



Pump shafts

The pump shafts are used for water pumps that are below the drain level and cannot be gravity-drained.

There are various models available depending on the specific needs.

Raised manholes

Clean water pump shafts

1 pump

2 alternating pumps

Foul water pump shafts

1 pump

2 alternating pumps

Pump shafts with no accessories

Raised manholes

Raised manholes are normally used to drain the water from single-dwelling home treatment plants, i.e. a very simple pumping system consisting of an underground tank of the required capacity, incorporating a pump with an automatic level switch.



Standard models

| Volume (L) | Pipe Ø (mm.) | Ø (mm.) | Height (mm.) | Manhole Ø (mm.) | Reference |
|------------|--------------|---------|--------------|-----------------|-------------|
| 300 | 110 | 740 | 1.000 | 454 | AE-300-110 |
| 300 | 125 | 740 | 1.000 | 454 | AE-300-125 |
| 500 | 125 | 940 | 1.000 | 454 | AE-500-125 |
| 500 | 160 | 940 | 1.000 | 454 | AE-500-160 |
| 500 | 200 | 940 | 1.000 | 454 | AE-500-200 |
| 1.000 | 200 | 1.120 | 1.400 | 454 | AE-1000-200 |
| 1.000 | 250 | 1.120 | 1.400 | 454 | AE-1000-250 |

[Consult us for other volumes and measurements.](#)

Alternative diameters of pipes, pump models, etc. are available



Characteristics of the pump in the raised manholes

| Ref. | Power | Voltage | μ F | Discharge \varnothing | Passage of solids |
|------|--------|---------|---------|-------------------------|-------------------|
| V600 | 0,8 KW | 230v | 10 | 1 ¼" | 24mm |

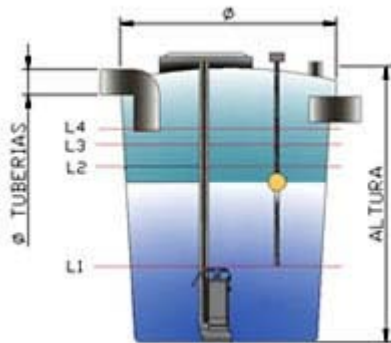
| l/min | 10 | 25 | 50 | 75 | 100 | 125 | 150 | 190 | 240 |
|---------------|-----|-----|----|-----|-----|-----|-----|------|------|
| m3/h | 0,6 | 1,5 | 3 | 4,5 | 6 | 7,8 | 9 | 11,4 | 14,4 |
| m.w.c. | 7,7 | 7,5 | 7 | 6,3 | 5,6 | 5 | 4,3 | 3 | 1 |

Check the pump's operating curve against the working point required in your application. The pumps can be changed as required.

Clean water pump shafts

These units are use to pump clean water; we have 2 models, with 1 or 2 pumps.

Clean water pump shaft **1 pump**



Characteristics

High-strength GRP tank.

Inlet and outlet pipes in PVC 110,125,160,200, etc.

Ventilation pipes.

1 unit. Clean water pump.

1 PVC check valve of same diameter as the pump boost diameter.

1 magnetic rod level sensor with 2 contacts.

Pump start/stop circuit board with acoustic/light alarm signalling.

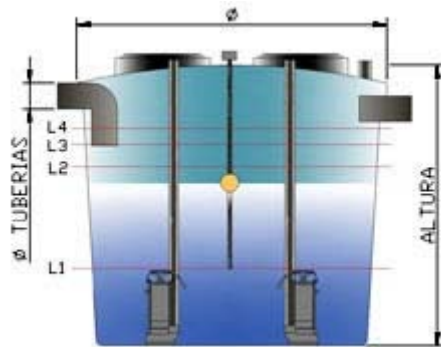
Stainless steel chain for lowering the pump into the tank.

Flexible pipes for putting the pumps in place without needing to enter the tank.

Manhole Ø 620 mm.



Clean water pump shaft **2 pumps**



Characteristics

High-strength GRP tank.

Inlet and outlet pipes in PVC 110,125,160,200, etc.

Ventilation pipes.

2 unit. Clean water pump.

2 PVC check valves of same diameter as the pump boost diameter.

1 magnetic rod level sensor with 4 contacts.

Stainless steel chains for lowering pumps into tank.

Flexible pipes for putting the pumps in place without needing to enter the tank.

Manhole Ø620mm.

Circuit board for controlling pumps, suitable for 4 levels.

In the first two levels each of the pumps is started/stopped alternately, i.e. each time a pump is started up it will be different to the one activated the previous time. At the third level, the 2 pumps are started at the same time and if the water reaches Level 4, an acoustic/light alarm is activated.

