

SYKES PUMPS

THE UK'S LEADING PUMP HIRE SPECIALIST



HIRE SALES SERVICE INSTALL

0800 211 611

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WELCOME TO SYKES PUMPS

The past, present and future of pumping in the UK.

Established for over 160 years, Sykes is the UK's largest specialist hire company. Solutions focused, our industry experienced teams provide 24/7 planned and preventative pumping and specialist fluid moving, via a network of nationwide locations. Our unique structure enables us to reach any UK destination within four hours and our commitment to delivering the finest equipment, service and expertise is unrivalled within the industry.

Businesses rely on us whether safeguarding against equipment failure, which can have a detrimental impact on people and service, or providing the right conditions to ensure maximum productivity.

From straight forward hire services to full solution provision including design, planning, project management, installation and running of complex temporary and permanent solutions. We can provide an extensive range of diesel, electric, submersible, hydraulic and air pumps to withstand the toughest applications and the most demanding environments.

With an impressive and varied client portfolio, our ability to provide a competitive and engineered solution for every pumping requirement, coupled with bespoke, flexible contract terms to suit, provides ultimate peace of mind and makes us the preferred choice when it comes to business critical equipment hire.

We look forward to working with you.

Regards,

Carl Webb

Carl Webb
Managing Director - Sykes Pumps



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AN UNBEATABLE RANGE

We provide pumps for virtually every conceivable need and application. This guide should provide all the information you need to select the right unit for you, including detailed technical data.

- General Purpose
- Electric
- Super Silenced
- High Performance
- Bentonite
- Silenced

- Submersible Hydraulic
- Submersible Drainage
- Submersible Sludge
- Submersible Wastewater
- Air Pumps

For Groundwater Control Services, our in-house expertise includes specialist de-watering advice and feasibility studies, proven people and equipment, installation and removal, and backup from our depots UK-wide.

We provide a similar end-to-end approach for offshore projects including float-outs.

You also have access to an unbeatable range of accessories that includes high performance hoses, pipes and tubing, Bauer, flanged and NP16 fittings, plus cost-effective fuel supplies nationwide.

Sykes Pumps are proud to invest in the latest technologies and strive to improve our ever growing range of pumps and accessories. We encourage you to visit our website sykes-pumps.com as we regularly add new products and update our technical specifications.



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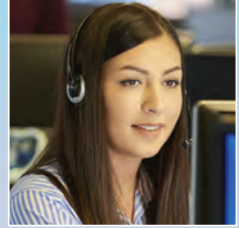
THE SYKES CHARTER

Our mission is to be a world-class pump hire and pumping services company, helping our customers to address the real-life challenges they face - whether planned or emergency - in the fastest, most expert, professional and cost effective ways. We want to help our customers pump more and pay less.

For our extensive range of standard pumps, our commitments are:

1. We will respond to any breakdown within 4 hours of being notified.
2. We will have pumps available 24 hours a day 7 days a week.
3. In the unlikely event that we are unable to repair a pump within 2 hours of attending a breakdown then that pump will be changed over within 4 hours.

4. Any standard pump ordered before 12.00 midday on a normal working day will be delivered the same day (if required).
5. Free of charge site surveys will be carried out within 24 hours of a request being received.
6. All pumps on hire will be inspected at 14 day intervals and serviced when necessary.
7. Any pump that is off hire will be collected within 48 hours of the off hire notice being received.
8. Any account queries will be resolved within 14 working days.
9. All pump telephone enquiries will be answered within 5 rings of the telephone.



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GENERAL PURPOSE

Sykes' general purpose GP Range has long been considered the industry standard for Contractors, Water Companies and Utilities. The Sykes Univac range has evolved over many years and is specifically designed for arduous duties and applications.

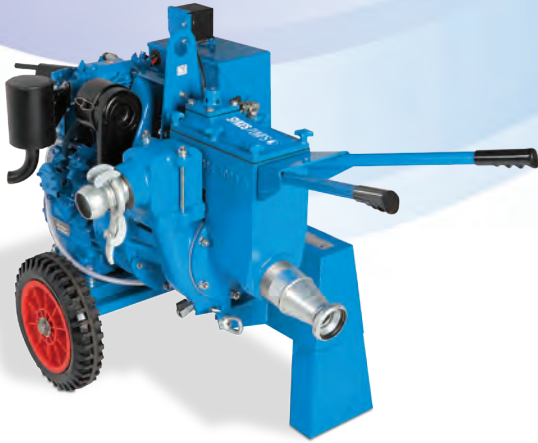
Maximum performance and reliability is achieved by incorporating tried and tested components, resulting in the GP Range becoming the market leader in 50mm - 300mm heavy duty pumps.

Used wherever there is a need for automatic self-priming, the GP Range incorporates the unique Sykes Univac vacuum system, enabling the pump to prime and re-prime automatically from dry and operate with the suction intake intermittently exposed to the atmosphere.

GP pumps are available with alternative prime movers and mountings, together with a wide choice of accessories and fittings for all kinds of applications. Robust 4 wheeled site chassis ensure pumps can be moved and positioned easily.



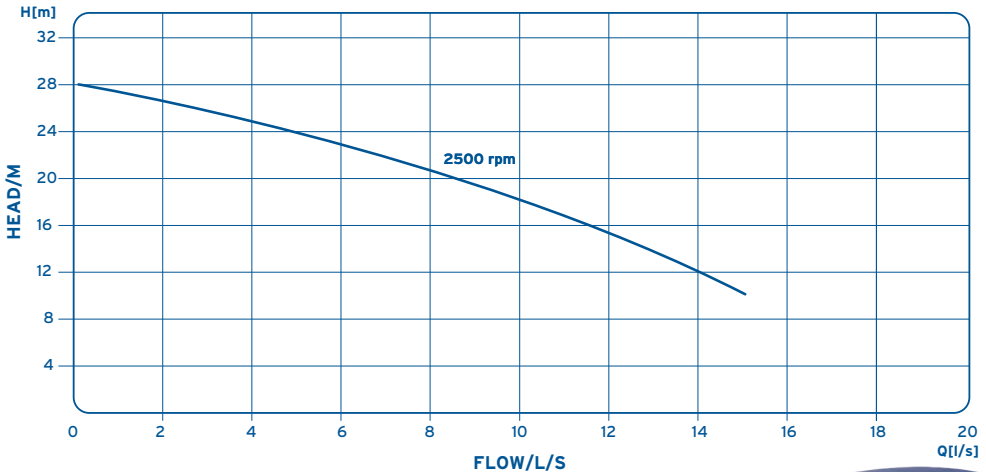
GP50



PUMP PERFORMANCE

- Performance:** Max head: 28 m
Max flow: 15 l/s
Max solid: 28 mm
- Weight:** 200 kg with fuel
188 kg without fuel
- Dimensions:** (L x W x H) mm
1216 x 750 x 860
- Noise level:** @ 1m = 90 - 97 dBA
@ 7m = 73 - 80 dBA
- Fuel tank capacity:** 14 litres. Max 24 hours
with cleaning and flushing facilities
- Pipe connections:** Suction: 3" BSP Female thread
Discharge: 2" BSP Female thread
Bauer couplings option 2"
- Fuel consumption:** Full load @ 2500 rpm:
1.4 litres/hour
- Energy Efficient duty point:** **Fuel Consumption @ 1500 rpm:**
0.58 litres/hour

Smart pumping
Best fuel economy 0.58 litres/hour



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**GENERAL
PURPOSE**

GP50

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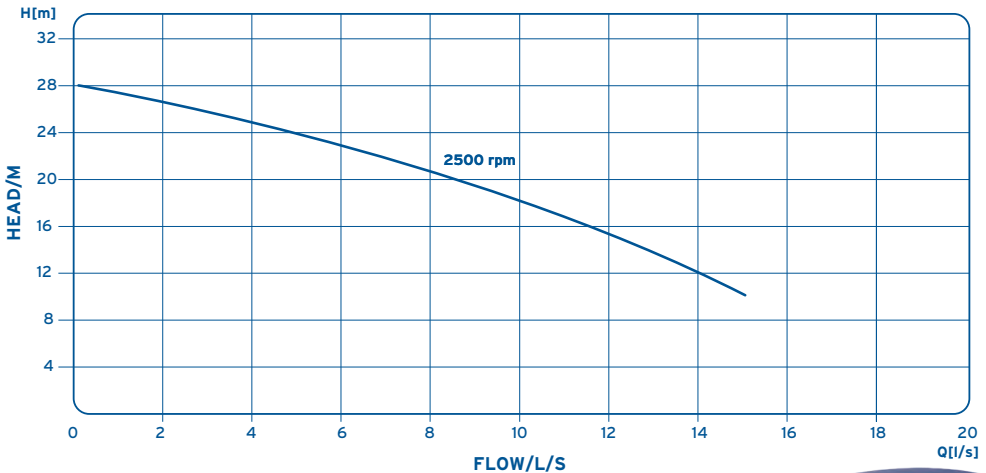
MINIVAC ECO

PUMP PERFORMANCE

| | |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| Performance: | Max head: 28 m Max flow: 15 l/s Max solid: 28 mm |
| Weight: | 180 kg with fuel 168 kg without fuel |
| Dimensions: (L x W x H) mm | 1350 x 600 x 840 |
| Noise level: | @ 7m = 70 - 77 dBA |
| Fuel tank capacity: | 5 litres. Max 8 hours separate 24 hour fuel tank available |
| Pipe connections: | Suction: 3" BSP Female thread Discharge: 2" BSP Female thread Bauer couplings option 2" or 3" |
| Fuel consumption: | Full load @ 2000 rpm: 0.71 litres/hour |
| Energy Efficient duty point: | Fuel Consumption @ 2000 rpm: 0.58 litres/hour |



Smart pumping
Best fuel economy 0.58 litres/hour



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**GENERAL
PURPOSE**

MINIVAC ECO

14

GP80 ECO

PUMP PERFORMANCE

Performance: Max head: 24 m
Max flow: 36 l/s
Max solid: 40 mm

Weight: 559 kg with fuel
525 kg without fuel

Dimensions: (L x W x H) mm
2310 x 1470 x 1450

Noise level: @ 1m = 81 dBA
@ 7m = 72 dBA

Fuel tank capacity: 35 litres

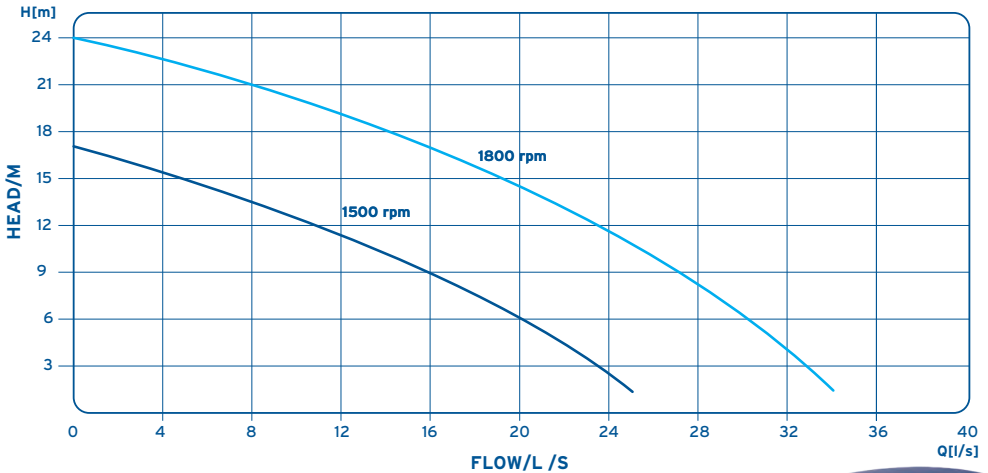
Pipe connections: Suction: 4" table D
Discharge: 4" table D
Bauer couplings option: 3"

Fuel consumption: Full load @ 1800 rpm:
199 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1500 rpm:**
1.4 litres/hour



Smart pumping
Best fuel economy 1.4 litres/hour



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**GENERAL
PURPOSE**

GP80 ECO

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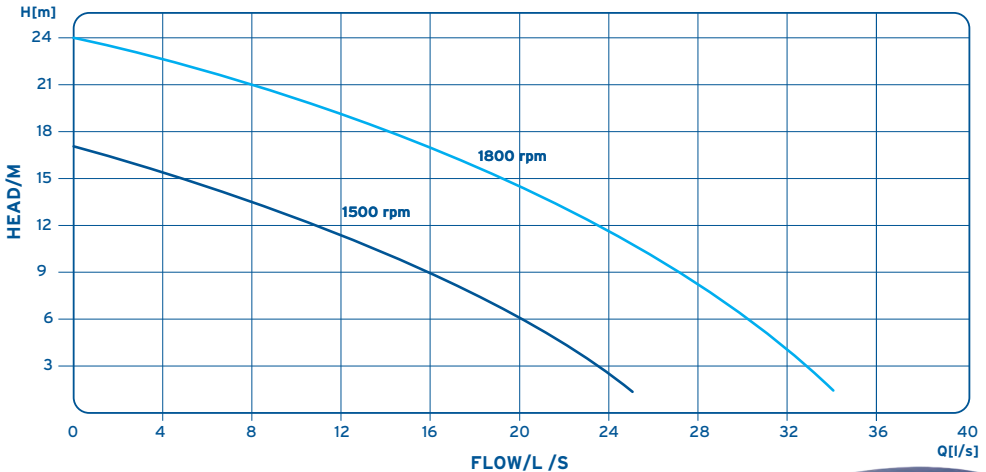
GP80



PUMP PERFORMANCE

- Performance:** Max head: 24 m
Max flow: 34 l/s
Max solid: 40 mm
- Weight:** 455 kg with fuel
425 kg without fuel
- Dimensions:** (L x W x H) mm
1700 x 1190 x 1093
- Noise level:** @ 1m = 95-98 dBA
@ 7m = 78 - 82 dBA
- Fuel tank capacity:** 35 litres. Max 24 hours with cleaning and flushing facilities
- Pipe connections:** Suction: 4" table D
Discharge: 4" table D
Bauer couplings option: 3"
- Fuel consumption:** Full load @ 1800 rpm: 1.9 litres/hour
- Energy Efficient duty point:** **Fuel Consumption @ 1500 rpm: 0.61 litres/hour**

Smart pumping
Best fuel economy 0.61 litres/hour



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**GENERAL
PURPOSE**

GP80

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PUMP PERFORMANCE

Performance: Max head: 24 m
 Max flow: 36 l/s
 Max solid: 40 mm

Weight: 626 kg with fuel
 590 kg without fuel

Dimensions: (L x W x H) mm
 2775 x 1650 x 1500

Noise level: @ 1m = 81 dBA
 @ 7m = 72 dBA

Fuel tank capacity: 35 litres

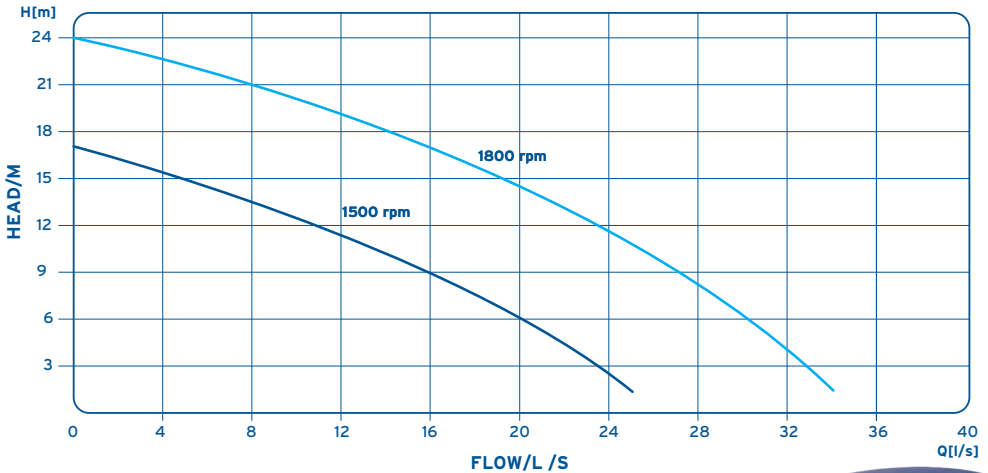
Pipe connections: Suction: 4" table D
 Discharge: 4" table D
 Bauer couplings option: 3" or 4"

Fuel consumption: Full load @ 1800 rpm:
 1.99 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1500 rpm:**
 1.4 litres/hour

Road towable pump

Smart pumping
 Best fuel economy 1.4 litres/hour



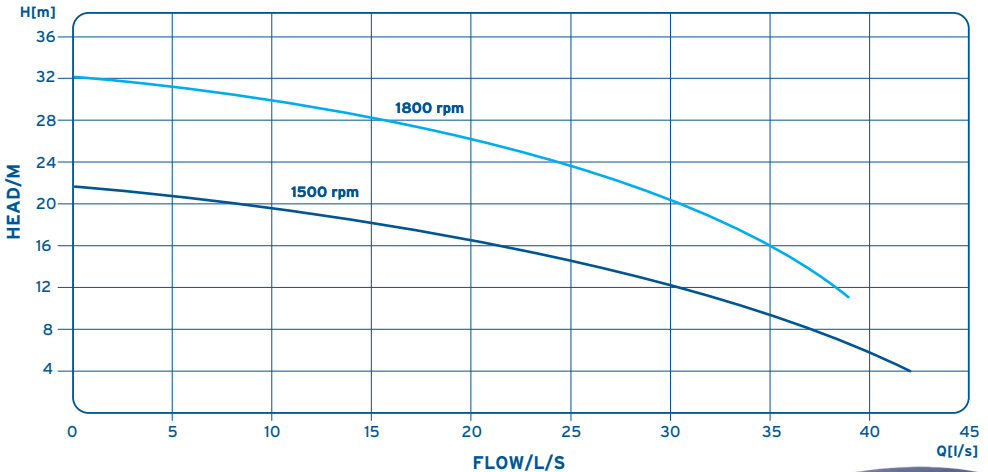
GP100M

PUMP PERFORMANCE

- Performance:** Max head: 31 m
Max flow: 45 l/s
Max solid: 44 mm
- Weight:** 1011 kg with fuel
907 kg without fuel
- Dimensions:** 1940 x 1450 x 1500
(L x W x H) mm
Typical length including tow bar 2620
- Noise level:** @ 1m = 94 - 98 dBA
@ 7m = 77 - 82 dBA
- Fuel tank capacity:** 69 - 122 litres. Max 24 hours
with cleaning and flushing facilities
- Pipe connections:** Suction: 4" table D
Discharge: 4" table D
Bauer couplings option: 4"
- Fuel consumption:** Full load @ 1800 rpm:
3.7 litres/hour
- Energy Efficient duty point:** **Fuel Consumption @ 1500 rpm:**
2.29 litres/hour



Smart pumping
Best fuel economy 2.29 litres/hour



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**GENERAL
PURPOSE**

GP100M

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GP100M Hatz

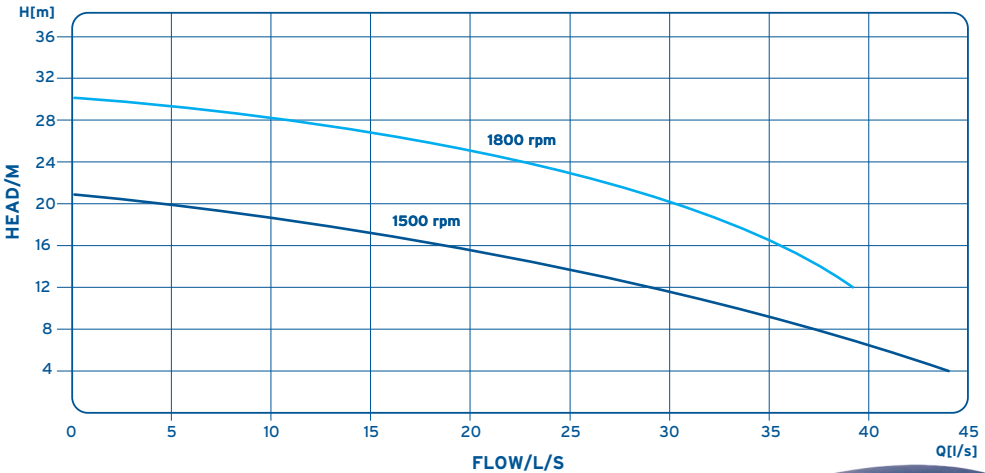


Smart pumping
Best fuel economy 2.26 litres/hour



PUMP PERFORMANCE

| | |
|-----------------------------------------|----------------------------------------------------------------------------|
| Performance: | Max head: 31 m Max flow: 45 l/s Max solid: 44 mm |
| Weight: | 1103 kg with fuel 998 kg without fuel |
| Dimensions: (L x W x H) mm | 1940 x 1450 x 1500 Typical length including tow bar 2620 |
| Noise level: | @ 1m = 90 - 94 dBA @ 7m = 73 - 77 dBA |
| Fuel tank capacity: | 69 - 122 litres. Max 24 hour with cleaning and flushing facilities |
| Pipe connections: | Suction: 4" table D Discharge: 4" table D Bauer couplings option: 4" |
| Fuel consumption: | Full load @ 1800 rpm: 4.5 litres/hour |
| Energy Efficient duty point: | Fuel Consumption @ 1500 rpm: 2.26 litres/hour |



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**GENERAL
PURPOSE**

GP100M Hatz

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GP150M

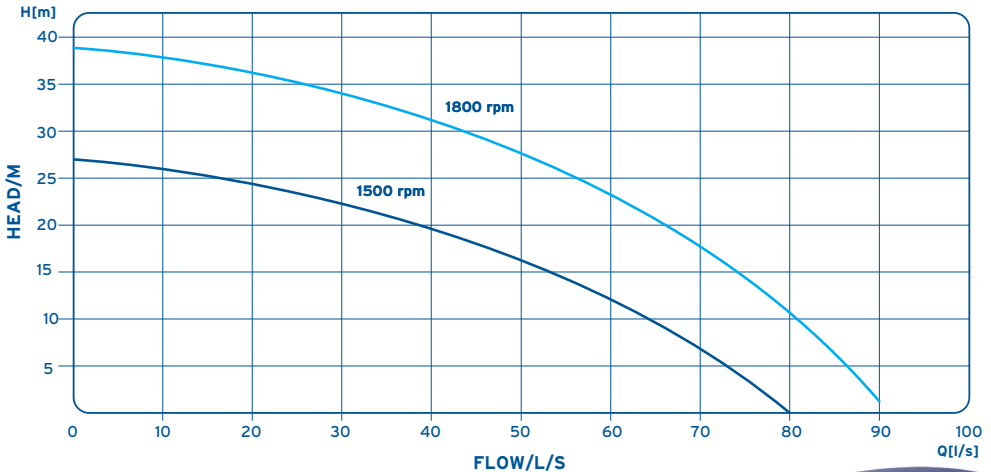


Smart pumping
Best fuel economy 4.08 litres/hour



PUMP PERFORMANCE

- Performance:** Max head: 38 m
Max flow: 90 l/s
Max solid: 52 mm
- Weight:** 1238 kg with fuel
1133 kg without fuel
- Dimensions:** 2100 x 1500 x 1635
(L x W x H) mm
Typical length including tow bar 2780
- Noise level:** @ 1m = 94 - 98 dBA
@ 7m = 77 - 82 dBA
- Fuel tank capacity:** 122 litres. Max 24 hours
with cleaning and flushing facilities
- Pipe connections:** Suction: 6" table D
Discharge: 6" table D
Bauer couplings option: 6"
- Fuel consumption:** Full load @ 1800 rpm:
6.27 litres/hour
- Energy Efficient duty point:** **Fuel Consumption @ 1500 rpm:**
4.08 litres/hour



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**GENERAL
PURPOSE**

GP150M

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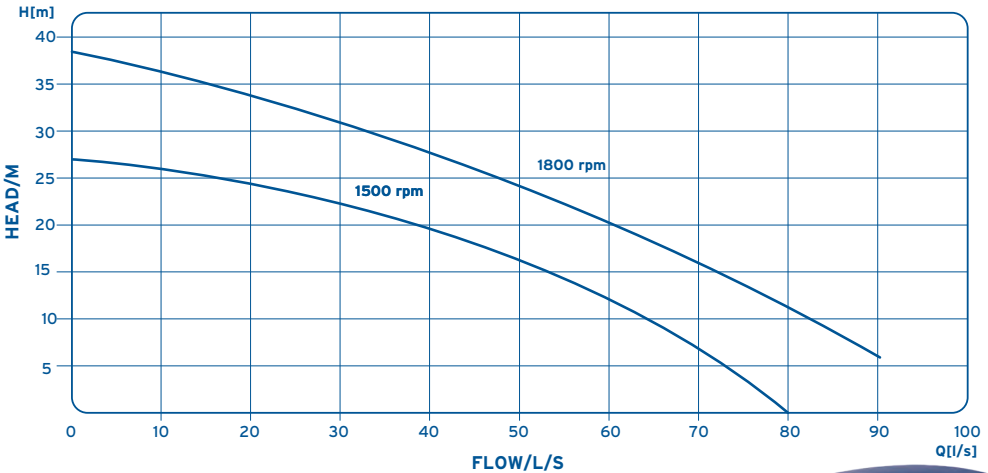
GP150M Hatz



PUMP PERFORMANCE

- Performance:** Max head: 38 m
Max flow: 90 l/s
Max solid: 52 mm
- Weight:** 1430 kg with fuel
1325 kg without fuel
- Dimensions:** 2100 x 1500 x 1635
(L x W x H) mm
Typical length including tow bar 2780
- Noise level:** @ 1m = 90 - 94 dBA
@ 7m = 73 - 77 dBA
- Fuel tank capacity:** 122 litres. Max 24 hours
with cleaning and flushing facilities
- Pipe connections:** Suction: 6" table D
Discharge: 6" table D
Bauer couplings option: 6"
- Fuel consumption:** Full load @ 1800 rpm:
6 litres/hour
- Energy Efficient duty point:** **Fuel Consumption @ 1500 rpm:**
3.98 litres/hour

Smart pumping
Best fuel economy 3.98 litres/hour



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**GENERAL
PURPOSE**

GP150M Hatz

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SURFACE MOUNTED ELECTRIC

Sykes' general purpose GP Range has long been considered the ideal choice for contractors, water companies and utilities. The Sykes Univac range has evolved over many years and is specifically designed to excel in a wide range of duties and applications for all market sectors.

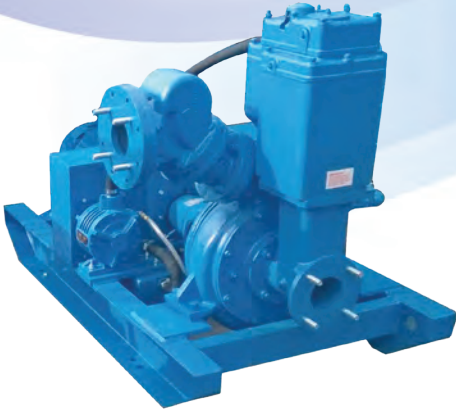
Maximum performance and reliability are achieved through incorporating tried and tested quality components, which has resulted in these pumps becoming the industry standard in many countries around the world. In addition to the diesel driven units, there is now a growing demand for electric driven pumps. These are quiet in operation and can have their running speed controlled to save on energy costs.

Sykes has added new 100mm and 150mm electric motor GP versions to the extensive UK hire fleet. These come with a wide choice of accessories and fittings for all kind of applications. The pumps come on a robust skid-base chassis with lifting points and can be easily moved and positioned into place. Used wherever there is a need for automatic self-priming, these pumps feature the unique Univac vacuum system, enabling the pump to prime and re-prime automatically from dry.

For solids handling applications and bigger flows, Sykes offers the UV301M pump. This compact 300mm electric pumpset features automatic self-priming and is popular with water companies, contractors and utilities. These pumps come with a separate non-return valve and are commonly used with a variable speed drive panel.

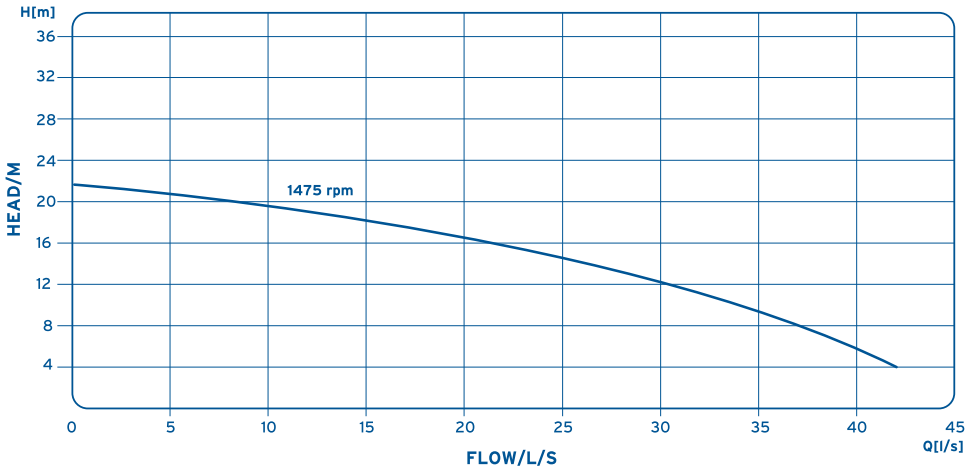
Additionally please see our electric bentonite pump the B150E on page 86.



