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# >WELCOME TO SYKES PUMPS

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

Established for over 150 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 over 25 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,

*Paul Wood*

Paul Wood  
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
- Silenced
- Super Silenced
- High Performance
- Submersible Drainage
- Submersible Sludge
  
- Submersible Wastewater
- Air Pumps
- Submersibles Hydraulic

For Groundwater Control Services, our in-house expertise includes specialist de-watering advice and feasibility studies, proven people and equipment, 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.



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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 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 hired 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

.....

The general purpose industry standard for contractors, water authorities and local agencies, the Sykes Univac GP pump range has evolved over 150 years of heavy duty pump manufacture.

Specifically designed for arduous applications, the Sykes UNIVAC GP 100M pump is typical of the range, utilising tried and tested components, selected to ensure maximum reliability.

Used wherever there is a need for positive self priming, the GP 100M incorporates the unique Sykes Univac vacuum system, enabling the pump to prime and reprime fully automatically from dry, and operate with the suction intake intermittently exposed to atmosphere.

Provided with Lister engine power as standard, all GP pumps are available with alternative prime movers and mountings, together with a wide choice of accessories and fittings



**SYKES PUMPS** 

**GENERAL  
PURPOSE**

.....

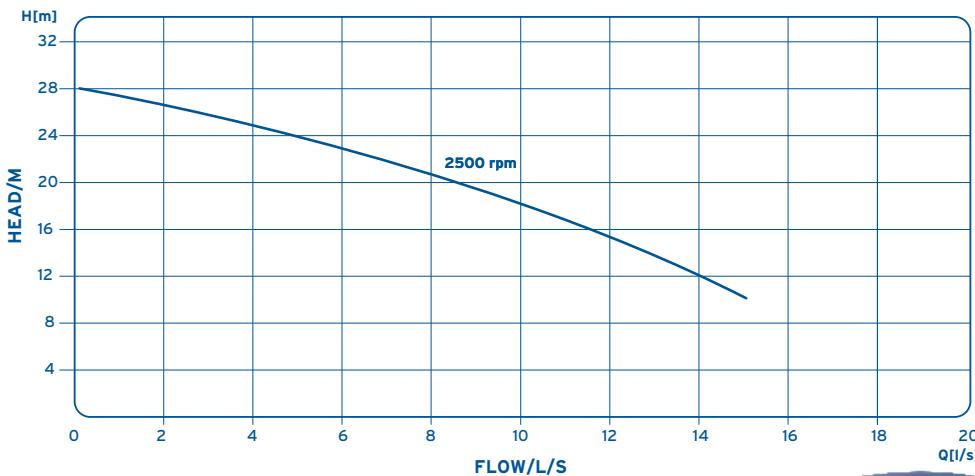


Smart pumping  
Best fuel economy 0.58 litres/hour



## PUMP PERFORMANCE

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



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**GENERAL  
PURPOSE**

GP50

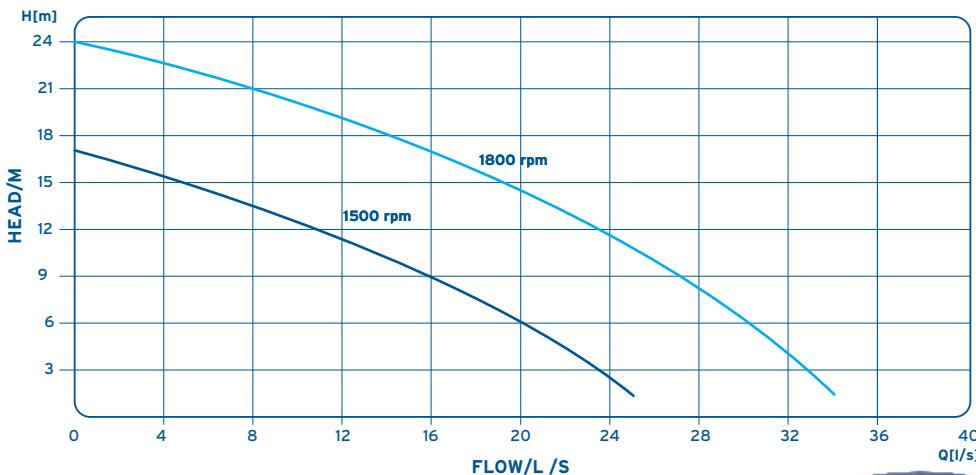
**12**



## PUMP PERFORMANCE

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

Smart pumping  
Best fuel economy 0.61 litres/hour



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**GENERAL  
PURPOSE**

GP80

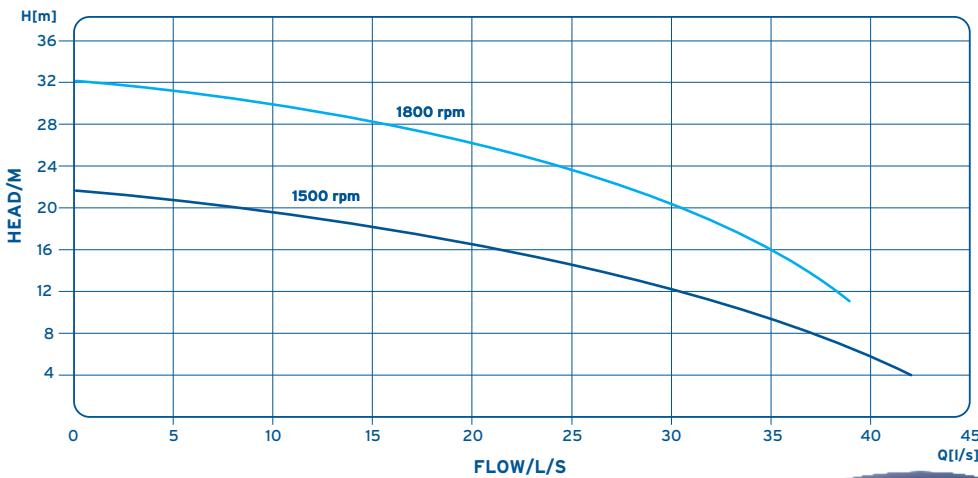


Smart pumping  
Best fuel economy 2.29 litres/hour



## PUMP PERFORMANCE

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



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**GENERAL  
PURPOSE**

GP100M

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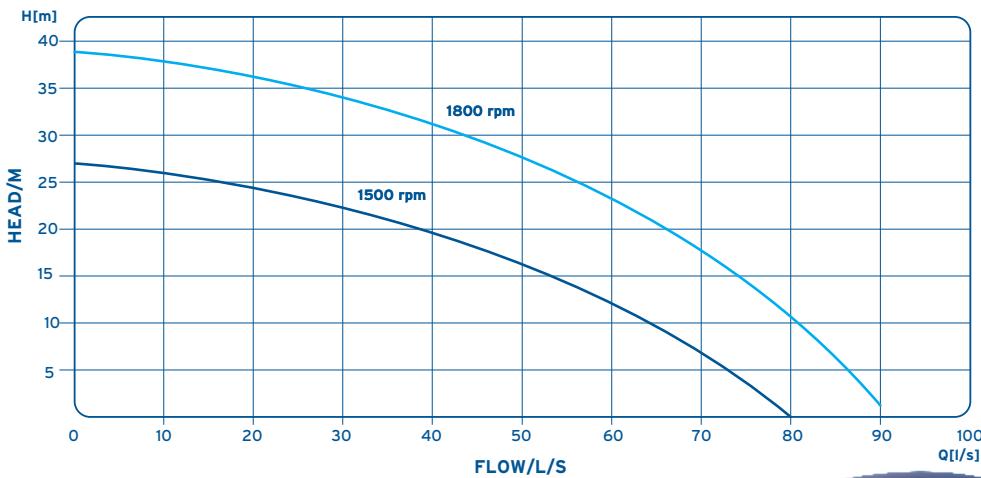


Smart pumping  
Best fuel economy 4.08 litres/hour



## PUMP PERFORMANCE

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



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**GENERAL  
PURPOSE**

GPI50M



Smart pumping  
Best fuel economy 7.26 litres/hour



## PUMP PERFORMANCE

**Performance:** GP200 GP200M

Max head: 36 m 43 m

Max flow: 138 l/s 161 l/s

Max solid: 75 mm 75 mm

**Weight:** 1727 kg with fuel

1570 kg without fuel

**Dimensions:** 2630 x 1570 x 1809

(L x W x H) mm Typical length including tow bar 3310

**Noise level:** @ 1m = 98 - 106 dBA

@ 7m = 89 - 95 dBA

**Fuel tank capacity:** 183 litres. Max 24 hours with cleaning and flushing facilities

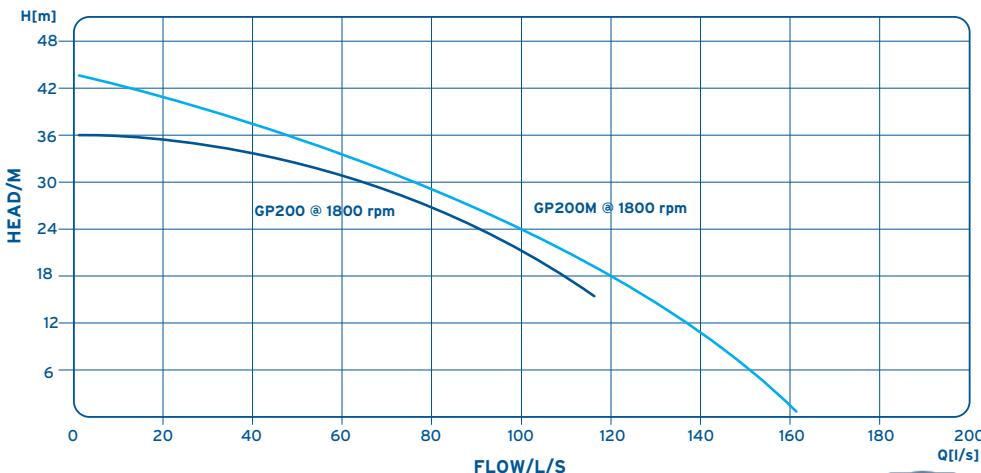
**Pipe connections:** Suction: 8" table D

Discharge: 8" table D

Bauer couplings option: 8"

**Fuel consumption:** Full load @ 1800 rpm: 15.8 litres/hour

**Energy Efficient duty point:** Fuel Consumption @ 1500 rpm: 7.26 litres/hour



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**GENERAL  
PURPOSE**

GP200  
GP200M

**20**

# >SILENCED

With the ever increasing problem of noise control now impacting on most pumping applications, Sykes has developed a range of pumps that utilise fully silenced Hatz engines with the ever popular and renowned GP100M and GP150M units from the Sykes GP range of heavy duty, positive self priming pumps.

Sykes also offer an extensive range of robust Canopied Wispaset pumps utilising Lister diesel engines tried and tested in the construction industry for over 20 years.

The silenced pumpsets are ideal for short or long term applications where noise levels are a concern, such as overpumping, site dewatering, emergency sewer repairs, utilities, quarries and civil engineering.

**SYKES PUMPS** 

**SILENCED**

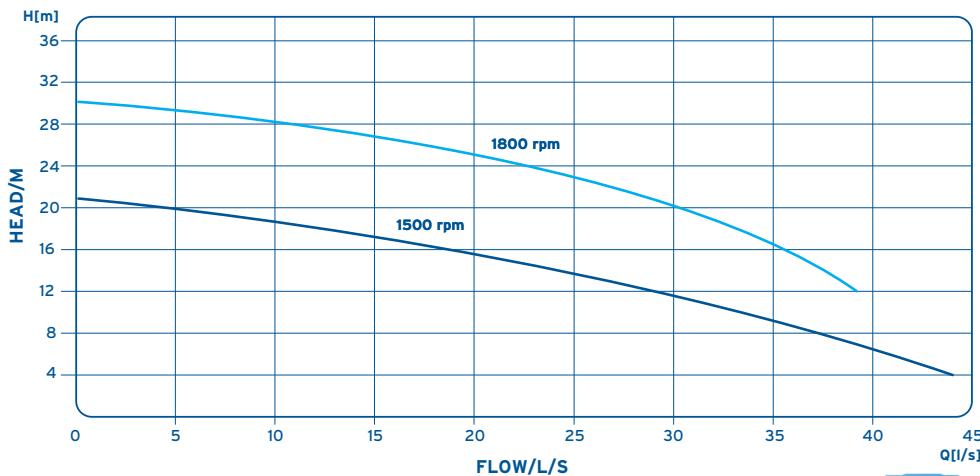


Smart pumping  
Best fuel economy 2.26 litres/hour



## PUMP PERFORMANCE

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



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**SILENCED**

GP100M Hatz

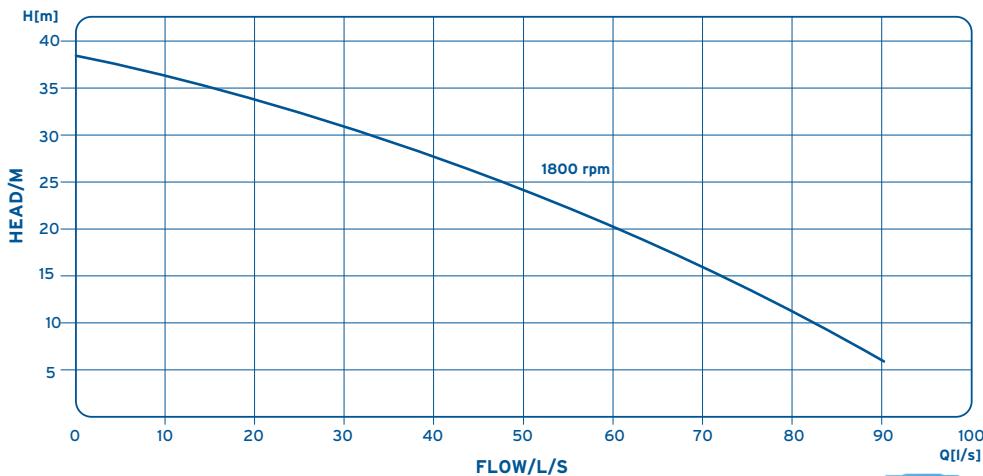


Smart pumping  
Best fuel economy 3.98 litres/hour



## PUMP PERFORMANCE

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



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**SILENCED**

GPI150M Hatz

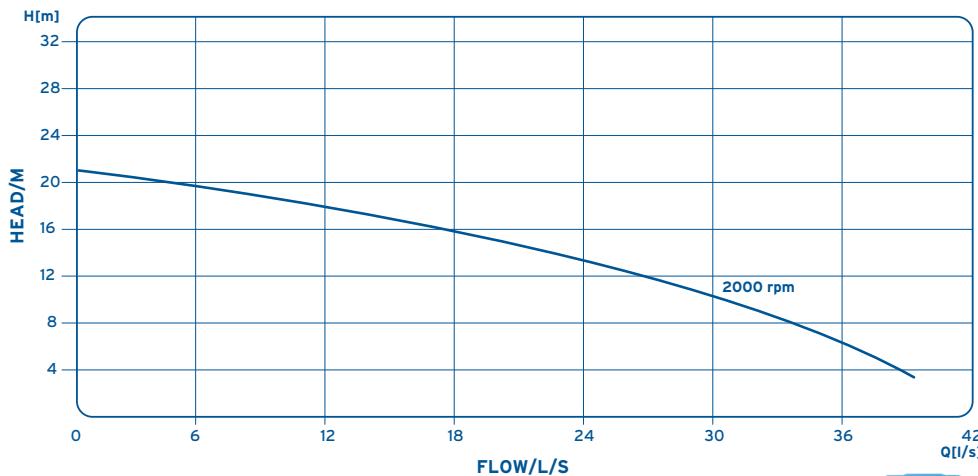


Smart pumping  
Best fuel economy 1.9 litres/hour



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 22 m Max flow: 40 l/s Max solid: 50 mm
<b>Weight:</b>	742 kg with fuel 695 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	2056 x 1350 x 1090 Including tow bar
<b>Noise level:</b>	@1m = 85 - 87 dBA @7m = 68 - 70 dBA
<b>Fuel tank capacity:</b>	55 Litres with cleaning and flushing facilities
<b>Pipe connections:</b>	Suction: 100mm NP10 Discharge: 100mm NP10 Bauer couplings option: 3"
<b>Fuel consumption:</b>	Full load @ 2000 rpm: 2.9 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm:</b> <b>1.9 litres/hour</b>



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**SILENCED**

WISPASET 80

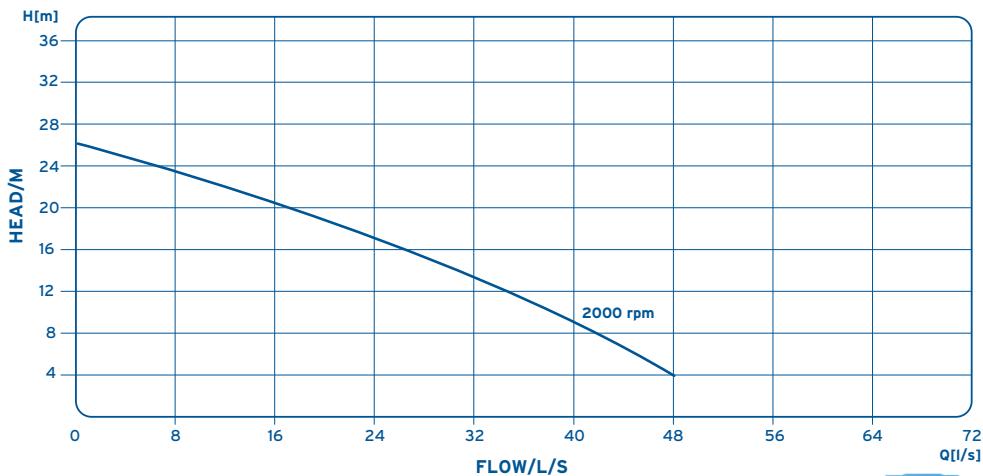


Smart pumping  
Best fuel economy 2.8 litres/hour



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 27 m Max flow: 48 l/s Max solid: 50 mm
<b>Weight:</b>	820 kg with fuel 770 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	1810 x 1350 x 1120 Typical length including tow bar 2695
<b>Noise level:</b>	@ 1m = 85 - 87 dBA @ 7m = 68 - 70 dBA
<b>Fuel tank capacity:</b>	59 litres. Max 24 hour with cleaning and flushing facilities
<b>Pipe connections:</b>	Suction: 100mm NP10 Discharge: 100mm NP10 Bauer couplings option: 4"
<b>Fuel consumption:</b>	Full load @ 2000 rpm: 4 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm:</b> <b>2.8 litres/hour</b>



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**SILENCED**

WISPASET 100

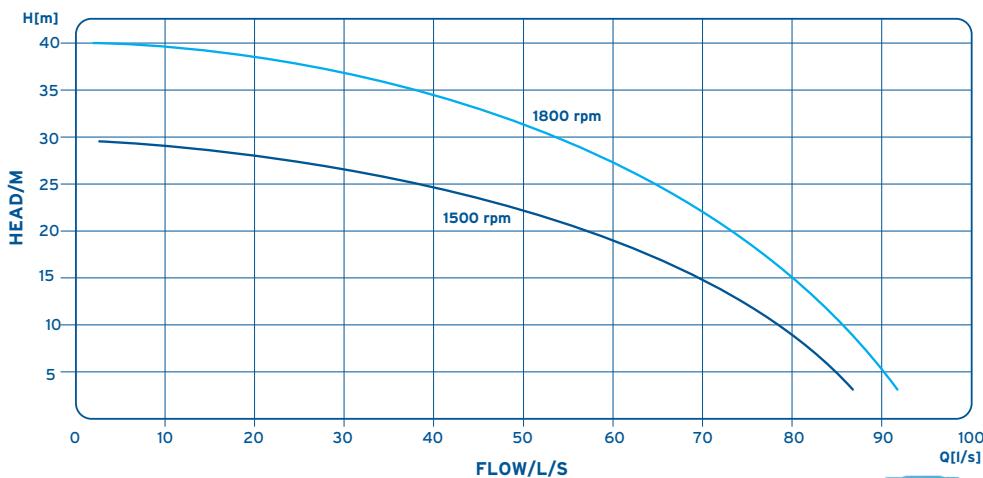


Smart pumping  
Best fuel economy 4.9 litres/hour



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 40 m Max flow: 91 l/s Max solid: 52 mm
<b>Weight:</b>	1112 kg with fuel 1000 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	2620 x 1400 x 1300 Typical length including tow bar 3300
<b>Noise level:</b>	@ 1m = 85 - 87 dBA @ 7m = 68 - 70 dBA
<b>Fuel tank capacity:</b>	130 litres with cleaning and flushing facilities
<b>Pipe connections:</b>	Suction: 150mm NP10 Discharge: 150mm NP10 Bauer couplings option: 6"
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 6 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm:</b> <b>4.9 litres/hour</b>



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**SILENCED**

WISPASET 150

# >SUPER SILENCED



Our investment in the development of our superb range of Super Silenced Pumps has again raised the bar in low-noise pumping without compromising on power, reliability and flexibility. They are the benchmark against which other pumps are measured, with noise levels down to an incredible 58 dBA at 7m plus exceptional telemetry facilities for remote pump operations and monitoring. This innovative remote management system removes the need for costs associated with regular visits by engineers, any problems are picked up immediately, sometimes before the user is even aware, and remedial action is taken.