Characteristics of clean water pumps

| Pump model | Power | Voltage | µF | Discharge Ø | Openings for solids |
|------------|-------|---------|----|-------------|---------------------|
| D100 | 0,7KW | 230V | 12 | 1 ¼" | 7mm |
| V1250 | 1,1KW | 230V | 16 | 1 ¼" | 8mm |



| Pump model D100 | | | | | | | |
|-----------------|-----|-----|-----|-----|-----|-----|-----|
| l/min | 25 | 50 | 100 | 150 | 200 | 250 | 300 |
| m3/h | 1,5 | 3 | 6 | 9 | 12 | 15 | 18 |
| m.w.c. | 9,2 | 9,1 | 8,7 | 7,8 | 6 | 4 | 1,8 |

| Pump model V1250 | | | | | | | | |
|------------------|------|------|------|------|------|------|------|------|
| l/min | 25 | 50 | 100 | 125 | 150 | 175 | 225 | 275 |
| m3/h | 1,5 | 3 | 6 | 7,5 | 9 | 10,5 | 13,5 | 16,5 |
| m.w.c. | 13,2 | 12,8 | 11,8 | 11,2 | 10,4 | 9,4 | 6,5 | 2,5 |

Check the pump's operating curve against the working point required in your application. The pumps can be changed as required.

Standard clean water models

| Volume (L.) | Ø (mm.) | Height (mm.) | Pipe Ø (mm.) | Mod. D100 - 1 pump | Mod. D100 - 2 pumps | Mod. V1250 - 1 pump | Mod. V1250 - 2 pumps |
|-------------|---------|--------------|--------------|--------------------|---------------------|---------------------|----------------------|
| 500 | 940 | 1.050 | 125 | PBL-500-D100 | - | PBL-500-V1250 | - |
| 1.000 | 1.120 | 1.450 | 125 | PBL-1000-D100 | PBL2-1000-D100 | PBL-1000-V1250 | PBL2-1000-V1250 |
| 2.000 | 1.490 | 1.500 | 125 | PBL-2000-D100 | PBL2-2000-D100 | PBL-2000-V1250 | PBL2-2000-V1250 |
| 3.000 | 1.725 | 1.600 | 125 | PBL-3000-D100 | PBL2-3000-D100 | PBL-3000-V1250 | PBL2-3000-V1250 |

Consult us for other volumes and measurements.

Alternative diameters of pipes, pump models, etc. are available



Clean water sensors

IMN TB PVC

Magnetic level switch

Connexion to process: PVC connection (1"1/4, 1"1/2)

Electrical connection: Junction box

NO contact: 120W/VA - 3A / 250VACDC

NO/NC contact: 60W/VA - 1A / 230VACDC

Pipe: PVC Ø 16 mm

Float: PP Ø 38 x 61 mm

Density: 0.65 g/cm³

Temperature: -10..+60°C

Pressure: 3 kg/cm²

Protection: IP67



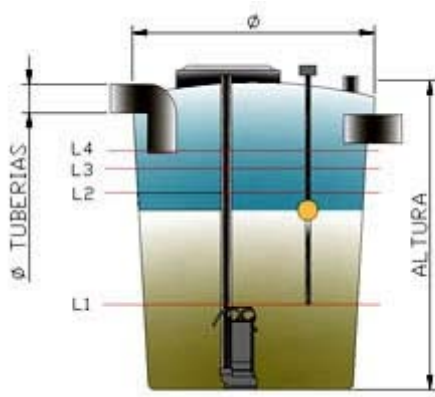


Foul water pump shafts

These units are used to pump waste water, sewage, grey water and water that contains solids.

There are 2 models, with 1 or 2 pumps.

Foul water pump shaft 1 pump



Characteristics

High-strength GRP tank

Inlet and outlet pipes in PVC 110, 125, 160, 200, etc.

Ventilation pipes.

1 unit. Sewage pump.

1 PVC check valve of same diameter as the pump boost diameter.

1 magnetic rod level sensor with 2 contacts.

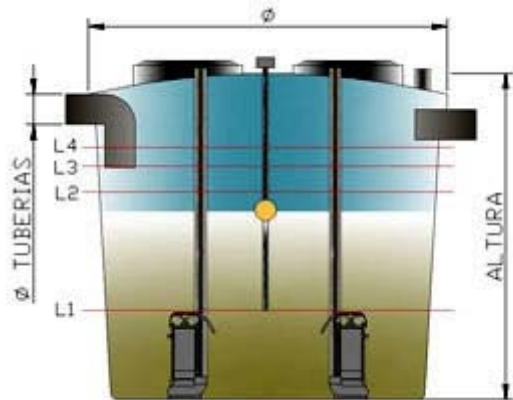
Pump start/stop circuit board with acoustic/light alarm signalling.

Stainless steel chain for lowering the pump into the tank.