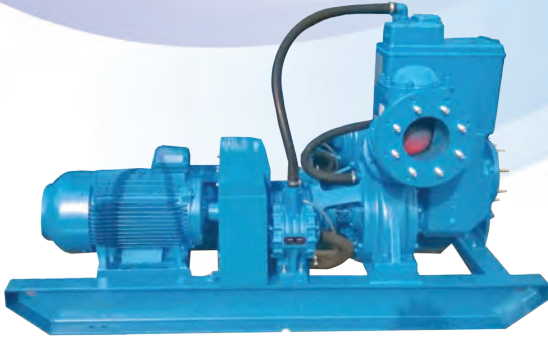


PUMP PERFORMANCE

| | |
|---------------------------------------|---------------------------------------------------------------------------|
| Performance: | Max head: 21 m Max flow: 42 l/s Max solid: 44 mm |
| Weight: | 720 kg |
| Dimensions: (L x W x H) mm | 1546 x 850 x 1135 |
| Noise level: | @ 7m = 68 dBA |
| Pipe connections: | Suction: 4" table D Discharge: 4" table D Bauer couplings option 4" |
| Motor: | 15kW IE3 motor 415v 3ph 50 Hz |

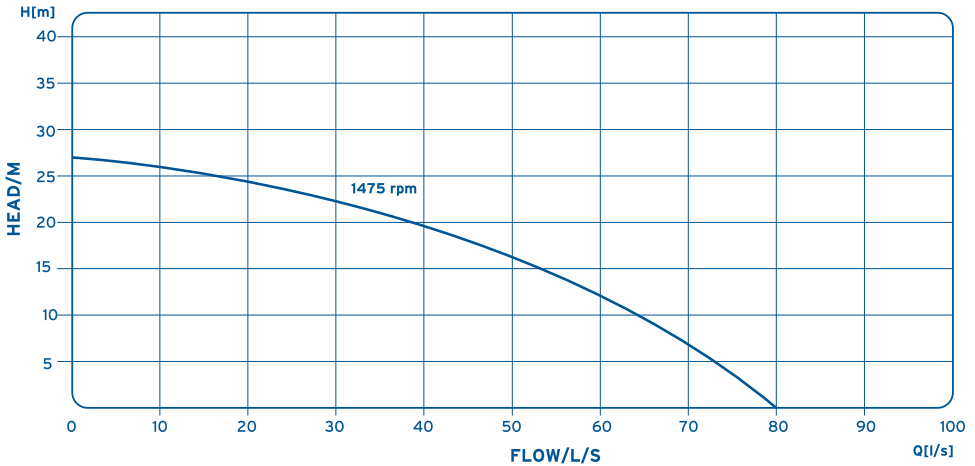


GP150E



PUMP PERFORMANCE

| | |
|---------------------------------------|---------------------------------------------------------------------------|
| Performance: | Max head: 27 m Max flow: 80 l/s Max solid: 52 mm |
| Weight: | 843 kg |
| Dimensions: (L x W x H) mm | 2096 x 850 x 1285 |
| Noise level: | @ 7m = 68 dBA |
| Pipe connections: | Suction: 6" table D Discharge: 6" table D Bauer couplings option 6" |
| Motor: | 22kW IE3 motor 415v 3ph 50 Hz |



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ELECTRIC

GP150E

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UV301M

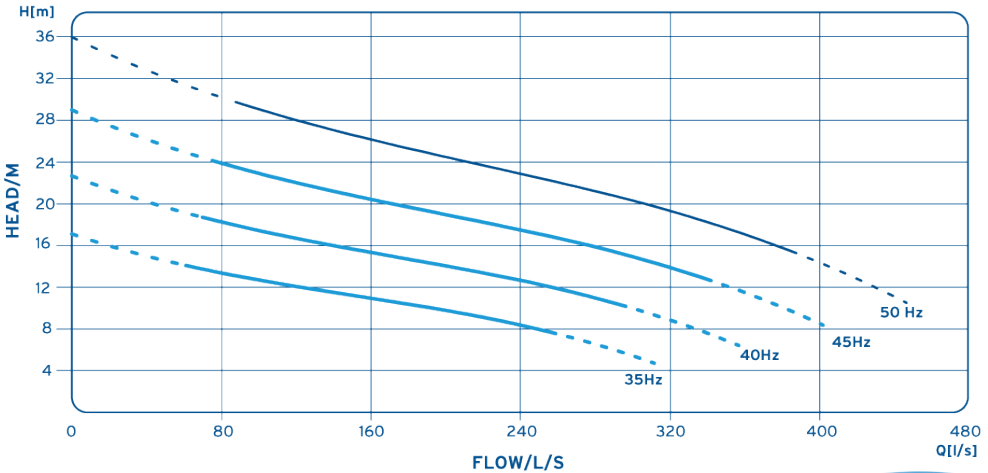


PUMP PERFORMANCE

| | | |
|---------------------------------|-----------|-----------|
| Model: | UV301M | 60CFM VP |
| Motor type (V): | 415 | 415 |
| | (3-Phase) | (3-Phase) |
| | 50Hz | 50Hz |
| Motor rating (Kw): | 75 | 2.2 |
| Running current: (Amps) | 140 | 4.58 |
| Running speed: | 980 rpm | 1450 rpm |
| Discharge port (mm): | 300 | |
| Suction inlet port (mm): | 300 | |
| Maximum solids (mm): | 127 x 110 | |
| EX Rated: | Yes | |
| Cooling jacket: | Yes | |

| Model: | Dimensions mm: (L x W x H) | Weight: |
|---------------|---------------------------------------|----------------|
| UV301M | 2410 x 1100 x 1800 | 1842 kg |
| C/W fittings | 2920 x 1620 x 1800 | 1920 kg |
| NRV | 920 x 920 x 980 | 386 kg |
| C/W fittings | 1768 x 920 x 980 | 464 kg |
| 75kW VSD | 500 x 100 x 2000 | 300 kg |

Please see the pump accessory section



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ELECTRIC

UV301M

36

SUPER SILENCED

Our superb range of super silenced pumps raises the bar in low-noise pumping without compromising on power, reliability and flexibility. They set the benchmark against which other pumps are measured, with noise levels down to an average 58 dBA at 7m.

Telemetry can be added for remote pump operation and monitoring. This innovative remote management system can reduce costs associated with regular visits from engineers, as any problems are picked up immediately, often before users are aware, and remedial action taken.

Technically excellent, these portable super silenced pumps have been developed with a clear focus on environmental issues such as sound attenuation, the eradication of fuel spillage, improved fuel economy and reduced emissions from using highly efficient engines.

The popularity of these pumps means we stock the largest range of 100mm - 300mm super silenced pumps available for hire in the UK. These pumps are available 24/7 from our National Depot Network, so can be delivered quickly to where they are required.

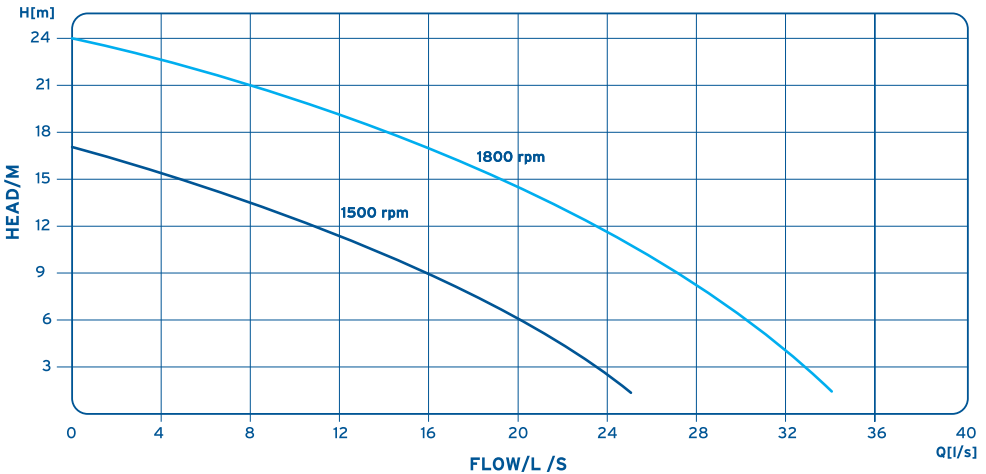
SUPER WISPASET 80 ECO



PUMP PERFORMANCE

| | |
|-----------------------------------------|--------------------------------------------------------|
| Performance: | Max head: 24 m |
| | Max flow: 36 l/s |
| | Max solid: 40 mm |
| Weight: | 890 kg with fuel |
| | 856 kg without fuel |
| Dimensions: (L x W x H) mm | 1800 x 1100 x 1400 |
| Noise level: | @ 1m = 72 dBA |
| | @ 7m = 64 dBA |
| Fuel tank capacity: | 35 litres. Max 24 hours |
| Pipe connections: | Suction: 4" Table D |
| | Discharge: 4" Table D |
| | Bauer couplings option: 3" or 4" |
| Fuel consumption: | Full load @ 1800 rpm: 199 litres/hour |
| Energy Efficient duty point: | Fuel Consumption @ 1500 rpm: 1.4 litres/hour |

Smart pumping
Best fuel economy 1.4 litres/hour



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**SUPER
SILENCED**

SUPER
WISPASET 80 ECO

40

SUPER WISPASET 100

PUMP PERFORMANCE



Performance:

Max head: 31 m
Max flow: 45 l/s
Max solid: 44 mm

Weight:

1685 kg with fuel
1500 kg without fuel

Dimensions:

(L x W x H) mm

2137 x 1250 x 1535

Noise level:

@ 7m = 58 - 65 dBA

Fuel tank capacity:

158 litres. Max 24 hours

Pipe connections:

Suction: 4" Table D
Discharge: 4" Table D
Bauer couplings option

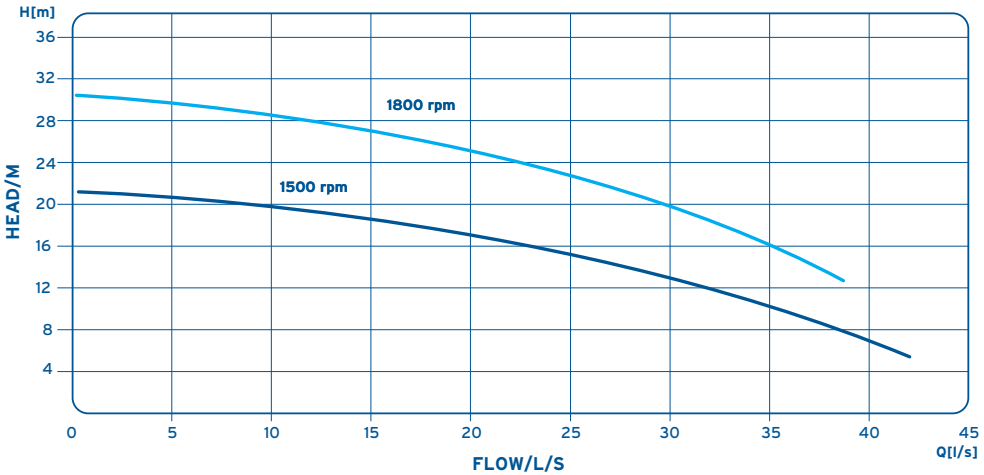
Fuel consumption:

Full load @ 1800 rpm:
5 litres/hour

Energy Efficient duty point:

**Fuel Consumption @ 1500 rpm:
2.25 litres/hour**

Smart pumping
Best fuel economy 2.25 litres/hour



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**SUPER
SILENCED**

SUPER
WISPASET 100

42

SUPER WISPASET 150

PUMP PERFORMANCE



Performance:

Max head: 38 m
Max flow: 90 l/s
Max solid: 52 mm

Weight:

1990 kg with fuel
1800 kg without fuel

Dimensions:

(L x W x H) mm

2310 x 1250 x 1535

Noise level:

@ 7m = 65 dBA

Fuel tank capacity:

175 litres. Max 24 hours

Pipe connections:

Suction: 6" Table D
Discharge: 6" Table D
Bauer couplings option

Fuel consumption:

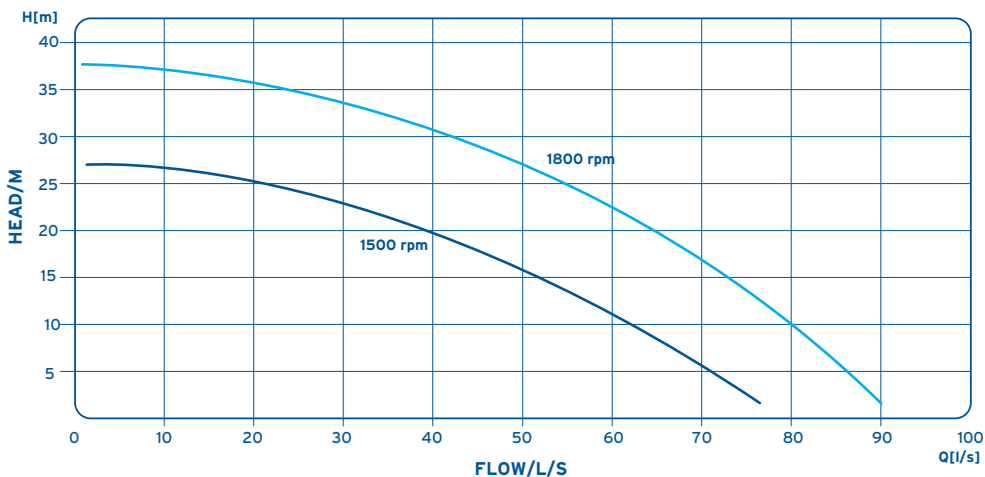
Full load @ 1800 rpm:
9.8 litres/hour

Energy Efficient

duty point:

**Fuel Consumption @ 1500 rpm:
4.1 litres/hour**

Smart pumping
Best fuel economy 4.1 litres/hour



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**SUPER
SILENCED**

SUPER
WISPASET 150

44

SUPER WISPASET 200

PUMP PERFORMANCE

Performance: Max head: 43 m
Max flow: 161 l/s
Max solid: 75 mm

Weight: 2390 kg with fuel
2200 kg without fuel

Dimensions: (L x W x H) mm
2610 x 1250 x 1535

Noise level: @ 7m = 65 dBA

Fuel tank capacity: 207 litres. Max 24 hours

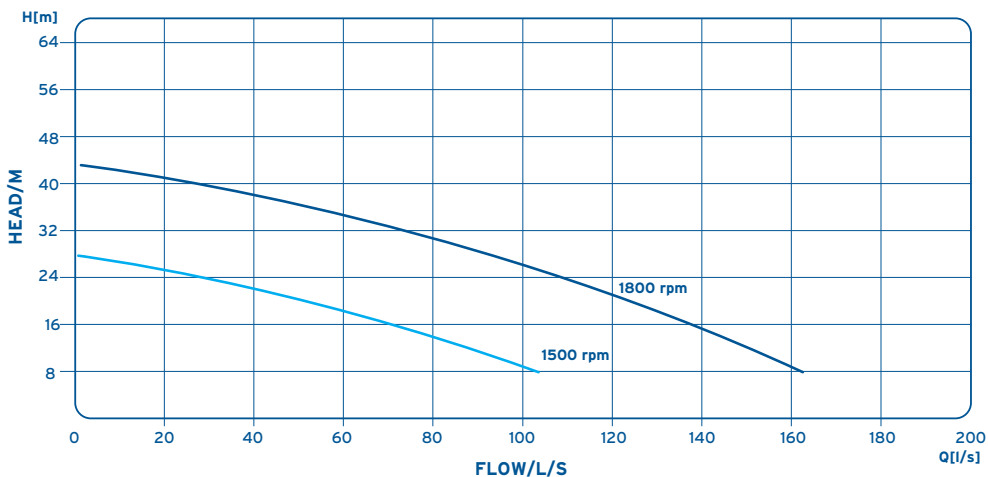
Pipe connections: Suction: 8" Table D
Discharge: 8" Table D
Bauer couplings option

Fuel consumption: Full load @ 1800 rpm:
17 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1500 rpm:**
7.3 litres/hour



Smart pumping
Best fuel economy 7.3 litres/hour



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**SUPER
SILENCED**

SUPER
WISPASET 200

46

SUPER WISPASET 200 ECOTEC

PUMP PERFORMANCE

Performance: Max head: 43 m
Max flow: 161 l/s
Max solid: 75 mm

Weight: 2426 kg with fuel
2314 kg without fuel

Dimensions: 2720 x 1250 x 1790 mm
(L x W x H)

Noise level: @ 7m = 65 dBA

Fuel tank capacity: 170 litres. Max 24 hours

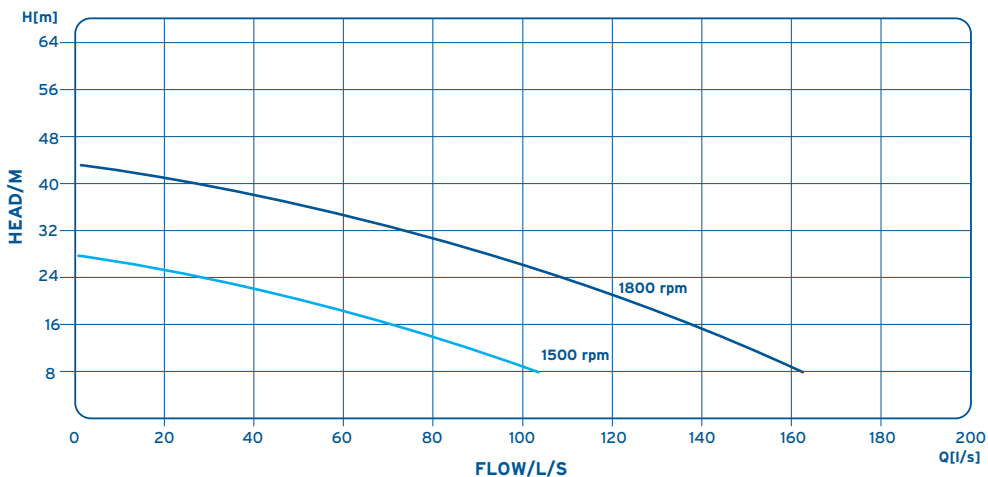
Pipe connections: Suction: 8" Table D
Discharge: 8" Table D
Bauer couplings option

Fuel consumption: Full load @ 1800 rpm:
15 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1500 rpm:**
7 litres/hour



Smart pumping
Best fuel economy 7 litres/hour



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**SUPER
SILENCED**

SUPER WISPASET
200 ECOTEC

48

SUPER WISPASET 300

PUMP PERFORMANCE

Performance: Max head: 18 m

Max flow: 415 l/s

Max solid: 70 mm

Weight:

3913 kg with fuel

3500 kg without fuel

Dimensions:
(L x W x H) mm

3300 x 1180 x 2700

Noise level:

@ 10m = 66 dBA

Fuel tank capacity: 480 litres. Max 24 hours

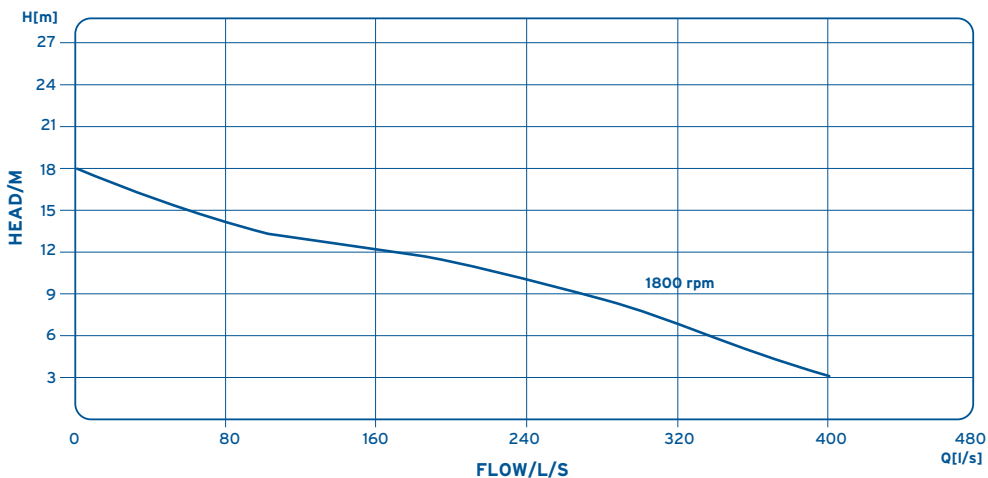
Pipe connections: Suction flange: 12" DN 300 PN 10
Discharge flange: 12" DN 300 PN 10
Optional Bauer Couplings

Fuel consumption: Full load @ 1800 rpm:
14.9 litres/hour

Energy Efficient **Fuel Consumption @ 1500 rpm:**
duty point: 13.6 litres/hour



Smart pumping
Best fuel economy 13.6 litres/hour



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**SUPER
SILENCED**

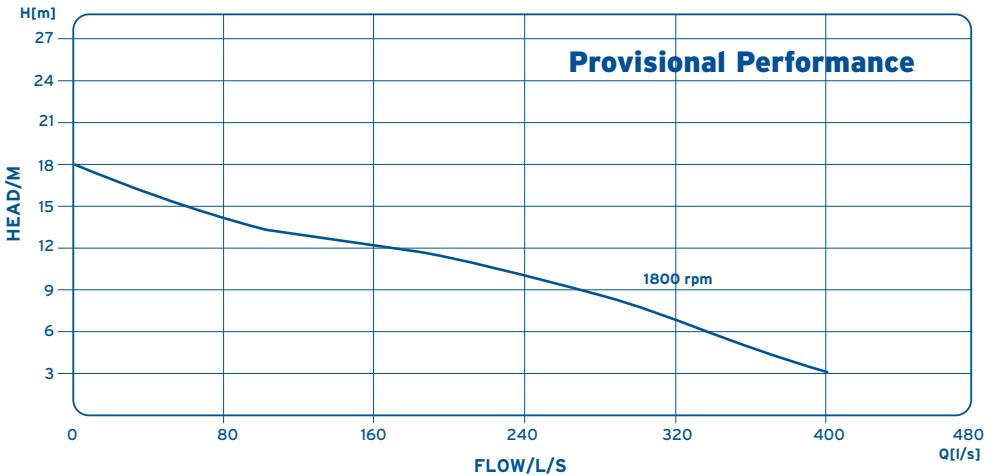
SUPER
WISPASET 300

50

SUPER WISPASET GP300 ECO



Our new Super Wispaset GP300 eco will be launched early in 2021. Please visit our website for further information on this new product, along with our other new product developments.



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**SUPER
SILENCED**

SUPER WISPASET
GP300 ECO

52

HIGH PERFORMANCE

Specifically designed for medium and high head duties, Sykes Pumps offer a unique combination of features that provide high performance, improved efficiency and reliability.

The MH, UVO, DRC and HP medium and high head high performance pumps are suitable for specific heavy duty and high lift applications.

Pumps are built with enhanced specifications, using proven hard wearing and corrosion resistant parts robustly designed to deliver reliable, sustained performance at the lowest possible cost.

These high performance pumps are ideal for civil engineering, mines and quarries, process industries, municipal engineering, pressure boosting, abrasive slurries, irrigation and many more applications.. All pumps feature fully automatic self-priming as standard and come in sizes of 80mm - 200mm.

For specialist high performance pumps we always recommend that a free of charge survey from one of our professional sales engineers be completed prior to use, to ensure that the correct unit is selected for your application.

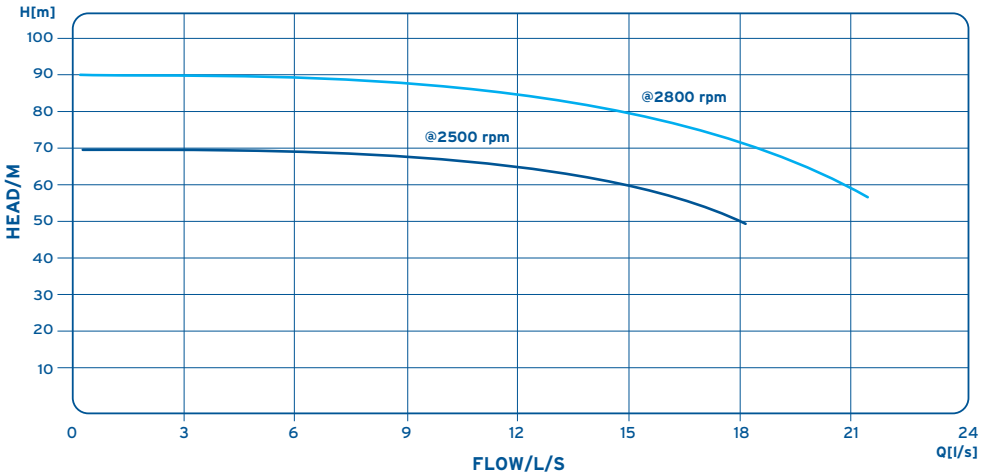
HP80



PUMP PERFORMANCE

| | |
|-----------------------------------------|-----------------------------------------------------------------------------------------|
| Performance: | Max head: 90 m Max flow: 21 l/s |
| Weight: | 856kg without fuel |
| Dimensions: (L x W x H) mm | 1800 x 1070 x 1460 Typical length including tow bar 2400 |
| Noise level: | @ 1m = 94 - 98 dBA @ 7m = 77 - 82 dBA |
| Fuel tank capacity: | 90 litres |
| Pipe connections: | Suction: 4" Table D or 3" Bauer Discharge: 2 1/2" Instantaneous adapter or 3" BSP |
| Fuel consumption: | Full load @ 2800 rpm: 6.27 litres/hour |
| Energy Efficient duty point: | Fuel Consumption @ 2500 rpm: 4.08 litres/hour |

Smart pumping
Best fuel economy 4.08 litres/hour



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**HIGH
PERFORMANCE**

HP80

56

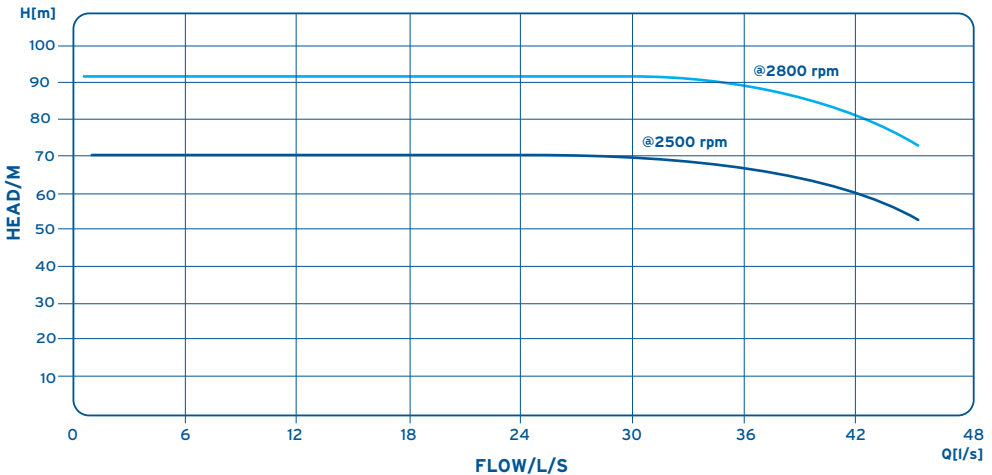
HP100



PUMP PERFORMANCE

- Performance:** Max head: 90 m
Max flow: 44 l/s
- Weight:** 1004 kg with fuel
907 kg without fuel
- Dimensions:
(L x W x H) mm** 1940 x 1450 x 1530
Typical length including tow bar 2620
- Noise level:** @ 7m = 77 - 82 dBA
- Fuel tank capacity:** 122 litres
- Pipe connections:** Suction: 4" Table D or 4" Bauer
Discharge: 2½" Instantaneous adapter or (3" Bsp)
- Fuel consumption:** Full load @ 2800 rpm:
10.8 litres/hour
- Energy Efficient duty point:** **Fuel Consumption @ 2500 rpm:**
7.7 litres/hour
- Silenced version available

Smart pumping
Best fuel economy 7.7 litres/hour



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**HIGH
PERFORMANCE**

HP100

58

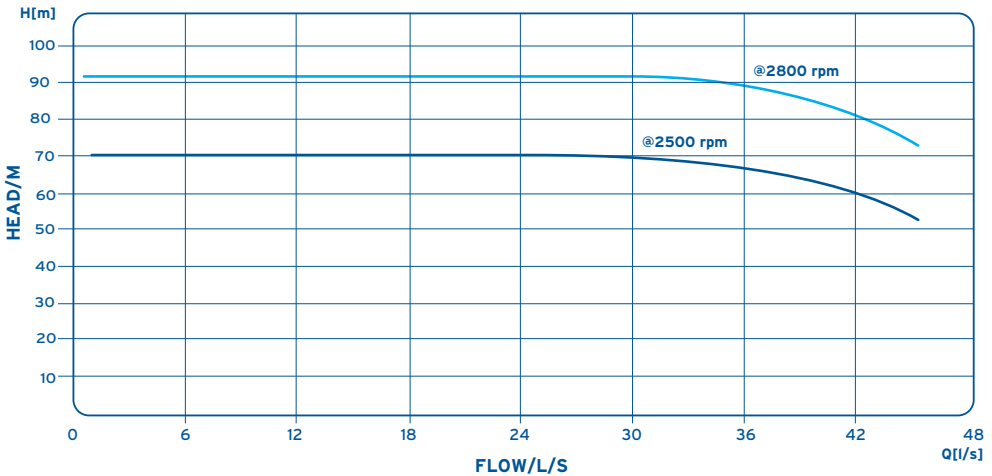
HP100 SUPER SILENCED



PUMP PERFORMANCE

| | |
|-----------------------------------------|----------------------------------------------------------------|
| Performance: | Max head: 90 m Max flow: 44 l/s |
| Weight: | 1621 kg with fuel 1504 kg without fuel |
| Dimensions: (L x W x H) mm | 2375 x 1450 x 1600 |
| Noise level: | @ 7m = 65 dBA |
| Fuel tank capacity: | 155 litres |
| Pipe connections: | Suction: 4" Table D or 4" Bauer Discharge: Flanged 4" NP 16 |
| Fuel consumption: | Full load @ 2800 rpm: 9 litres/hour |
| Energy Efficient duty point: | Fuel Consumption @ 2500 rpm: 6.2 litres/hour |

Smart pumping
Best fuel economy 6.2 litres/hour



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**HIGH
PERFORMANCE**

HP100 SUPER
SILENCED

60

HP150 SUPER SILENCED

PUMP PERFORMANCE

Performance:

Max head: 90 m
Max flow: 100 l/s
Max solid: 20 mm

Weight:

2426 kg with fuel
2314 kg without fuel

Dimensions:

(L x W x H) mm

2720 x 1250 x 1790

Noise level:

@ 7m = 65 dBA / 90 Lwa

Fuel tank capacity:

170 litres. Max 24 hours

Pipe connections:

Suction: 6" Table D
Bauer couplings option
Discharge: 4" NP16 Flanged

Fuel consumption:

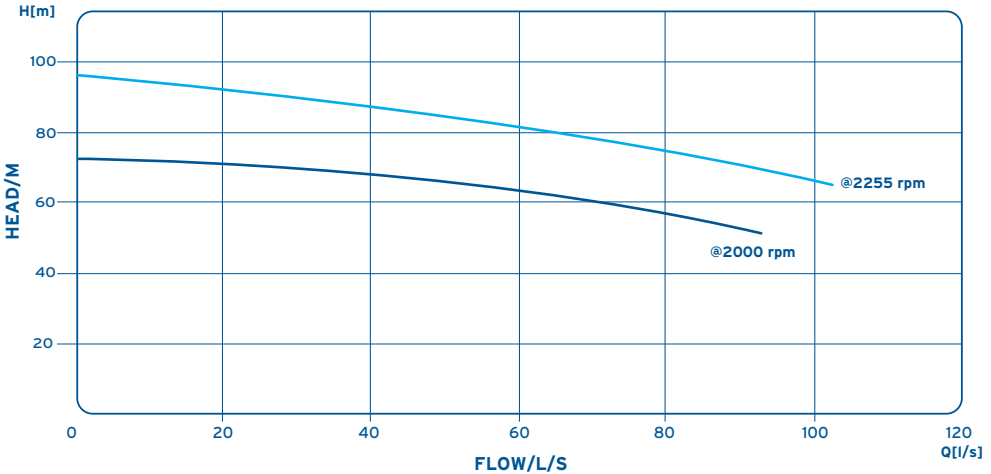
Full load @ 2200 rpm:
22 litres/hour

Energy Efficient duty point:

**Fuel Consumption @ 2000 rpm:
14 litres/hour**



Smart pumping
Best fuel economy 14 litres/hour



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**HIGH
PERFORMANCE**

HP150
SUPER SILENCED

62

PUMP PERFORMANCE

Performance: Max head: 105 m
Max flow: 90 l/s
Max solid: 20 mm

Weight: 2100 kg

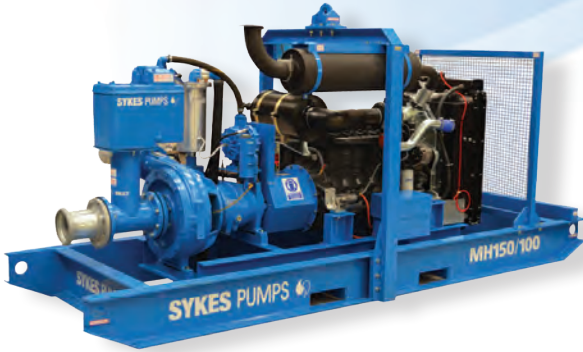
Dimensions: 4090 x 1370 x 1685
(L x W x H) mm

Pipe connections: Suction: 6" Table D
Discharge: 4" NP16
Bauer couplings option

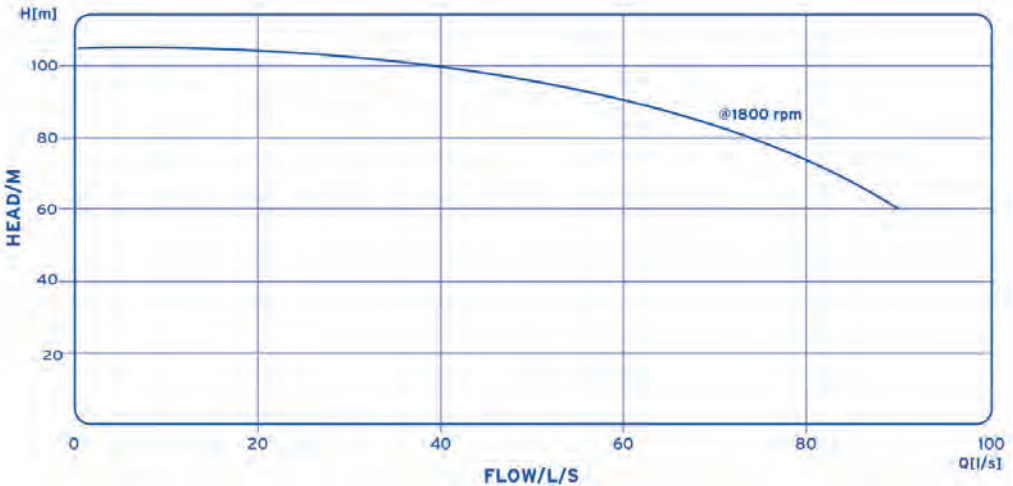
Fuel consumption: Full load @ 1800 rpm:
26.5 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1800 rpm:**
21.9 litres/hour

Separate fuel tank required



Smart pumping
Best fuel economy 21.9 litres/hour



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**HIGH
PERFORMANCE**

MH150/100

64

MH150/100 SUPER WISPASET

PUMP PERFORMANCE

Performance: Max head: 105 m
Max flow: 90 l/s
Max solid: 20 mm

Weight: 2905 kg

Dimensions: 4090 x 1370 x 1685
(L x W x H) mm

Noise level: @7m = 70 dBA

Pipe connections: Suction: 6" Table D
Discharge: 4" NP16
Bauer couplings option

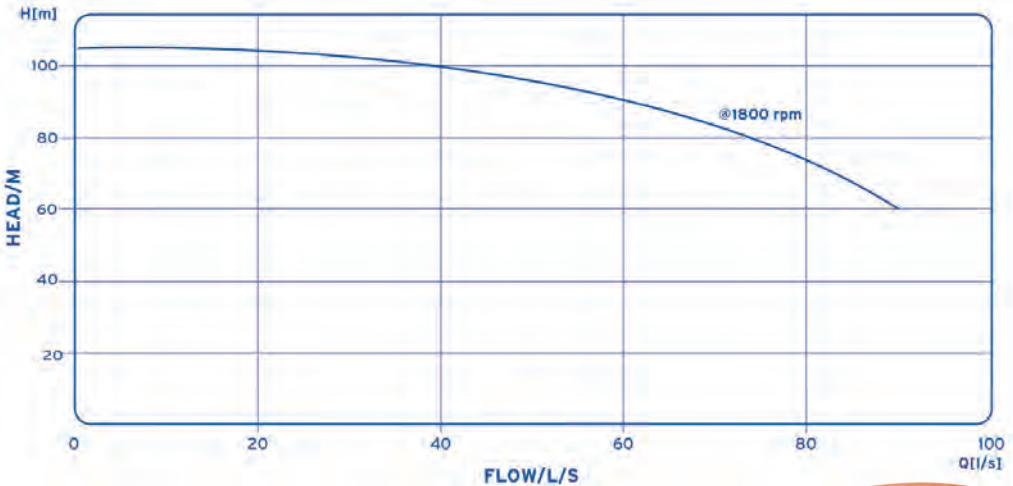
Fuel consumption: Full load @ 1800 rpm:
26.5 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1800 rpm:**
21.9 litres/hour

Separate fuel tank required



Smart pumping
Best fuel economy 21.9 litres/hour



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**HIGH
PERFORMANCE**

MH150/100
SUPER WISPASET

66

HS200

PUMP PERFORMANCE

Performance: Max head: 55m
Max flow: 190 l/s
Max solid: 95 mm

Weight: 3500 kg

Dimensions: 3640 x 1750 x 1740
(L x W x H) mm

Noise level: @ 7m = 70 dBA

Pipe connections: Suction: 8" Table D
Discharge: 8" Table D
Bauer couplings option

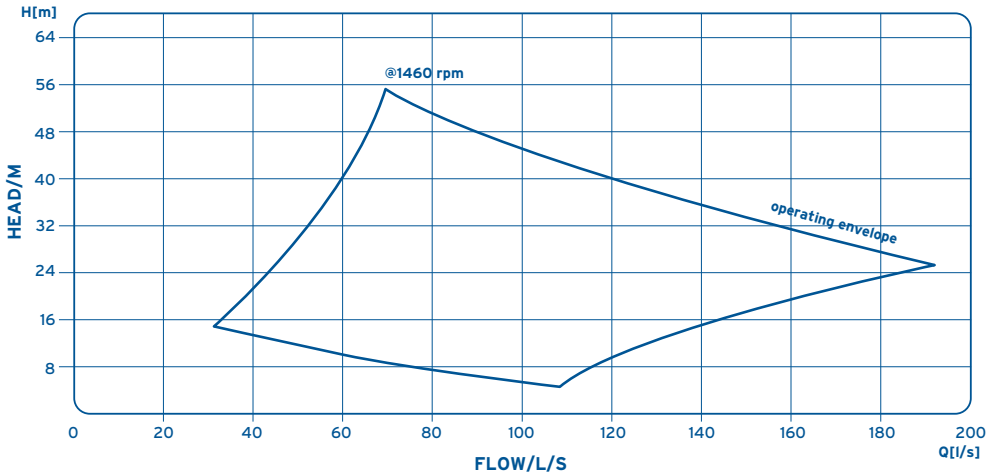
Fuel consumption: Full load @ 1460 rpm:
20.47 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1200 rpm:**
14 litres/hour

Separate fuel tank required



Smart pumping
Best fuel economy 14 litres/hour



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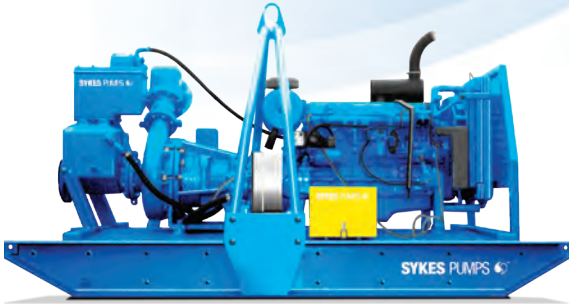
**HIGH
PERFORMANCE**

HS200

68

UVO 150/100E

PUMP PERFORMANCE



Performance:

Max head: 93 m

Max flow: 120 l/s

Max solid: 38 mm

Weight:

3750 kg with fuel

3400 kg without fuel

**Dimensions:
(L x W x H) mm**

3505 x 1608 x 1977

Fuel tank capacity:

Fuel tank size on application where fitted, separate bunded tanks available.

Pipe connections:

Suction: 6" Table D

Discharge: 4" Table D

Option Bauer Couplings

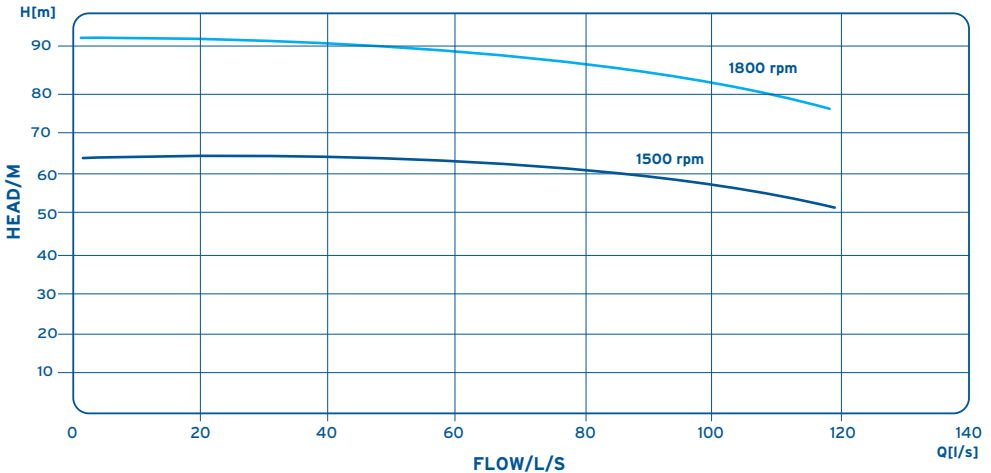
Fuel consumption:

Full load @ 1800 rpm:
30 litres/hour

**Energy Efficient
duty point:**

**Fuel Consumption @ 1500 rpm:
18.6 litres/hour**

Smart pumping
Best fuel economy 18.6 litres/hour



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**HIGH
PERFORMANCE**

UVO 150/100E

70

UVO 150/100 SUPER WISPASET

PUMP PERFORMANCE

Performance: Max head: 93 m
Max flow: 120 l/s
Max solid: 38 mm

Weight: 4100 kg

Dimensions: 4750 x 2120 x 2480
(L x W x H) mm

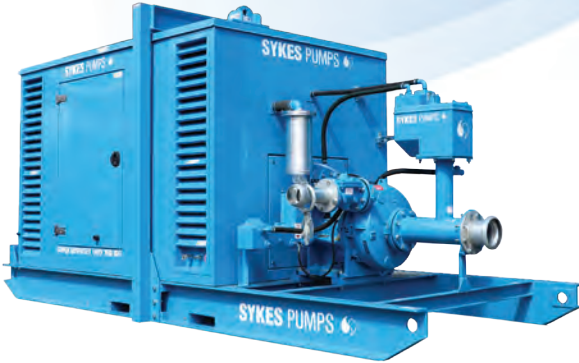
Noise Level: @7m = 70 dBA

Fuel tank capacity: Separate banded tanks available.

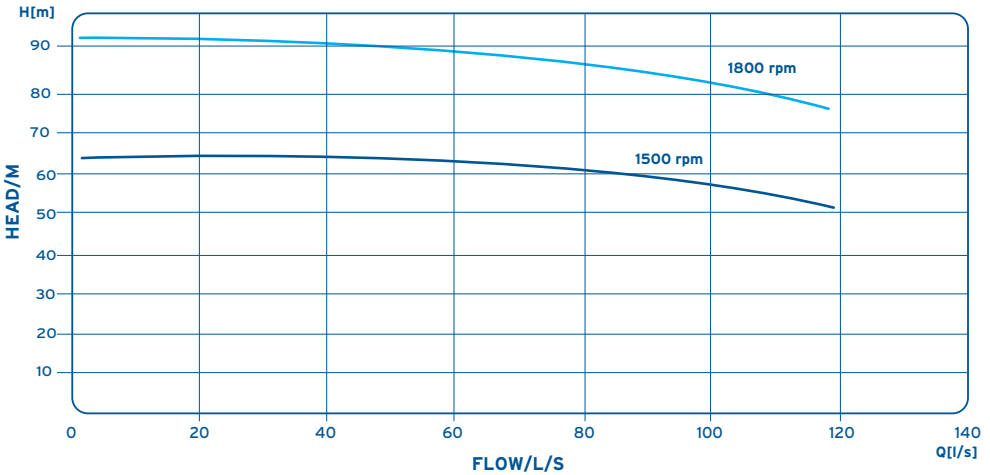
Pipe connections: Suction: 6" Table D
Discharge: 4" NP16
Option Bauer Couplings

Fuel consumption: Full load @ 1800 rpm:
28 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1500 rpm:**
16.8 litres/hour



Smart pumping
Best fuel economy 16.8 litres/hour



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**HIGH
PERFORMANCE**

UVO 150/100
SUPER WISPASET

72

UVO 200/150F (D70)

PUMP PERFORMANCE

Performance: Max head: 108 m

Max flow: 325 l/s

Max solid: 60 mm

Weight:

8450 kg with fuel

6320 kg without fuel

Dimensions:
(L x W x H mm)

5330 x 2385 x 2260

Fuel tank capacity: Fuel tank size on application where fitted, separate bunded tanks available.

Pipe connections:

Suction: 8" Table D

Discharge: 6" Table D

Option Bauer Couplings

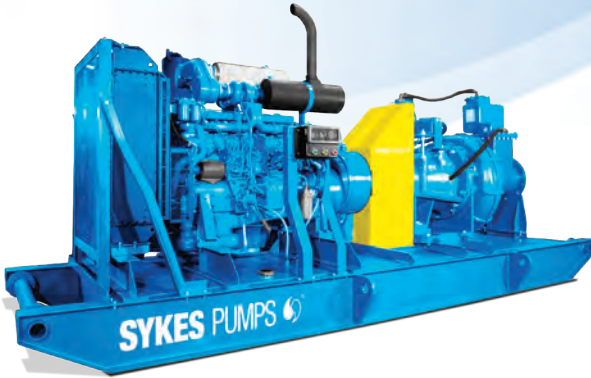
Fuel consumption:

Full load @ 1800 rpm:

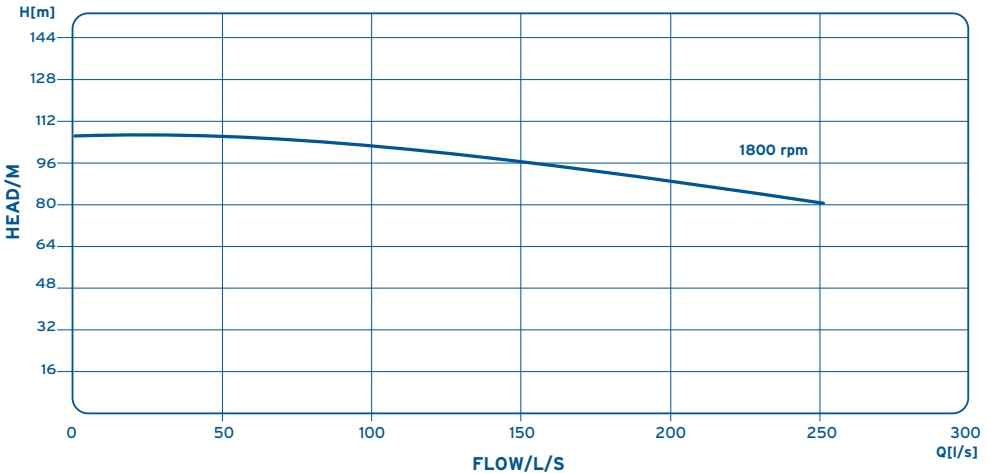
999 litres/hour

**Energy Efficient
duty point:**

Fuel Consumption @ 1600 rpm:
72.67 litres/hour



Smart pumping
Best fuel economy 72.67 litres/hour



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**HIGH
PERFORMANCE**

UVO 200
150F (D70)

74

UVO 200/150F (D90)

PUMP PERFORMANCE

Performance: Max head: 135 m

Max flow: 375 l/s

Max solid: 60 mm

Weight:

8680 kg with fuel

6570 kg without fuel

Dimensions:
(L x W x H) mm

5330 x 2385 x 2167

Fuel tank capacity: Fuel tank size on application where fitted, separate bunded tanks available.

Pipe connections: Suction: 8" Table D

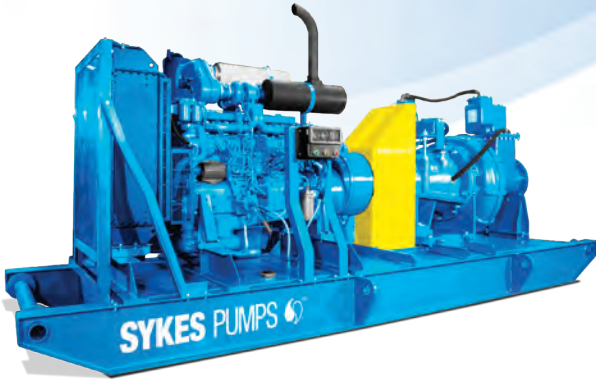
Discharge: 6" Table D

Option Bauer Couplings

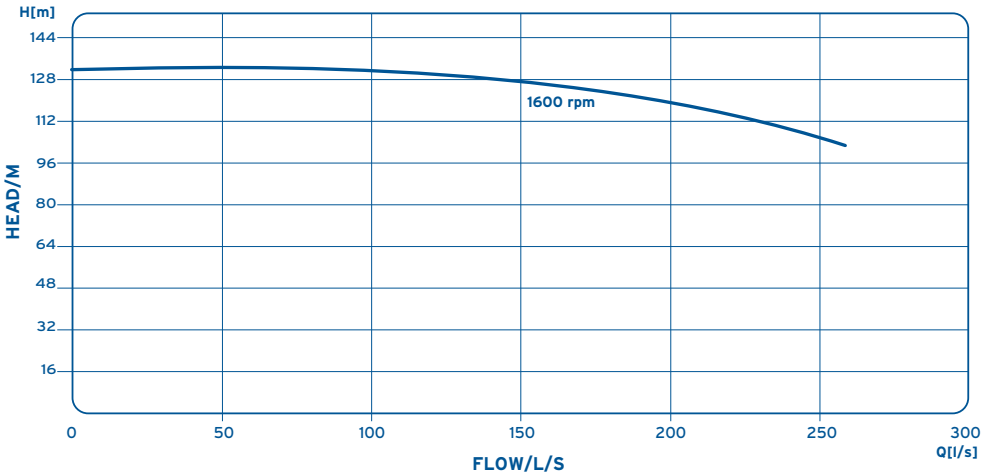
Fuel consumption: Full load @ 1600 rpm:
111 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1500 rpm:**
92.5 litres/hour

Silenced version available



Smart pumping
Best fuel economy 92.5 litres/hour



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**HIGH
PERFORMANCE**

UVO 200
150F (D90)

76

UVO 200/150 (D90) SILENCED

PUMP PERFORMANCE

Performance: Max head: 135 m
Max flow: 375 l/s
Max solid: 60 mm

Weight: 9600 kg

**Dimensions:
(L x W x H mm)** 5400 x 2200 x 2570

Noise level: @ 7m = 71 dBA

Pipe connections: Suction: 8" Table D
Discharge: 8" Table D
Option Bauer Couplings

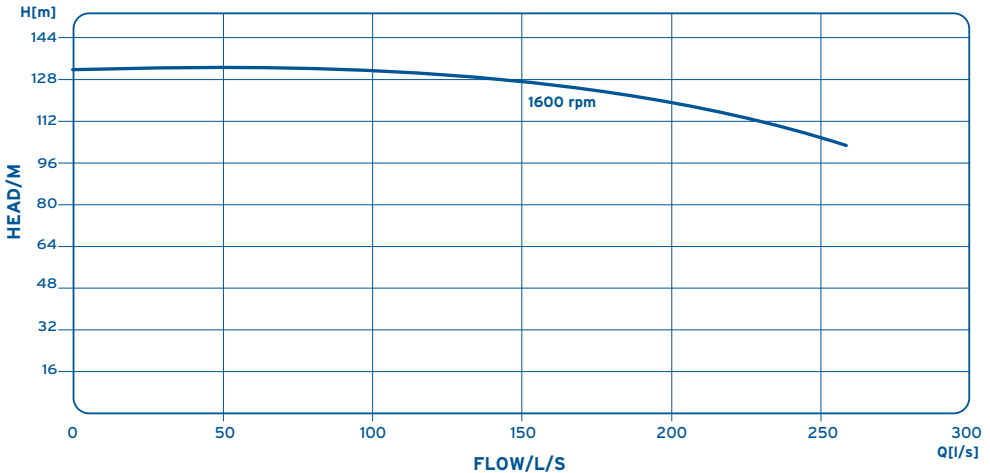
Fuel consumption: Full load @ 1600 rpm:
106 litres/hour

**Energy Efficient
duty point:** **Fuel Consumption @ 1500 rpm:**
92.5 litres/hour

Separate fuel tank required



Smart pumping
Best fuel economy 92.5 litres/hour



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**HIGH
PERFORMANCE**

UVO 200
150 (D90)

78

DRC 150/150

PUMP PERFORMANCE

Performance: Max head: 190 m
Max flow: 118 l/s
Max solid: Clear water

Weight: 7250 kg with fuel
5135 kg without fuel

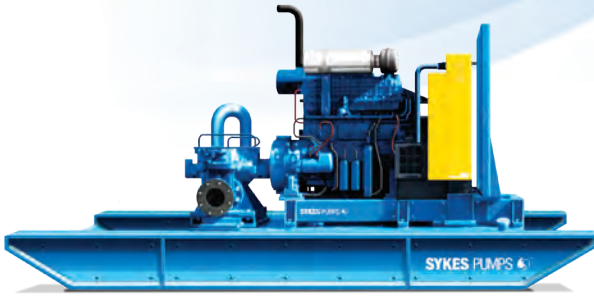
Dimensions: 5330 x 2385 x 2260
(L x W x H) mm

Fuel tank capacity: Fuel tank size on application where fitted, separate bunded tanks available.

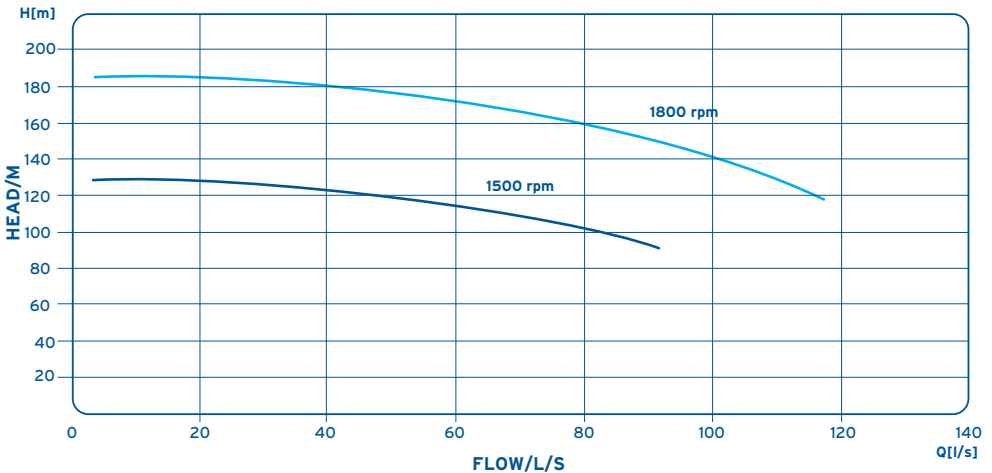
Pipe connections: Suction: 150 NP25
Discharge: 150 NP25
Option Bauer Couplings
Suction Only

Fuel consumption: Full load @ 1800 rpm:
71.4 litres/hour

Energy Efficient duty point: **Fuel Consumption @ 1500 rpm:**
26 litres/hour



Smart pumping
Best fuel economy 26 litres/hour



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**HIGH
PERFORMANCE**

DRC 150/150

80

BENTONITE

Specifically designed for pumping heavy slurries on challenging applications, the Sykes Bentonite range offers clients from building and engineering backgrounds large pump performance without the high fuel costs normally associated.

Both the B150 and B150E models have been designed off the back of comprehensive research that includes customer input, with the Bentonite products possessing similar specifications to our ever-popular GPI50M pumps.

Manufactured in the UK, our Bentonite units are compliant with the industry's most stringent regulations both in this country and in Europe, with their robust construction guaranteeing suitability for even the toughest projects and environments.

Trusted components from previous innovations help safeguard reliability and cost-efficient servicing, while an automatic/manual control panel affords the user unrivalled flexibility.

Flow rates of up to 90 l/s combined with solids handling of up to 52 mm highlights the versatility of our Bentonite range, and these features are accompanied by intuitive safety traits. A priming shut-off valve facilitates secure operation on a flooded suction, rendering the pumps perfect for virtually any situation.



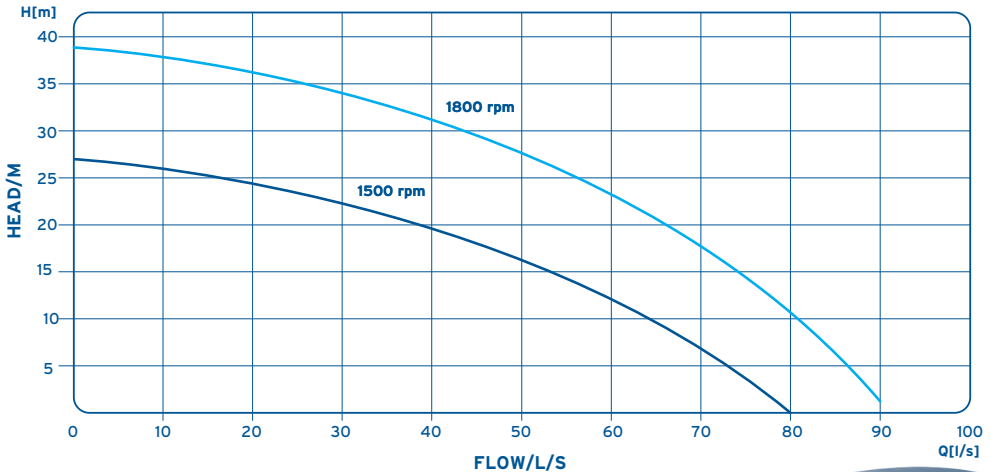
B150 BENTONITE PUMP



PUMP PERFORMANCE

| | |
|-----------------------------------------|---------------------------------------------------------------------------|
| Performance: | Max head: 38 m Max flow: 90 l/s Max solid: 52 mm |
| Weight: | 1433 kg with fuel 1300 kg without fuel |
| Dimensions: (L x W x H) mm | 2420 x 1160 x 1600 |
| Noise level: | @ 7m = 70 dBA |
| Fuel tank capacity: | 160 litres. Max 39 hours with cleaning and flushing facilities |
| Pipe connections: | Suction: 6" table D Discharge: 6" table D Bauer couplings option 6" |
| Fuel consumption: | Full load @ 1800 rpm: 9.8 litres/hour |
| Energy Efficient duty point: | Fuel Consumption @ 1500 rpm: 4.1 litres/hour |

Smart pumping
Best fuel economy 4.1 litres/hour



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BENTONITE

B150

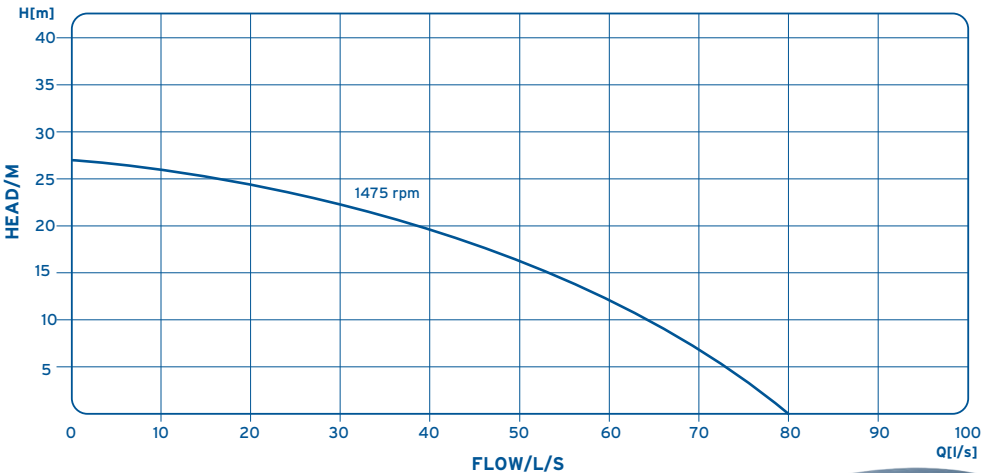
84

B150E BENTONITE PUMP



PUMP PERFORMANCE

| | |
|---------------------------------------|----------------------------------------------------------------------------|
| Performance: | Max head: 27 m Max flow: 78 l/s Max solid: 52 mm |
| Weight: | 1050 kg |
| Dimensions: (L x W x H) mm | 2100 x 1000 x 1560 |
| Noise level: | @ 7m = 68 dBA |
| Pipe connections: | Suction: 6" table D Discharge: 6" table D Bauer couplings option: 6" |
| Motor: | 30 kW IE3 motor 415v 3ph 50 Hz |



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BENTONITE

B150E

86

SUBMERSIBLE HYDRAULIC

Our range of high performance hydraulic submersible pumps provides users with a credible alternative to conventional diesel driven units in environments with no accessible power supply.

A semi-silenced engine drives the hydraulic system enabling quiet operation, making it ideal for assignments carried out in noise sensitive areas. Robustly manufactured for the most arduous locations, our pumps are fitted with high pressure motors and replaceable stainless steel wear plates, reducing the risk of abrasion and other damage. Perfect for non-stop dry running, these self-priming pumps are capable of automatic shutdown should they become blocked at any point.

Sykes Hydrasets are available for hire and will help clients streamline projects without raising energy costs. This latest innovation comprises of a Sykes Hydrapak, a Sykes Hydrapump and a set of Sykes Hydrachose and provides an alternative solution where suction lift requirements exceed nine metres, or where access is limited.

Each pump can be easily manoeuvred into position using the site chassis and if required, forklifted or craned into place. Hydrasets can offer an effective substitute to end suction diesels and come complete with different Pump-end options for sewage and drainage applications.