Not only technically excellent, these powerful, portable super silenced pumps have been developed with a clear focus on environmental issues such as sound attenuation, the eradication of fuel spillage, fuel economy and reduced emissions delivered through the use of highly efficient power plants.

Our investment has not only been in design and technology, to ensure Nationwide availability we now have the largest range of 4" 6" 8" and 12" super silenced pumps available for hire in the UK. So you can be sure that wherever you are we can deliver to you fast.

**SYKES PUMPS** 

**SUPER  
SILENCED**

# SUPER WISPASET 100

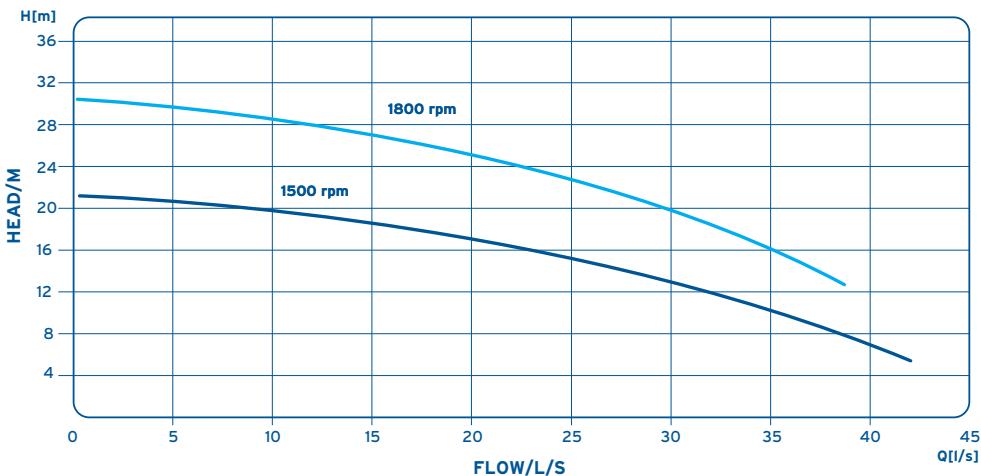
## PUMP PERFORMANCE



Smart pumping  
Best fuel economy 2.25 litres/hour



<b>Performance:</b>	Max head: 31 m Max flow: 45 l/s Max solid: 44 mm
<b>Weight:</b>	1685 kg with fuel 1500 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	2137 x 1250 x 1535
<b>Noise level:</b>	@ 7m = 58 - 65 dBA
<b>Fuel tank capacity:</b>	158 litres. Max 24 hours
<b>Pipe connections:</b>	Suction: 4" Table D Discharge: 4" Table D Bauer couplings option
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 5 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm:</b> <b>2.25 litres/hour</b>



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**SUPER  
SILENCED**

**SUPER  
WISPASET 100**

**36**

# SUPER WISPASET 150

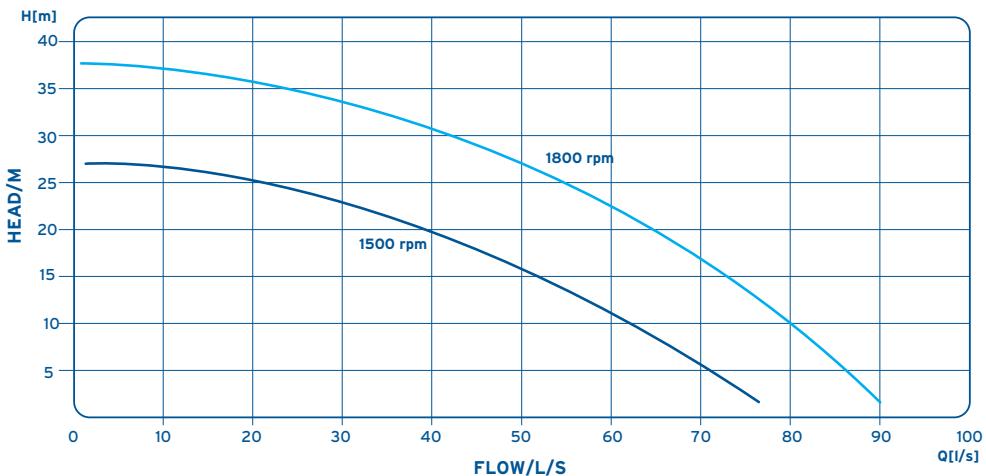
## PUMP PERFORMANCE



Smart pumping  
Best fuel economy 4.1 litres/hour



<b>Performance:</b>	Max head: 38 m Max flow: 90 l/s Max solid: 52 mm
<b>Weight:</b>	1990 kg with fuel 1800 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	2310 x 1250 x 1535
<b>Noise level:</b>	@ 7m = 65 dBA
<b>Fuel tank capacity:</b>	175 litres. Max 24 hours
<b>Pipe connections:</b>	Suction: 6" Table D Discharge: 6" Table D Bauer couplings option
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 9.8 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm:</b> 4.1 litres/hour



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**SUPER SILENCED**

**SUPER  
WISPASET 150**

**38**

# SUPER WISPASET 200

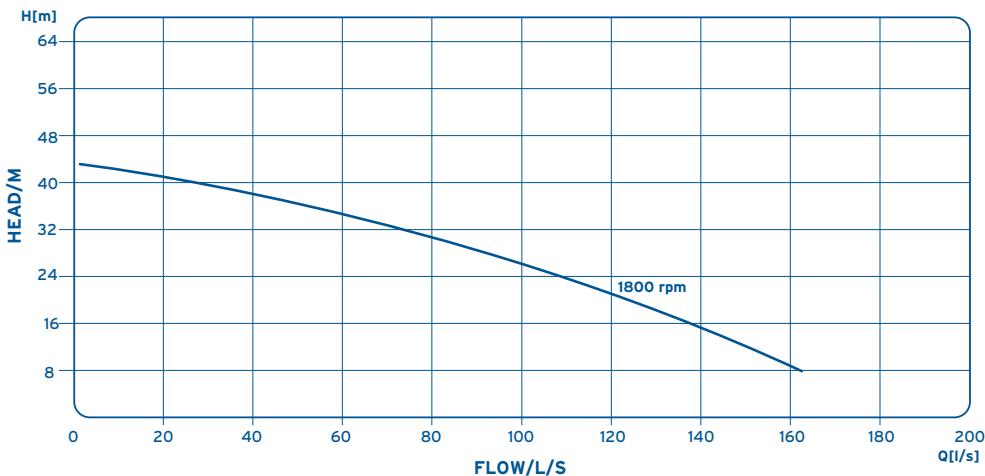
## PUMP PERFORMANCE



Smart pumping  
Best fuel economy 7.3 litres/hour



<b>Performance:</b>	Max head: 43 m Max flow: 161 l/s Max solid: 75 mm
<b>Weight:</b>	2390 kg with fuel 2200 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	2610 x 1250 x 1535
<b>Noise level:</b>	@ 7m = 65 dBA
<b>Fuel tank capacity:</b>	207 litres. Max 24 hours
<b>Pipe connections:</b>	Suction: 8" Table D Discharge: 8" Table D Bauer couplings option
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 17 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm:</b> 7.3 litres/hour



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**SUPER  
SILENCED**

**SUPER  
WISPASET 200**

**40**

# SUPER WISPASET 300

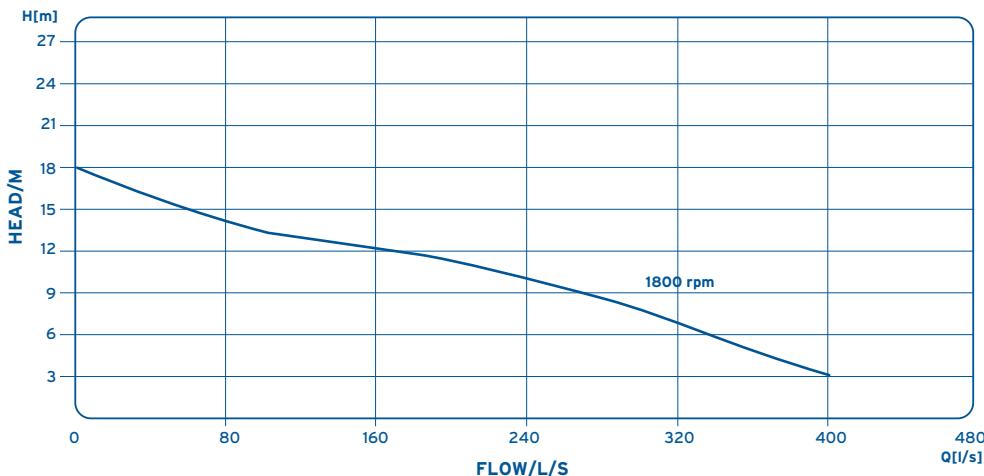


Smart pumping  
Best fuel economy 13.6 litres/hour



## 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	2700 x 1180 x 3300
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 duty point:	<b>Fuel Consumption @ 1500 rpm: 13.6 litres/hour</b>



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**SUPER  
SILENCED**

**SUPER  
WISPASET 300**

# >HIGH PERFORMANCE



Specifically packaged for the most arduous of medium and high head duties, Sykes Pumps offers a unique combination of features that provide improved performance, sustained high efficiency and total reliability.

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

All are built to the highest specification, using hard wearing and corrosion resistant parts and are robustly designed to give reliable, sustained performance at the lowest possible costs.

These high performance pumps are ideal for civil engineering, mining and quarrying, process industries, municipal engineering, irrigation, heavy sludge and rag, abrasive slurries and more.

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

**SYKES PUMPS** 

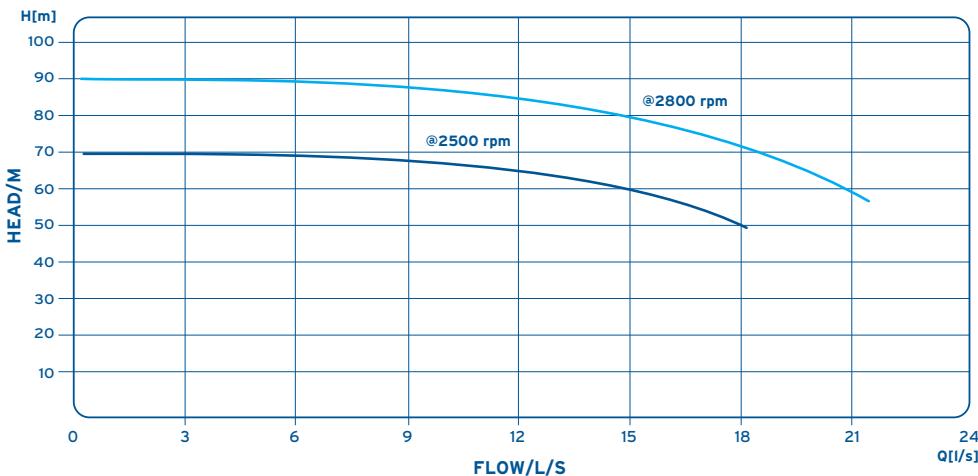
**HIGH  
PERFORMANCE**



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 98 m Max flow: 21 l/s
<b>Weight:</b>	856kg without fuel
<b>Dimensions:</b> (L x W x H) mm	1800 x 1070 x 1460 Typical length including tow bar 2400
<b>Noise level:</b>	@ 1m = 94 - 98 dBA @ 7m = 77 - 82 dBA
<b>Fuel tank capacity:</b>	90 litres
<b>Pipe connections:</b>	Suction: 4" Table D or 3" Bauer Discharge: 2½" Instantaneous adapter or 3" BSP
<b>Fuel consumption:</b>	Full load @ 2800 rpm: 6.27 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 2500 rpm:</b> <b>4.08 litres/hour</b>

Smart pumping  
Best fuel economy 4.08 litres/hour



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**HIGH  
PERFORMANCE**

HP80

# HP100

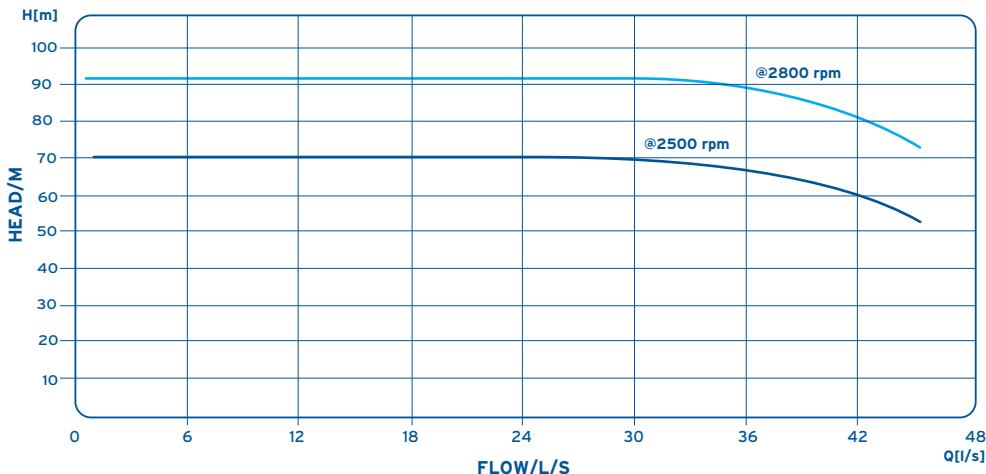


Smart pumping  
Best fuel economy 7.7 litres/hour



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 98 m Max flow: 44 l/s
<b>Weight:</b>	1004 kg with fuel 907 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	1940 x 1450 x 1530 Typical length including tow bar 2620
<b>Noise level:</b>	@ 7m = 77 - 82 dBA
<b>Fuel tank capacity:</b>	122 litres
<b>Pipe connections:</b>	Suction: 4" Table D or 4" Bauer Discharge: 2½" Instantaneous adapter or (3" Bsp)
<b>Fuel consumption:</b>	Full load @ 2800 rpm: 10.8 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 2500 rpm:</b> 7.7 litres/hour
<b>Silenced version available</b>	



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**HIGH  
PERFORMANCE**

HP100

**48**

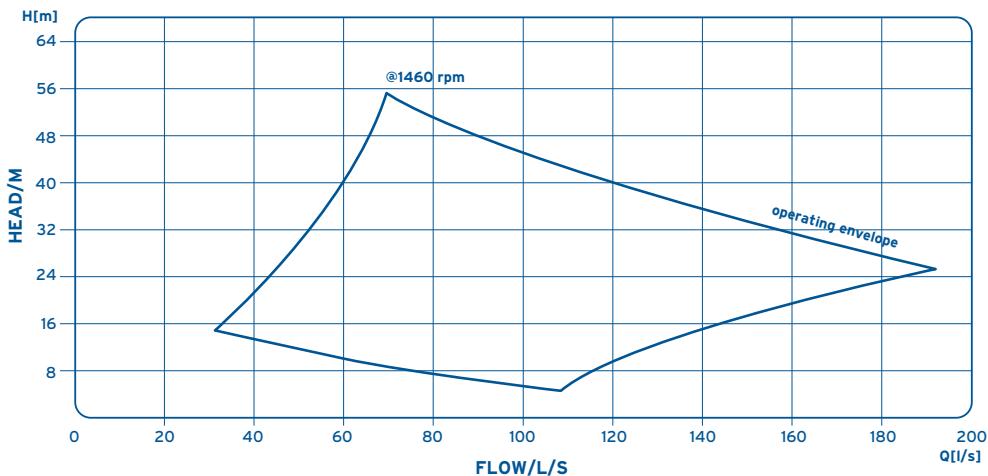
## PUMP PERFORMANCE



Smart pumping  
Best fuel economy 14 litres/hour



<b>Performance:</b>	Max head: 55m Max flow: 190 l/s Max solid: 95 mm
<b>Weight:</b>	3500 kg
<b>Dimensions:</b> (L x W x H) mm	3640 x 1750 x 1740
<b>Noise level:</b>	@ 7m = 70 dBA
<b>Pipe connections:</b>	Suction: 8" Table D Discharge: 8" Table D Bauer couplings option
<b>Fuel consumption:</b>	Full load @ 1460 rpm: 20.47 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1200 rpm:</b> 14 litres/hour
<b>Separate fuel tank required</b>	



