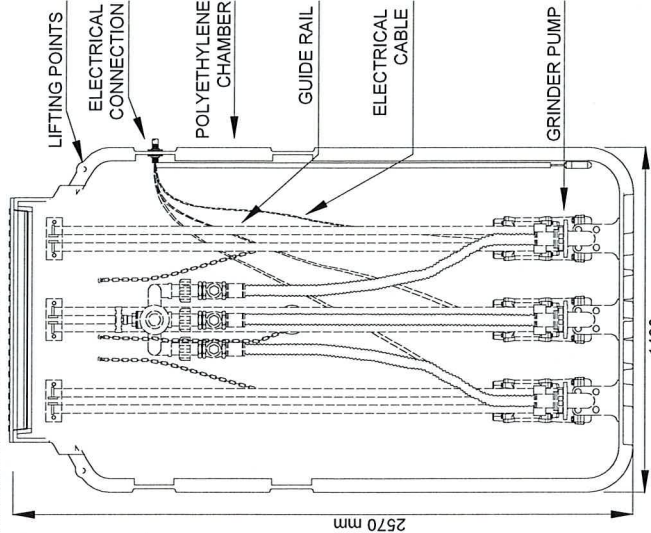
PLAN VIEW

PLAN VIEW - LID REMOVED

INSTALLATIONS WITH B CLASS LIDS ADD 55 mm TO FSL
INSTALLATIONS WITH D CLASS LIDS ADD 90 mm TO FSL



SECTIONAL SIDE ELEVATION



SECTIONAL ELEVATION

HALGAN™ HPS3000 PUMP STATION DIMENSIONS				
MODEL	HEIGHT	WIDTH	VOLUME	TANK WEIGHT
HPS3000	2570 mm	1430 mm	3000 L	225 KG

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MEASUREMENTS CAN VARY ± 3%
HALGAN™ HPS3000 TRIPLEX GRINDER PUMP STATION W/GUIDE RAILS DETAIL

DATE	27.08.2018
DRAWN	IF
CHECKED	JB
SCALE	1:30 A4
DRAWN NO.	HPS3000TRINDER/OR



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ID Number: 10086

REV	DATE	DESCRIPTION	BY	CHKD	APP
A	27.08.2018	DETAIL DESIGN	IF	JB	

ADMINISTRATIVE SERVICES

01 DEC 2008

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