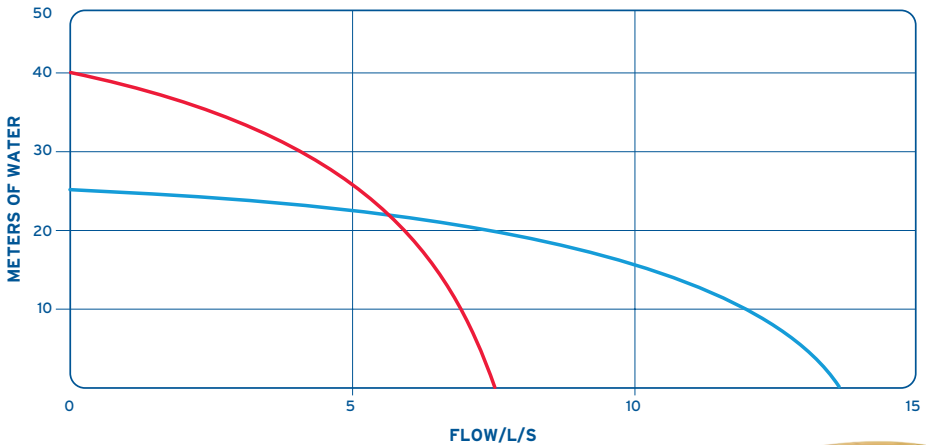
H50 & HH50



PUMP PERFORMANCE

| Model: | H50 | HH50 |
|---------------------------------------|--------------------|----------|
| Max head: | 26 m | 41 m |
| Max flow: | 13.7 l/s | 7.5 l/s |
| Max solid: | 10 mm | 3 mm |
| Discharge: | 2" Bauer | 2" Bauer |
| Weight (kg): | | |
| Pump End: | 20 kg | 20 kg |
| Powerpack: | 1100 kg | 1100 kg |
| Dimensions: (L x H x W) mm | | |
| Pump End: | 225 x 300 x 195 | |
| Powerpack: | 1830 x 1670 x 1000 | |
| Hydraulic lines: | 20 metres | |
| Fuel tank capacity: | 190 litres | |
| Fuel consumption: | 5 litres/hour | |
| Noise: | | |
| Sound pressure level: | @ 7m = 59 dBA | |
| Sound power level: | 90 LWA | |

Please see the pump accessory section



SYKES PUMPS 

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**SUBMERSIBLE
HYDRAULIC**

H50 & HH50

90

H80



PUMP PERFORMANCE

Performance: Max head: 31 m
Max flow: 31 l/s
Max solid: 22mm

Discharge: 3" Bauer

Weight (Kg): Pump End: 41 kg
Powerpack: 850 kg

Dimensions:
(L x H x W) mm

Pump End: 360 x 300 x 550
Powerpack: 1820 x 1090 x 1830

Hydraulic lines: 20 metres

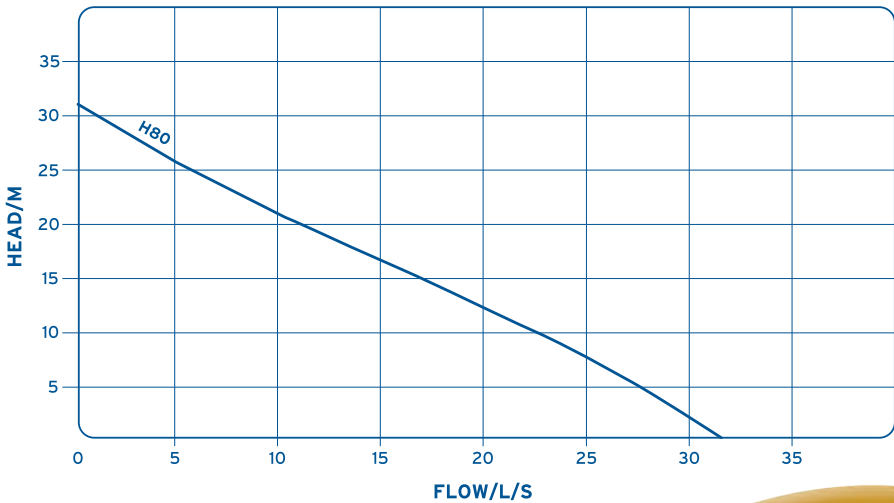
Fuel tank capacity: 145 litres

Fuel consumption: 5 litres/hour

Noise Level: @ 7m = 75 dBA

Super silenced power pack available

Please see the pump
accessory section



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**SUBMERSIBLE
HYDRAULIC**

H80

92

100S



PUMP PERFORMANCE

Performance: Max head: 46 m
Max flow: 38 l/s
Max solid: 70mm

Discharge: 4" Bauer

Weight (Kg): Pump End: 55 kg
Powerpack: 995 kg

Dimensions:
(L x H x W) mm

Pump End: 465 x 350 x 745
Powerpack: 1900 x 1100 x 1720

Hydraulic lines: 20 metres

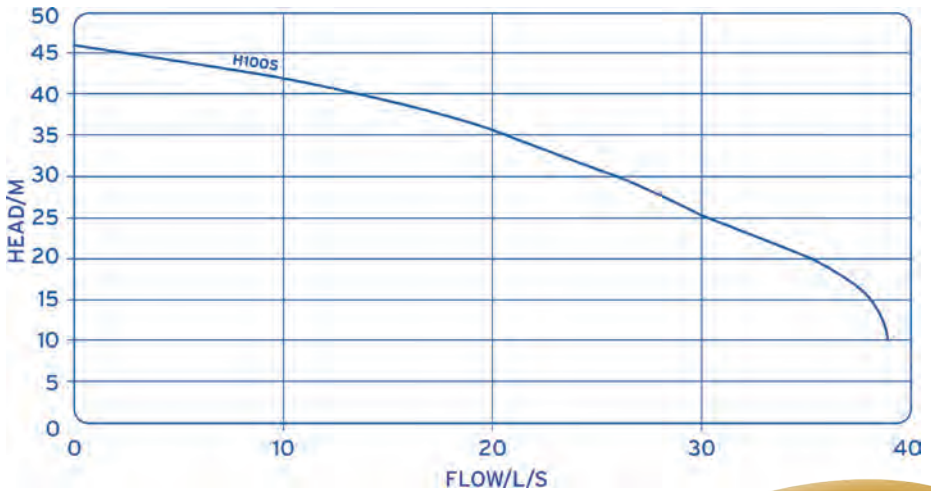
Fuel tank capacity: 145 litres

Fuel consumption: 9 litres/hour

Noise Level: @ 7m = 75 dBA

Super silenced power pack available

Please see the pump
accessory section



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**SUBMERSIBLE
HYDRAULIC**

100S

94

H100 & H150

PUMP PERFORMANCE

| Model: | H100 | H150 |
|--------------|----------|----------|
| Max head: | 40 m | 22 m |
| Max flow: | 62 l/s | 95 l/s |
| Max solid: | 38 mm | 65 mm |
| Discharge: | 4" Bauer | 6" Bauer |
| Weight (kg): | | |
| Pump End: | 51 kg | 105 kg |
| Powerpack: | 995 kg | 995 kg |

Dimensions:
(L x H x W) mm
Pump End (H100): 465 x 350 x 745
Pump End (H150): 650 x 500 x 970
Powerpack: 1900 x 1100 x 1720

Hydraulic lines: 20 metres

Fuel tank capacity: 145 litres

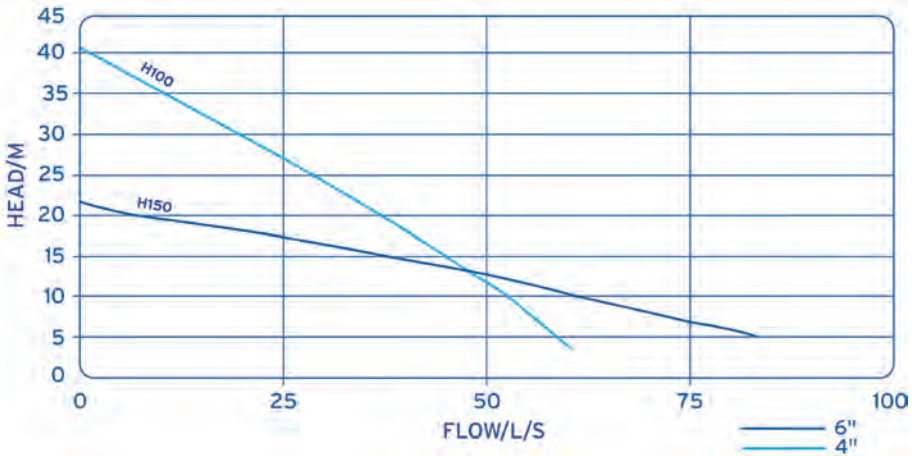
Fuel consumption: 9 litres/hour

Noise Level: @ 7m = 75 dBA

Super silenced power pack available



Please see the pump accessory section



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**SUBMERSIBLE
HYDRAULIC**

H100 & H150

96

SUBMERSIBLE DRAINAGE

The background of the page is a composite image. On the left, there's a blurred image of a construction site with a yellow container. On the right, a red Siob forklift is visible, parked on a wet surface. In the foreground, a blue submersible pump is shown in operation, with water being pumped out of its discharge pipe.

Sykes Electric Submersible Drainage Pumps are ideal for dewatering all kinds of construction sites, from small building projects to large civil engineering contracts such as dams, bridges, quarries, tunnels and open cast mines. These pumps are compact and easy to handle and deliver impressive head and flow performance, making them suitable for most market sectors including marine, power generation, industrial and many others. Pump sizes range from 50mm - 250mm.

Sykes provide a full selection of control panels for use with electric submersibles. Panels can enable users to leave pumps unattended for long periods whilst improving safety, efficiency and reducing wear. PLC panels are used for pumps of up to 11kW and these are available in 1 phase or 3 phase.

Larger pumps use Soft-Start and Variable Frequency panels to provide smooth starting from the minimum of mains and generator supply. This gives the user considerable fuel savings.

For specialist applications Variable Speed Drives, Dual and Multi Pump Panels are readily available. Telemetry, High Level Alarms and Ultrasonic Level Controls can also be provided.

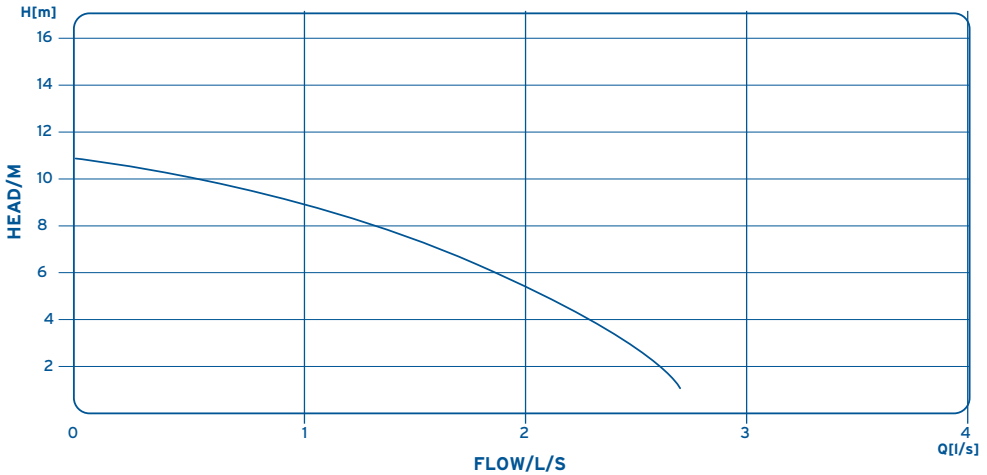
LSC-4



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | LSC-4 |
| Motor type (V): | 110 (1-Phase) 50Hz |
| Motor rating (Kw): | 0.48 |
| Running current (Amps): | 2.9 |
| Discharge Spigot: | 25mm or 2" Bauer |
| Dimensions: (H x W) mm | 316 x 196 |
| Weight: (excl cable) Kg | 11 |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

LSC-4

100

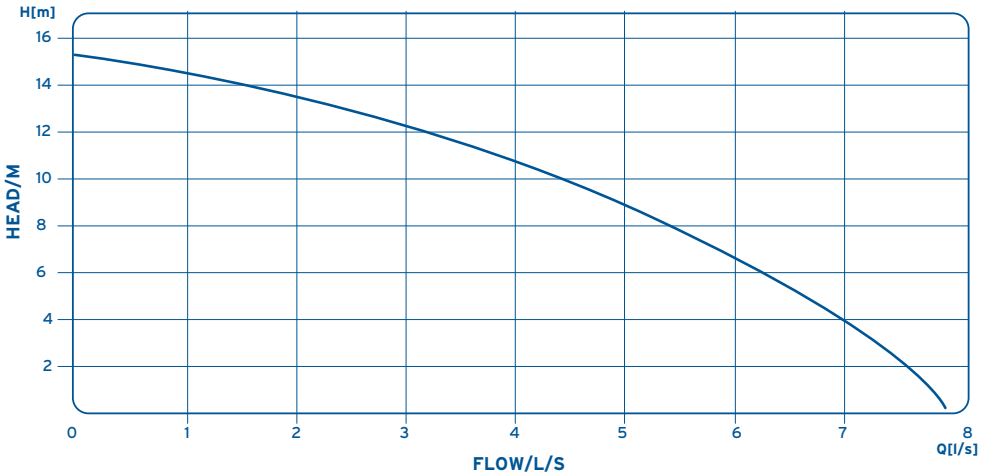
P501



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | P501 |
| Motor type (V): | 110 (1-Phase) 50Hz |
| Motor rating (Kw): | 0.75 |
| Max power input (Kw): | 0.9 |
| Running current (Amps): | 7 |
| Discharge Spigot: | 2" Bauer |
| Dimensions: (H x W) mm | 361 x 184 |
| Weight: (excl cable) Kg | 14 |
| Integral float control | Optional |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

P501

102

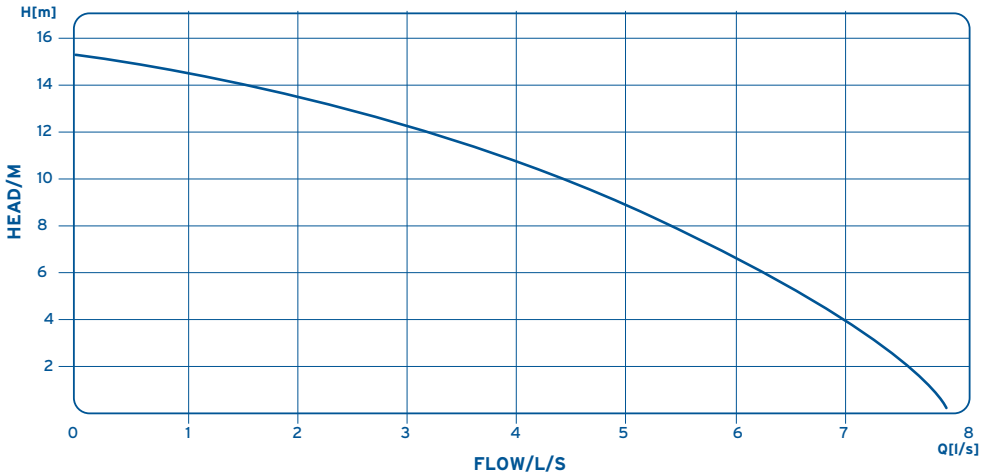
P601W



PUMP PERFORMANCE

| | |
|----------------------------|--------------------------|
| Model: | P601W |
| Motor type (V): | 110 (1-Phase) 50Hz |
| Motor rating (Kw): | 0.9 |
| Max power input (Kw): | 1.2 |
| Running current (Amps): | 10.9 |
| Discharge Spigot: | 2" Bauer |
| Dimensions: (H x W) mm | 530 x 231 |
| Weight: (excl cable) Kg | 16 |
| Integral float control | |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

P601

104

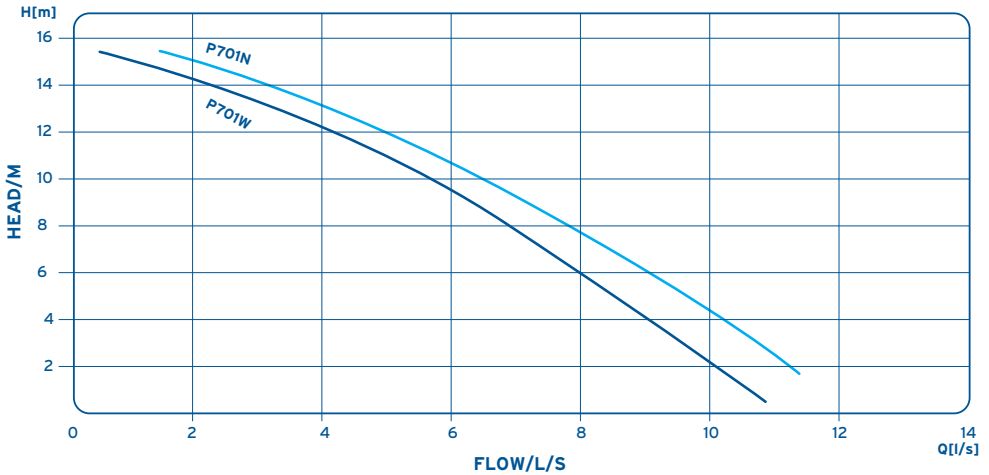
P701



PUMP PERFORMANCE

| | | | |
|------------------------------------|--------------------------|--------------------------|--------------------------|
| Model: | P701 W | P701 N | |
| Motor type (V): | 110 (1-Phase) 50Hz | 240 (1-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 1.3 | 1.3 | 1.4 |
| Max power input (Kw): | 1.7 | 1.7 | 1.7 |
| Running current: (Amps) | 15.3 | 7.2 | 2.8 |
| Discharge Spigot: | 2" Bauer | | |
| Dimensions: (H x W) mm | 578 x 231 | | |
| Weight: (excl cable) Kg | 20 | | |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

P701

106

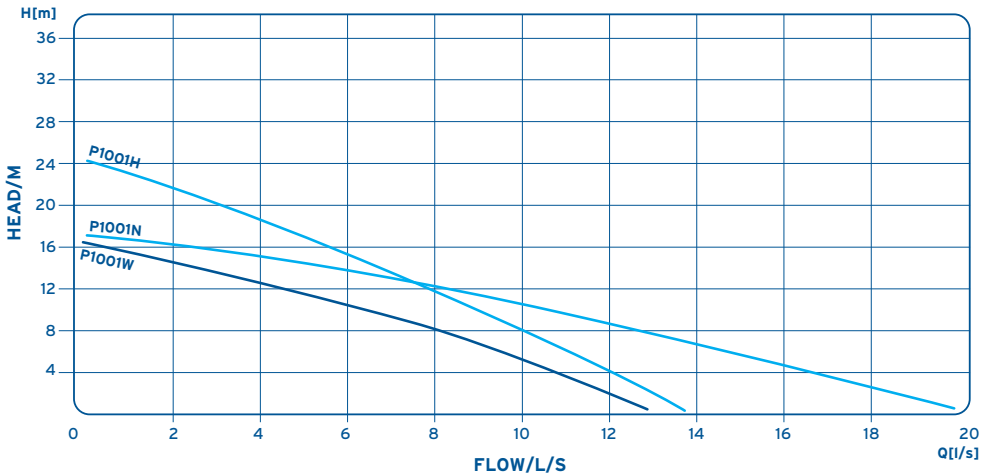
P1001



PUMP PERFORMANCE

| Model: | P1001 W | P1001 N | P1001 H |
|-------------------------|--------------------------|--------------------------|--------------------------|
| Motor type (V): | 240 (1-Phase) 50Hz | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 1.7 | 2.2 | 2.2 |
| Max power input (Kw): | 2.3 | 3.0 | 3.0 |
| Running current: (Amps) | 10.5 | 5.5 | 5.5 |
| Discharge Spigot: | 3" Bauer | | |
| Dimensions (mm): | | | |
| Height | 577 | | |
| Maximum Width | 296 | | |
| Minimum Width | 230 | | |
| Weight: (excl cable) Kg | 27 | | |

Please see the pump accessory section



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**SUBMERSIBLE
DRAINAGE**

P1001

108

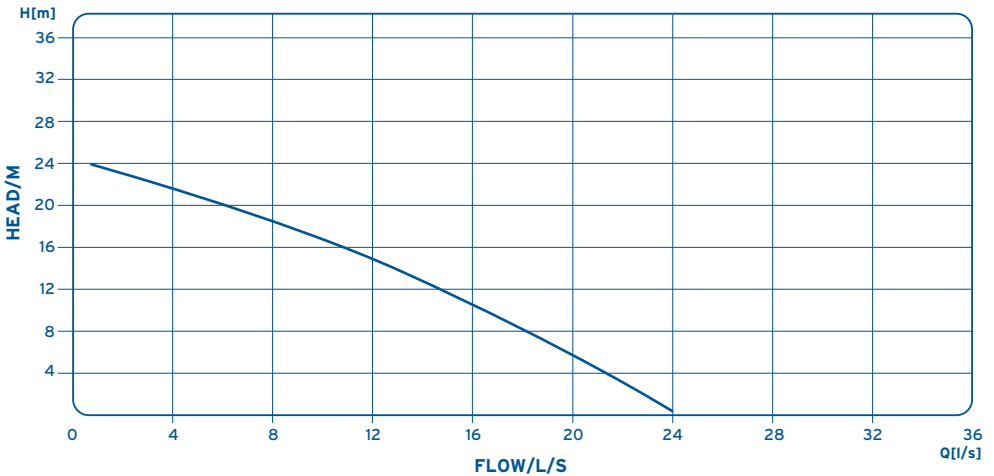
P1501



PUMP PERFORMANCE

| | |
|----------------------------|--------------------------|
| Model: | P1501 N |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 4.2 |
| Max power input (Kw): | 5.0 |
| Running current (Amps): | 8.7 |
| Discharge Spigot: | 3" Bauer |
| Dimensions: (H x W) mm | 577 x 296 |
| Weight: (excl cable) Kg | 36 |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

P1501

110

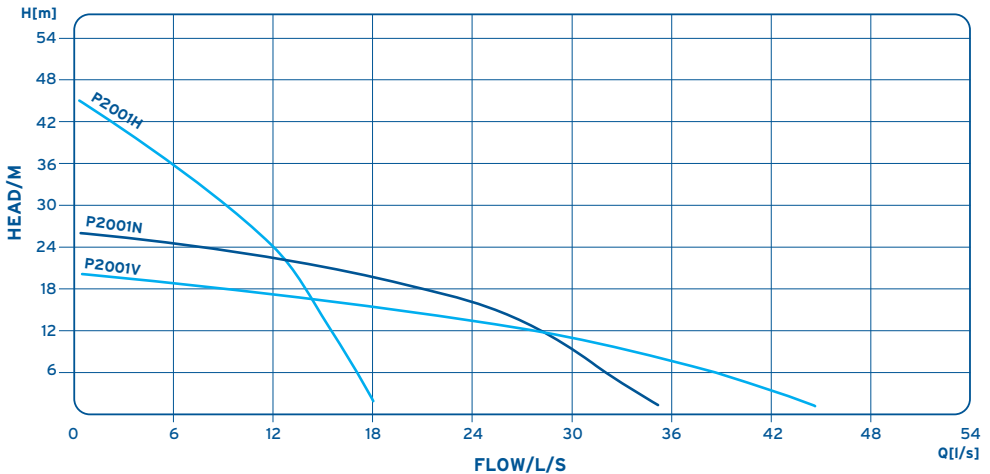
P2001



PUMP PERFORMANCE

| | | | |
|------------------------------------|--------------------------|--------------------------|--------------------------|
| Model: | P2001 N | P2001 H | P2001 V |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 5.8 | 5.8 | 5.8 |
| Max power input (Kw): | 6.8 | 6.8 | 6.8 |
| Running current: (Amps) | 12 | 12 | 12 |
| Discharge Spigot: | 3" or 4" Bauer | | |
| Dimensions (mm): | | | |
| Height | 686 | | |
| Maximum Width | 364 | | |
| Minimum Width | 289 | | |
| Weight: (excl cable) Kg | 50 | | |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

P2001

112

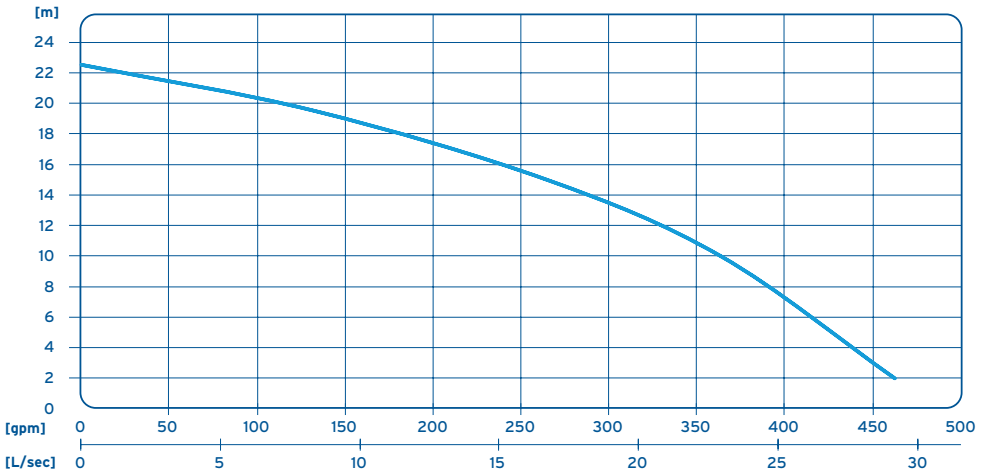
P2002 N



PUMP PERFORMANCE

| | |
|--------------------------------|--------------------------|
| Model: | P2002 N |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 5.5 |
| Max power input (Kw): | 6.5 |
| Running current: (Amps) | 13.1 |
| Discharge Spigot: | 3" or 4" Bauer |
| Dimensions (mm): | |
| Height | 656 |
| Width | 293 |
| Weight: (excl cable) Kg | 74 |

Please see the pump accessory section



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**SUBMERSIBLE
DRAINAGE**

P2002 N

114

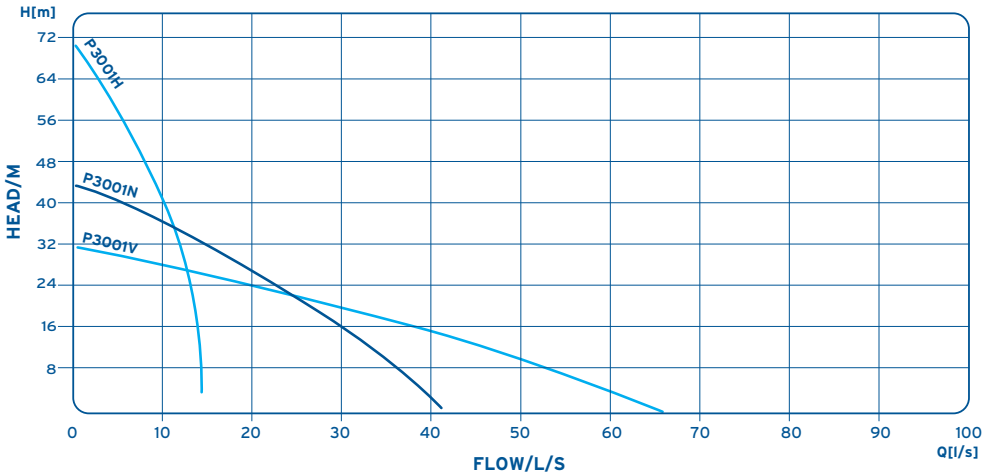
P3001



PUMP PERFORMANCE

| | | | |
|------------------------------------|---------------------------------------|--------------------------|--------------------------|
| Model: | P3001 N | P3001 H | P3001 V |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 9.4 | 9.4 | 9.4 |
| Max power input (Kw): | 10.8 | 10.8 | 10.8 |
| Running current: (Amps) | 18 | 18 | 18 |
| Discharge Spigot: | 4" or 6" Bauer | | |
| Dimensions (mm): | | | |
| Height | 771 | | |
| Maximum Width | 364 | | |
| Minimum Width | 289 | | |
| Weight: | | | |
| (excl cable) Kg | 70 (P3001 N, P3001 V) 75 (P3001 H) | | |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

P3001

116

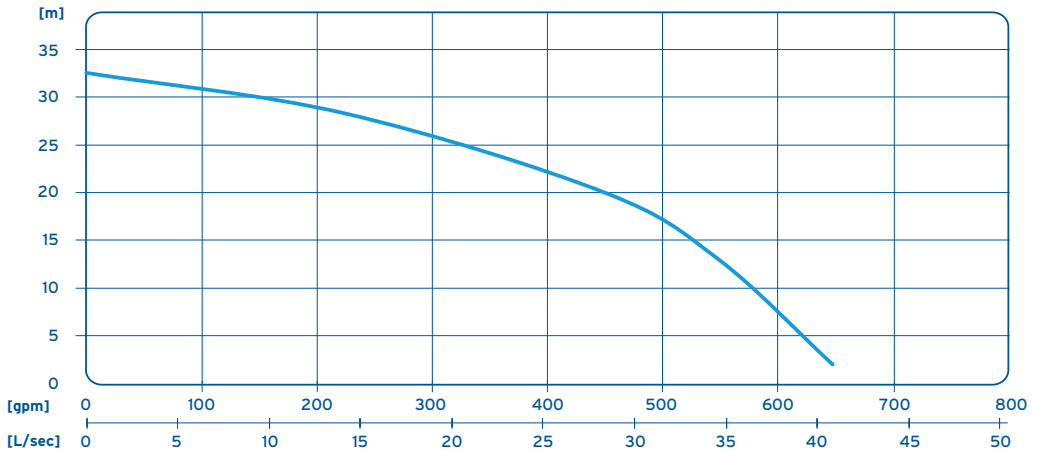
P3002 N



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | P3002 N |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 11 |
| Running current: (Amps) | 26 |
| Discharge Spigot: | 4" or 6" Bauer |
| Dimensions (mm): | |
| Height | 870 |
| Width | 393 |
| Weight: (excl cable) Kg | 142 |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

P3002 N

118

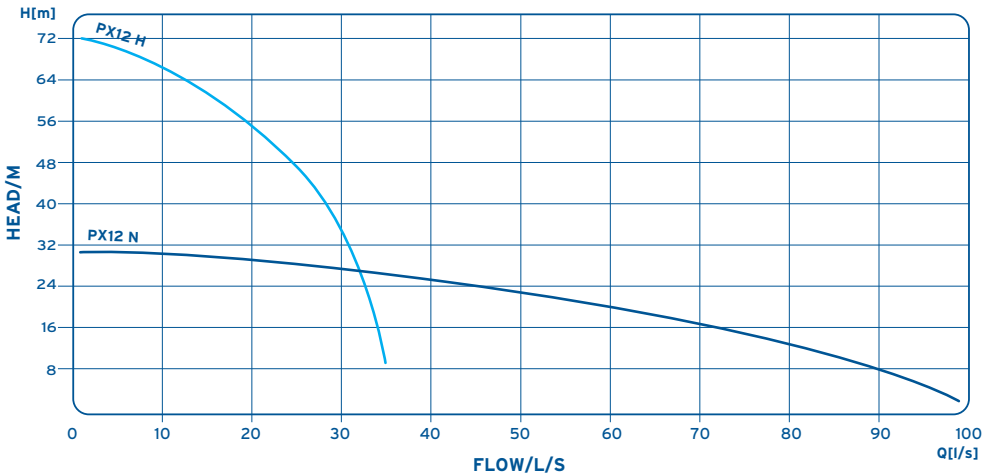
PX12



PUMP PERFORMANCE

| | |
|--------------------------------|----------------------------------------|
| Model: | PX12 N Medium Head PX12 H High Head |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 22 |
| Max power input (Kw): | 24 |
| Running current: (Amps) | 44 |
| Discharge Spigot: | 4" or 6" Bauer |
| Dimensions (mm): | |
| Height | 967 |
| Maximum Width | 570 |
| Minimum Width | 450 |
| Weight: (excl cable) Kg | 160 |