**SYKES PUMPS**

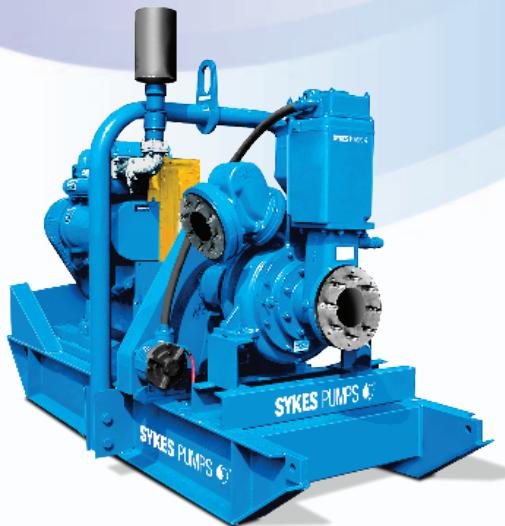
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**HIGH  
PERFORMANCE**

HS200

**50**

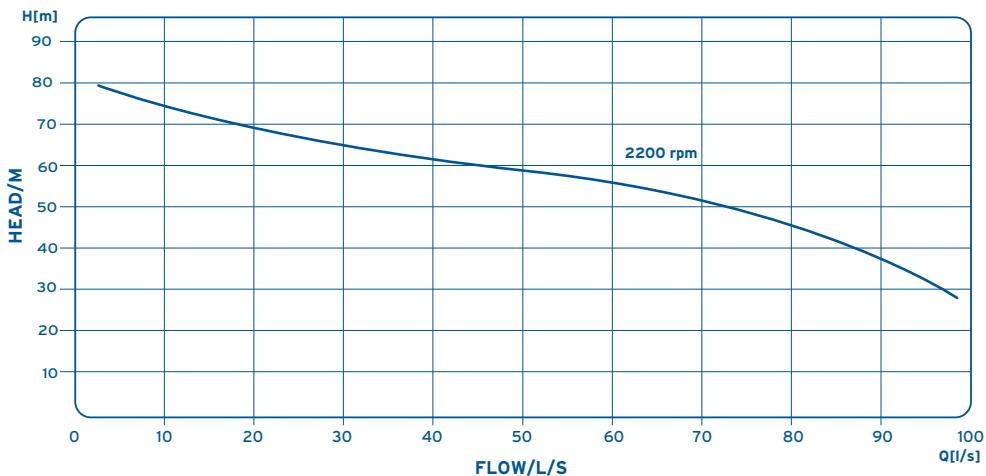


Smart pumping  
Best fuel economy 7.56 litres/hour



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 82 m Max flow: 100 l/s Max solid: 25 mm
<b>Weight:</b>	1966 kg with fuel 1750 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	2600 x 1100 x 1800
<b>Fuel tank capacity:</b> (l/24 hours)	250 litres. Max 24 hours with cleaning and flushing facilities
<b>Pipe connections:</b>	Suction: 6" Table D Discharge: 4" Table D Bauer couplings option
<b>Fuel consumption:</b>	Full load @ 2200 rpm: 17.1 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1800 rpm: 7.56 litres/hour</b>



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**HIGH  
PERFORMANCE**

MH100

**52**

## PUMP PERFORMANCE



Smart pumping  
Best fuel economy 15.75 litres/hour



**Performance:** Max head: 91 m

Max flow: 144 l/s

Max solid: 25 mm

**Weight:** 2125 kg with fuel

1805 kg without fuel

**Dimensions:** (L x W x H) mm  
3100 x 1200 x 1800

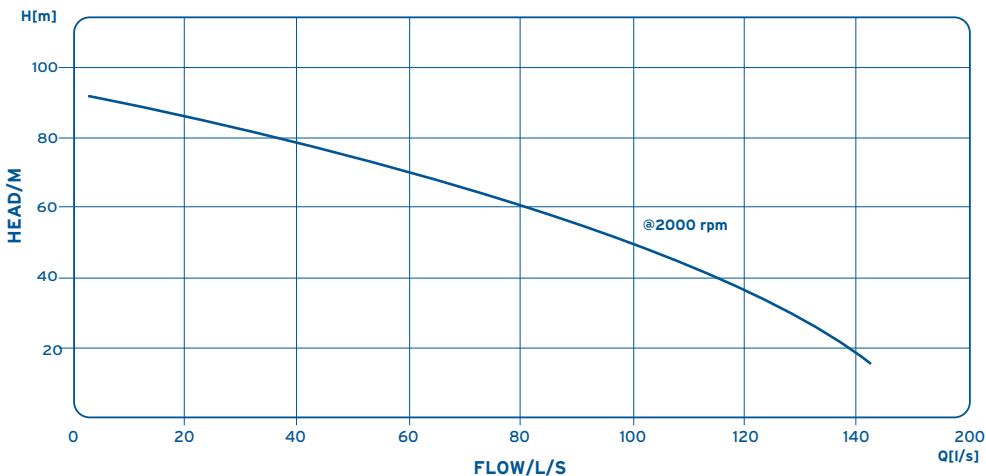
**Fuel tank capacity:** 375 litres. Max 24 hours with cleaning and flushing facilities

**Pipe connections:** Suction: 8" Table D  
Discharge: 6" Table D  
Bauer couplings option

**Fuel consumption:** Full load @ 2000 rpm:  
26 litres/hour

**Energy Efficient duty point:**

**Fuel Consumption @ 1800 rpm:**  
**15.75 litres/hour**



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**HIGH  
PERFORMANCE**

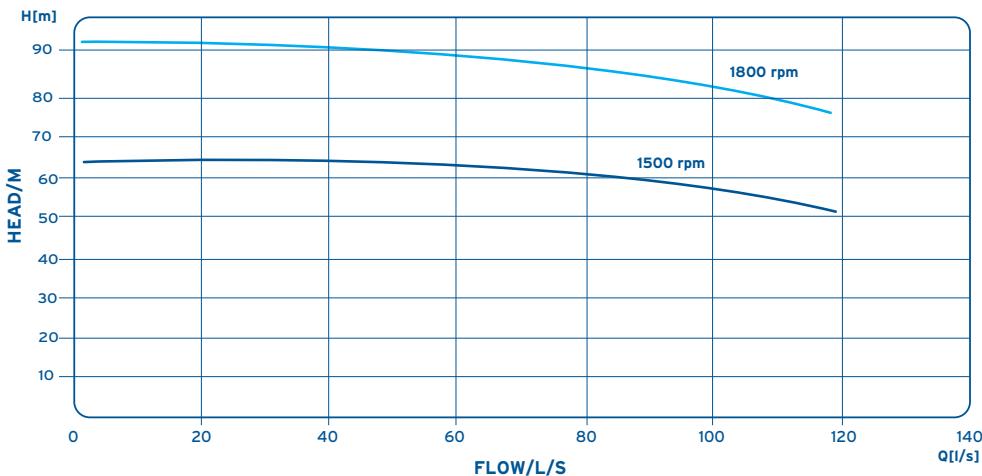
MH150



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 93 m Max flow: 120 l/s Max solid: 38 mm
<b>Weight:</b>	3750 kg with fuel 3400 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	3505 x 1608 x 1977
<b>Fuel tank capacity:</b>	Various integral fuel tanks
<b>Pipe connections:</b>	Suction: 6" Table D Discharge: 4" Table D Option Bauer Couplings
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 30 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm:</b> <b>18.6 litres/hour</b>

Smart pumping  
Best fuel economy 18.6 litres/hour



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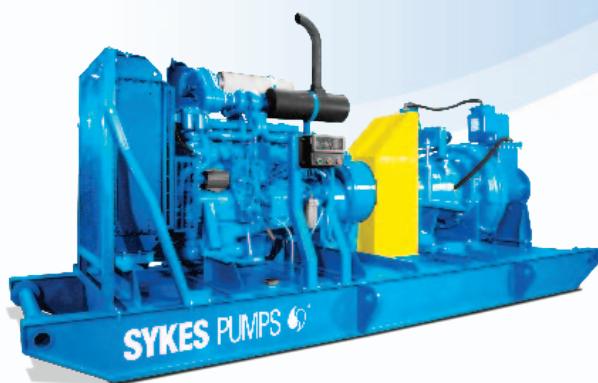
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**HIGH  
PERFORMANCE**

UVO 150/100E

**56**

# UVO 200/150F (D70)

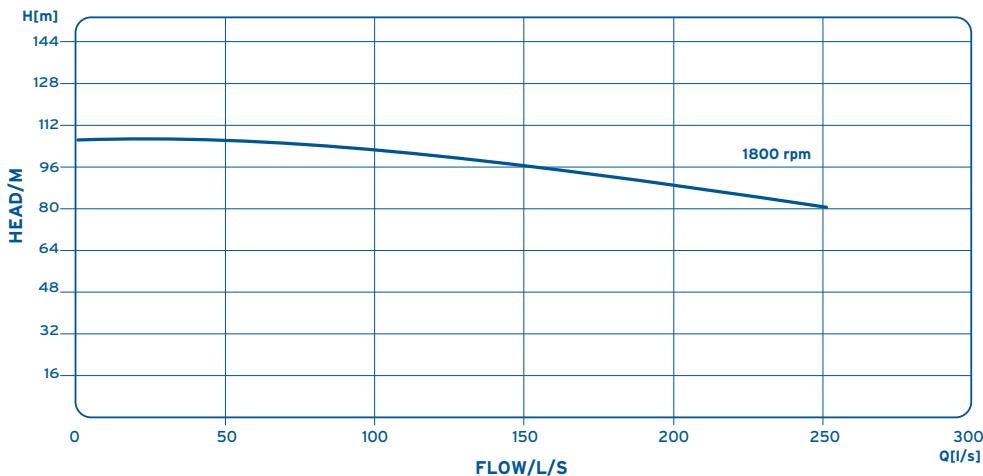


Smart pumping  
Best fuel economy 72.67 litres/hour



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 108 m Max flow: 325 l/s Max solid: 60 mm
<b>Weight:</b>	8450 kg with fuel 6320 kg without fuel
<b>Dimensions:</b> (L x W x H mm)	5330 x 2385 x 2260
<b>Fuel tank capacity:</b>	Tank size on application, separate bunded tanks available.
<b>Pipe connections:</b>	Suction: 8" Table D Discharge: 6" Table D Option Bauer Couplings
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 99.9 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1600 rpm: 72.67 litres/hour</b>



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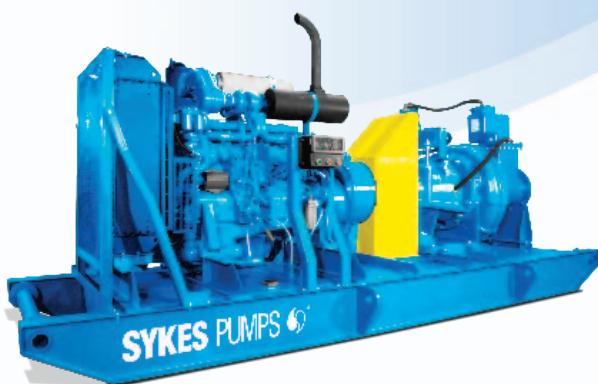
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**HIGH  
PERFORMANCE**

UVO 200  
150F (D70)

**58**

# UVO 200/150F (D90)

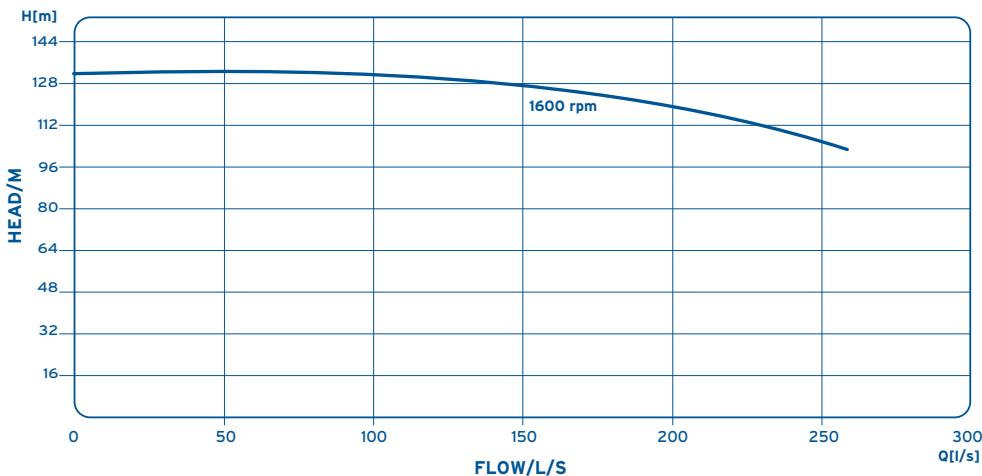


Smart pumping  
Best fuel economy 92.5 litres/hour



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 135 m Max flow: 375 l/s Max solid: 60 mm
<b>Weight:</b>	8680 kg with fuel 6570 kg without fuel
<b>Dimensions:</b> (L x W x H) mm	5330 x 2385 x 2167
<b>Fuel tank capacity:</b>	Tank size on application, separate bunded tanks available.
<b>Pipe connections:</b>	Suction: 8" Table D Discharge: 6" Table D Option Bauer Couplings
<b>Fuel consumption:</b>	Full load @ 1600 rpm: 111 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm: 92.5 litres/hour</b>
<b>Silenced version available</b>	



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**HIGH  
PERFORMANCE**

UVO 200  
150F (D90)

**60**

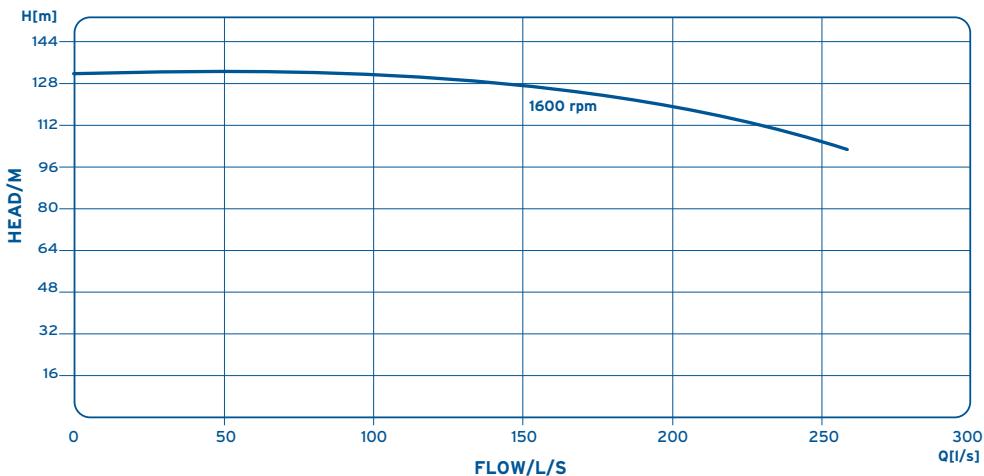
# UVO 200/150 (D90) SILENCED

## PUMP PERFORMANCE



<b>Performance:</b>	Max head: 135 m Max flow: 375 l/s Max solid: 60 mm
<b>Weight:</b>	9600 kg
<b>Dimensions:</b> (L x W x H mm)	5400 x 2200 x 2570
<b>Noise level:</b>	@ 7m = 71 dBA
<b>Pipe connections:</b>	Suction: 8" Table D Discharge: 8" Table D Option Bauer Couplings
<b>Fuel consumption:</b>	Full load @ 1600 rpm: 106 litres/hour
<b>Energy Efficient duty point:</b>	<b>Fuel Consumption @ 1500 rpm: 92.5 litres/hour</b>
Separate fuel tank required	

Smart pumping  
Best fuel economy 92.5 litres/hour



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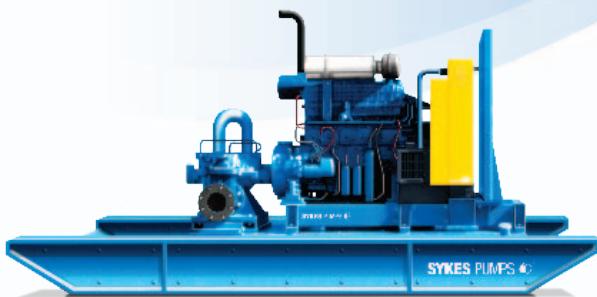
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**HIGH  
PERFORMANCE**

UVO 200  
150F (D70)

**62**

## PUMP PERFORMANCE



Smart pumping  
Best fuel economy 26 litres/hour



**Performance:** Max head: 190 m

Max flow: 118 l/s

Max solid: Clear water

**Weight:** 7250 kg with fuel

5135 kg without fuel

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

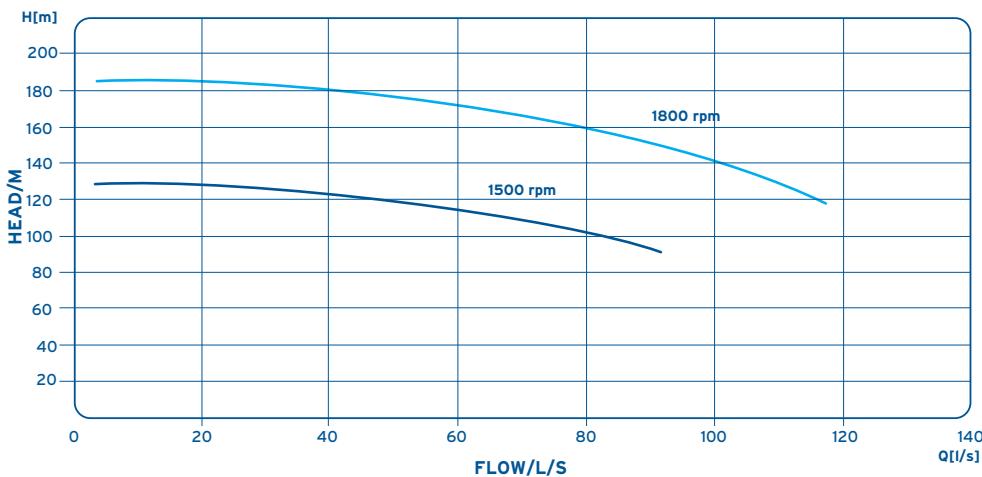
**Fuel tank capacity:** Tank size on application,  
separate bunded tanks available.

**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**



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**HIGH  
PERFORMANCE**

DRC 150/150

**64**

# >SUBMERSIBLE DRAINAGE

.....

The range of Sykes Submersible Drainage Pumps are ideal for dewatering at all kinds of construction sites, from the smallest building projects right up to the biggest civil engineering contracts such as dams, bridges, quarrying, tunneling and open cast mining. Their easy handling and excellent capacity also make them ideal for shipyards, salvage brigades and many other industries and applications. The pumps range from 8 litres per second to 325 litres per second.