Flexible pipes for putting the pumps in place without needing to enter the tank.

Manhole Ø 620 mm.

Foul water pump shaft **2 pumps**



Characteristics

High-strength GRP tank.

Inlet and outlet pipes in PVC 110, 125, 160, 200, etc.

Ventilation pipes.

2 unit. Sewage pump.

2 PVC check valves of same diameter as the pump boost diameter.

1 magnetic rod level sensor with 4 contacts.

Stainless steel chains for lowering pumps into tank.

Flexible pipes for putting the pumps in place without needing to enter the tank.

Manhole ϕ 620mm.

Circuit board for controlling pumps, suitable for 4 levels.

In the first two levels each of the pumps is started/stopped alternately, i.e. each time a pump is started up it will be different to the one activated the previous time. At the third level, the 2 pumps are started at the same time and if the water reaches Level 4, an acoustic/light alarm is activated.



Characteristics of foul water pumps

| Pump model | Power | Voltage | µF | Discharge Ø | Openings for solids |
|------------|--------|---------|----|-------------|---------------------|
| DX100 | 0,75KW | 230V | 12 | 1 ¼" | 32mm |
| DX200 | 1,1KW | 230V | 16 | 2" | 45mm |
| DX202 | 1,6KW | 230V | 16 | 2" | 45mm |

Pump model DX100

| | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|
| l/min | 25 | 50 | 100 | 150 | 200 | 250 |
| m3/h | 1,5 | 3 | 6 | 9 | 12 | 15 |
| m.w.c. | 7 | 6,7 | 5,9 | 5 | 3,5 | 1,8 |

Pump model DX200

| | | | | | |
|---------------|------|-----|-----|-----|-----|
| l/min | 50 | 100 | 250 | 300 | 400 |
| m3/h | 3 | 6 | 15 | 18 | 24 |
| m.w.c. | 10,8 | 9,8 | 6 | 4,6 | 2 |

Pump model DX202

| | | | | | | | |
|---------------|------|------|-----|-----|-----|-----|-----|
| l/min | 50 | 100 | 250 | 300 | 400 | 450 | 500 |
| m3/h | 3 | 6 | 15 | 18 | 24 | 27 | 30 |
| m.w.c. | 14,5 | 13,3 | 9,7 | 8,2 | 5,3 | 4 | 2,5 |

Check the pump's operating curve against the working point required in your application. The pumps can be changed as required.



Standard foul water models

| Volume (L.) | Ø (mm.) | Height (mm.) | Pipe Ø (mm.) | Mod. DX100 - 1 pump | Mod. DX100 - 2 pumps | Mod. DX200 - 1 pump | Mod. DX200 - 2 pumps |
|-------------|---------|--------------|--------------|---------------------|----------------------|---------------------|----------------------|
| 500 | 940 | 1.050 | 125 | PBS-500-DX100 | - | PBS-500-DX200 | - |
| 1.000 | 1.120 | 1.450 | 125 | PBS-1000-DX100 | PBS2-1000-DX100 | PBS-1000-DX200 | PBS2-1000-DX200 |
| 2.000 | 1.490 | 1.500 | 125 | PBS-2000-DX100 | PBS2-2000-DX100 | PBS-2000-DX200 | PBS2-2000-DX200 |
| 3.000 | 1.725 | 1.600 | 125 | PBS-3000-DX100 | PBS2-3000-DX100 | PBS-3000-DX200 | PBS2-3000-DX200 |

| Volume (L.) | Ø (mm.) | Height (mm.) | Pipe Ø (mm.) | Mod. DX202 - 1 pump | Mod. DX202 - 2 pumps |
|-------------|---------|--------------|--------------|---------------------|----------------------|
| 500 | 940 | 1.050 | 125 | PBS-500-DX202 | - |
| 1.000 | 1.120 | 1.450 | 125 | PBS-1000-DX202 | PBS2-1000-DX202 |
| 2.000 | 1.490 | 1.500 | 125 | PBS-2000-DX202 | PBS2-2000-DX202 |
| 3.000 | 1.725 | 1.600 | 125 | PBS-3000-DX202 | PBS2-3000-DX202 |

Consult us for other volumes and measurements.

Alternative diameters of pipes, pump models, etc. are available



Foul water sensors

IMN TB PVC/INOX

Magnetic level switch

Connection to process: PVC connection (1"1/4, 1"1/2)

Electrical connection: Junction box

NO contact: 120W/VA - 3A / 250VACDC

NO/NC contact: 60W/VA - 1A / 230VACDC

Pipe: INOX AISI316 Ø 16 mm

Float: INOX AISI316 Ø 90 mm

Density: 0.70 g/cm³

Ambient temperature: -40..+125°C

Pressure: 3 kg/cm²

Protection: IP67