Please see the pump accessory section



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**SUBMERSIBLE
DRAINAGE**

PX12

120

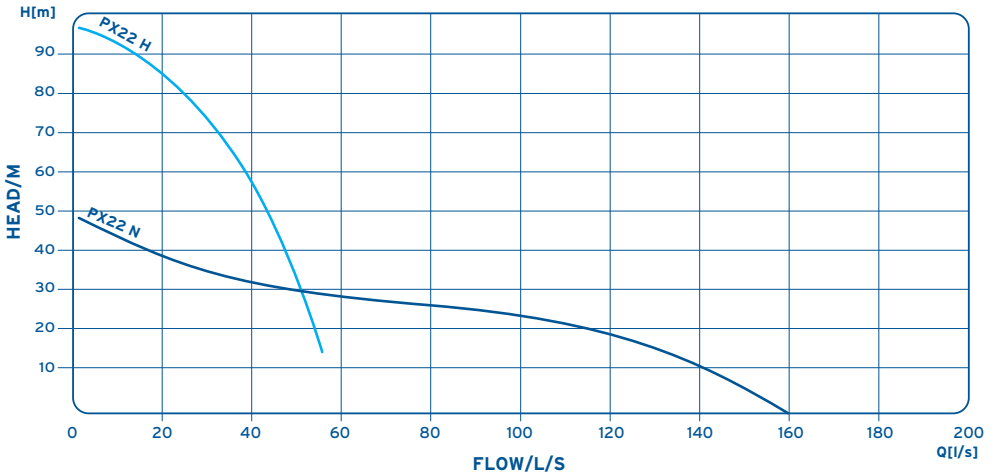
PX22



PUMP PERFORMANCE

| | | |
|------------------------------------|--------------------------|--------------------------|
| Model: | PX22 N | PX22 H |
| | Medium Head | High Head |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 35.0 | 35.0 |
| Max power input (Kw): | 39.5 | 39.5 |
| Running current: (Amps) | 64 | 64 |
| Discharge Spigot: | 6", 8" Bauer | 6", 8" Bauer |
| Dimensions (mm): | | |
| Height | 1200 | 1120 |
| Maximum Width | 705 | 705 |
| Minimum Width | 658 | 533 |
| Weight: (excl cable) Kg | 270 | 270 |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

PX22

122

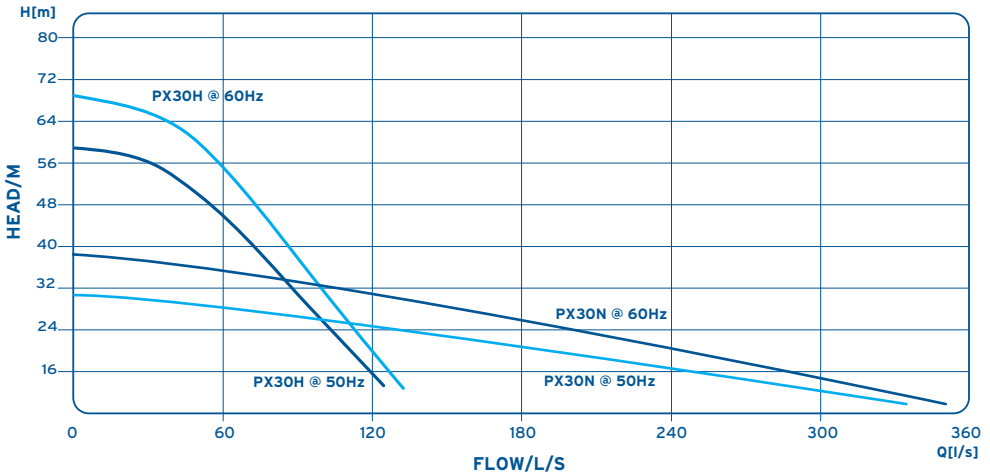
PX30



PUMP PERFORMANCE

| | | |
|------------------------------------|--------------------|------------------|
| Model: | PX30 N Medium Head | |
| | PX30 H High Head | |
| | 50Hz | 60Hz |
| Motor type (V): | 415 (3-Phase) | 415 (3-Phase) |
| | 50Hz | 60Hz |
| Motor rating (Kw): | 56.0 | 70.0 |
| Max power input (Kw): | 61.0 | 76.4 |
| Running current: (Amps) | 110 | 113 |
| Discharge Spigot: | 6" or 8" Bauer | |
| Dimensions (mm): | | |
| Height | 1130 | |
| Maximum Width | 935 | |
| Minimum Width | 776 | |
| Weight: (excl cable) Kg | 525 | |

Please see the pump
accessory section



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**SUBMERSIBLE
DRAINAGE**

PX30

124



Zinc Anodes



Bauer Couplings



Series Connection



Bottom Suction
Adaptor

Please see the pump
accessory section



Zinc Anodes

All P series pumps can be equipped with zinc anodes for protection against galvanic corrosion, eg. when pumping saline or brackish water.

The zinc anodes are screwed onto the base plate and the main cover of the pump. They act as sacrificial anodes and protect the aluminium parts of the pump from galvanic corrosion attacks.

Bauer Couplings

Bauer couplings are available for quick connection of the delivery hose. The couplings can be supplied in sizes from 2" to 8".

Series Connection

Two or more pumps can be connected in series for pumping against high heads. Special series connections are available. The series connections have a centre inlet for hose connection. It is recommended to space the pumps at equal head intervals in order to distribute counter pressure evenly along the line.

Bottom Suction Adaptor

With a standard pump the water level cannot be lowered below the diffuser centre inlet. On pump types P601 to P1001 the standard bottom plate may be replaced by a bottom suction adaptor, which feeds the water directly into the diffuser through a bottom intake with strainer.

A basement floor can be pumped practically dry with this adaptor.

SUBMERSIBLE SLUDGE

Sykes Electric Submersible Sludge Pumps are ideal for pumping sludge, water with a sludge content and contaminated liquids. Capacity ranges from delivering flows up to 30 L/s and heads up to 30M. These light, portable, hard wearing pumps are compact in design and simple to install. Like all Sykes pumps, you can be assured of long, trouble free performance.

Sykes also offer a full selection of control panels. Panels enable users to leave pumps unattended for long periods whilst ensuring safe operation, efficient running and wear reduction.

For pumps up to 11kW, PLC panels are used and these are available in 1 phase or 3 phase.

Larger pumps use soft start and Variable Frequency control panels to ensure smooth starting from the minimum amount of mains or generator power supply. This gives the user considerable fuel savings.

For specialist applications Variable Speed Drives, Dual and Multi Pump Panels are also available. Telemetry, High Level Alarms and Ultrasonic Level Controls can also be provided.

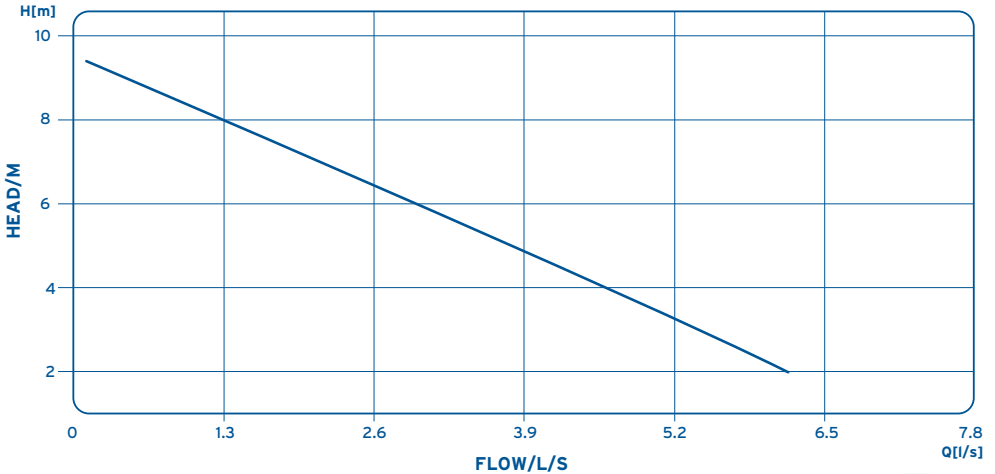
JS750 SV



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | JS 750 SV Automatic |
| Motor type (V): | 110 (1-Phase) - 50 Hz |
| Motor rating (Kw): | 0.75 |
| Max power input (Kw): | 1.0 |
| Running current: (Amps) | 9.0 |
| Max solids (mm): | 46 |
| Discharge Spigot: | 3" Bauer (80 mm) |
| Dimensions: (H x W) mm | 495 x 530 |
| Weight: (excl cable) Kg | 25.4 |
| Integral float control | |

Please see the pump
accessory section



SYKES PUMPS 

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**SUBMERSIBLE
SLUDGE**

JS750 SV

130

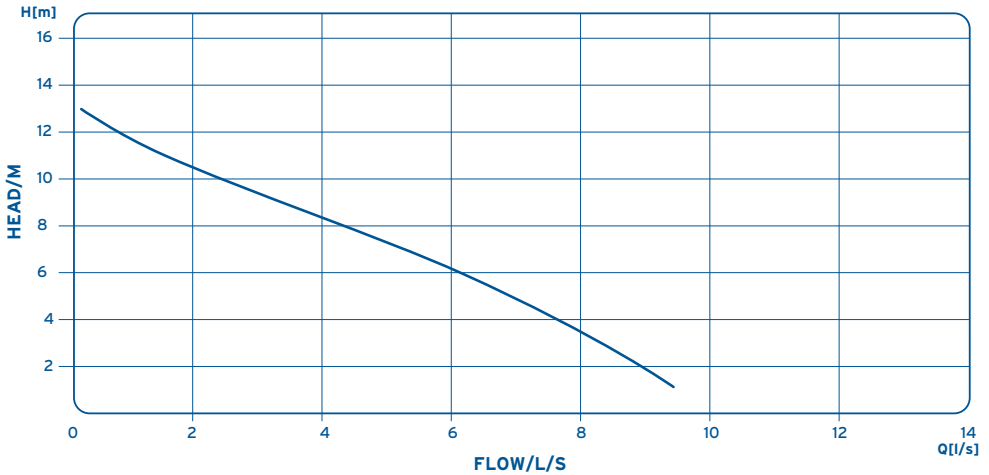
SP20



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | SP 20 |
| Motor type (V): | 415 (3-Phase) - 50 Hz |
| Motor rating (Kw): | 1.3 |
| Max power input (Kw): | 1.7 |
| Running current: (Amps) | 4.2 |
| Max solids (mm): | 40 |
| Discharge Spigot: | 3" Bauer (80 mm) |
| Dimensions: (H x W) mm | 700 x 320 |
| Weight: (excl cable) Kg | 29 |

Please see the pump
accessory section



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**SUBMERSIBLE
SLUDGE**

SP20

132

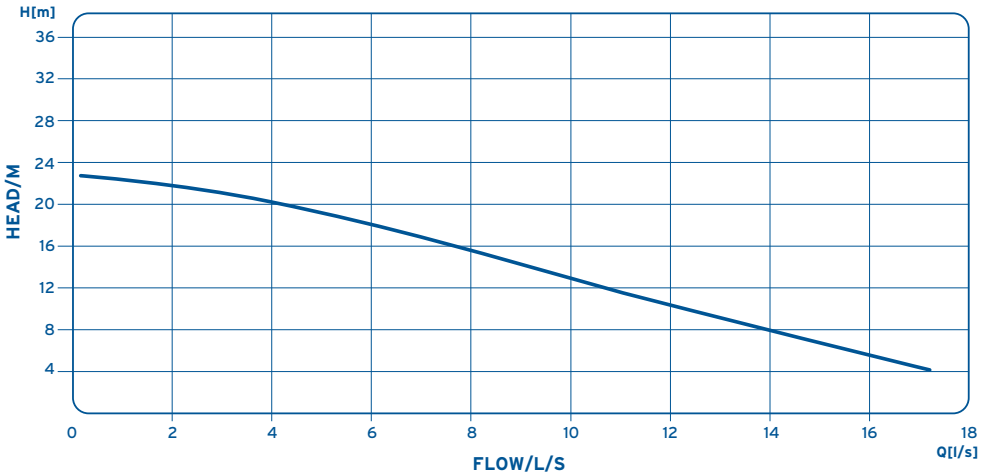
SP30



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | SP30 |
| Motor type (V): | 415 (3-Phase) - 50 Hz |
| Motor rating (Kw): | 3.3 |
| Max power input (Kw): | 3.9 |
| Running current: (Amps) | 6.8 |
| Max solids (mm): | 60 |
| Discharge Spigot: | 3" Bauer (80 mm) |
| Dimensions: (H x W) mm | 700 x 320 |
| Weight: (excl cable) Kg | 34 |

Please see the pump
accessory section



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**SUBMERSIBLE
SLUDGE**

SP30

134

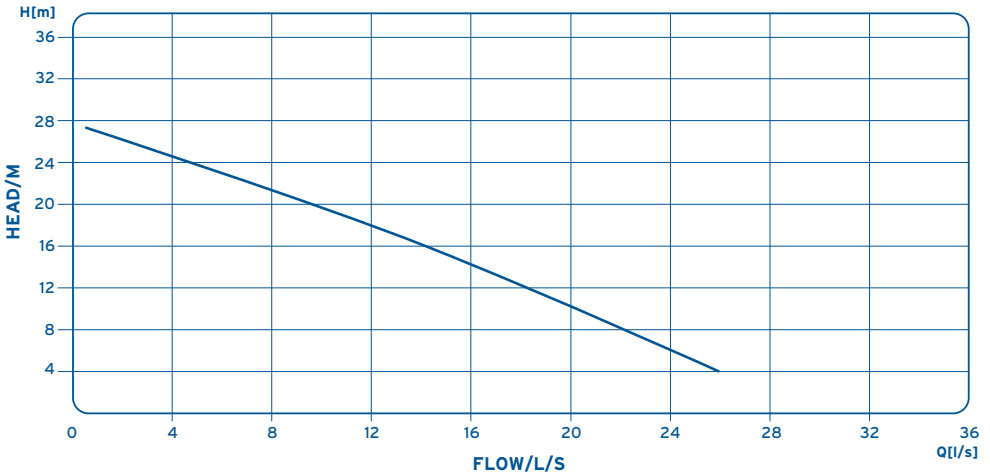
SP50



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | SP 50 |
| Motor type (V): | 415 (3-Phase) - 50 Hz |
| Motor rating (Kw): | 5.2 |
| Max power input (Kw): | 6.2 |
| Running current: (Amps) | 11 |
| Max solids (mm): | 65 |
| Discharge Spigot: | 3" Bauer (80 mm) |
| Dimensions: (H x W) mm | 760 x 410 |
| Weight: (excl cable) Kg | 52 |

Please see the pump
accessory section



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**SUBMERSIBLE
SLUDGE**

SP50

136

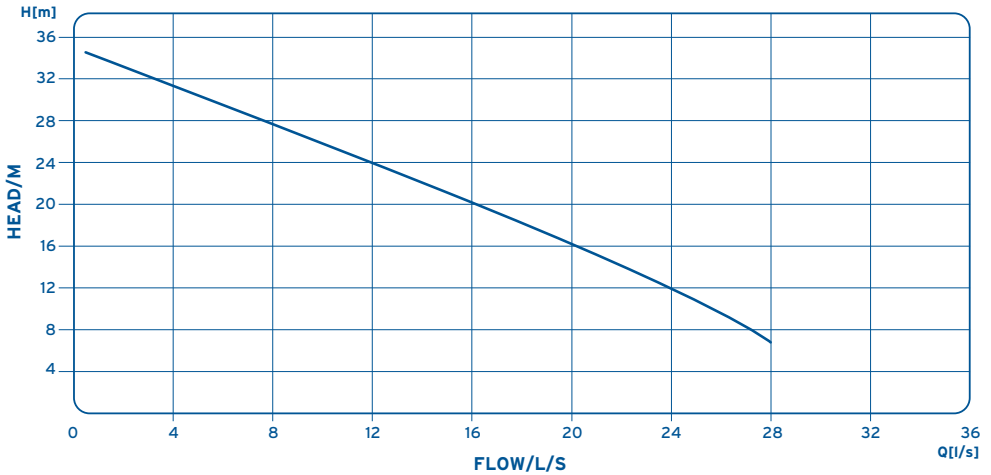
SP80



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | SP 80 |
| Motor type (V): | 415 (3-Phase) - 50 Hz |
| Motor rating (Kw): | 8.0 |
| Max power input (Kw): | 9.4 |
| Running current: (Amps) | 18 |
| Max solids (mm): | 65 |
| Discharge Spigot: | 4" Bauer (100 mm) |
| Dimensions: (H x W) mm | 810 x 560 |
| Weight: (excl cable) Kg | 67 |

Please see the pump
accessory section



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**SUBMERSIBLE
SLUDGE**

SP80

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SUBMERSIBLE WASTEWATER

The Sykes Electric Submersible Wastewater Range features Atex approved models fitted with cooling jackets, for use where submersible pumps are permanently installed on a guide rail system. They are ideal where existing installed pumps have failed and a temporary solution is required.

Sykes wastewater submersible pumps can be configured to fit other manufacturers installations, using adapters that connect directly to the pump volutes and utilise the existing guide rail system. Portable versions are also available in all models, for use in wastewater treatment plants for emergency or temporary works and planned projects.

Sykes Electric Submersible Wastewater Pumps, are smooth running and vibration free. Built from ductile cast iron, these hardwearing, precision machined pumps work to maximum hydraulic efficiency and due to their modular design, are inexpensive to maintain, and assure long trouble free performance. The range starts at 80mm with larger pumps available up to 300mm discharge, with a selection of motor sizes to complement the range.

The amount of material Sykes Submersible Wastewater Pumps can shift depends on the size of the pump, the power of the drive motor and the constitution of the material being pumped for each application. To ensure the correct type and model is selected, we recommend one of our specialist pump engineers visits to survey your requirement free of charge.

SYKES PUMPS 

SUBMERSIBLE WASTEWATER

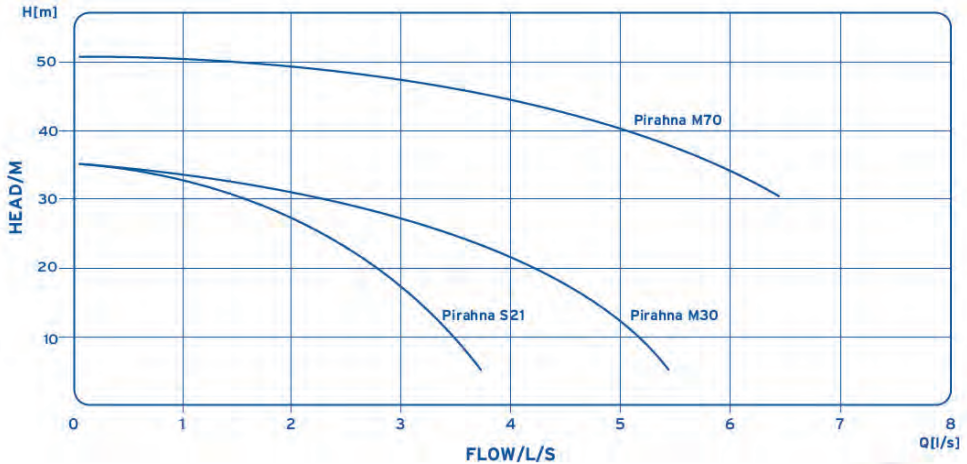
PIRANHA S21, M30 & M70



PUMP PERFORMANCE

| | | | |
|--------------------------------|-----------|-----------|-----------|
| Model: | S21 | M30 | M70 |
| Motor type (V): | 415 | 415 | 415 |
| Motor rating (Kw): | 2.1 | 3.0 | 7.0 |
| Max power input (Kw): | 2.8 | 3.4 | 7.7 |
| Running current: (Amps) | 4.8 | 5.6 | 13.5 |
| Discharge spigot: | 2" | 2" | 2" |
| Maximum solids (mm): | Macerator | Macerator | Macerator |
| EX Rated: | Yes/No | Yes/No | Yes/No |
| Cooling jacket: | N/A | N/A | N/A |
| Dimensions (mm): | | | |
| Guide rail option: | | | |
| Height | 460 | 586 | 653 |
| Maximum Width | 340 | 420 | 600 |
| Minimum Width | 310 | 425 | 425 |
| Free standing: | | | |
| Height | 460 | 586 | 653 |
| Maximum Width | 470 | 550 | 600 |
| Minimum Width | 310 | 425 | 425 |
| Weight (Kg): | 45 | 60 | 80 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

PIRANHA S21,
M30 & M70

142

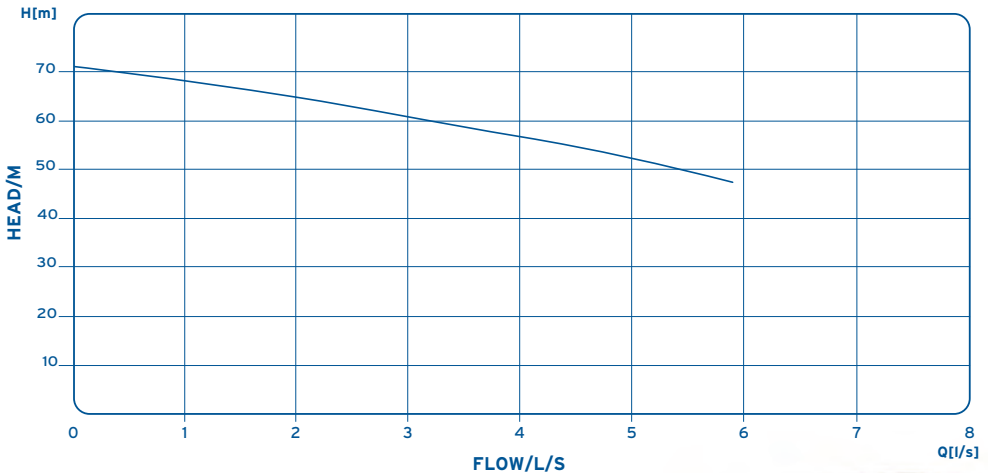
PIRANHA PE110



PUMP PERFORMANCE

| | |
|-------------------------|-----------|
| Model: | PE110 |
| Motor type (V): | 415 |
| Motor rating (Kw): | 11 |
| Max power input (Kw): | 12.1 |
| Running current: (Amps) | 20.1 |
| Discharge spigot: | 2" |
| Maximum solids (mm): | Macerator |
| EX Rated: | Yes |
| Cooling jacket: | N/A |
| Dimensions (mm): | |
| Guide rail option: | |
| Height | 844 |
| Maximum Width | 540 |
| Minimum Width | 333 |
| Free standing: | |
| Height | 870 |
| Maximum Width | 600 |
| Minimum Width | 425 |
| Weight (Kg): | 167 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

PIRANHA
PE110

144

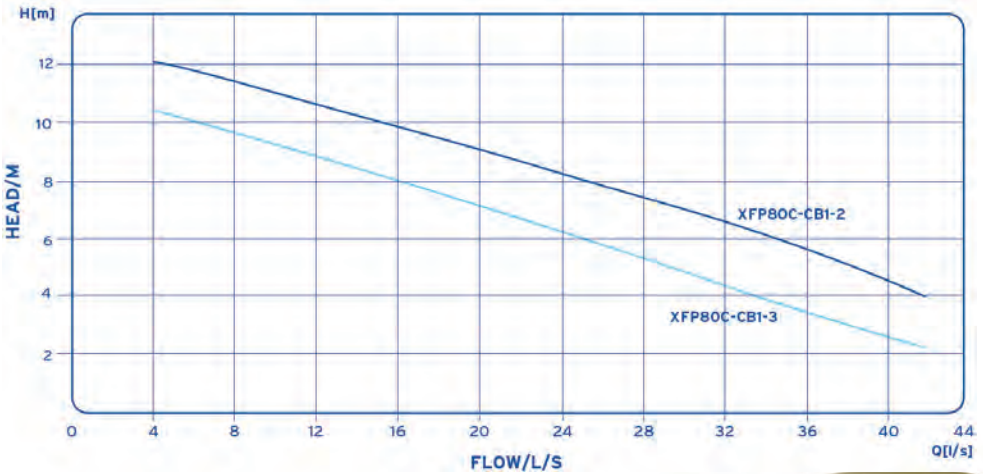
XFP80C CB1.2 & 1.3



PUMP PERFORMANCE

| Model: | XFP80C CB1.2 | XFP80C CB1.3 |
|-------------------------|--------------|--------------|
| Motor type (V): | 415 | 415 |
| Motor rating (Kw): | 2.9 | 2.2 |
| Max power input (Kw): | 3.5 | 2.5 |
| Running current: (Amps) | 6.4 | 4.6 |
| Discharge spigot: | 3" | 3" |
| Maximum solids (mm): | 75 | 75 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |
| Dimensions (mm): | | |
| Guide rail option: | | |
| Height | 700 | 700 |
| Maximum Width | 435 | 435 |
| Minimum Width | 312 | 312 |
| Free standing: | | |
| Height | 775 | 775 |
| Maximum Width | 695 | 695 |
| Minimum Width | 450 | 450 |
| Weight (Kg): | 100 | 95 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

XFP80C CB1.2
XFP80C CB1.3

146

AFPK0841



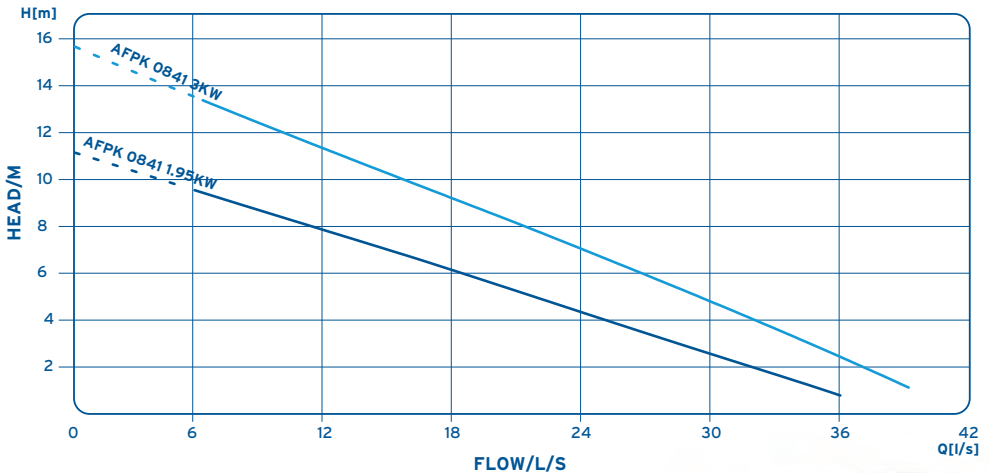
PUMP PERFORMANCE

| | | |
|---------------------------------|--------------------------|--------------------------|
| Model: | AFPK0841 | AFPK0841 |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 1.95 | 3 |
| Running current: (Amps) | 4.6 | 7.0 |
| Running speed: | 1450 rpm | 1450 rpm |
| Discharge port (mm): | 80 | 80 |
| Suction inlet port (mm): | 100 | 100 |
| Maximum solids (mm): | 80 | 80 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |

Dimensions (H x W) mm:

| | | |
|------------------------------|-----------|-----------|
| Guide rail option: | 655 x 455 | 655 x 455 |
| Weight (Kg): | 95 | 95 |
| Transportable option: | 795 x 675 | 795 x 675 |
| Weight (Kg): | 105 | 105 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK0841

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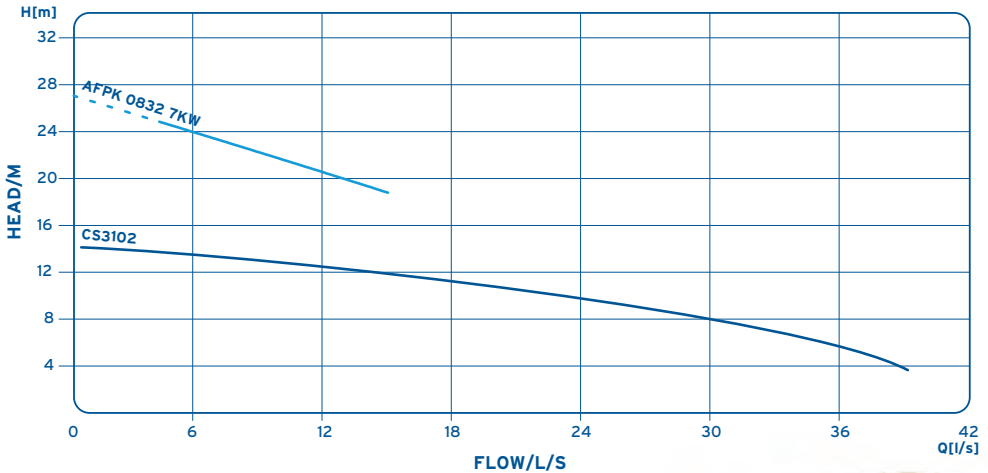
AFPK0832 & CS3102



PUMP PERFORMANCE

| | | |
|---------------------------------|--------------------------|--------------------------|
| Model: | AFPK0832 | CS3102-MT |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 7 | 3 |
| Running current: (Amps) | 13.6 | 6.7 |
| Running speed: | 2900 rpm | 1450rpm |
| Discharge port (mm): | 80 | 100 |
| Suction inlet port (mm): | 80 | 100 |
| Maximum solids (mm): | 80 | 76 |
| EX Rated: | Yes | No |
| Cooling jacket: | Yes | No |
| Dimensions (H x W) mm: | | |
| Guide rail option: | 700 x 425 | 600 x 465 |
| Weight (Kg): | 120 | 107 |
| Transportable option: | 870 x 650 | 720x 620 |
| Weight (Kg): | 139 | 131 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK0832
CS3102