Sykes also offer a full selection of control panels. The panels enable the user to leave pumps unattended for long periods whilst improving safety, efficiency and reducing wear on the pump. For pumps of up to 11kW the PLC range of panels are used, these are available in 1 phase or 3 phase.

The larger pumps use soft start control panels to ensure smooth starting from the minimum mains or generator power supply. This gives the user considerable fuel savings.

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

**SYKES PUMPS** 

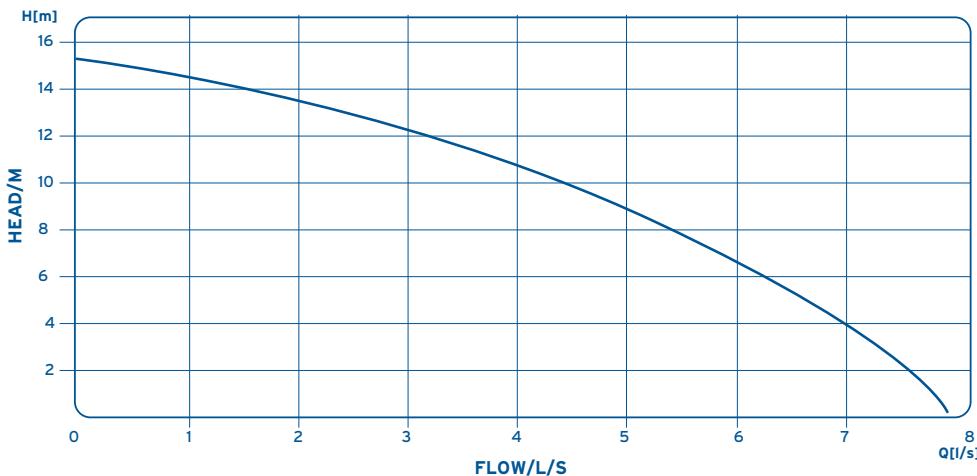
**SUBMERSIBLE DRAINAGE**



## 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):	10.4
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

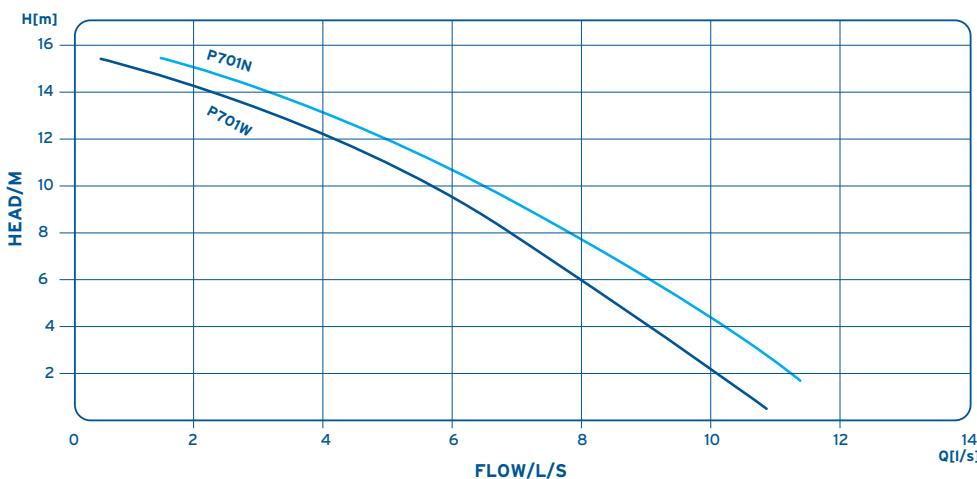
**68**



## PUMP PERFORMANCE

Model:	P701W	P701N	
<b>Motor type (V):</b>	110 (1-Phase) 50Hz	240 (1-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	1.3	1.3	1.4
<b>Max power input (Kw):</b>	1.7	1.7	1.7
<b>Running current: (Amps)</b>	15.3	7.2	2.8
<b>Discharge Spigot:</b>	2" Bauer		
<b>Dimensions: (H x W) mm</b>	578 x 231		
<b>Weight: (excl cable) Kg</b>	20		

Please see the pump accessory section

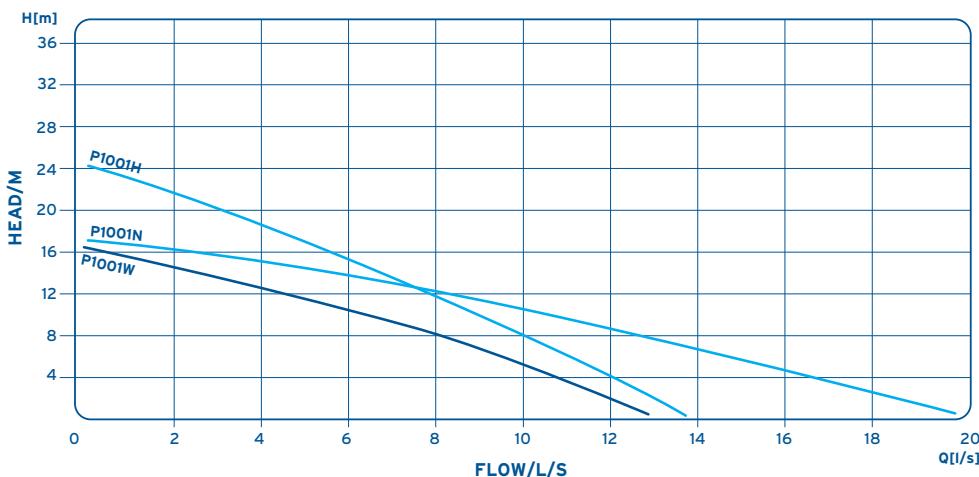




## PUMP PERFORMANCE

Model:	P1001 W	P1001 N	P1001 H
<b>Motor type (V):</b>	110 (1-Phase) 50Hz	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	1.7	2.2	2.2
<b>Max power input (Kw):</b>	2.3	3.0	3.0
<b>Running current: (Amps)</b>	10.5	5.5	5.5
<b>Discharge Spigot:</b>	3" Bauer		
<b>Dimensions: (H x W) mm</b>	577 x 296		
<b>Weight: (excl cable) Kg</b>	27		

Please see the pump accessory section



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**SUBMERSIBLE  
DRAINAGE**

P1001

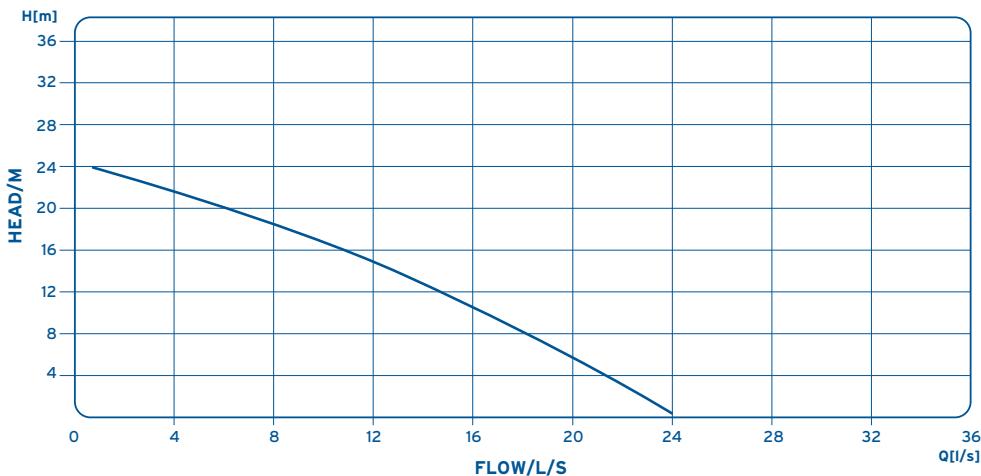
**72**



## 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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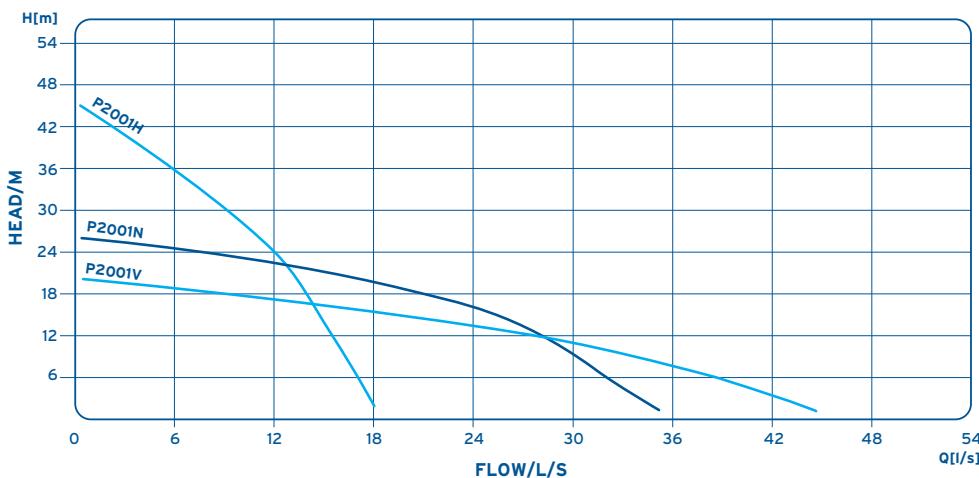
**SUBMERSIBLE  
DRAINAGE**



## PUMP PERFORMANCE

Model:	P2001 N	P2001 H	P2001 V
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	5.8	5.8	5.8
<b>Max power input (Kw):</b>	6.8	6.8	6.8
<b>Running current: (Amps)</b>	12	12	12
<b>Discharge Spigot:</b>	3" OR 4" Bauer		
<b>Dimensions: (H x W) mm</b>	686 x 364		
<b>Weight: (excl cable) Kg</b>	50		

Please see the pump accessory section



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**SUBMERSIBLE  
DRAINAGE**

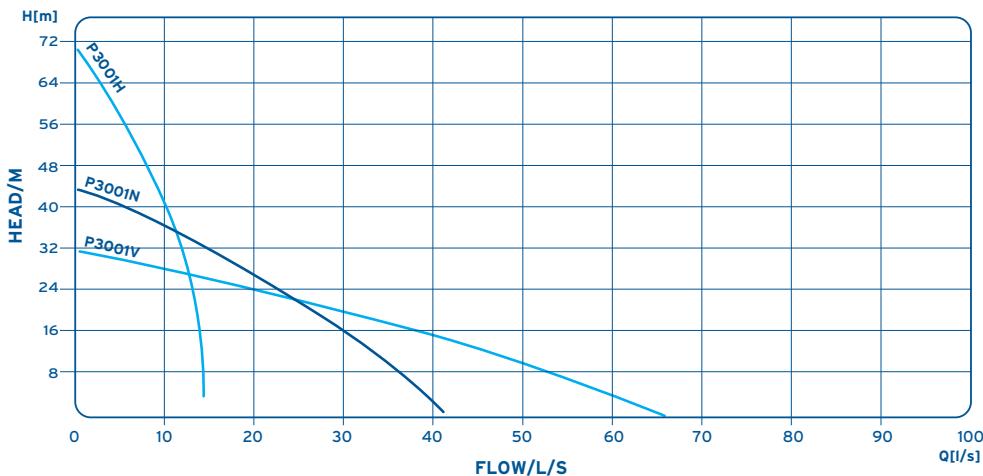


Please see the pump accessory section



## PUMP PERFORMANCE

Model:	P3001 N	P3001 H	P3001 V
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	9.4	9.4	9.4
<b>Max power input (Kw):</b>	10.8	10.8	10.8
<b>Running current: (Amps)</b>	18	18	18
<b>Discharge Spigot:</b>	4" OR 6" Bauer		
<b>Dimensions: (H x W) mm</b>	771 x 364		
<b>Weight: (excl cable) Kg</b>	70 (P3001 N, P3001 V) 75 (P3001 H)		



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**SUBMERSIBLE  
DRAINAGE**

P3001

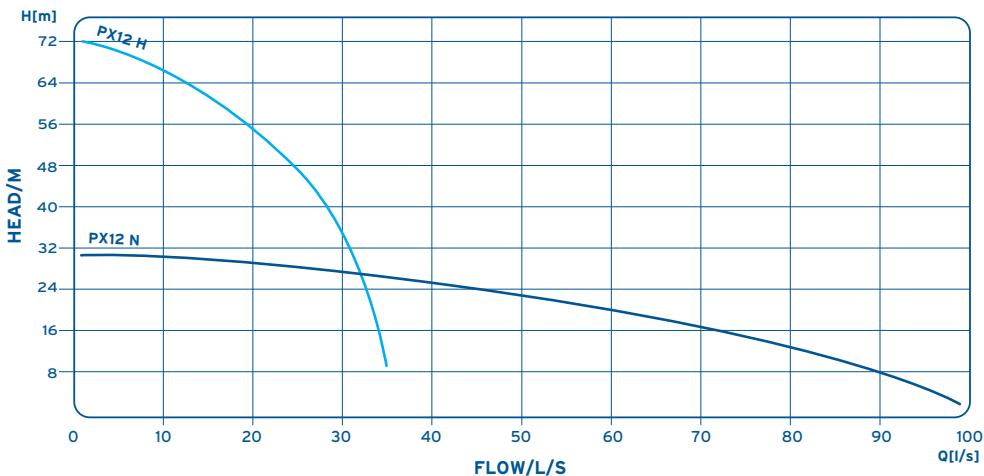
**78**



## PUMP PERFORMANCE

<b>Model:</b>	PX12 N Medium Head PX12 H High Head
<b>Motor type (V):</b>	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	22
<b>Max power input (Kw):</b>	24
<b>Running current: (Amps)</b>	44
<b>Discharge Spigot:</b>	4" or 6" Bauer
<b>Dimensions: (H x W) mm</b>	915 x 570
<b>Weight: (excl cable) Kg</b>	160

Please see the pump accessory section



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**SUBMERSIBLE  
DRAINAGE**

PX12

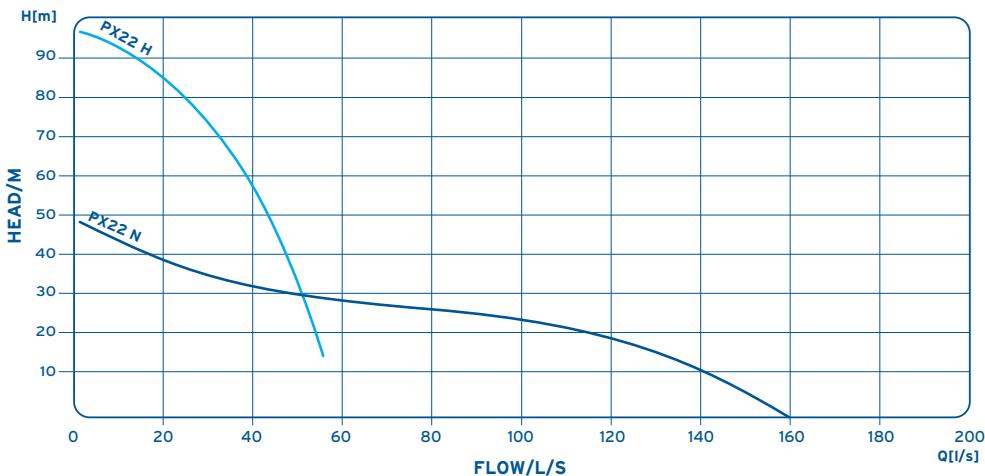
**80**



## PUMP PERFORMANCE

Model:	PX22 N	PX22 H
	Medium Head	High Head
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	35.0	35.0
<b>Max power input (Kw):</b>	39.5	39.5
<b>Running current: (Amps)</b>	64	64
<b>Discharge Spigot:</b>	6", 8" Bauer	6", 8" Bauer
<b>Dimensions: (H x W) mm</b>	1150 x 705	1070 x 705
<b>Weight: (excl cable) Kg</b>	270	270

Please see the pump accessory section



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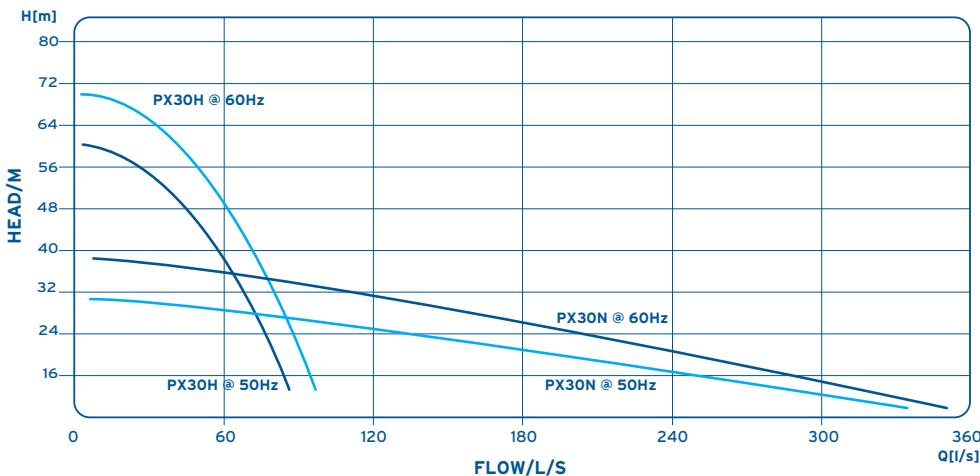
**SUBMERSIBLE  
DRAINAGE**



## PUMP PERFORMANCE

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

Please see the pump accessory section



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**SUBMERSIBLE  
DRAINAGE**

PX30

**84**

# PC1001 PC1501

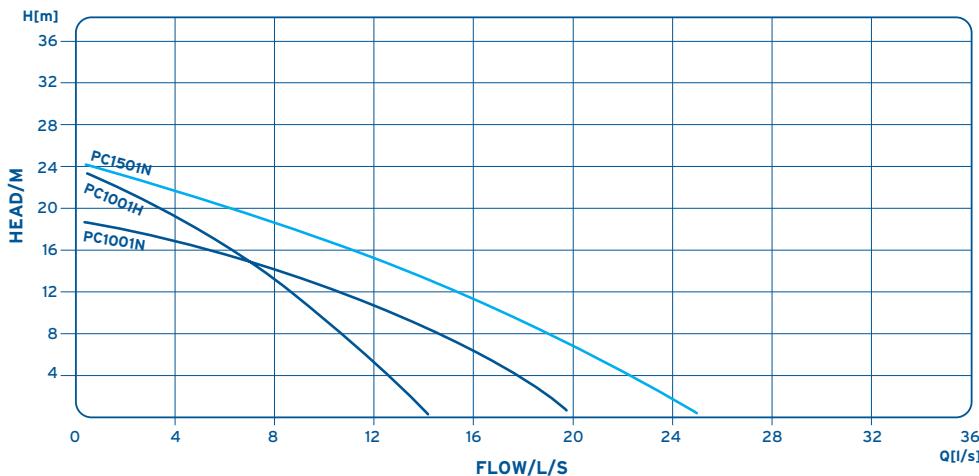


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	PC1001 N/H Medium/ High Head	PC1501 N Medium Head
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	2.2	4.2
<b>Max power input (Kw):</b>	3.0	5.0
<b>Running current: (Amps)</b>	5.5	8.7
<b>Discharge Spigot:</b>	BSP 3" or Bauer	
<b>Dimensions: (H x W) mm</b>	540 x 230	567 x 296
<b>Weight: (excl cable) Kg</b>	27	36