150

AFPK 0842 & 0844



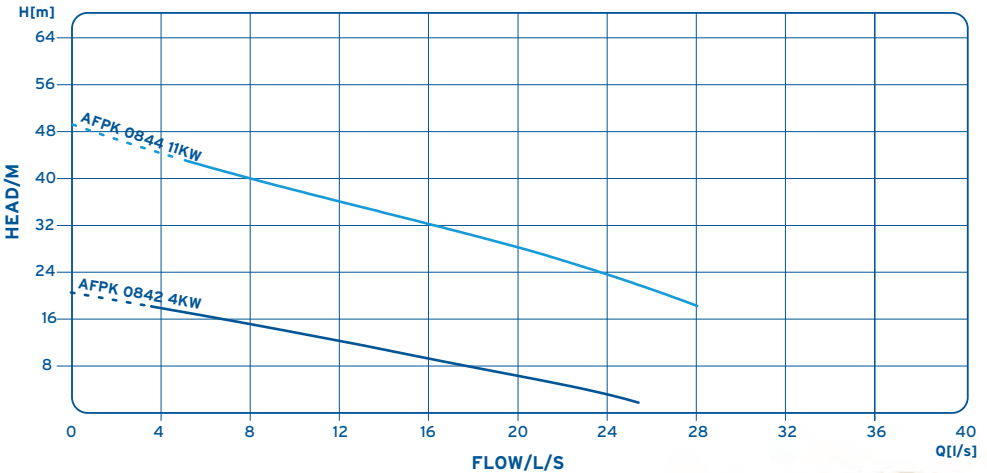
PUMP PERFORMANCE

| | | |
|---------------------------------|--------------------------|--------------------------|
| Model: | AFPK 0842 | AFPK 0844 |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 4 | 11 |
| Running current: (Amps) | 7.9 | 22.1 |
| Running speed: | 2900 rpm | 2900 rpm |
| Discharge port (mm): | 80 | 80 |
| Suction inlet port (mm): | 100 | 100 |
| Maximum solids (mm): | 50 | 45 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |

Dimensions (H x W) mm:

| | | |
|------------------------------|-----------|-----------|
| Guide rail option: | 655 x 455 | 740 x 375 |
| Weight (Kg): | 98 | 90 |
| Transportable option: | 795 x 675 | 915 x 775 |
| Weight (Kg): | 110 | 130 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK 0842
AFPK 0844

152

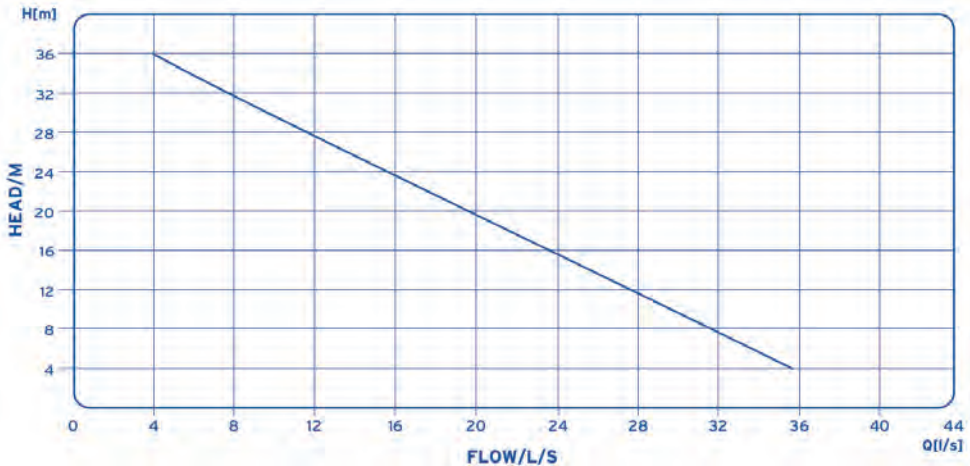
XFP80E CB1.3



PUMP PERFORMANCE

| | |
|-------------------------|--------------|
| Model: | XFP80E CB1.3 |
| Motor type (V): | 415 |
| Motor rating (Kw): | 11 |
| Max power input (Kw): | 12.1 |
| Running current: (Amps) | 20.1 |
| Discharge spigot: | 3" |
| Maximum solids (mm): | 45 |
| EX Rated: | Yes |
| Cooling jacket: | Yes |
| Dimensions (mm): | |
| Guide rail option: | |
| Height | 795 |
| Maximum Width | 420 |
| Minimum Width | 335 |
| Free standing: | |
| Height | 900 |
| Maximum Width | 690 |
| Minimum Width | 450 |
| Weight (Kg): | 175 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

XFP80E CB1.3

154

AFPK1042



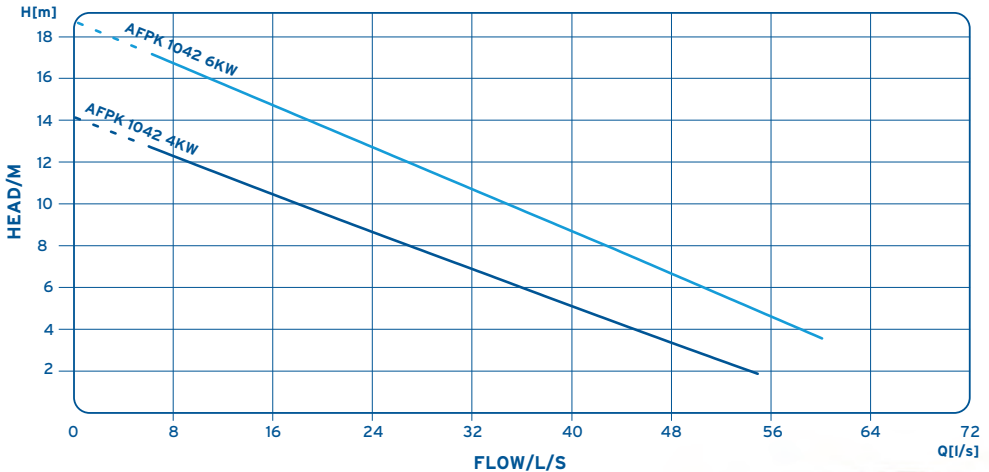
PUMP PERFORMANCE

| | | |
|---------------------------------|--------------------------|--------------------------|
| Model: | AFPK1042 | AFPK1042 |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 4 | 6 |
| Running current: (Amps) | 8.8 | 12.5 |
| Running speed: | 1450 rpm | 1450 rpm |
| Discharge port (mm): | 100 | 100 |
| Suction inlet port (mm): | 100 | 100 |
| Maximum solids (mm): | 100 | 100 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |

Dimensions (H x W) mm:

| | | |
|------------------------------|-----------|-----------|
| Guide rail option: | 735 x 455 | 735 x 455 |
| Weight (Kg): | 121 | 125 |
| Transportable option: | 870 x 750 | 870 x 750 |
| Weight (Kg): | 141 | 144 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK1042

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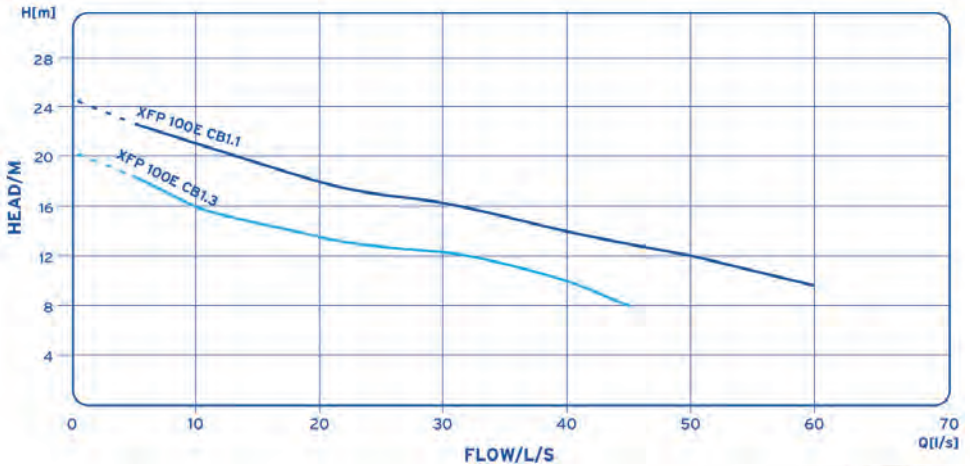
XFP100E CB1.1 & 1.3



PUMP PERFORMANCE

| Model: | XFP100E CB1.1 | XFP100E CB1.3 |
|-------------------------|---------------|---------------|
| Motor type (V): | 415 | 415 |
| Motor rating (Kw): | 9 | 6 |
| Max power input (Kw): | 9.9 | 6.7 |
| Running current: (Amps) | 18.1 | 13.6 |
| Discharge spigot: | 4" | 4" |
| Maximum solids (mm): | 80 | 80 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |
| Dimensions (mm): | | |
| Guide rail option: | | |
| Height | 835 | 765 |
| Maximum Width | 510 | 510 |
| Minimum Width | 385 | 385 |
| Free standing: | | |
| Height | 905 | 835 |
| Maximum Width | 835 | 835 |
| Minimum Width | 490 | 490 |
| Weight (Kg): | 190 | 180 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

XFP8100E, CB1.1
XFP8100E, CB1.3

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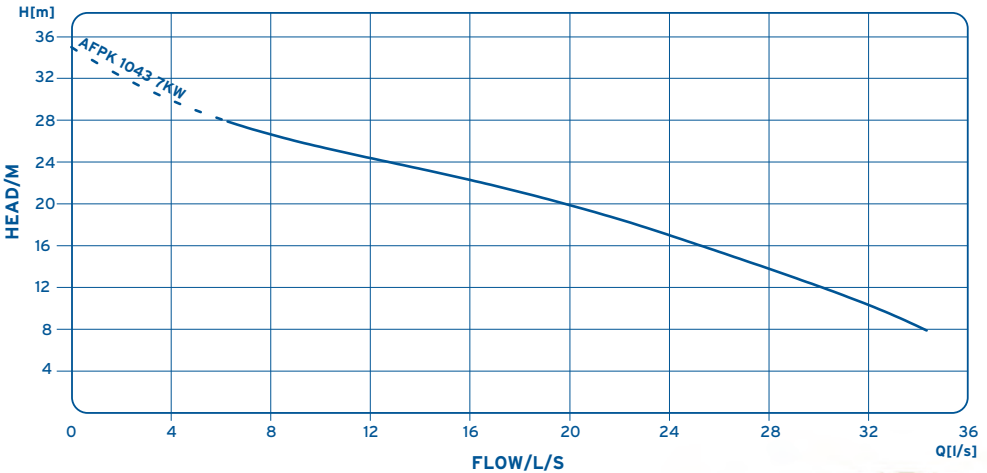
AFPK1043



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | AFPK1043 |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 7 |
| Running current: (Amps) | 13.6 |
| Running speed: | 2900 rpm |
| Discharge port (mm): | 100 |
| Suction inlet port (mm): | 100 |
| Maximum solids (mm): | 55 |
| EX Rated: | No |
| Cooling jacket: | Yes |
| Dimensions (H x W) mm: | |
| Guide rail option: | 725 x 455 |
| Weight (Kg): | 125 |
| Transportable option: | 855 x 720 |
| Weight (Kg): | 124 |

Please see the pump
accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK1043

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AFPK1045



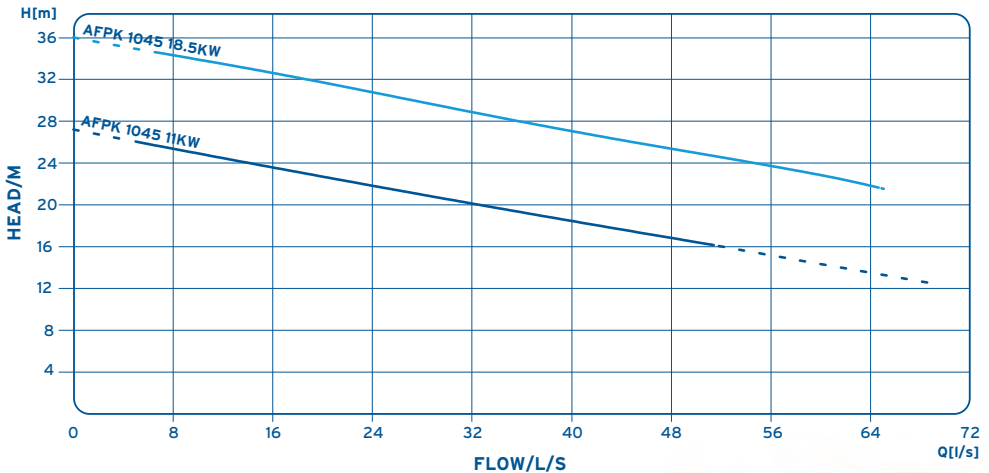
PUMP PERFORMANCE

| | | |
|------------------------------------|--------------------------|--------------------------|
| Model: | AFPK1045 | AFPK1045 |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 11 | 18.5 |
| Running current: (Amps) | 22.1 | 35.6 |
| Running speed: | 1450 rpm | 1450 rpm |
| Discharge port (mm): | 100 | 100 |
| Suction inlet port (mm): | 150 | 150 |
| Maximum solids (mm): | 100 | 100 |
| EX Rated: | No | No |
| Cooling jacket: | Yes | Yes |

Dimensions (H x W) mm:

| | | |
|------------------------------|------------|------------|
| Guide rail option: | 1145 x 550 | 1145 x 550 |
| Weight (Kg): | 310 | 320 |
| Transportable option: | 1295 x 940 | 1295 x 940 |
| Weight (Kg): | 330 | 340 |

Please see the pump
accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK1045

162

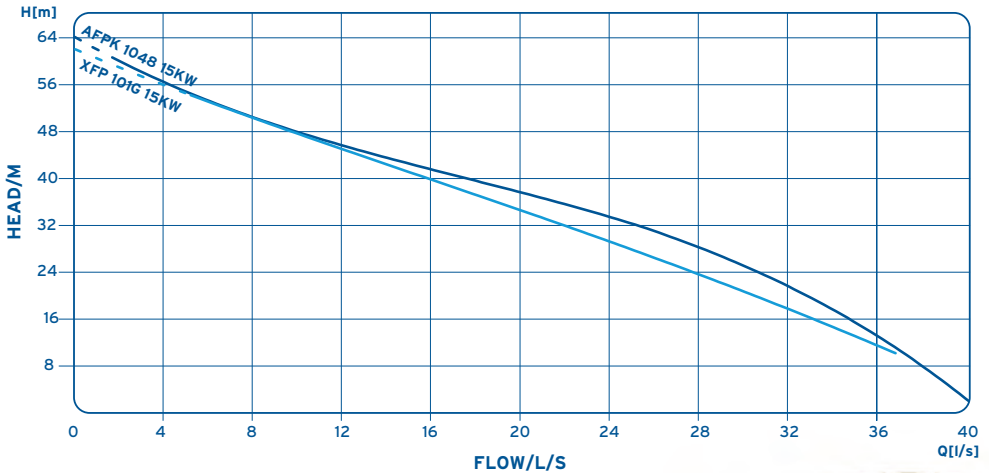
AFPK1048 & XFP101G



PUMP PERFORMANCE

| | | |
|---------------------------------|--------------------------|--------------------------|
| Model: | AFPK1048 | XFP101G |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 15 | 15 |
| Running current: (Amps) | 27.1 | 28 |
| Running speed: | 2900 rpm | 2900 rpm |
| Discharge port (mm): | 100 | 100 |
| Suction inlet port (mm): | 100 | 100 |
| Maximum solids (mm): | 50 | 50 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |
| Dimensions (H x W) mm: | | |
| Guide rail option: | 1080 x 445 | 1212 x 496 |
| Weight (Kg): | 265 | 285 |
| Transportable option: | 1250 x 800 | 1380 x 800 |
| Weight (Kg): | 285 | 310 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK1048
XFP101G

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AFPK1049 & AFP1049



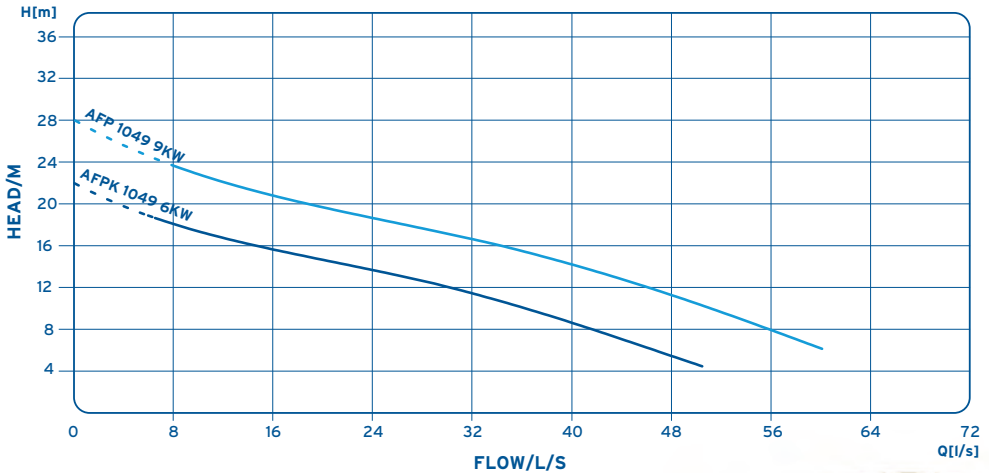
PUMP PERFORMANCE

| | | |
|---------------------------------|--------------------------|--------------------------|
| Model: | AFPK1049 | AFP1049 |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 6 | 9 |
| Running current: (Amps) | 12.5 | 19.4 |
| Running speed: | 1450 rpm | 1450 rpm |
| Discharge port (mm): | 100 | 100 |
| Suction inlet port (mm): | 100 | 100 |
| Maximum solids (mm): | 100 | 100 |
| EX Rated: | Yes | No |
| Cooling jacket: | No | No |

Dimensions (H x W) mm:

| | | |
|------------------------------|-----------|-----------|
| Guide rail option: | 720 x 475 | 770 x 475 |
| Weight (Kg): | 125 | 135 |
| Transportable option: | 890 x 855 | 940 x 855 |
| Weight (Kg): | 145 | 155 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK1049
AFP1049

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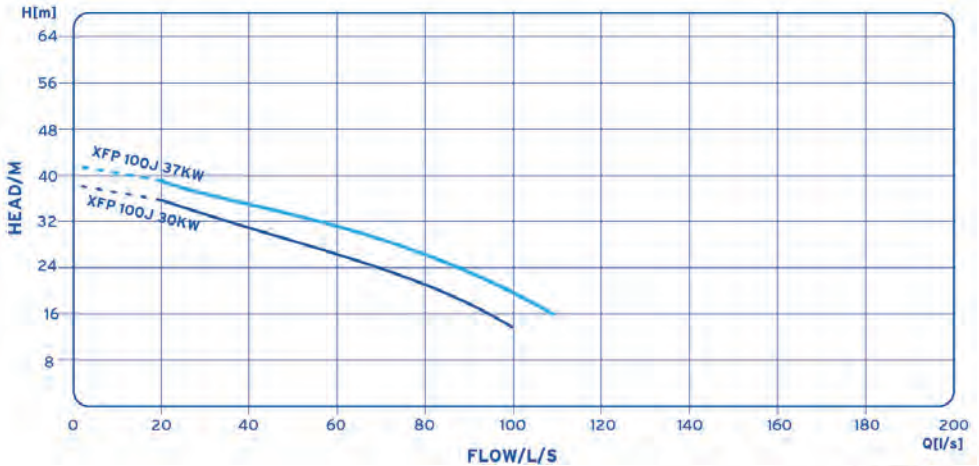
XFP100J CB2. 315 & 330



PUMP PERFORMANCE

| Model: | XFP100J 315 | XFP100J 330 |
|-------------------------|-------------|-------------|
| Motor type (V): | 415 | 415 |
| Motor rating (Kw): | 30 | 37 |
| Max power input (Kw): | 32.1 | 39.4 |
| Running current: (Amps) | 54.6 | 68.1 |
| Discharge spigot: | 4" | 4" |
| Maximum solids (mm): | 80 | 80 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |
| Dimensions (mm): | | |
| Guide rail option: | | |
| Height | 1405 | 1485 |
| Maximum Width | 690 | 690 |
| Minimum Width | 520 | 520 |
| Free standing: | | |
| Height | 1555 | 1635 |
| Maximum Width | 1000 | 1000 |
| Minimum Width | 600 | 600 |
| Weight (Kg): | 640 | 670 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

XFP100J CB2. 315
XFP100J CB2. 330

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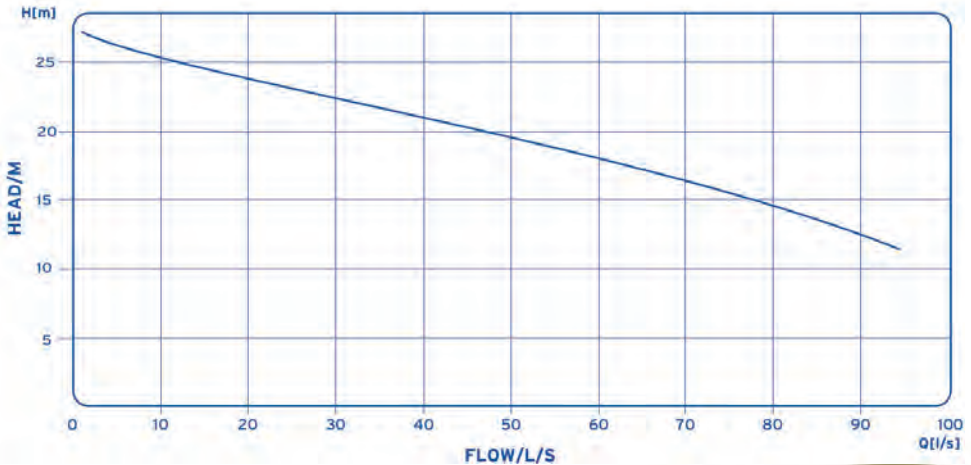
XFP150G CB1.3



PUMP PERFORMANCE

| | |
|-------------------------|---------------|
| Model: | XFP150G CB1.3 |
| Motor type (V): | 415 |
| Motor rating (Kw): | 16 |
| Max power input (Kw): | 17.4 |
| Running current: (Amps) | 33.1 |
| Discharge spigot: | 6" |
| Maximum solids (mm): | 100 |
| EX Rated: | Yes |
| Cooling jacket: | Yes |
| Dimensions (mm): | |
| Guide rail option: | |
| Height | 1300 |
| Maximum Width | 615 |
| Minimum Width | 495 |
| Free standing: | |
| Height | 1470 |
| Maximum Width | 1000 |
| Minimum Width | 630 |
| Weight (Kg): | 370 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

XFP150G CB1.3

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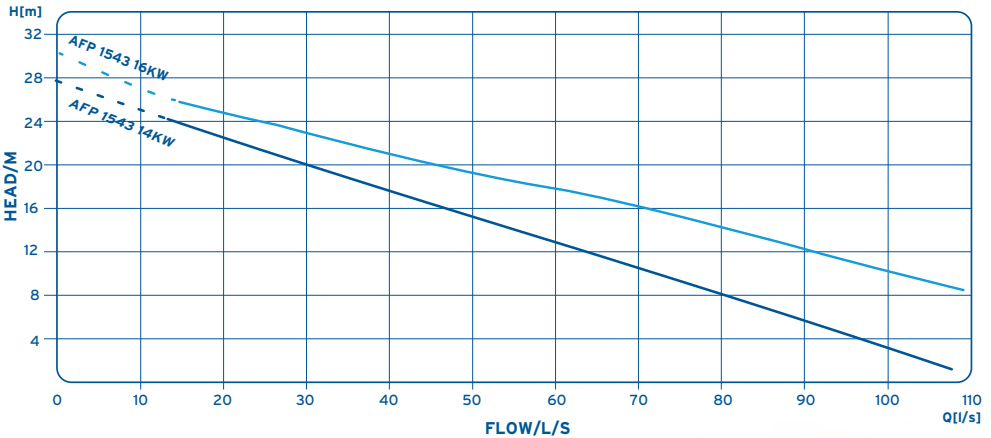
AFPK 1543



PUMP PERFORMANCE

| | | |
|------------------------------------|--------------------------|--------------------------|
| Model: | AFP1543 | AFP1543 |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 14 | 16 |
| Running current: (Amps) | 28.8 | 32 |
| Running speed: | 1450 rpm | 1450 rpm |
| Discharge port (mm): | 150 | 150 |
| Suction inlet port (mm): | 150 | 150 |
| Maximum solids (mm): | 100 | 100 |
| EX Rated: | Yes | Yes/No |
| Cooling jacket: | Yes | Yes/No |
| Dimensions (H x W) mm: | | |
| Guide rail option: | 1155 x 585 | 1155 x 585 |
| Weight (Kg): | 340 | 340 |
| Transportable option: | 1325 x 998 | 1325 x 998 |
| Weight (Kg): | 370 | 370 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK1543

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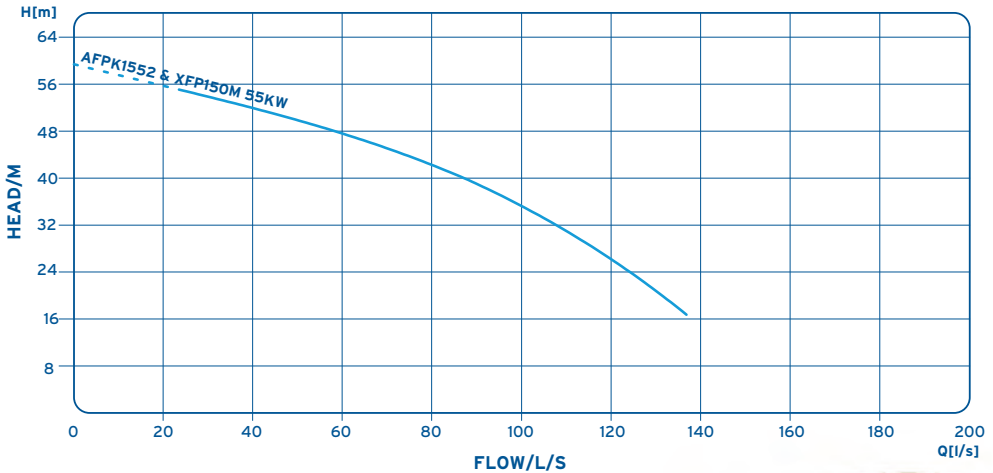
AFPK1552 & XFP150M CB2.



PUMP PERFORMANCE

| | | |
|----------------------------------|----------|--------------|
| Model: | AFPK1552 | XFP150M CB2. |
| Motor type (V): | 415 | 415 |
| Motor rating (Kw): | 55 | 55 |
| Max power input (Kw): | 58.1 | 58.1 |
| Running current: (Amps) | 94.4 | 94.1 |
| Discharge spigot: | 6" | 6" |
| Maximum solids (mm): | 77 X 52 | 77 X 52 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |
| Dimensions (H x W in mm): | | |
| Guide rail option: | | |
| Height | 1450 | 1740 |
| Maximum Width | 875 | 885 |
| Minimum Width | 705 | 710 |
| Free standing: | | |
| Height | 1650 | 1940 |
| Maximum Width | 1260 | 1265 |
| Minimum Width | 850 | 850 |
| Weight (Kg): | 995 | 1020 |

Please see the pump accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK1552
XFP150M.CB2.

174

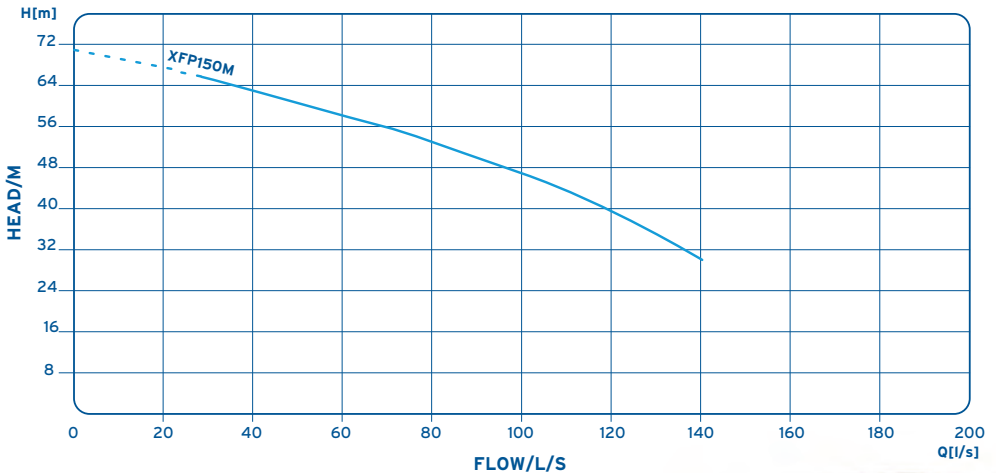
XFP150M CB2.450



PUMP PERFORMANCE

| | |
|-------------------------|-------------------|
| Model: | XFP150M CB2.450 |
| Motor type (V): | 415 |
| Motor rating (Kw): | 75 |
| Max Power input (Kw): | 79 |
| Running current: (Amps) | 131 |
| Discharge Spigot: | 6" |
| Maximum solids (mm): | 77 x 52 |
| EX Rated: | Yes |
| Cooling jacket: | Yes |
| Dimensions (H x W) mm: | |
| Guide rail option: | 1740 x 852 x 707 |
| Free Standing: | 1970 x 1265 x 800 |
| Weight (Kg): | 1065 |

Please see the pump
accessory section



SYKES PUMPS 

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**SUBMERSIBLE
WASTEWATER**

XFP150M
CB2.450

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AFPK1575



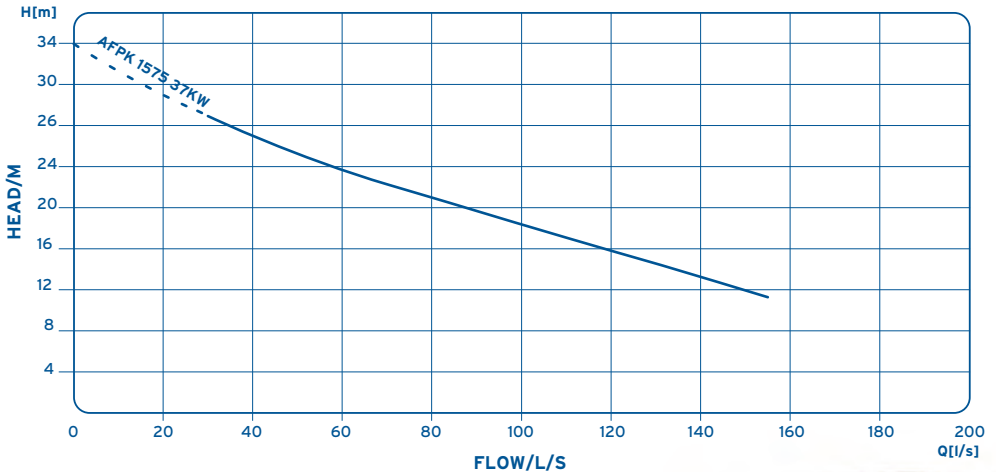
PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | AFPK1575 |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 37 |
| Running current: (Amps) | 69 |
| Running speed: | 1450 rpm |
| Discharge port (mm): | 150 |
| Suction inlet port (mm): | 150 |
| Maximum solids (mm): | 100 |
| EX Rated: | Yes |
| Cooling jacket: | Yes |

Dimensions (H x W) mm:

| | |
|------------------------------|-------------|
| Guide rail option: | 1330 x 670 |
| Weight (Kg): | 582 |
| Transportable option: | 1485 x 1020 |
| Weight (Kg): | 612 |

Please see the pump
accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK1575

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AFPK2045 & XFP200G



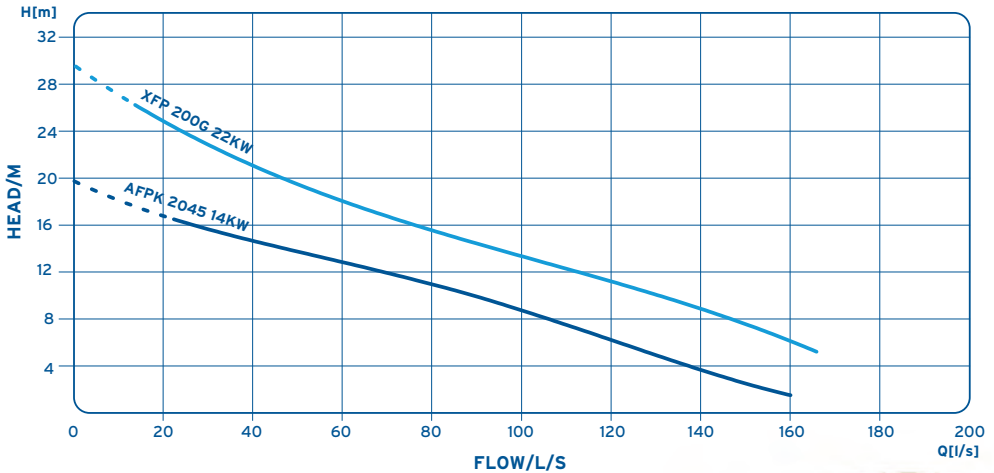
PUMP PERFORMANCE

| | | |
|---------------------------------|--------------------------|--------------------------|
| Model: | AFPK2045 | XFP200G |
| Motor type (V): | 415 (3-Phase) 50Hz | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 14 | 22 |
| Running current: (Amps) | 27.7 | 42.6 |
| Running speed: | 1450 rpm | 1450 rpm |
| Discharge port (mm): | 200 | 200 |
| Suction inlet port (mm): | 200 | 200 |
| Maximum solids (mm): | 125 x 100 | 125 |
| EX Rated: | Yes | Yes |
| Cooling jacket: | Yes | Yes |

Dimensions (H x W) mm:

| | | |
|------------------------------|-------------|-------------|
| Guide rail option: | 1195 x 690 | 1388 x 690 |
| Weight (Kg): | 375 | 397 |
| Transportable option: | 1390 x 1210 | 1541 x 1150 |
| Weight (Kg): | 425 | 460 |

Please see the pump accessory section



SYKES PUMPS

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**SUBMERSIBLE
WASTEWATER**

AFPK2045
XFP200G

180

AFPK2073



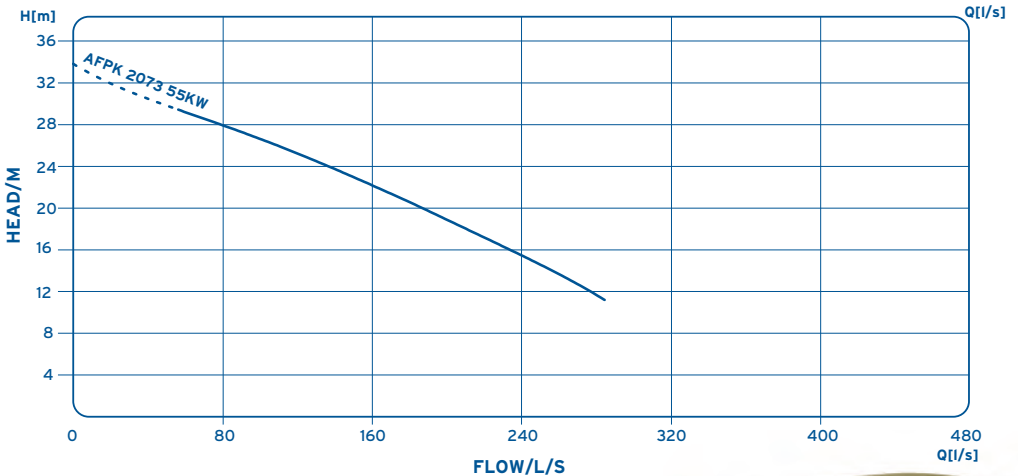
PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | AFPK2073 |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 55 |
| Running current: (Amps) | 94 |
| Running speed: | 1450 rpm |
| Discharge port (mm): | 200 |
| Suction inlet port (mm): | 200 |
| Maximum solids (mm): | 100 |
| EX Rated: | Yes |
| Cooling jacket: | Yes |

Dimensions (H x W) mm:

| | |
|------------------------------|-------------|
| Guide rail option: | 1490 x 775 |
| Weight (Kg): | 900 |
| Transportable option: | 1520 x 1235 |
| Weight (Kg): | 940 |

Please see the pump
accessory section



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**SUBMERSIBLE
WASTEWATER**

AFPK2073

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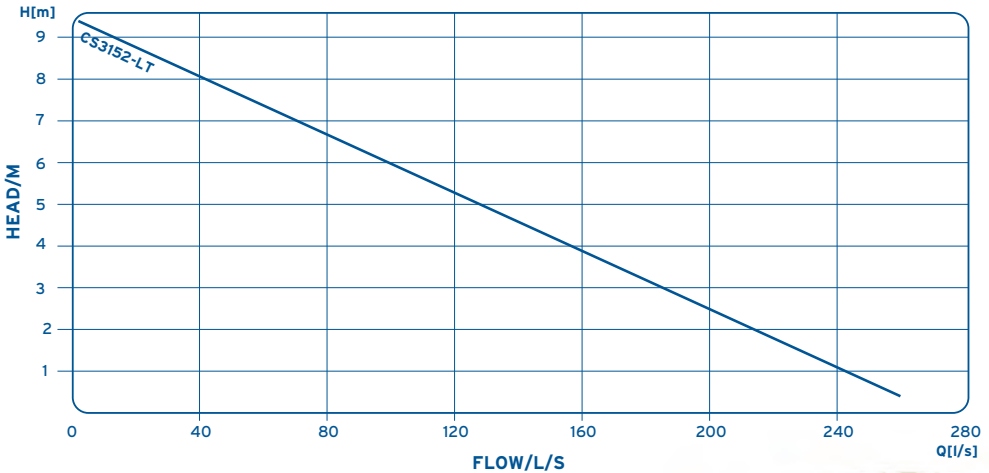
CS3152-LT



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | CS3152-LT |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 8.8 |
| Running current: (Amps) | 19 |
| Running speed: | 1450 rpm |
| Discharge port (mm): | 250 |
| Suction inlet port (mm): | 250 |
| Maximum solids (mm): | 102 x 102 |
| EX Rated: | No |
| Cooling jacket: | No |
| Dimensions (H x W) mm: | |
| Guide rail option: | 1055 x 765 |
| Weight (Kg): | 300 |
| Transportable option: | 1255 x 1315 |
| Weight (Kg): | 360 |

Please see the pump
accessory section



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**SUBMERSIBLE
WASTEWATER**

CS3152-LT

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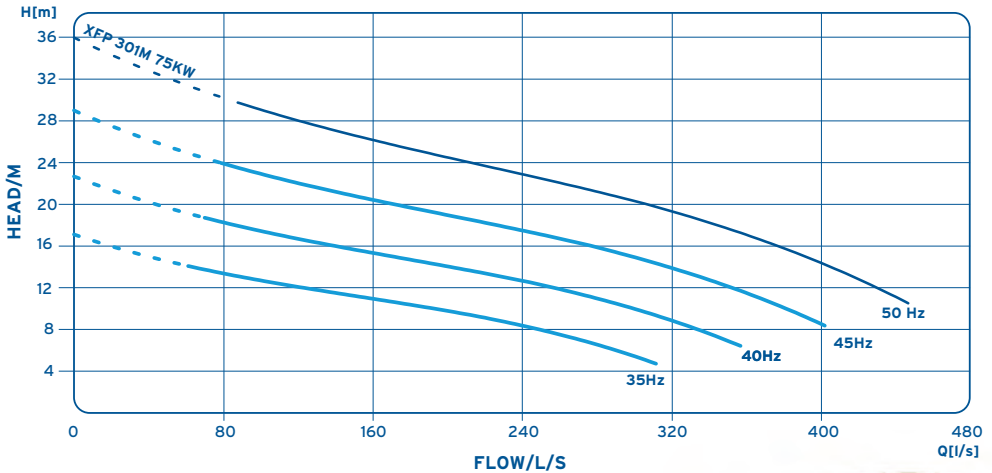
XFP301M



PUMP PERFORMANCE

| | |
|------------------------------------|--------------------------|
| Model: | XFP301M |
| Motor type (V): | 415 (3-Phase) 50Hz |
| Motor rating (Kw): | 75 |
| Running current: (Amps) | 140 |
| Running speed: | 980 rpm |
| Discharge port (mm): | 300 |
| Suction inlet port (mm): | 300 |
| Maximum solids (mm): | 127 x 110 |
| EX Rated: | Yes |
| Cooling jacket: | Yes |
| Dimensions (H x W) mm: | |
| Guide rail option: | 1955 x 1095 |
| Weight (Kg): | 1361 |
| Transportable option: | 2155 x 1850 x 910 |
| Weight (Kg): | 1470 |

Please see the pump
accessory section



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**SUBMERSIBLE
WASTEWATER**

XFP301M

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When a pump fails, it is likely the sump in which it is installed is full and thus restricts accessibility for repair works. Guide rail installation is typically used on pumping stations to facilitate removal of the pump without having to unbolt any flanges or directly see the application.

A pump is lifted up the guide rail - normally on a pre-installed chain - to the water's surface guaranteeing safe operation at all times. When reinstalling, the pump is simply lowered down the guide rail onto the fixed discharge bend at the bottom of the sump. The pump is locked into position by a lip on the guide claw, and this seals the discharge under the pump's own weight.

A large proportion of customers believe this configuration automatically ties them to the original manufacturer when temporary hires or replacements are sought. However, this is not the case. At Sykes Pumps we stock an expansive range of guide rail adaptors within our fleet to connect our units to those of any other manufacturer.

Made from hard-wearing ductile iron or galvanised steel, the brackets are durable enough to cope with the rigours of the pump hire market and are attached to pumps via simple bolted flange.

Being compatible with every pump manufacturer means with Sykes Pumps you can be assured that we will always have the correct fit on every project. Supported by a far-reaching national depot network and a genuine 24/7 service, clients can rely on us to provide guidance whenever the need surfaces.

CONTROL PANELS

Along with a comprehensive range of electric submersible pumps, Sykes also offer a full selection of control panels. Panels enable the user to leave pumps unattended for long periods whilst ensuring safety, efficiency and wear reduction on the pump.

For pumps of up to 11kw the PLC range of panels can be used (available in 1 or 3 phase). Built in a strong robust frame the panels include: DOL Starter, over-loads, run and tripped lamps, door interlocking isolator, RCCD, float switch level control and on-off-auto selector. Alternatively, Variable 1 to 15kw panels can be used.

Larger pumps use soft start control panels to ensure smooth starting from the minimum of mains or generator power supply. This gives the user considerable fuel savings. Robust free standing panels use a variable soft starter and include: over-loads, run and tripped lamps, door interlocking isolator, RCCD, float switch level control and on-off-auto selector. Alternatively, variable 18 to 56kW panels can be used.

For specialist applications, Variable Speed, Dual or Multi-pump panels are available. Telemetry, high level alarms and ultrasonic level controls can also be provided.



STANDARD PLC PANELS



For Pumps up to 11kw the PLC, DOL range of Panels can be used.

- These are available in 1 Phase or 3 phase
- Strong robust frame
- DOL Starter
- Overloads
- Run and Tripped lamps
- Door interlocking isolator
- RCCD Fitted as standard
- Float Switch Level Control
- On - OFF Auto selector
- Mains Terminal
- Plug and Play

For Specialist applications Dual or Multi Pump Panels are Available. Telemetry, High Level Alarms and Ultrasonic Level Controls can also be provided.

For Pumps which require a greater capacity our Range of soft start panels ensure smooth starting From the minimum mains or generator power supply.

- Robust free standing panel
- Variable Soft Starter
- Overloads
- Run and Tripped lamps
- Door interlocking isolator
- RCCD Fitted as standard
- Float Switch Level Control
- On - OFF Auto selector
- Mains Terminal
- Emergency stop pushbutton
- Removable cable gland plates

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**CONTROL
PANELS**

STANDARD PLC
PANELS

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VARIABLE DOL PANEL 1 - 15KW



EXTERNAL FEATURES

- Controls and protects from 1kw to 15kw
- For internal and external applications
- Lifting hook
- Rain canopy
- Socket for motor connection
- Sockets for float switch or ultrasonic level control
- 2 line lcd digital display
- Local / remote selector switch
- Emergency stop pushbutton
- Load break isolator
- Rust resistant panel
- Rigid free standing frame
- Plug and Play

INTERNAL FEATURES

- DOL starter unit
- Rotary kw overload selector
- Up to 16 overload settings
- Earth leakage protection
- Control terminals
- Motor terminals
- Float switch terminals
- Emergency stop facility
- Mains terminals
- Pre-drilled gland plate
- Motor overheat protection
- Inter panel interlock system
- Provision for telemetry
- Door close security system

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**CONTROL
PANELS**

VARIABLE DOL
PANEL 1-15KW

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VARIABLE SOFT START PANEL 18 - 56KW



EXTERNAL FEATURES

- Controls and protects from 18kw to 56kw
- For internal and external applications
- Lifting hook
- Rain canopy
- Float switch or ultrasonic level control
- 2 line lcd digital display
- Local / remote selector switch
- Emergency stop pushbutton
- Isolator
- Rust resistant panel
- Rigid free standing frame
- Plug and Play

INTERNAL FEATURES

- Soft start unit
- Main contactor
- Bypass contactor
- Earth leakage protection
- Control terminals
- Motor terminals
- Transformer
- Mains terminals
- Pre-drilled gland plate
- Motor overheat protection
- Provision for telemetry
- Emergency stop facility
- Door close security system

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**CONTROL
PANELS**

VARIABLE SOFT
START PANEL 18-56KW

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VARIABLE SPEED DRIVE PANEL



EXTERNAL FEATURES

- Padlockable 'door shut' overclasp
- Control and protect pumps 15kw to 75kw
- For internal and external applications
- Lifting hook
- Rain canopy
- Float switch control
- Isolator
- LCD digital display
- Potentiometer
- Emergency stop
- Running and tripped led
- Start / stop Pushbutton
- Rust resistant panel
- Rigid free standing frame
- Plug and Play

INTERNAL FEATURES

- Variable speed drive
- Built in fan and filter
- Main contactor
- Mains and motor terminals
- Control terminals
- Seal leak detection
- 4-20ma speed control (auto)
- Potentiometer speed control (hand)
- 'Door closed' security system
- Fuse protection for control circuit
- Provision for telemetry
- Provision for ultra-sonic input

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**CONTROL
PANELS**

VARIABLE SPEED
DRIVE PANEL

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AIR PUMPS

Sykes Pumps range of air operated double diaphragm pumps, are available with a combination of aluminium, cast iron, or stainless steel wetted parts and centre sections with a choice of elastomer option materials.

Options are also available for the specific transfer of aggressive liquids, pump sizes range from 50mm to 75mm.



BEAVER 50



PUMP PERFORMANCE

BEAVER 50: Max head: 89 m
Max flow: 8.5 l/s
Max solid: 6 mm

Weight (Kg): 41

Dimensions: 453 x 352 x 571
(L x W x H) mm

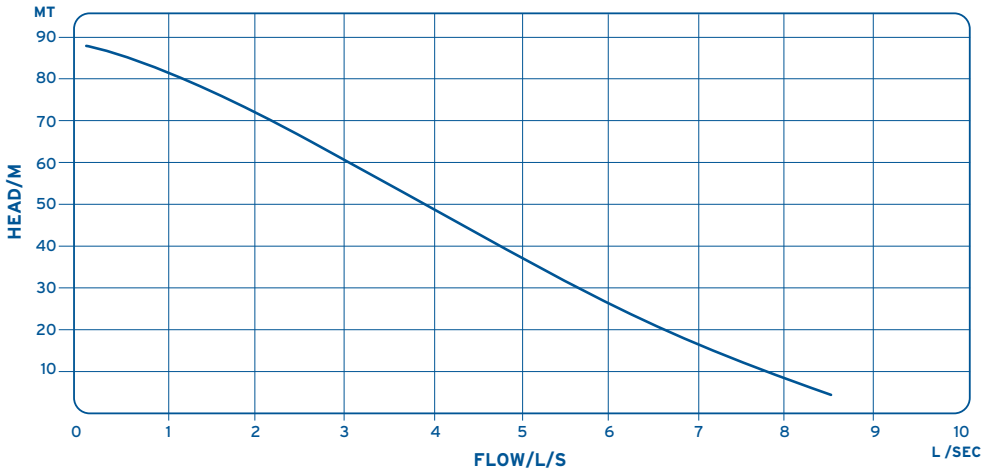
Pipe connections: 2" BSP

Max Air Inlet Pressure (psi): 125

Max Air Inlet Consumption: 140
(cfm)

Note: Side discharge and centre discharge available

Please see the pump accessory section



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AIR PUMPS

BEAVER 50

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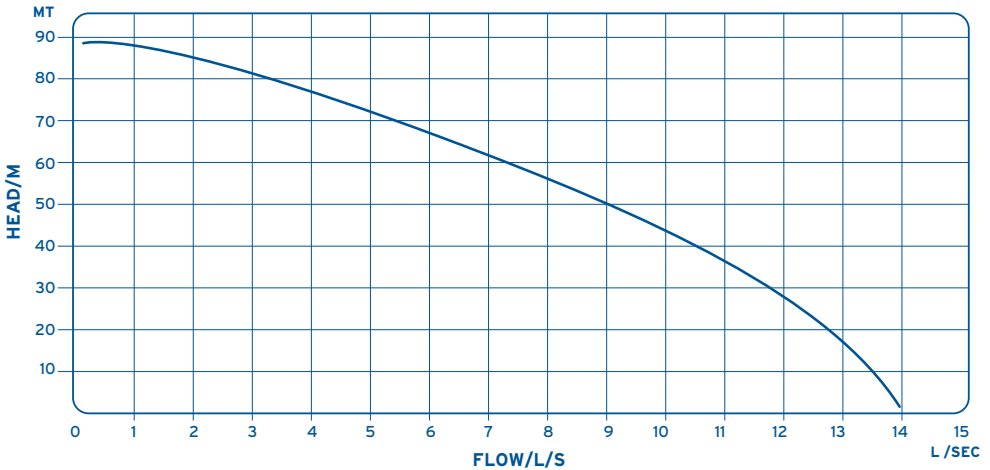
BEAVER 75



PUMP PERFORMANCE

| | |
|-------------------------------------------------|----------------------------------------------------|
| BEAVER 75: | Max head: 89 m |
| | Max flow: 13.5 l/s |
| | Max solid: 10 mm |
| Weight (Kg): | 83.7 |
| Dimensions: (L x W x H) mm | 575 x 460 x 746 |
| Motor: | Efficient air motor Automatic overspeed control |
| Pipe connections: | 3" BSP or 3" Bauer |
| Max Air Inlet Pressure (psi): | 125 |
| Max Air Inlet Consumption: (cfm) | 160 |
| Note: | Side discharge and centre discharge available |

Please see the pump
accessory section



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AIR PUMPS

BEAVER 75

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ACCESSORIES



The diversity of duties encountered by Sykes Pumps demands an equally versatile and durable range of hoses and accessories. The products shown on the following pages have been manufactured to conform to the rigorous standards established by Sykes Pumps engineering department and are readily available from the company's nationwide network of depots in the U.K.

LAYFLAT HOSE



SPECIFICATION

| | | | | | |
|----------------------------------------|-----|-----|-----|-----|-----|
| Diameter (mm): | 50 | 80 | 100 | 150 | 200 |
| Length (m): | Yes | Yes | Yes | Yes | Yes |
| 25 (m): | Yes | Yes | Yes | Yes | Yes |
| 50 (m): | Yes | Yes | Yes | Yes | Yes |
| 100(m): | Yes | Yes | Yes | Yes | No |
| Complete: (with bauer coupling) | Y/N | Y/N | Y/N | Y/N | Y/N |
| Pressure (Bar): | 3 | 3 | 3 | 2.5 | 2 |
| Weight (Kg): | | | | | |
| 25: | 6 | 9 | 11 | 23 | 32 |
| 50: | 12 | 18 | 22 | 46 | 63 |
| 100: | 24 | 34 | 45 | 96 | |
| Weight (Kg): c/w Fittings | | | | | |
| 25: | 7 | 13 | 16 | 34 | 47 |
| 50: | 13 | 22 | 27 | 57 | 78 |
| 100: | 25 | 38 | 50 | 107 | |

POLY PIPE LDPE



SPECIFICATION

| | | | | | |
|------------------------|----|----|-----|-----|-----|
| Diameter (mm): | 50 | 80 | 100 | 150 | 200 |
| Length (m): | 6 | 6 | 6 | 6 | 6 |
| Weight (Kg): | 5 | 16 | 20 | 28 | 55 |
| Pressure (Bar): | 5 | 5 | 4 | 4 | 4 |

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ACCESSORIES

GALVANISED STEEL PIPE



SPECIFICATION

| | | | | | |
|------------------------|----|-----|-----|-----|-----|
| Diameter (mm): | 80 | 100 | 150 | 200 | 300 |
| Length (m): | 6 | 6 | 6 | 6 | 3 |
| Weight (Kg): | 11 | 19 | 34 | 46 | 55 |
| Pressure (Bar): | 10 | 10 | 10 | 10 | 10 |

FLEXIBLE BAUER WIRE ARMoured SUCTION HOSE



SPECIFICATION

| | | | | | | |
|------------------------|----|----|-----|-----|-----|-----|
| Diameter (mm): | 50 | 80 | 100 | 150 | 200 | 300 |
| Length (m): | 6 | 6 | 6 | 3 | 3 | 3 |
| Weight (Kg): | 11 | 21 | 29 | 37 | 66 | 157 |
| Pressure (Bar): | 9 | 9 | 7 | 6 | 5 | 3.5 |

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ACCESSORIES

HIGH PRESSURE WIRE ARMoured FLANGED NP16 HOSE



SPECIFICATION

| | | | | | |
|-----------------|----|-----|-----|-----|-----|
| Diameter (mm): | 80 | 100 | 150 | 200 | 300 |
| Length (m): | 3 | 3 | 3 | 3 | 3 |
| Weight (Kg): | 22 | 30 | 61 | 103 | 189 |
| Pressure (Bar): | 16 | 16 | 16 | 16 | 16 |

ADDITIONAL



| | |
|-----------------------------|------------|
| Intakes: | 50 - 300mm |
| Flanged Bauer Fittings: | 50 - 300mm |
| Bauer Hosetails: | 50 - 300mm |
| Gate Valves: | 50 - 300mm |
| Non Return Valves: | 50 - 300mm |
| Flanged Reducers/Enlargers: | 50 - 300mm |
| Bauer Reducers/Enlargers: | 50 - 300mm |
| 'Y' Pieces: | 50 - 300mm |
| 'T' Pieces: | 50 - 300mm |
| 45° Bauer bends: | 50 - 300mm |
| 90° Bauer bends: | 50 - 300mm |

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ACCESSORIES



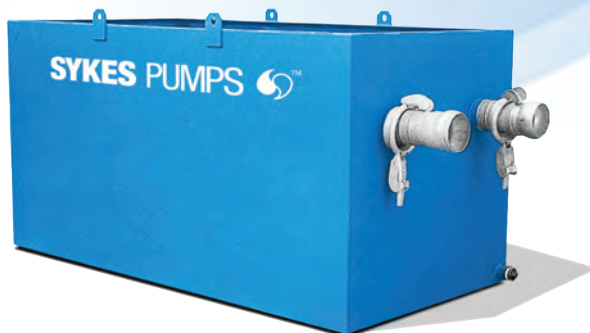
The safe transportation and storage of fuel, especially in environmentally sensitive areas, is an increasing concern for all. Sykes offers a purpose built range of fully bunded fuel tanks for hire, with a capacity range from 1000 - 3000 Litres. Fully compliant and tested to ADR and UN requirements for IBC (Intermediate Bulk Container) standards. All manufactured under ISO 9001 : 2000 requirements.

Sykes comprehensive fuelling and refuelling service for all installations is offered from our nationwide depot network.

SPECIFICATION

| | | | | |
|---------------------------|------|------|------|------|
| Capacity (litres): | 1000 | 2000 | 2800 | 3000 |
| Length (mm): | 1150 | 2300 | 2300 | 2300 |
| Width (mm): | 1150 | 1150 | 1550 | 1550 |
| Height (mm): | 1320 | 1320 | 1320 | 1320 |
| Weight Empty (Kg): | 514 | 865 | 900 | 992 |
| Weight Full (Kg): | 1377 | 2665 | 3420 | 3692 |

SETTLEMENT TANKS



SPECIFICATION

| | |
|---------------------------|------|
| Capacity (litres): | 3000 |
| Length (mm): | 2400 |
| Width (mm): | 1200 |
| Height (mm): | 1200 |
| Weight Empty (Kg): | 900 |

Sykes offer a range of settlement tanks to be used on the discharge side of any pumpset. The tanks are specially designed to prevent silt and fines being discharged into the water course or drains. Each tank is provided with a series of weir plates, Bauer quick release couplings, lifting eyes and drain plugs.

*Must not be lifted full.

SETTLEMENT TANK HD



SPECIFICATION

| | |
|---------------------------|------|
| Capacity (litres): | 3000 |
| Length (mm): | 2400 |
| Width (mm): | 1220 |
| Height (mm): | 1460 |
| Weight Empty (Kg): | 805 |

Sykes offer a range of settlement tanks to be used on the discharge side of any pumpset. The tanks are specially designed to prevent silt and fines being discharged into the water course or drains. Each tank is provided with a series of weir plates, Bauer quick release couplings, lifting eyes and drain plugs.

*Must not be lifted full.

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ACCESSORIES

SETTLEMENT TANKS

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SYKES PUMPS SILT AWAY

SPECIFICATION

| | |
|------------------------------------|-----------------------|
| Settlement area: | 10 m ³ |
| Water capacity: | 5000 litres |
| Weight empty : | 1196 kg |
| Dimensions (L x W x H): | 2320 x 2320 x 2015 mm |

The Silt Away unit has been specifically designed to separate suspended solids and sediment from water pumped from various ground sources, including construction sites, rivers and drains.

Pumped water passes through the Siltaway filters via a Lamella platebox, allowing solids contained in water to drop into a discharge chamber below.



ROAD RAMPS

SPECIFICATION

| | |
|-----------------------|------------------|
| Dimensions: | 3920 x 700 x 315 |
| (L x W x H) mm | |
| Weight (kg): | 157 |

Road ramps provide safe positioning of pipe work across roads and pathways, where vehicular access is required and disruption to the area needs to be kept to a minimum.

- *Suitable for flat roads only.
- *Max 16 Ton Vehicle weight.



SYKES PUMPS 

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ACCESSORIES

SILT AWAY
ROAD RAMPS

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INTERCEPTOR DRIP TRAYS

SPECIFICATION

| | |
|--------------------------------------|-------------------|
| Dimensions: (L x W x H) mm | 1525 x 2440 x 303 |
| Capacity: | 860 litres |
| Compatible pumps: | 2" up to 6" |
| Weight dry (kg): | 280 |



Interceptor drip trays can be provided for all pumps to avoid environmental pollution due to fuel or oil spillage when refuelling or maintaining the pumpset.

Even if the pump has a built in drip tray an additional full length tray gives extra protection. Environmental authorities would insist on using interceptor drip trays whilst working close to waterways or when there is a risk of ground water pollution.

This simple yet highly effective design which negates the need for filters or chemicals, giving you instant environmental protection.



VENTURI



Sykes Venturi aerators can be supplied in either diesel or electric options and are easily installed, directly on to submersible pumps and discharge pipework, to aid aeration and mixing, for the water industry. They are also useful when coupled to a Sykes diesel driven pump to oxygenate fishing lakes that have succumbed to adverse weather conditions or pollution.

SYKES PUMPS 

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ACCESSORIES

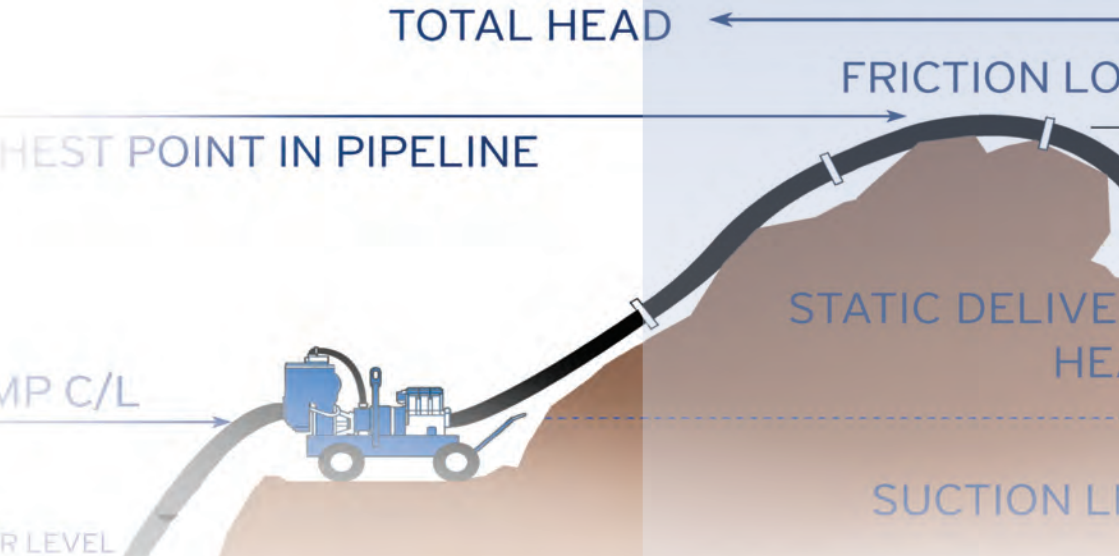
DRIP TRAYS
VENTURI

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INFORMATION

The following pages have been prepared as an easy reference guide to other useful supporting information that may not have been covered earlier in this document.

Whilst every care is taken to see that the information given in this document is correct and up to date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded.