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**SUBMERSIBLE  
DRAINAGE**

PC1001  
PC1501

**86**

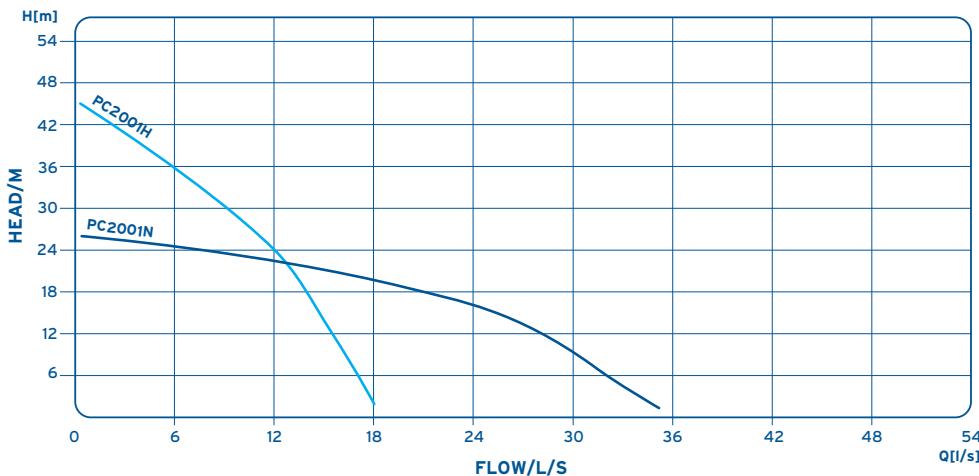


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	PC2001N Medium Head PC2001H High Head
<b>Motor type (V):</b>	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	5.8
<b>Max power input (Kw):</b>	6.8
<b>Running current: (Amps)</b>	12
<b>Discharge Spigot:</b>	BSP 3", 4" or Bauer
<b>Dimensions: (H x W) mm</b>	650 x 285
<b>Weight: (excl cable) Kg</b>	50



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**SUBMERSIBLE  
DRAINAGE**

PC2001

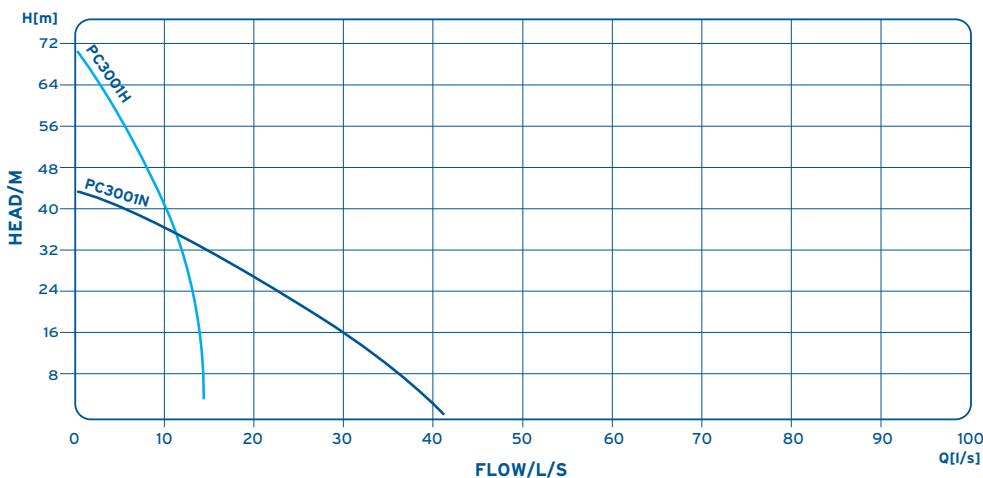


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	PC3001N Medium Head PC3001H High Head
<b>Motor type (V):</b>	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	9.4
<b>Max power input (Kw):</b>	10.8
<b>Running current: (Amps)</b>	18
<b>Discharge Spigot:</b>	BSP 3", 4" or Bauer
<b>Dimensions: (H x W) mm</b>	724 x 289
<b>Weight: (excl cable) Kg</b>	70



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**SUBMERSIBLE  
DRAINAGE**

PC3001

**90**



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

.....

The Sykes range of Electric Submersible Sludge Pumps, are ideal for pumping sludge, water with large sludge content and contaminated liquids. Sykes sludge pumps capacity ranges from up to 30 litres per second and are capable of delivering heads of over 30 meters. These light, portable, hard wearing pumps are compact in design, reliable and simple to install and maintain. Like all Sykes pumps, you can be assured of long trouble free performance.

Sykes also offer a full selection of control panels. The panels enable the user to leave pumps unattended for long periods whilst

improving safety, efficiency and reducing wear on the pump. For pumps of up to 1kW the PLC range of panels are used, these are available in 1 phase or 3 phase.

The larger pumps use soft start control panels to ensure smooth starting from the minimum mains or generator power supply. This gives the user considerable fuel savings.

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

**SYKES PUMPS** 

**SUBMERSIBLE SLUDGE**

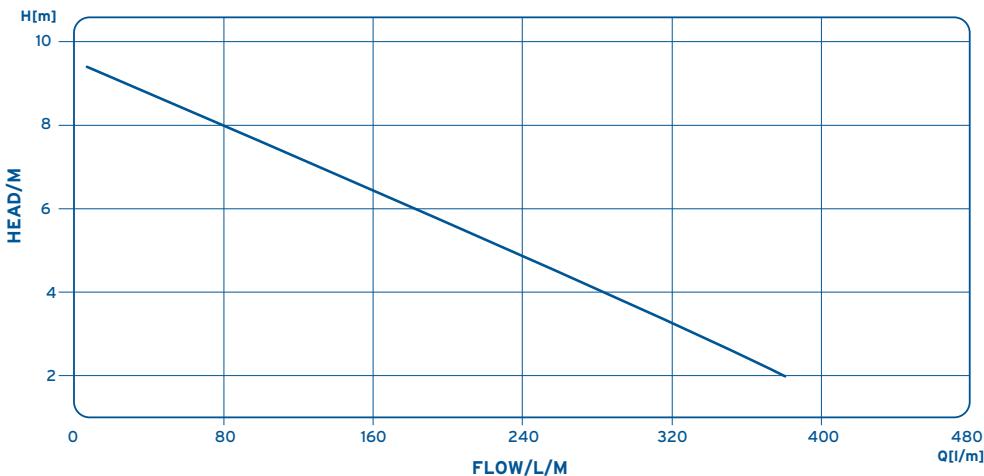


Please see the pump  
accessory section



## 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 (75 mm)
Dimensions: (H x W) mm	495 x 530
Weight: (excl cable) Kg	25.4
Integral float control	



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**SUBMERSIBLE  
SLUDGE**

JS750 SV

**96**

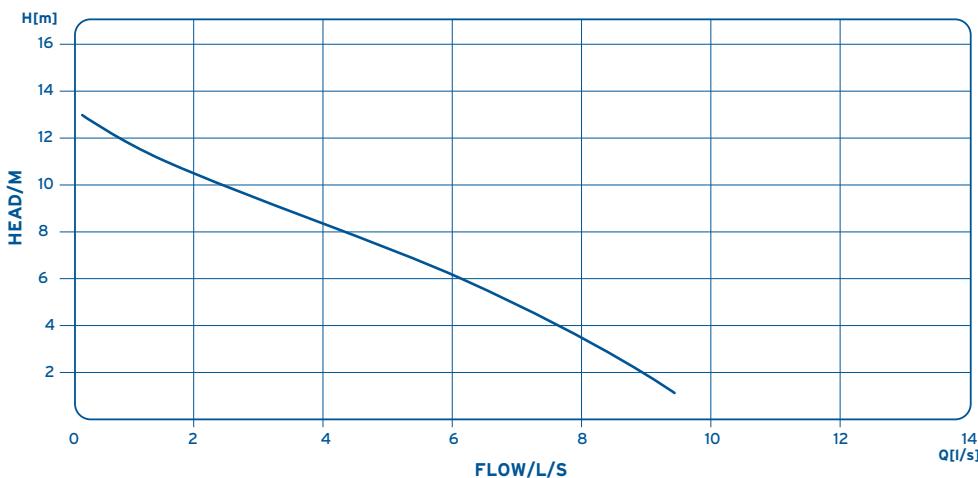


Please see the pump accessory section



## 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 (75 mm)
Dimensions: (H x W) mm	700 x 320
Weight: (excl cable) Kg	29



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**SUBMERSIBLE  
SLUDGE**

SP20

**98**

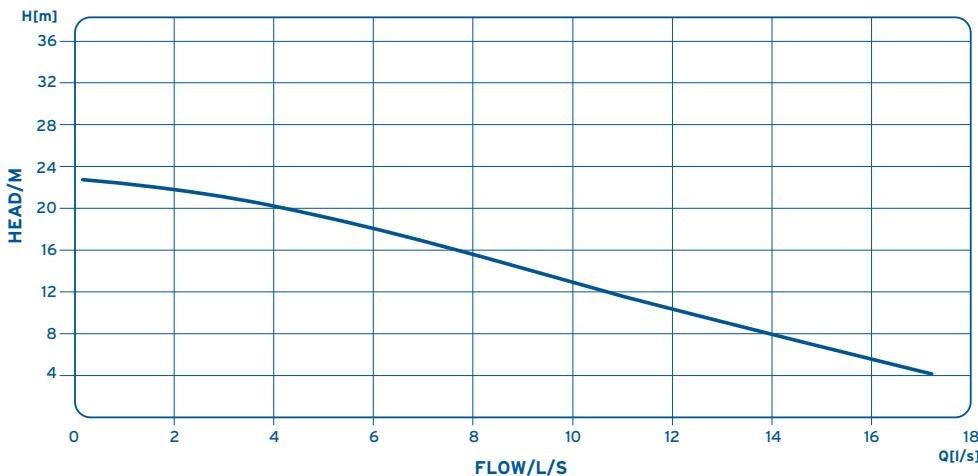


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	SP 30
<b>Motor type (V):</b>	415 (3-Phase) - 50 Hz
<b>Motor rating (Kw):</b>	3.3
<b>Max power input (Kw):</b>	3.9
<b>Running current: (Amps)</b>	6.8
<b>Max solids (mm):</b>	60
<b>Discharge Spigot:</b>	3" Bauer (75 mm)
<b>Dimensions: (H x W) mm</b>	700 x 320
<b>Weight: (excl cable) Kg</b>	34



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**SUBMERSIBLE  
SLUDGE**

SP30

100

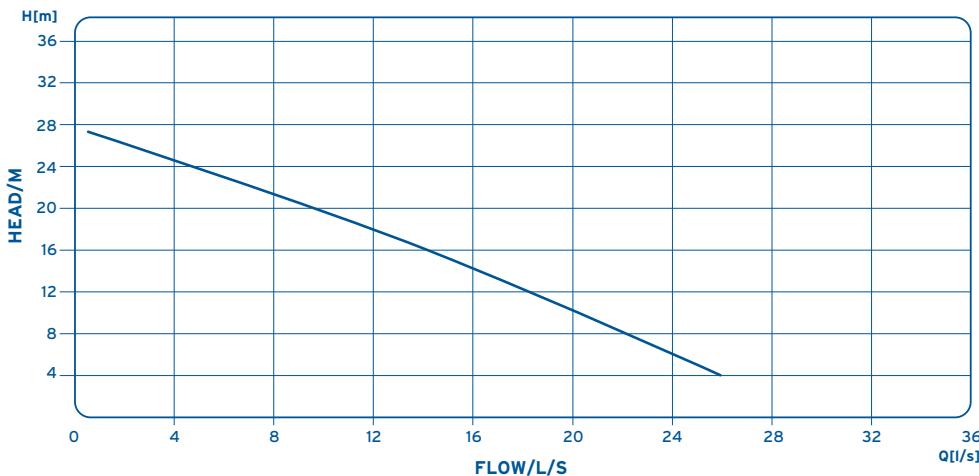


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	SP 50
<b>Motor type (V):</b>	415 (3-Phase) - 50 Hz
<b>Motor rating (Kw):</b>	5.2
<b>Max power input (Kw):</b>	6.2
<b>Running current: (Amps)</b>	11
<b>Max solids (mm):</b>	65
<b>Discharge Spigot:</b>	4" Bauer (100 mm)
<b>Dimensions: (H x W) mm</b>	760 x 410
<b>Weight: (excl cable) Kg</b>	52



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**SUBMERSIBLE  
SLUDGE**

SP50

102

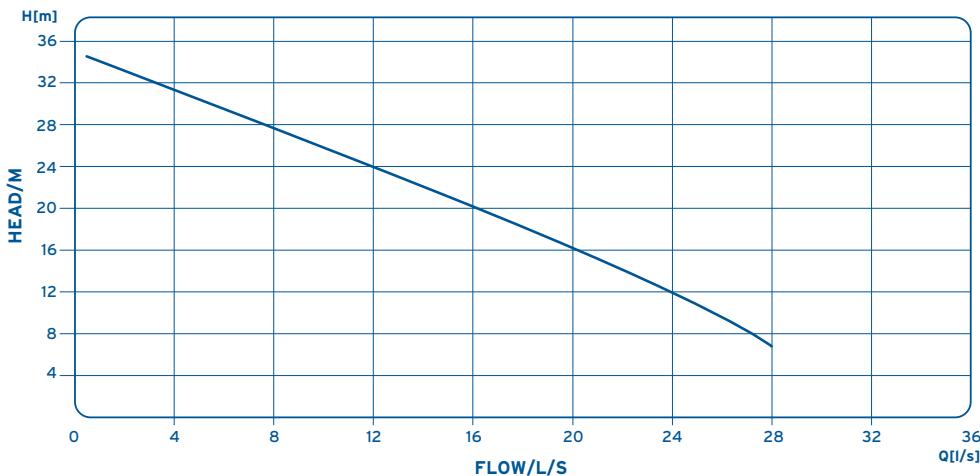


Please see the pump accessory section



## PUMP PERFORMANCE

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



# >SUBMERSIBLE WASTEWATER



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

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

The Sykes range of 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 that the correct model is used, we would recommend that one of our specialist pump engineers surveys your requirements to specify the correct model.

**SYKES PUMPS** 

**SUBMERSIBLE  
WASTEWATER**

# AFPK0832 & CS3102

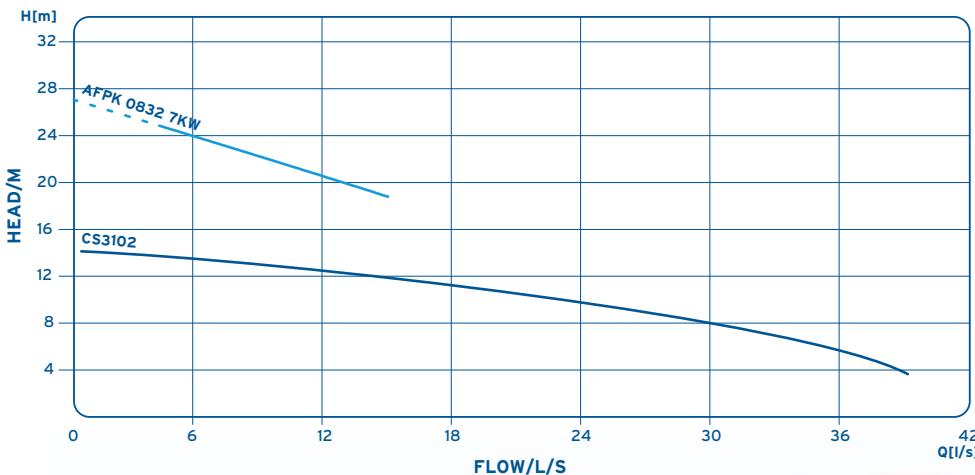


Please see the pump accessory section



## 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



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**SUBMERSIBLE  
WASTEWATER**

AFPK0832  
CS3102

**108**

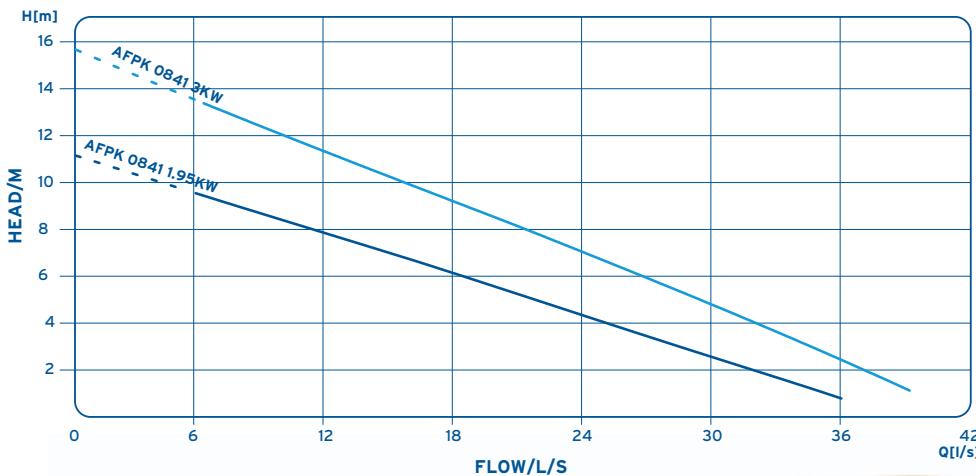


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	AFPK 0841	AFPK 0841
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	1.95	3
<b>Running current (Amps)</b> :	4.6	7.0
<b>Running speed:</b>	1450 rpm	1450 rpm
<b>Discharge port (mm):</b>	80	80
<b>Suction inlet port (mm):</b>	100	100
<b>Maximum solids (mm):</b>	80	80
<b>EX Rated:</b>	Yes	Yes
<b>Cooling jacket:</b>	Yes	Yes
<b>Dimensions (H x W) mm:</b>		
<b>Guide rail option:</b>	655 x 455	655 x 455
<b>Weight (Kg):</b>	95	95
<b>Transportable option:</b>	795 x 675	795 x 675
<b>Weight (Kg):</b>	105	105