FLANGE SIZES

Imperial Flanges BS10 in Inches

| Nominal Bore | Table | Flange Diameter | P.C.D | Bolt Dimensions | Number of Holes | Flange Thickness |
|--------------|-------|-----------------|-------|-----------------|-----------------|------------------|
| 1 | D | 4 ½ | 3 ¼ | 1 x ½ | 4 | ⅜ |
| 1 | E | 4 ½ | 3 ¼ | 1 ¼ x ½ | 4 | ⅜ |
| 1½ | D | 5 ¼ | 3 ⅞ | 1 ¼ x ½ | 4 | ¼ |
| 1½ | E | 5 ¼ | 3 ⅞ | 1 ½ x ½ | 4 | 11/32 |
| 2 | D | 6 | 4 ½ | 1 ½ x ⅝ | 4 | ⅝ |
| 2 | E | 6 | 4 ½ | 1 ¾ x ⅝ | 4 | ⅜ |
| 3 | D | 7 ¼ | 5 ¾ | 1 ¾ x ⅝ | 4 | ⅜ |
| 3 | E | 7 ¼ | 5 ¾ | 1 ¾ x ⅝ | 4 | 7/16 |
| 4 | D | 8 ½ | 7 | 1 ¾ x ⅝ | 4 | ⅜ |
| 4 | E | 8 ½ | 7 | 2 x ⅝ | 8 | ½ |
| 6 | D | 11 | 9 ¼ | 2 x ⅝ | 8 | ½ |
| 6 | E | 11 | 9 ¼ | 2 ½ x ¾ | 8 | 11/16 |
| 8 | D | 13 ¼ | 11 ½ | 2 x ⅝ | 8 | ½ |
| 8 | E | 13 ¼ | 11 ½ | 2 ½ x ¾ | 8 | ¾ |
| 10 | D | 16 | 14 | 2 ½ x ¾ | 8 | ⅝ |
| 10 | E | 16 | 14 | 2 ¾ x ¾ | 12 | 7/8 |
| 12 | D | 18 | 16 | 2 ½ x ¾ | 12 | ¾ |
| 12 | E | 18 | 16 | 3 ¼ x ¾ | 12 | 1 |

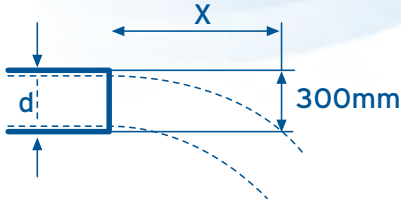
Metric Flanges BS4504 in Millimeters

| Nominal Bore | NP | Flange Diameter | P.C.D | Bolt Dimensions | Number of Holes | Flange Thickness |
|--------------|----|-----------------|-------|-----------------|-----------------|------------------|
| 25 | 10 | 115 | 85 | 12 x 50 | 4 | 16 |
| 25 | 16 | 115 | 85 | 12 x 50 | 4 | 16 |
| 40 | 10 | 150 | 110 | 16 x 60 | 4 | 16 |
| 40 | 16 | 150 | 110 | 16 x 60 | 4 | 16 |
| 50 | 10 | 165 | 125 | 16 x 60 | 4 | 18 |
| 50 | 16 | 165 | 125 | 16 x 60 | 4 | 18 |
| 80 | 10 | 200 | 160 | 16 x 65 | 8 | 20 |
| 80 | 16 | 200 | 160 | 16 x 65 | 8 | 20 |
| 100 | 10 | 220 | 180 | 16 x 70 | 8 | 20 |
| 100 | 16 | 220 | 180 | 16 x 70 | 8 | 20 |
| 150 | 10 | 285 | 240 | 20 x 70 | 8 | 22 |
| 150 | 16 | 285 | 240 | 20 x 70 | 8 | 22 |
| 200 | 10 | 340 | 295 | 20 x 80 | 8 | 24 |
| 200 | 16 | 340 | 295 | 20 x 90 | 12 | 24 |
| 250 | 10 | 395 | 350 | 20 x 80 | 12 | 26 |
| 250 | 16 | 405 | 355 | 24 x 90 | 12 | 26 |
| 300 | 10 | 445 | 400 | 20 x 80 | 12 | 26 |
| 300 | 16 | 460 | 410 | 24 x 90 | 12 | 28 |

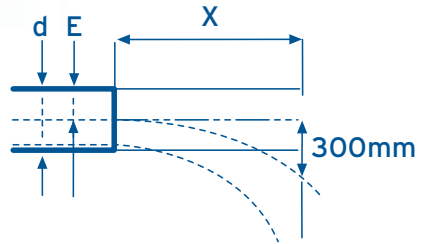
APPROXIMATE DISCHARGE FROM PIPES

How to approximate L/s flow from pipe by measuring "X"

Full Pipe



Partially Full Pipe



Formulae

Divide "E" by "d" for factor.

Multiply flow for full pipe of "d" diameter (Table 1) by % from Table 2.

E - Measure of empty portion of pipe

d - Measure of inside diameter of full pipe

Flow = L/s

Table 1
Pipe Diameter

| Horizontal Distance (X) | 50 | 70 | 100 | 150 | 200 | 250 | 300 |
|-------------------------|-----|------|------|------|------|-------|-------|
| 300 | 2.6 | 5.7 | 9.5 | 22.2 | 38.5 | 60.5 | 87.0 |
| 350 | 3.0 | 6.6 | 11.5 | 25.8 | 44.9 | 70.7 | 101.0 |
| 400 | 3.5 | 7.5 | 13.0 | 29.6 | 51.3 | 80.8 | 116.0 |
| 450 | 3.9 | 8.5 | 14.6 | 33.3 | 57.7 | 90.9 | 128.0 |
| 500 | 4.3 | 9.5 | 16.3 | 36.4 | 64.2 | 101.0 | 145.0 |
| 550 | 4.7 | 10.4 | 17.9 | 40.1 | 70.6 | 111.0 | 159.0 |
| 600 | 5.2 | 11.4 | 19.5 | 44.5 | 77.1 | 121.0 | 174.0 |
| 650 | 5.6 | 12.3 | 21.2 | 48.1 | 83.4 | 131.0 | 188.0 |
| 700 | 6.1 | 13.3 | 22.8 | 51.8 | 89.8 | 141.0 | 202.0 |
| 750 | 6.4 | 14.2 | 24.4 | 55.5 | 96.4 | 151.0 | 215.0 |

Table 2
Flow from partially filled pipes

| % | Factor | % | Factor |
|----|--------|-----|--------|
| 10 | 0.95 | 50 | 0.50 |
| 20 | 0.88 | 60 | 0.38 |
| 25 | 0.81 | 65 | 0.38 |
| 30 | 0.75 | 70 | 0.25 |
| 35 | 0.69 | 80 | 0.14 |
| 40 | 0.63 | 90 | 0.05 |
| 45 | 0.58 | 100 | 0.00 |

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INFORMATION

APPROXIMATE
DISCHARGE FROM PIPES

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FRICION LOSS

Losses in m/100 or ft/100

| IGPM | l/s | 2" 50mm | 3" 80mm | 4" 100mm | 6" 150mm | 8" 200mm | 10" 250mm | 12" 300mm | m ³ /hr |
|------|-----|------------|------------|-------------|-------------|-------------|--------------|--------------|--------------------|
| 50 | 4 | 10 | 1.4 | 0.5 | | | | | 14 |
| 75 | 6 | 20 | 3 | 0.8 | | | | | 20 |
| 100 | 8 | 35 | 5 | 1.3 | | | | | 27 |
| 150 | 11 | | 12 | 2.4 | | | | | 41 |
| 200 | 15 | | 18 | 4.5 | 0.6 | | | | 55 |
| 300 | 23 | | 40 | 10 | 1.2 | 0.4 | | | 82 |
| 400 | 30 | | | 18 | 2.2 | 0.7 | | | 109 |
| 500 | 38 | | | 28 | 3.5 | 1.1 | 0.3 | | 137 |
| 600 | 45 | | | 38 | 4.5 | 1.5 | 0.5 | | 164 |
| 700 | 53 | | | | 6.5 | 2 | 0.7 | | 191 |
| 800 | 61 | | | | 8 | 2.7 | 0.8 | | 219 |
| 900 | 68 | | | | 10 | 3.4 | 1 | 0.4 | 246 |
| 1000 | 76 | | | | 13 | 4 | 1.4 | 0.5 | 273 |
| 1200 | 91 | | | | 18 | 6 | 2 | 0.8 | 328 |
| 1400 | 106 | | | | 28 | 8 | 3 | 1 | 383 |
| 1600 | 121 | | | | | 11 | 4 | 1.5 | 437 |
| 1800 | 136 | | | | | 14 | 4.5 | 2 | 492 |
| 2000 | 152 | | | | | 17 | 5 | 2.5 | 546 |
| 2500 | 189 | | | | | 25 | 9 | 4 | 683 |
| 3000 | 227 | | | | | | 12 | 5 | 820 |
| 4000 | 303 | | | | | | 21 | 8 | 1093 |
| 5000 | 379 | | | | | | | 13 | 1366 |

Friction Loss

In general, add 10% for sewage, and 2% per year for age of pipe.

Loss of head due to fittings, expressed in pipe diameters, giving an equivalent length of straight pipe.

| | |
|-----------------------------|-----------------------------|
| Bell mouth = 12 | Footvalve and strainer = 75 |
| Sluice valve = 6 | Light non return valve = 36 |
| Heavy non return valve = 60 | Elbow = 75 |
| Short radius bend = 30 | Long radius bend = 18 |
| 45 degree bend = 15 | Equal tee = 90 |
| Radial tee = 45 | Taper piece = 45 |

Effect of change in speed on pump performance.

There exist certain relationships which allow the performance of a centrifugal pump to be predicted for another speed when the performance for a given speed is known.

When the speed of a centrifugal pump changes, the throughput at any given point varies directly to the speed, the head varies to the square of the speed and power varies to the cube of the speed. These relations are termed the affinity laws and can be expressed as follows.

$$Q \propto N \text{ where } Q = \text{throughput} \quad H \propto N^2 \text{ where } H = \text{head}$$

$$P \propto N^3 \text{ where } P = \text{absorbed power} \quad N = \text{speed rpm}$$

Then for a given change in speed, taking suffix 1 as relating to known performance, and suffix 2 as the performance which is required we have:

$$\frac{Q_2}{Q_1} = \frac{N_2}{N_1} \quad \text{therefore} \quad Q_2 = \frac{Q_1 \times N_2}{N_1}$$

and $\frac{H_2}{H_1} = \left(\frac{N_2}{N_1}\right)^2 \quad \text{therefore} \quad H_2 = H_1 \left(\frac{N_2}{N_1}\right)^2$

and $\frac{P_2}{P_1} = \left(\frac{N_2}{N_1}\right)^3 \quad \text{therefore} \quad P_2 = P_1 \left(\frac{N_2}{N_1}\right)^3$

Effect of change in diameter of impeller.

The performance of a centrifugal pump can be varied by reducing the impeller diameter. The effect of impeller reduction has the following relationships, when the performance of a full diameter impeller is known.

$$Q \propto D \text{ where } Q = \text{throughput} \quad H \propto D^2 \text{ where } H = \text{head}$$

$$P \propto D^3 \text{ where } P = \text{absorbed power} \quad D = \text{impeller}$$

therefore $\frac{Q_2}{Q_1} = \frac{D_2}{D_1} \quad \text{therefore} \quad Q_2 = \frac{Q_1 \times D_2}{D_1}$

and $\frac{H_2}{H_1} = \left(\frac{D_2}{D_1}\right)^2 \quad \text{therefore} \quad H_2 = H_1 \left(\frac{D_2}{D_1}\right)^2$

and $\frac{P_2}{P_1} = \left(\frac{D_2}{D_1}\right)^3 \quad \text{therefore} \quad P_2 = P_1 \left(\frac{D_2}{D_1}\right)^3$

Standard electrical supplies in the UK

110 volt single phase (110/1/50) standard voltage found on construction sites for small tools and portable appliances usually only available up to 32 Amp.

415 volt three phase (415/3/50) standard voltage on site and within industry for the larger equipment that is not portable.

240 volt single phase (240/1/50) standard domestic voltage used for household appliances, retail and light industrial.

Power = kilowatts (kW)

Current = Amps (A)

Voltage = Volts (V)

Single Phase

$$\text{kW} = \frac{\text{Volts} \times \text{Amps} \times \text{Eff} \%}{1000 \times 100}$$

Three Phase

$$\text{kW} = \frac{\text{Volts} \times \text{Amps} \times \text{Eff} \% \times \text{PF} \times 1.73}{1000 \times 100}$$

Volt drop

The amount of voltage lost when using long cable lengths, causes cable to get hot and become unsafe. The motor will also draw excessive current causing overloads to trip and motor to overheat the maximum permissible voltage drop over a length of cable is 2.5%.

To calculate volt drop use table on page 188 or use the following calculation, based on copper cable.

$$\text{Voltage drop} = \frac{\text{Length of cable (m)} \times 0.018 \text{ (resist)} \times \text{Amps} \times 1.73}{\text{Cross sectional area of cable (mm}^2\text{)}}$$

The above will give the voltage lost in cable length (v) divide by the supply voltage will give the % drop which must not exceed 2.5%

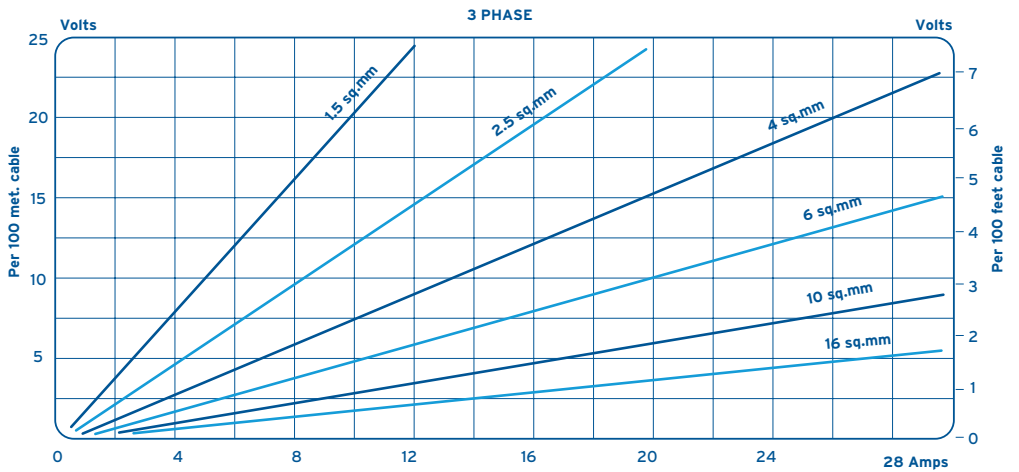
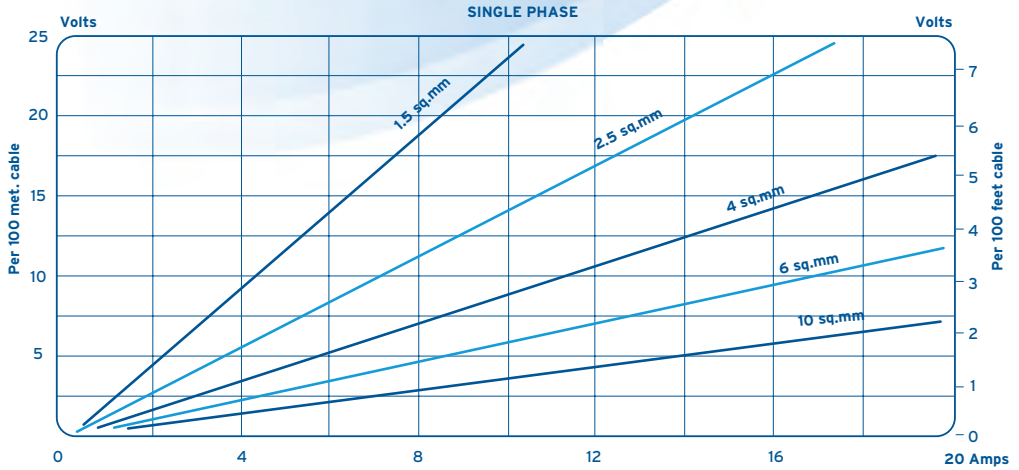
Example

16 amp 3 phase 415 volt pump using 60 metres of 2.5 mm cable

$$\frac{60 \times 0.018 \times 16 \times 1.73}{2.5 \text{ mm}^2} = 11.96$$

11.96 volt / 415 volt = 2.8% Therefore a larger cable is required as the volt drop exceeds 2.5%

ELECTRICAL DATA

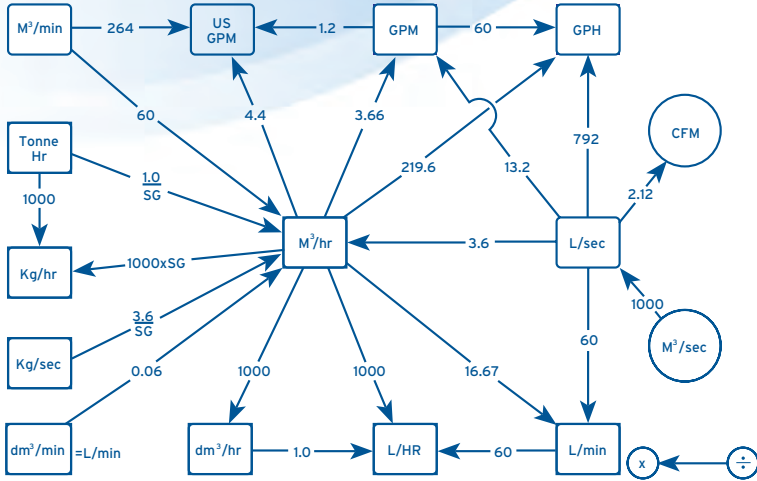


CONVERSION FACTORS

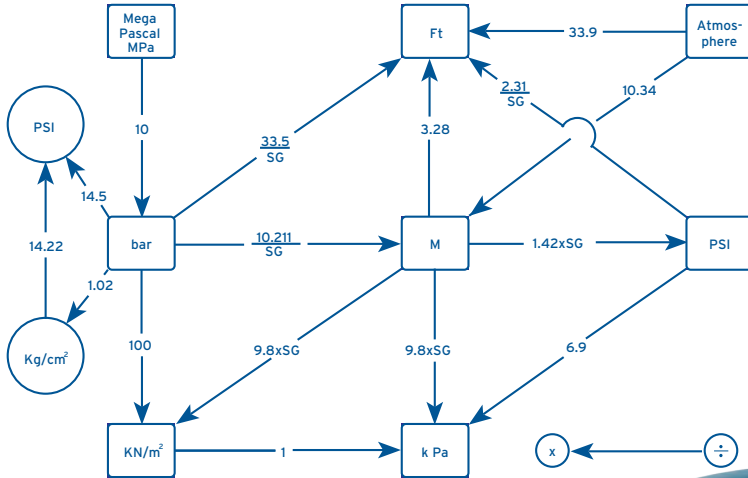
| | | | | | | | | |
|--------------------------|---|----------|---|-----------------|---|----------|---|--------------------|
| Inches | x | 25.4 | = | mm | x | 0.0394 | = | Inches |
| Feet | x | 0.3048 | = | m | x | 3.281 | = | Feet |
| Yards | x | 0.9144 | = | m | x | 1.0936 | = | Yards |
| Miles | x | 1.609 | = | km | x | 0.6214 | = | Miles |
| Ft² | x | 0.0929 | = | m ² | x | 10.764 | = | Ft ² |
| Miles² | x | 2.59 | = | km ² | x | 0.3861 | = | Miles ² |
| In³ | x | 16387 | = | mm ³ | x | 0.000061 | = | In ³ |
| Ft³ | x | 0.02832 | = | m ³ | x | 35.31 | = | Ft ³ |
| Gals (Imp) | x | 4.546 | = | L | x | 0.22 | = | Gals (Imp) |
| | | 0.004546 | = | m ³ | | 220 | = | |
| Gals (US) | x | 3.785 | = | L | x | 0.2642 | = | Gals (US) |

| | | | | | | | | |
|----------------------|---|-------------|---|-------------------|---|-------------|---|---------------|
| LBS | x | 0.4536 | = | kg | x | 2.2046 | = | LBS |
| Tons | | 1016 | | kg | | 0.000984 | | Tons |
| Gal/min (Imp) | x | 0.2727 | = | m ³ /h | x | 3.667 | = | Gal/min (Imp) |
| | | 0.0757 | = | L/ sec | | 13.21 | = | |
| L/sec | x | 3.6 | = | m ³ /h | x | 0.277 | = | L/sec |
| Gal/min (Imp) | x | 1.2 | = | USGPM | x | 0.833 | = | Gal/min (Imp) |
| PSI | x | 0.06895 | = | Bar | x | 14.504 | = | PSI |
| | | 0.703 S.G | = | M Liquid | | 1.422 x S.G | = | |
| Ft. Liquid | x | 0.02989xS.G | = | Bar | x | 33.456 S.G | = | Ft. Liquid |
| STD.ATM | x | 1.01225 | = | Bar | x | 0.9879 | = | STD.ATM |
| HP | x | 0.7457 | = | Kw | x | 1.341 | = | HP |

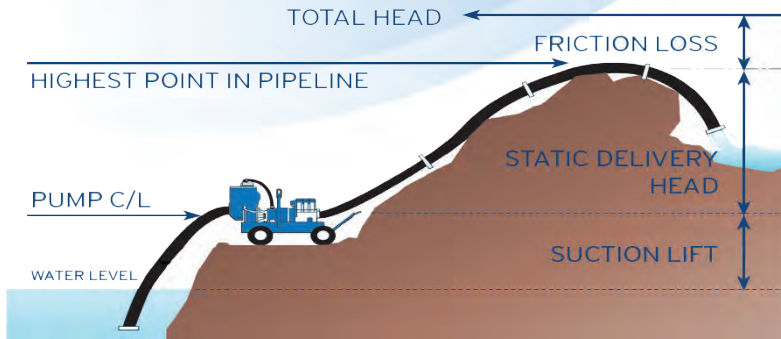
Flow Conversion



Head/Pressure Conversion



Self Priming Pump

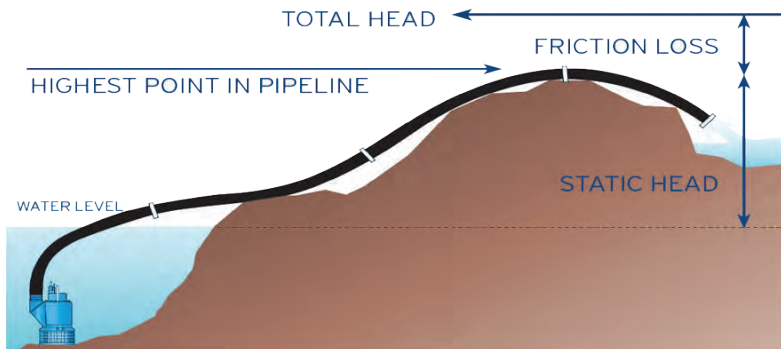


Total Head

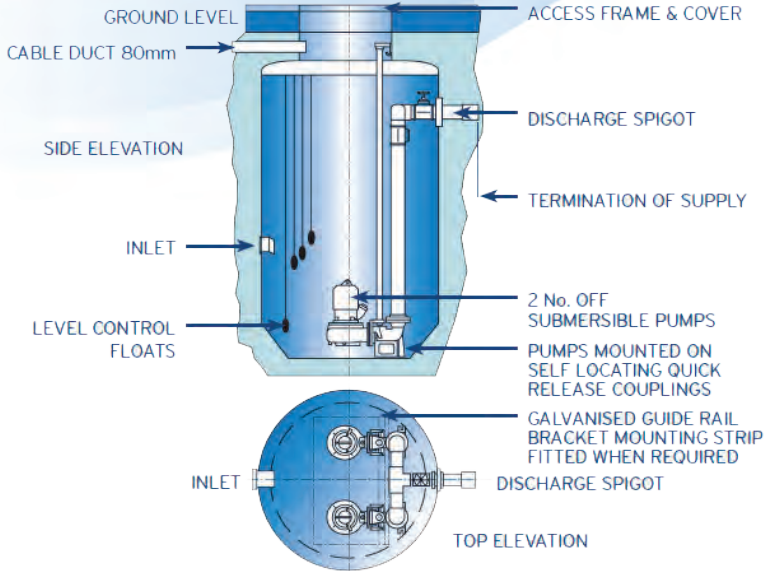
Total head is the sum of the static head from the water level to the highest point in the pipeline, plus the losses in the pipework, valves etc.

Head can be affected by the specific gravity and the viscosity of the pumped liquid. It would be normal to add 10% to the total head for sewage applications.

Submersible Pump



PACKAGED PUMPING SYSTEM



Installations

Sykes Pumps offer a full mechanical and electrical installation service for pumps, pipework, control panels, kiosks, level controls and telemetry equipment.

Anything from a very basic single pump system to full sewers for adoption type pumping stations.

The most popular system for simple sewage and drainage clearance is the GRP packaged pumping station, pictured here, available in various sizes.

The tank is delivered direct to site for the civils contractor to install. When ready, our engineer visits site to install the pumps and controls and commission the system.

Sykes Pumps also offer a planned maintenance package to suit all requirements.

SYKES PUMPS REPAIR & SERVICE

As you would expect we offer an unrivalled back up service from a nationwide depot network. These backed up by 2 regional repair centres, staffed by a dedicated team led by our Regional Workshop Managers. These managers have many years' experience in running our service and repair centres looking after one of the largest Pump hire fleets in the country, giving them the ability and their teams to offer some of the best technical advice for service and maintenance in the industry, giving us the ability to offer cost-effective, timely estimates and turnarounds, whilst maintaining the quality you have come to demand from the one of the UK's leading Pump Suppliers for Hire, Sales and Service.



SYKES PUMPS GENUINE PARTS

Sykes pump parts are available from a nationwide network of depots, these backed up by 3 regional spares stocking and distribution centres, staffed by a dedicated team led by our Regional Workshop Managers. These managers have experience running our service and repair centres, giving them the ability and their teams to offer some of the best technical advice for parts and service in the industry.

We supply only genuine Sykes Manufactured Parts for all spares requirements on Sykes Pump units along with genuine parts from third party manufacturers whether that is for Engines, electric motors or specific units supplied by Sykes Pumps.



SYKES PUMPS 

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GROUP INFORMATION

Andrews Air Conditioning offers the most comprehensive range of short and long-term air conditioning, comfort cooling, and temperature control systems. Andrews Air Conditioning is capable of delivering temporary cooling solutions of a wide range of business sectors and applications including specialist process and people cooling. As well as an extensive range of air conditioners for hire, Andrews Air Conditioning also offers design, sales, installation, nationwide preventative maintenance, aftercare and breakdown services tailored to customer's exact requirements. Partnerships with the brand leaders such as Toshiba, Fujitsu, Mitsubishi and Daikin ensure that the correct solution is provided for all environments.

Andrews is the UK leader in portable heat for hire, delivering safe and cost-effective warmth for any location or application. We deliver compact yet powerful electric, gas and oil heaters and mobile boilers for instant heat and hot water, for long or short term hire. Extensive experience in humidity and condensation control ensures that a specialist environmental drying solution is also available from within this division. Continued investment in research and development will ensure that Andrews Heating & Drying will maintain its stronghold as the UK market leader in specialist heating and drying equipment solutions.

Andrews Sykes are the UK'S leading specialists in portable and industrial dehumidifiers for hire, delivering safe & cost effective drying solutions for any location or application. Our range of refrigerant and desiccant dehumidifiers and strategic locations allows us to respond quickly to any emergency situations however large or small. Our industrial units are ideal for many markets including petro-chemical, power industry and construction to name but a few. Our fully trained team are always on hand with expert and friendly advice

When you need serious cooling, Andrews will give you the best products and highest service levels - tried and tested Chillers and Air Handlers for even the toughest applications across all industry sectors. Whether it's planned support or emergency cover after a breakdown, our fully mobile Fluid Chillers and Fast Chill units are ideal for applications that require Air Conditioning, Fluid Cooling and Process Cooling. Our diverse range of equipment is designed to meet all your cooling application requirements from Air Conditioning to cold storage in Pharmaceuticals, Petrochemicals, Manufacturing, Food & Beverages, Facilities Management and Building & Construction.



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GROUP INFORMATION

Instant heat and hot water, wherever and whenever they're needed. That's what Andrews Boiler Hire delivers. Whether it's support during scheduled maintenance, refits or new build, our fully mobile boilers are the most advanced and efficient in the business. Available 24/7 365 days a year, Nationwide. These strongly constructed Boilers, deliver amazing reliability. Our oil and gas fired boilers can be coupled to any existing heating and hot water system, quickly and efficiently. All our LPHW (Low Pressure Hot Water) boilers deliver large volumes of hot water on demand: for indoor and outdoor locations, at any time of the year, for a range of commercial, industrial and leisure applications.

Andrews Ventilation has a comprehensive range of general cooling fans, industrial fans and specialist ventilation units. Our industrial fans and cooling fans are ideal for improving air circulation from large warehouse to smaller offices. Our range of specialist ventilation units have many uses and are a must for the removal of gases, fumes and dust or where very large volumes of air are required. Andrews fully trained staff are always on hand to offer our clients technical advice and site surveys as part of our service.

Sykes Pumps International

The Sykes Pumps name stretches far beyond the UK. We have been established in the Middle East for over 40 years. Our Khansaheb Sykes subsidiary is a market leader for Dewatering and Pump hire throughout the Middle East where we operate from Dubai, Sharjah, Abu Dhabi, Oman, Saudi Arabia, Bahrain, Qatar and Kuwait. Since the early days, when we were first involved in the Dubai Creek crossings, right up until recent times, we have been heavily involved in many of the major development projects throughout the GCC.

In Europe, Andrews Sykes continue to grow, since opening our first mainland Europe depot in Holland over 40 years ago, we now have depots throughout France, Belgium, Luxembourg, Switzerland and Italy, with partnerships in both the Republic of Ireland and Northern Ireland.

The Sykes Pumps brand is well known worldwide, in North America we work with distributors, for both sales and hire. Recently we have provided pumping equipment for major projects in Russia, Asia, Africa and South America. No matter your location or whereabouts, Sykes Pumps can offer safe, reliable and efficient pumping solution for many applications.

SYKES PUMPS 

sykes-pumps.com

or call us Free on **0800 211 611**



Andrews Sykes operates across the globe, you can find us in:



Nationwide Depot Network

| | |
|--------------|-------------------|
| Aberdeen | London (Charlton) |
| Ashford | Milton Keynes |
| Basildon | Norwich |
| Birmingham | Nottingham |
| Bovey Tracey | Oldham |
| Bristol | Penrith |
| Doncaster | Peterborough |
| Glasgow | Pontypridd |
| Grangemouth | Portsmouth |
| Heathrow | Sedgefield |
| Inverness | Stoke on Trent |
| Liverpool | West Sussex |

We also have operations in
Europe and the Middle East



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