# AFPK0842/ 0844

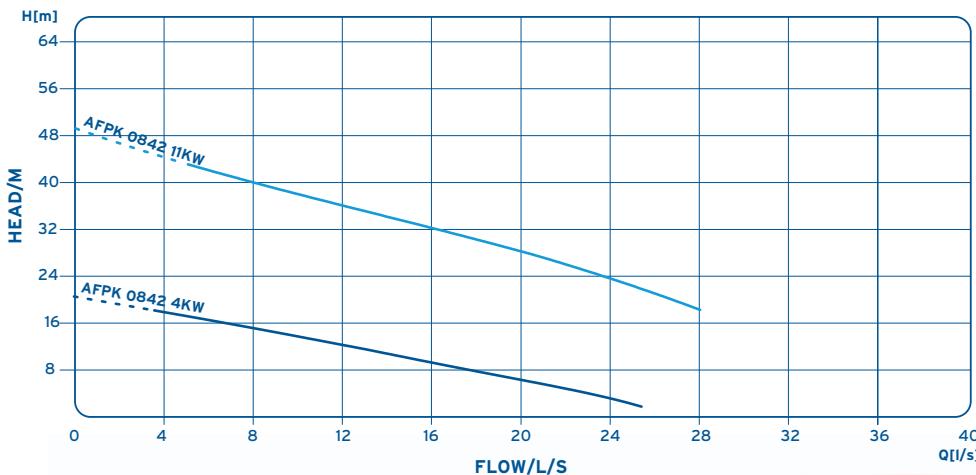


Please see the pump accessory section



## PUMP PERFORMANCE

Model:	AFPK0842	AFPK0844
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



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**SUBMERSIBLE  
WASTEWATER**

AFPK0842/0844

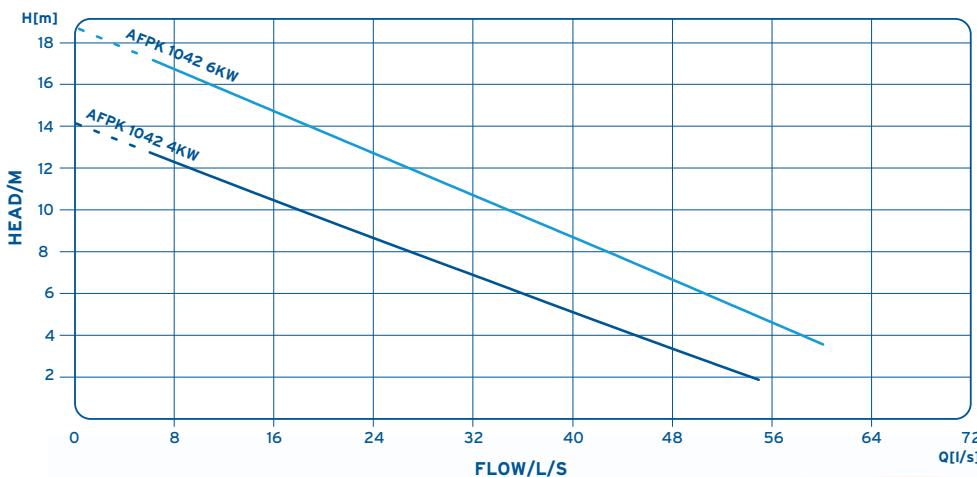


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	AFPK1042	AFPK1042
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	4	6
<b>Running current: (Amps)</b>	8.8	12.5
<b>Running speed:</b>	1450 rpm	1450 rpm
<b>Discharge port (mm):</b>	100	100
<b>Suction inlet port (mm):</b>	100	100
<b>Maximum solids (mm):</b>	100	100
<b>EX Rated:</b>	Yes	Yes
<b>Cooling jacket:</b>	Yes	Yes
<b>Dimensions (H x W) mm:</b>		
<b>Guide rail option:</b>	735 x 455	735 x 455
<b>Weight (Kg):</b>	121	125
<b>Transportable option:</b>	870 x 750	870 x 750
<b>Weight (Kg):</b>	141	144



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**SUBMERSIBLE  
WASTEWATER**

AFPK1042



Please see the pump accessory section



## 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

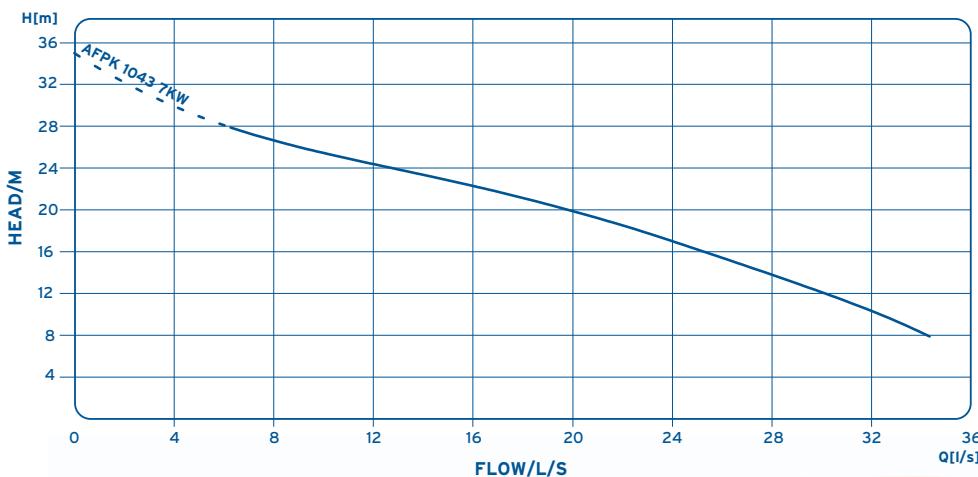
### Dimensions (H x W) mm:

**Guide rail option:** 725 x 455

**Weight (Kg):** 125

**Transportable option:** 855 x 720

**Weight (Kg):** 124



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**SUBMERSIBLE  
WASTEWATER**

AFPK1043

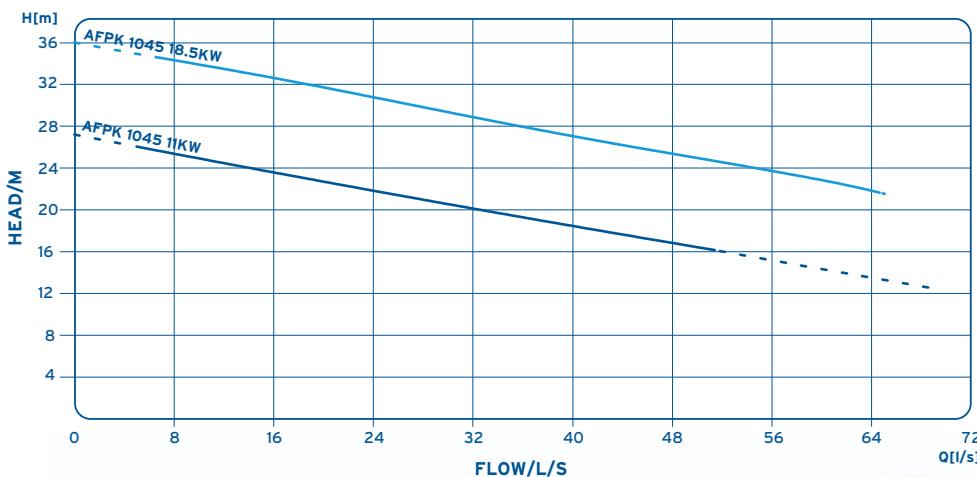


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	AFPK1045	AFPK1045
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	11	18.5
<b>Running current: (Amps)</b>	22.1	35.6
<b>Running speed:</b>	1450 rpm	1450 rpm
<b>Discharge port (mm):</b>	100	100
<b>Suction inlet port (mm):</b>	150	150
<b>Maximum solids (mm):</b>	100	100
<b>EX Rated:</b>	No	No
<b>Cooling jacket:</b>	Yes	Yes
<b>Dimensions (H x W) mm:</b>		
<b>Guide rail option:</b>	1145 x 550	1145 x 550
<b>Weight (Kg):</b>	310	320
<b>Transportable option:</b>	1295 x 940	1295 x 940
<b>Weight (Kg):</b>	330	340



# AFPK1048 & XFP101G

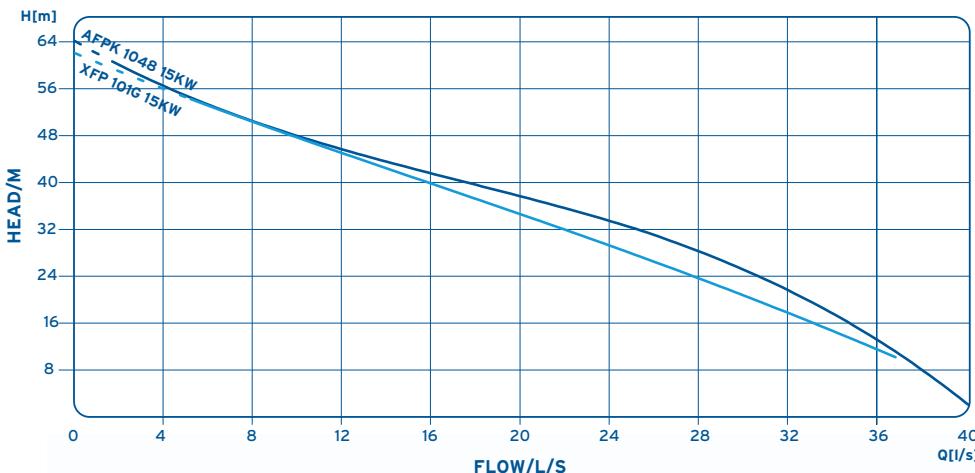


Please see the pump accessory section



## 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



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**SUBMERSIBLE  
WASTEWATER**

AFPK1048  
XFP101G

**120**

# AFPK1049 & AFPI049

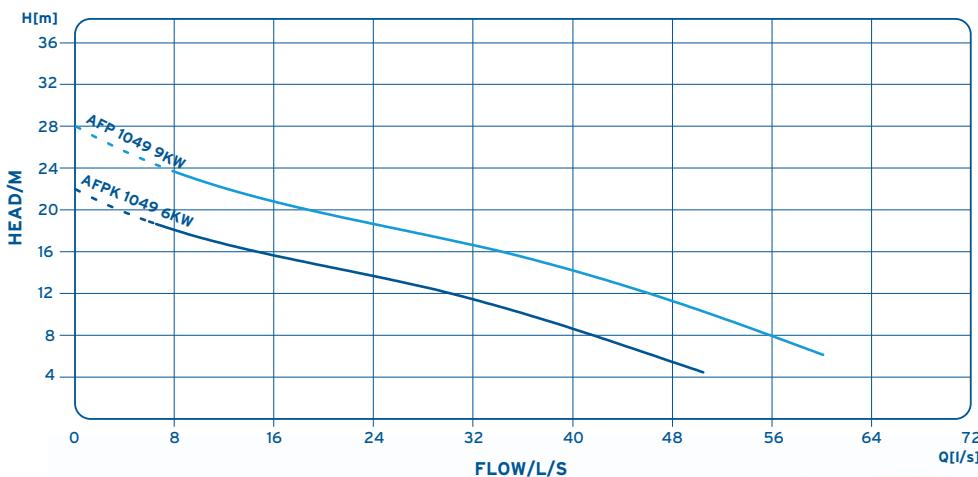


Please see the pump accessory section



## PUMP PERFORMANCE

Model:	AFPK1049	AFPI049
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



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**SUBMERSIBLE  
WASTEWATER**

AFPK1049  
AFPI049

**122**

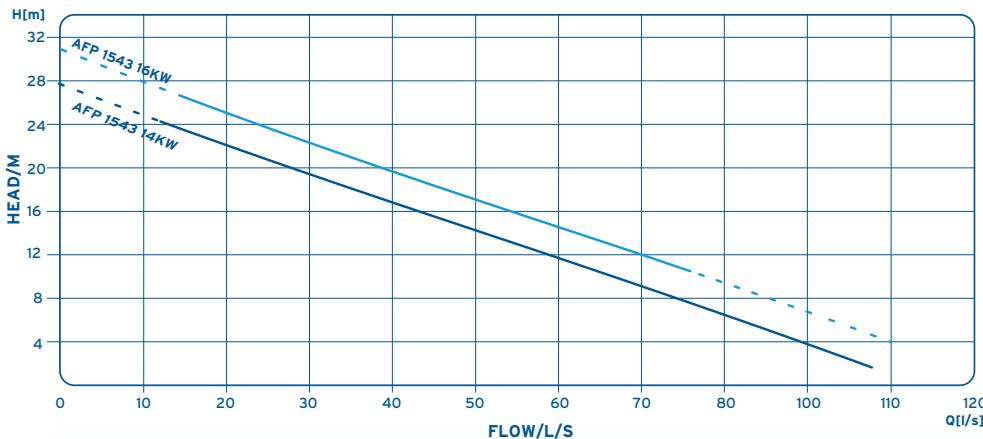


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Model:</b>	AFP1543	AFP/K1543
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	14	16
<b>Running current: (Amps)</b>	28.8	32
<b>Running speed:</b>	1450 rpm	1450 rpm
<b>Discharge port (mm):</b>	150	150
<b>Suction inlet port (mm):</b>	150	150
<b>Maximum solids (mm):</b>	100	100
<b>EX Rated:</b>	Yes	Yes/No
<b>Cooling jacket:</b>	Yes	Yes/No
<b>Dimensions (H x W) mm:</b>		
<b>Guide rail option:</b>	1155 x 585	1155 x 585
<b>Weight (Kg):</b>	340	340
<b>Transportable option:</b>	1325 x 998	1325 x 998
<b>Weight (Kg):</b>	370	370



# KE155 & KE152

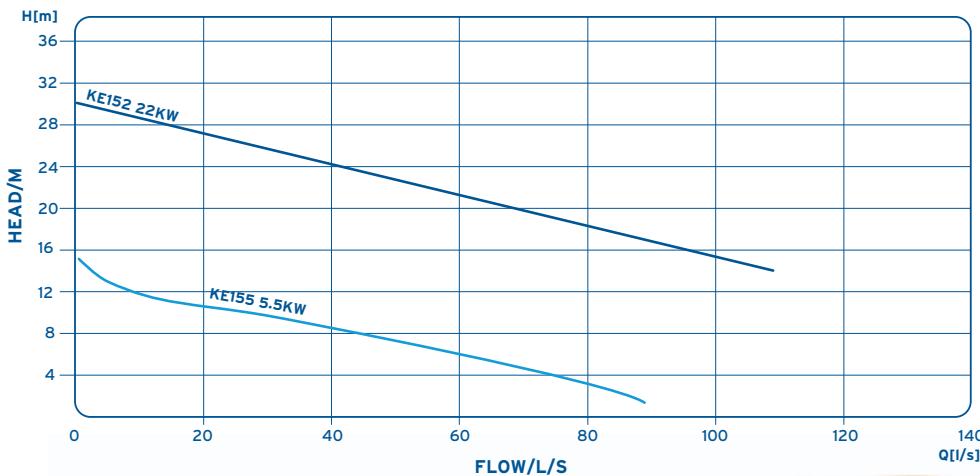


Please see the pump  
accessory section



## PUMP PERFORMANCE

Model:	KE155	KE152
Motor type (V):	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
Motor rating (Kw):	5.5	22
Running current: (Amps)	11	44
Running speed:	1450 rpm	1450 rpm
Discharge port (mm):	150	150
Suction inlet port (mm):	150	150
Maximum solids (mm):	80	90 x 70
EX Rated:	No	No
Cooling jacket:	No	Yes
Dimensions (H x W) mm:		
Guide rail option:	N/A	1220 x 705
Weight (Kg):	N/A	440
Transportable option:	1025 x 630	1370 x 1125
Weight (Kg):	260	485



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**SUBMERSIBLE  
WASTEWATER**

KE155  
KE152

**126**

# XFP100J & AFPK1552

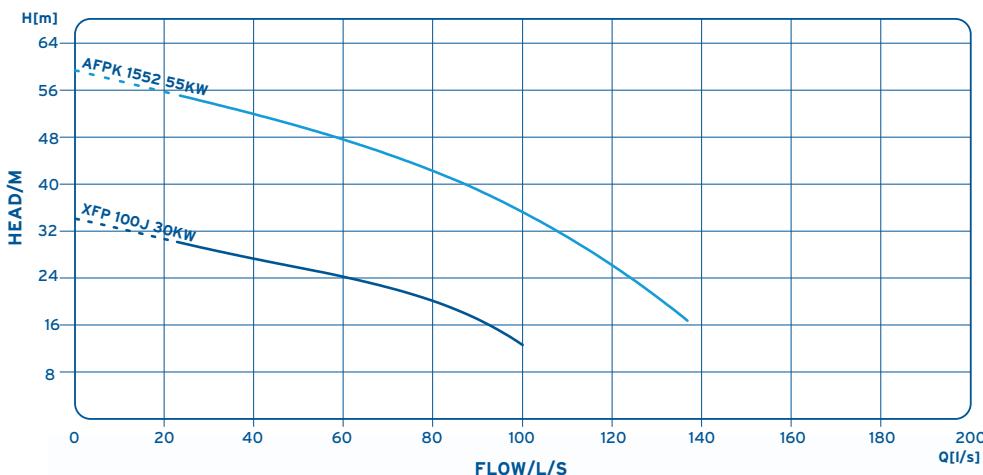


Please see the pump accessory section



## PUMP PERFORMANCE

Model:	XFP100J	AFPK1552
Motor type (V):	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
Motor rating (Kw):	30	55
Running current: (Amps)	54.6	90
Running speed:	1450 rpm	1450 rpm
Discharge port (mm):	150	150
Suction inlet port (mm):	150	150
Maximum solids (mm):	80	77 x 52
EX Rated:	Yes	Yes
Cooling jacket:	Yes	Yes
Dimensions (H x W) mm:		
Guide rail option:	666 x 670	1575 x 845
Weight (Kg):	610	965
Transportable option:	1600 x 998	1715 x 1220
Weight (Kg):	640	995



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**SUBMERSIBLE  
WASTEWATER**

XFP100J  
AFPK1552

**128**

# AFPK1575 & KE203

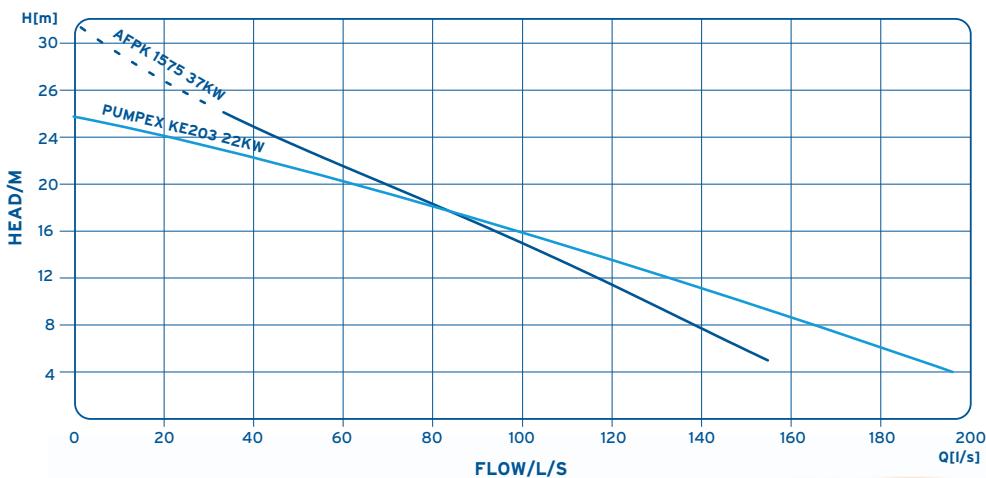


Please see the pump accessory section



## PUMP PERFORMANCE

Model:	AFPK1575	KE203
Motor type (V):	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
Motor rating (Kw):	37	22
Running current: (Amps)	69	44
Running speed:	1450 rpm	1450 rpm
Discharge port (mm):	150	200
Suction inlet port (mm):	150	200
Maximum solids (mm):	100	90 x 70
EX Rated:	Yes	No
Cooling jacket:	Yes	Yes
Dimensions (H x W) mm:		
Guide rail option:	1330 x 670	1235 x 720
Weight (Kg):	582	440
Transportable option:	1485 x 1020	1380 x 1255
Weight (Kg):	612	500



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**SUBMERSIBLE  
WASTEWATER**

AFPK1575  
KE203

**130**

# AFPK2045 & XFP200G

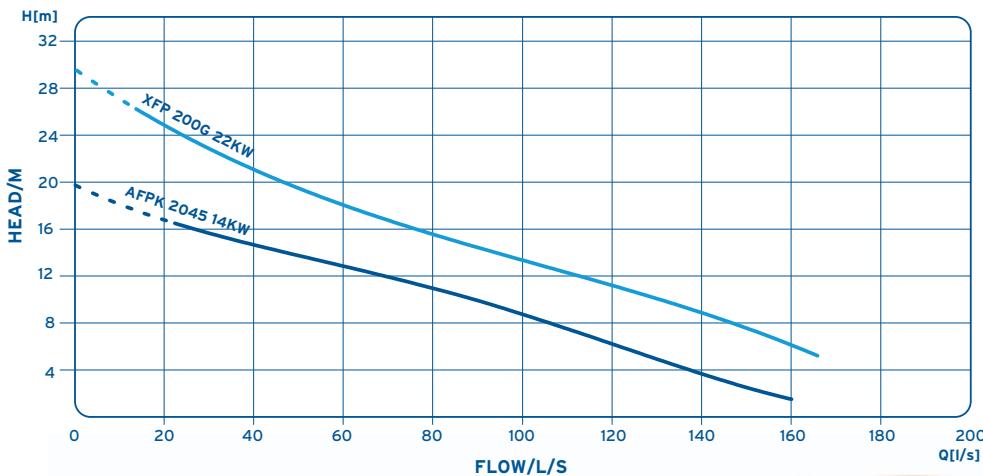


Please see the pump accessory section



## 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



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**SUBMERSIBLE  
WASTEWATER**

AFPK2045  
XFP200G

# KE304 & AFPK2073



Please see the pump  
accessory section

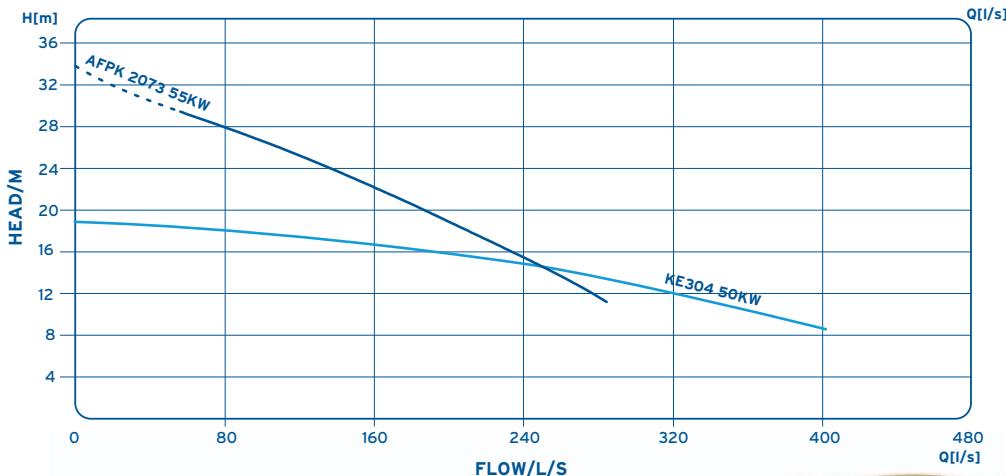


## PUMP PERFORMANCE

<b>Model:</b>	KE304	AFPK2073
<b>Motor type (V):</b>	415 (3-Phase) 50Hz	415 (3-Phase) 50Hz
<b>Motor rating (Kw):</b>	50	55
<b>Running current (Amps):</b>	91	94
<b>Running speed:</b>	980 rpm	1450 rpm
<b>Discharge port (mm):</b>	300	200
<b>Suction inlet port (mm):</b>	300	200
<b>Maximum solids (mm):</b>	100 x 150	100
<b>EX Rated:</b>	No	Yes
<b>Cooling jacket:</b>	Yes	Yes

### Dimensions (H x W) mm:

<b>Guide rail option:</b>	1630 x 1100	1490 x 775
<b>Weight (Kg):</b>	1060	900
<b>Transportable option:</b>	1850 x 1730	1520 x 1235
<b>Weight (Kg):</b>	1070	940



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**SUBMERSIBLE  
WASTEWATER**

KE304  
AFPK2073

**134**



Please see the pump accessory section



## 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

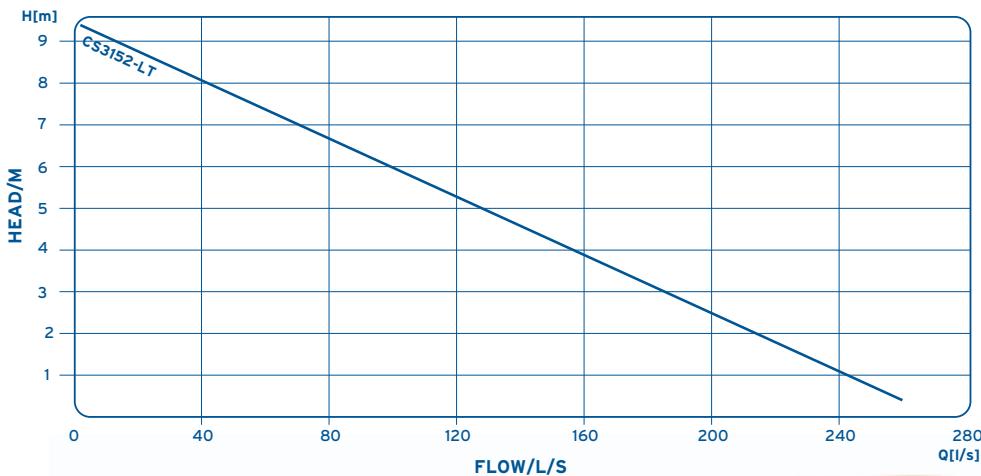
**Dimensions (H x W) mm:**

**Guide rail option:** 1055 x 765

**Weight (Kg):** 300

**Transportable option:** 1255 x 1315

**Weight (Kg):** 360



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**SUBMERSIBLE  
WASTEWATER**

CS3152-LT

**136**

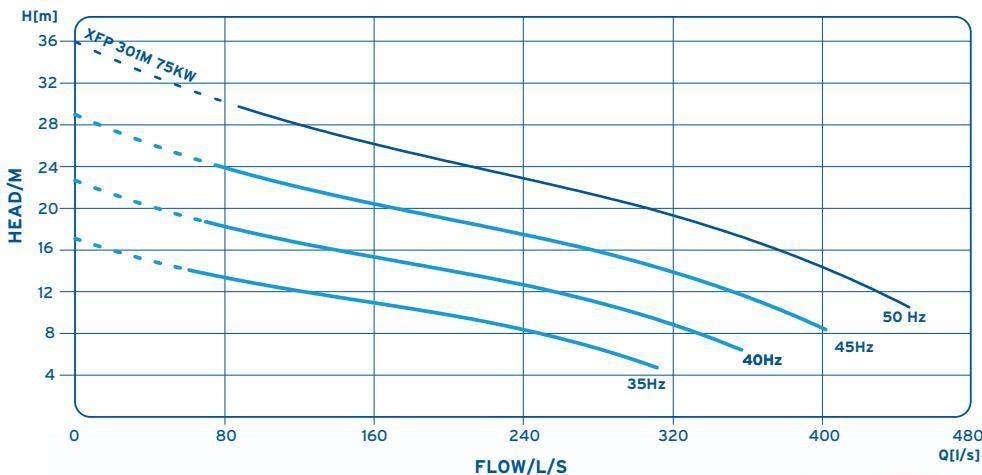


Please see the pump accessory section



## 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 1725
Weight (Kg):	1470



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**SUBMERSIBLE  
WASTEWATER**

XFP301M

**138**

# >CONTROL PANELS

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

For pumps of up to 11kw the PLC range of panels can be used, these are available in 1 phase or 3 phase. Built in a strong robust frame the panels include: DOL Starter, Overloads, Run and Tripped Lamps, Door Interlocking Isolator, RCCD, Float Switch Level Control and On-Off-Auto Selector. Alternative variable 1 to 15kw panels can be used.

The larger pumps use soft start control panels to ensure smooth starting from the minimum mains or generator power supply. This gives the user considerable fuel savings. The robust free standing panels use a variable soft starter and include: overloads, run and tripped lamps, door interlocking isolator, RCCD, float switch level control and on-off-auto selector. Alternative 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.

**SYKES PUMPS** 

**CONTROL PANELS**



# 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

**142**

# 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



## **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

**146**

# VARIABLE SPEED DRIVE PANEL



## EXTERNAL FEATURES

- Padlockable 'door shut' overclaps
- 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

**148**

# >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.

**SYKES PUMPS** 

**AIR PUMPS**



## 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

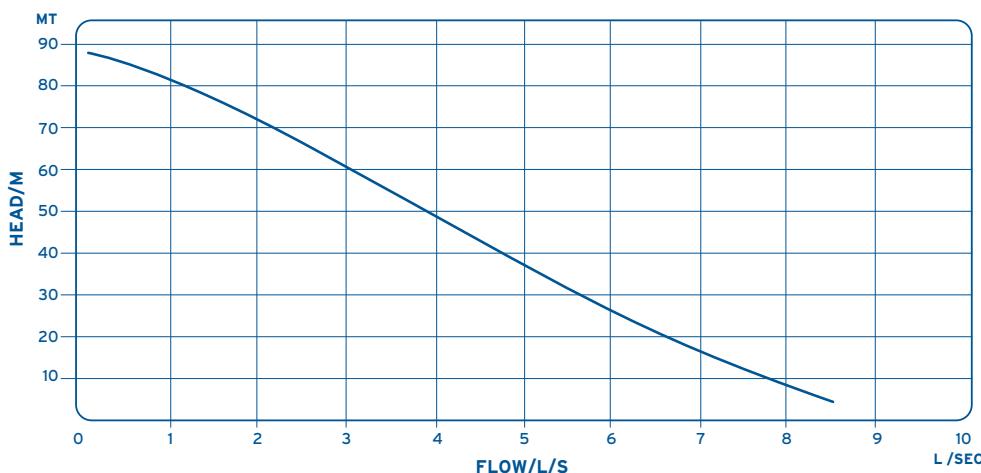
**Pipe connections:** 2" BSP

**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

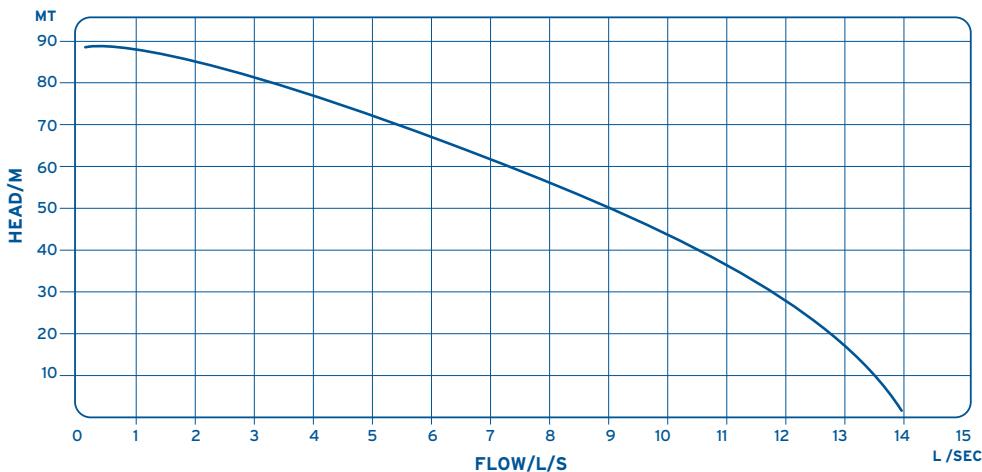
**152**



## PUMP PERFORMANCE

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

Please see the pump accessory section



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**AIR PUMPS**

BEAVER 75

**154**

# >SUBMERSIBLES HYDRAULIC

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When suction lift requirements exceed 9 metres for a diesel driven pumpset an alternative solution would be the use of a hydraulically driven submersible pump. A centrifugal solids handling submersible pump is driven by an integral hydraulic motor. The motor is fed via 20 metres of flexible hose from a hydraulic power pack which is powered by a silenced diesel engine and mounted on a four wheeled towable site trailer complete with electric start and controllers.

The powerpack comprises of a standard Sykes four wheeled chassis used throughout the Univac range incorporating a 24 hour fuel tank and a Hatz fully silenced diesel engine also used with the standard Sykes Univac range.

Unique to Sykes Pumps, the revolutionary Sweepax Submersible Hydraulic Pump is capable of handling concentrated solids. Targeted at sewage, waste water, chemicals and dredging industries, and also processes that create heavy residue such as oil refineries, the unique submersible pump is capable of handling in excess of 50% dry solids.

The Sweepax range of pumps adds a valuable dimension to Sykes comprehensive range of pumping services. The speed and effectiveness of Sweepax pumps in tackling solids and slurries is impressive and can lead to considerable cost savings for users.

**SYKES PUMPS** 

**SUBMERSIBLES HYDRAULIC**

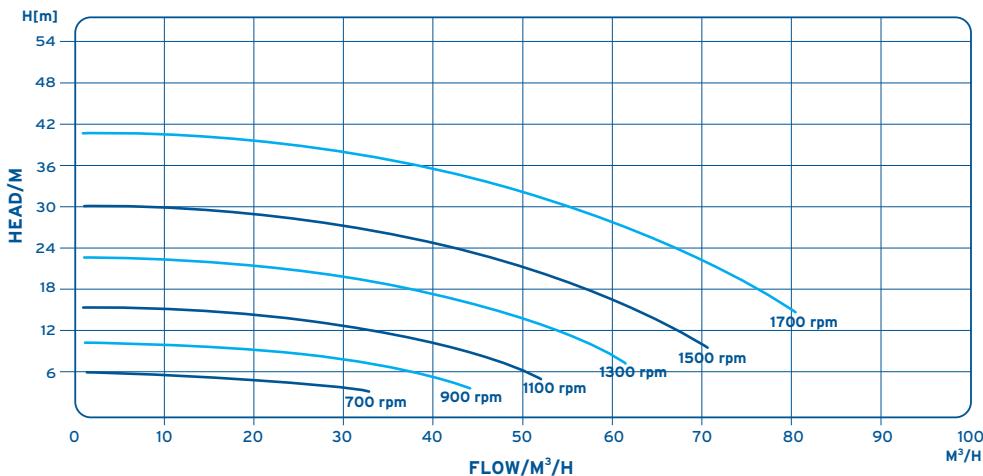


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 40 m
	Max flow: 81.0 m <sup>3</sup> /h
<b>Weight (Kg):</b>	Pump End: 100
	Powerpack: 940 with fuel
	828 kg without fuel
<b>Dimensions (mm):</b>	Pump End: 440x450 (HxW)
	Powerpack: 2620 x 1400 x 1300 (LxWxH)
	Typical length with tow bar 3300
<b>Noise level:</b>	@ 1m = 85 - 87 dBA
	@ 7m = 68 - 70 dBA
<b>Fuel tank capacity:</b>	130 litres. Max 24 hour with cleaning and flushing facilities
<b>Pipe connections:</b>	Discharge: 100 mm NPI0
	4" BSP
	4" Bauer couplings option
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 6 litres/hour



The curves shown give an indication only of performance they should be used for guidance only.  
Flows will vary dependant on application and the density of product being pumped.

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**SUBMERSIBLES  
HYDRAULIC**

SWEEPAX 2-100

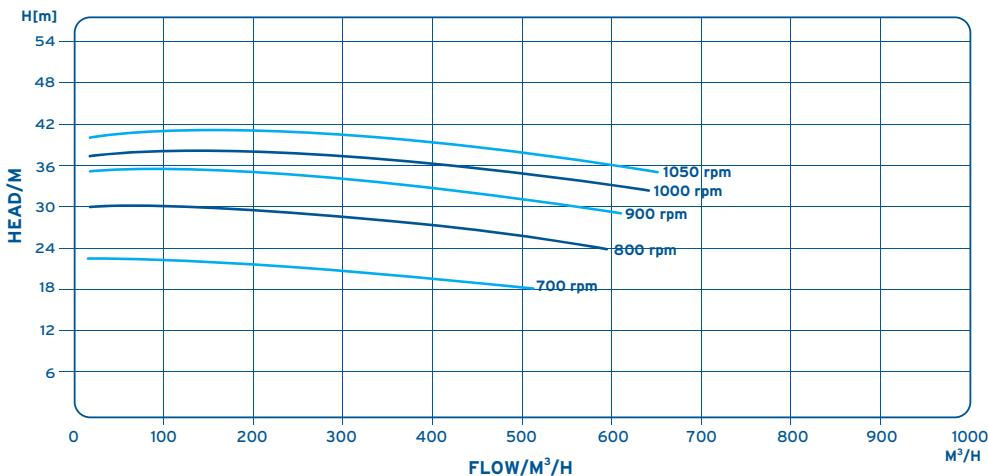


Please see the pump accessory section



## PUMP PERFORMANCE

<b>Performance:</b>	Max head: 40 m
	Max flow: 601 m <sup>3</sup> /h
<b>Weight (Kg):</b>	Pump End: 700 kg
	Powerpack: 2250 kg without fuel
	2986 kg with fuel
<b>Dimensions (mm):</b>	Pump End: 990 x 1060 (H x W)
	Powerpack: 2620 x 1400 x 1300 (L x W x H)
<b>Fuel tank capacity:</b>	818 litres. Max 24 hour with cleaning and flushing facilities
<b>Pipe connections:</b>	Discharge: 150 mm 6" Bauer couplings option
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 26 litres/hour



The curves shown give an indication only of performance they should be used for guidance only.  
Flows will vary dependant on application and the density of product being pumped.

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**SUBMERSIBLES  
HYDRAULIC**

SWEETPAX 2-150

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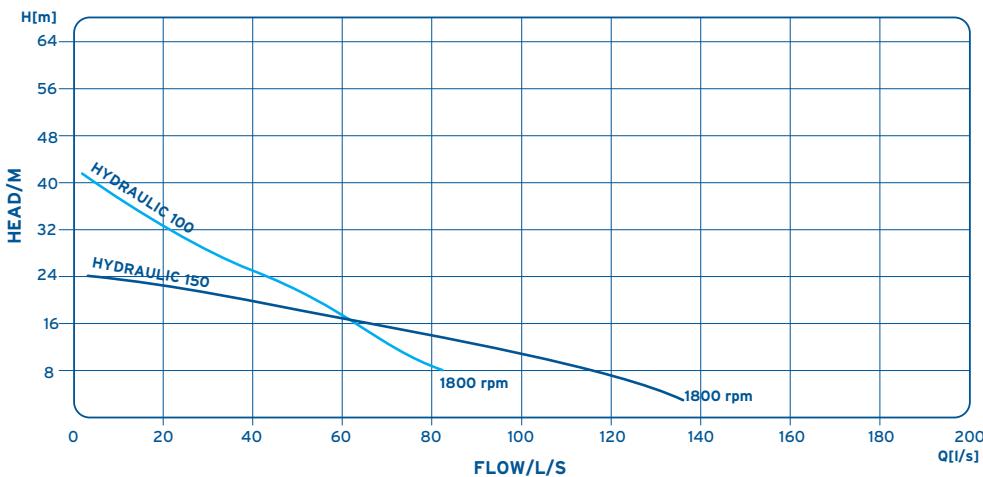
Please see the pump accessory section



# HYDRAULIC 100 & 150

## PUMP PERFORMANCE

Model:	100	150
Max head:	40 m	22 m
Max flow:	80 l/s	125.0 l/s
Max solid:	77 mm	100 mm
<b>Weight:</b>	Pump End: 195 kg Powerpack: 765 kg without fuel	
<b>Dimensions:</b> (H x W) mm	810 x 640	880 x 741
	Powerpack: 1660 x 1050 x 1664 (LxWxH)	
<b>Noise level:</b>	@ 1m = 90 - 94 dBA @ 7m = 73 - 77 dBA	
<b>Fuel tank capacity:</b>	122 litres. Max 24 hour with cleaning and flushing facilities	
<b>Pipe connections:</b>	Suction: 150 mm/Discharge: 150 mm 4" 6" Bauer couplings option	
<b>Fuel consumption:</b>	Full load @ 1800 rpm: 4.5 litres/hour	
<b>Super silenced power pack available</b>		



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**SUBMERSIBLES  
HYDRAULIC**

HYDRAULIC 100  
& 150

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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.

**SYKES PUMPS** 

**ACCESSORIES**

# LAYFLAT HOSES

## 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	



# POLYPIPE 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):	9	7	6	5	3.5



## 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

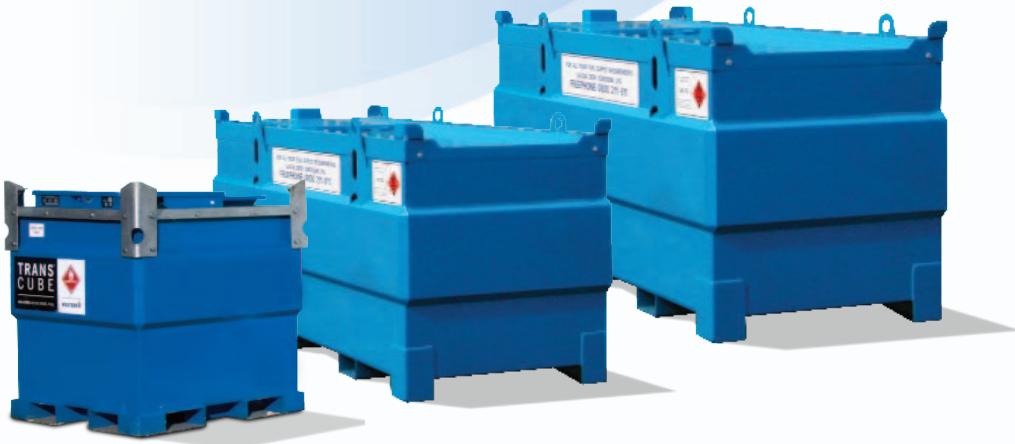
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**ACCESSORIES**

# FUEL TANKS



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 (International Built 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

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

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## ACCESSORIES

FUEL TANKS

# SETTLEMENT TANKS

## SPECIFICATION

Capacity (litres): 3000

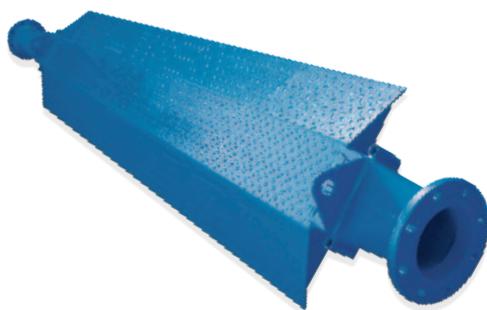
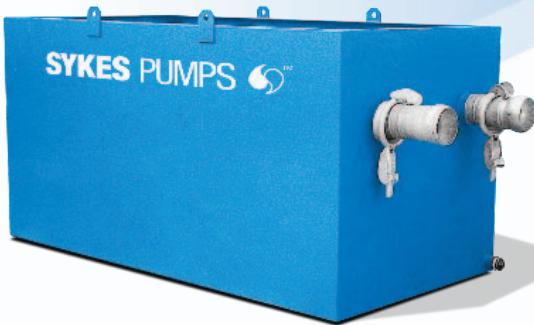
Length (mm): 2400

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.



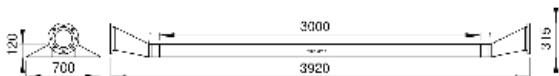
## ROAD RAMPS

## 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.



**SYKES PUMPS** 

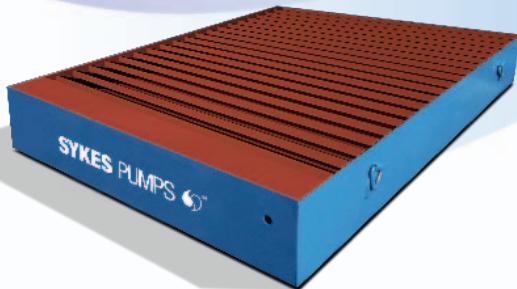
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## ACCESSORIES

SETTLEMENT TANKS  
ROAD RAMPS

# DRIP TRAYS



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 drip trays whilst working close to waterways or when there is a risk of ground water pollution.

## SPECIFICATION

Dimensions:  
(L x W x H) mm

Compatible pumps:

General Purpose	GP 50/75 GP 80 GP100M GP150M GP 200/200M
Silenced:	GP100M Hatz GP150M Hatz
	WISPASET 80
	WISPASET 100
	WISPASET 150

Weight dry (kg): 220

## 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.

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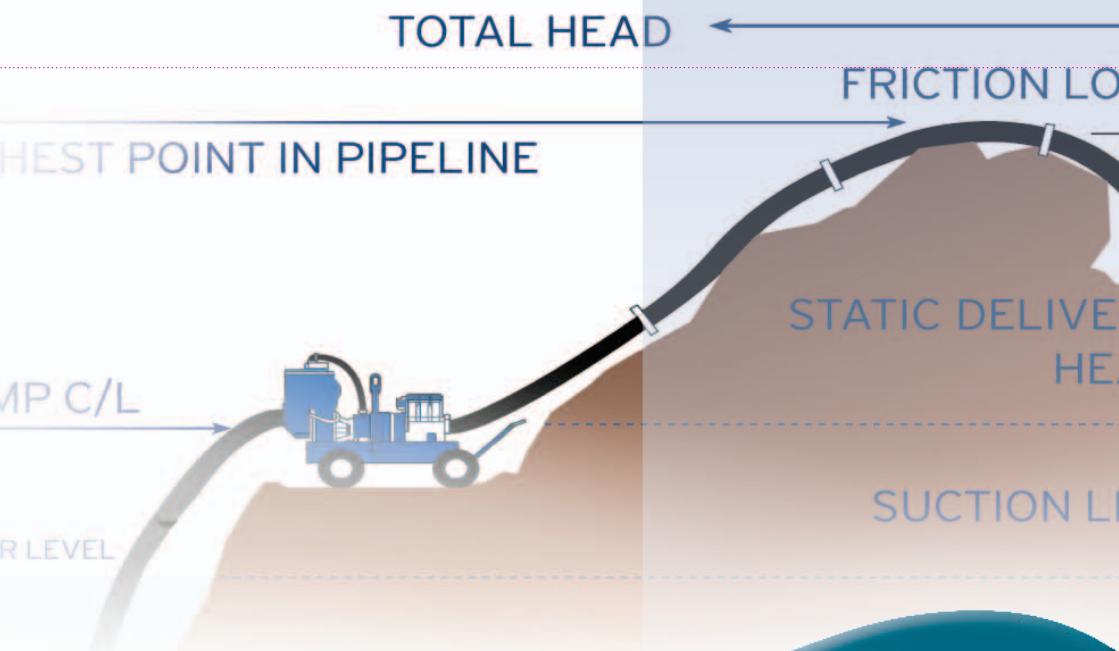
## ACCESSORIES

DRIP TRAYS  
VENTURI

# >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.



**SYKES PUMPS** 

**INFORMATION**

# 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 1/2	3 1/4	1 x 1/2	4	3/16
1	E	4 1/2	3 1/4	1 1/4 x 1/2	4	5/32
1 1/2	D	5 1/4	3 7/8	1 1/4 x 1/2	4	1/4
1 1/2	E	5 1/4	3 7/8	1 1/2 x 1/2	4	11/32
2	D	6	4 1/2	1 1/2 x 5/8	4	3/16
2	E	6	4 1/2	1 3/4 x 5/8	4	3/8
3	D	7 1/4	5 3/4	1 3/4 x 5/8	4	3/8
3	E	7 1/4	5 3/4	1 3/4 x 5/8	4	7/16
4	D	8 1/2	7	1 3/4 x 5/8	4	3/8
4	E	8 1/2	7	2 x 5/8	8	1/2
6	D	11	9 1/4	2 x 5/8	8	1/2
6	E	11	9 1/4	2 1/2 x 3/4	8	11/16
8	D	13 1/4	11 1/2	2 x 5/8	8	1/2
8	E	13 1/4	11 1/2	2 1/2 x 3/4	8	3/4
10	D	16	14	2 1/2 x 3/4	8	5/8
10	E	16	14	2 3/4 x 3/4	12	7/8
12	D	18	16	2 1/2 x 3/4	12	3/4
12	E	18	16	3 1/4 x 3/4	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	20 x 90	12	28

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**INFORMATION**

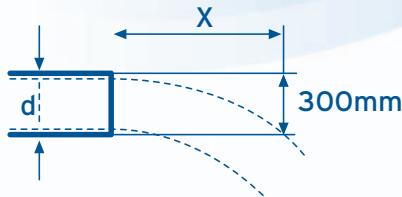
FLANGE SIZES

**180**

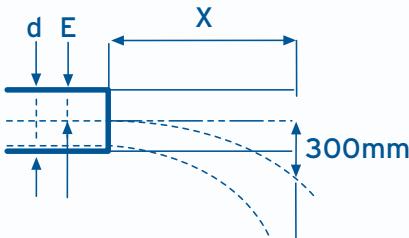
# APPROXIMATE DISCHARGE FROM PIPES

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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APPROXIMATE  
DISCHARGE FROM PIPES

## Losses in m/100 or ft/100

IGPM	I/s	2" 50mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 300mm	m <sup>3</sup> /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  
 Sluice valve = 6  
 Heavy non return valve = 60  
 Short radius bend = 30  
 45 degree bend = 15  
 Radial tee = 45

Footvalve and strainer = 75  
 Light non return valve = 36  
 Elbow = 75  
 Long radius bend = 18  
 Equal tee = 90  
 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  $\frac{H_2}{H_1} = \left(\frac{N_2}{N_1}\right)^2$  therefore  $H_2 = H_1 \left(\frac{N_2}{N_1}\right)^2$

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

## 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.

$$Q \propto D \text{ where } Q = \text{throughput} \quad H \propto D^2 \text{ where } H = \text{head}$$
$$P \propto D^3 \text{ where } P = \text{absorbed power} \quad D = \text{impeller}$$

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

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

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

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

## 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.

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

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%

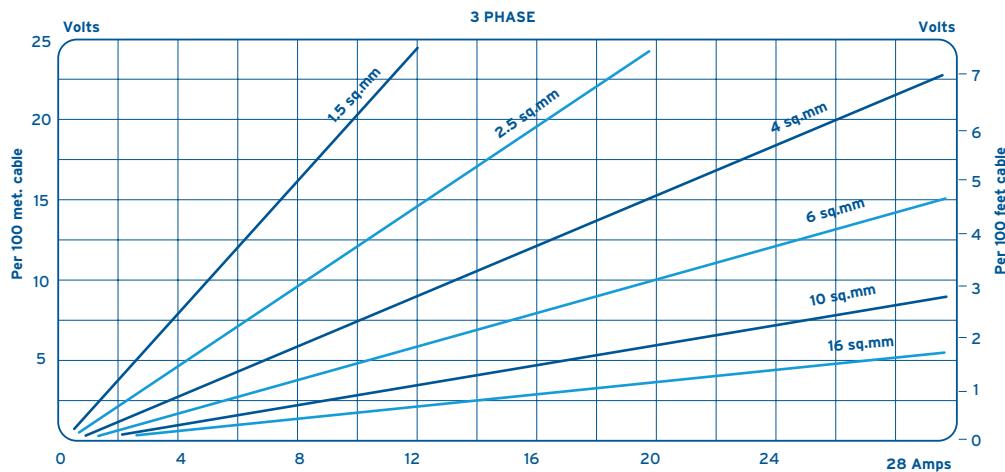
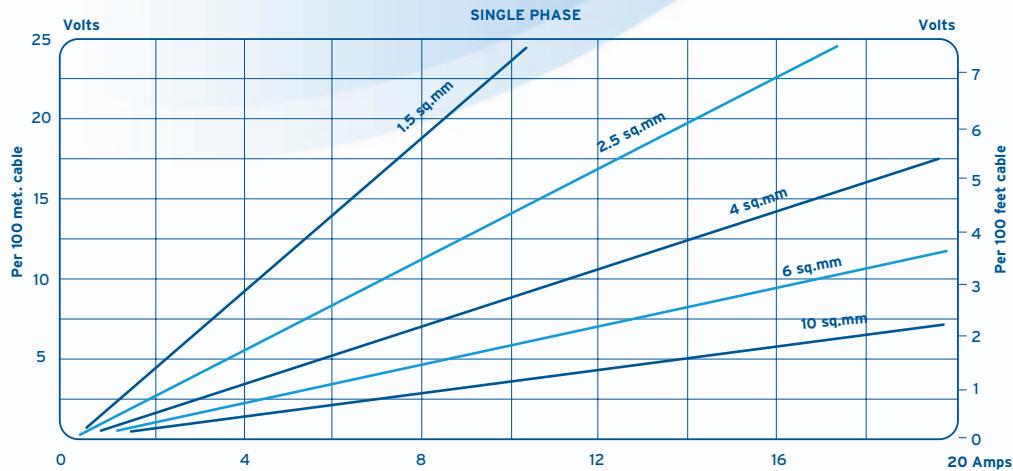
## Example

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



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**INFORMATION**

ELECTRICAL  
DATA

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# CONVERSION FACTORS

<b>Inches</b>	x	25.4	=	mm	x	0.0394	=	Inches
<b>Feet</b>	x	0.3048	=	m	x	3.281	=	Feet
<b>Yards</b>	x	0.9144	=	m	x	1.0936	=	Yards
<b>Miles</b>	x	1.609	=	km	x	0.6214	=	Miles
<b>Ft<sup>2</sup></b>	x	0.0929	=	m <sup>2</sup>	x	10.764	=	Ft <sup>2</sup>
<b>Miles<sup>2</sup></b>	x	2.59	=	km <sup>2</sup>	x	0.3861	=	Miles <sup>2</sup>
<b>In<sup>3</sup></b>	x	16387	=	mm <sup>3</sup>	x	0.000061	=	In <sup>3</sup>
<b>Ft<sup>3</sup></b>	x	0.02832	=	m <sup>3</sup>	x	35.31	=	Ft <sup>3</sup>
<b>Gals (Imp)</b>	x	4.546	=	L	x	0.22	=	Gals (Imp)
		0.004546	=	m <sup>3</sup>	x	220	=	
<b>Gals (US)</b>	x	3.785	=	L	x	0.2642	=	Gals (US)

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

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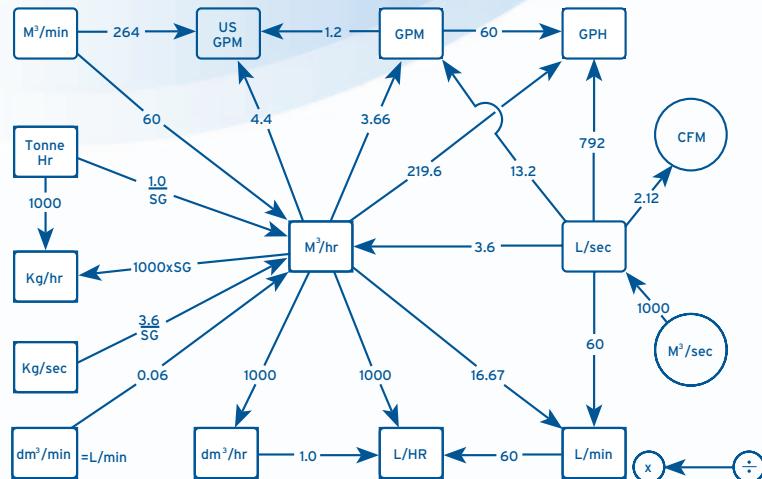
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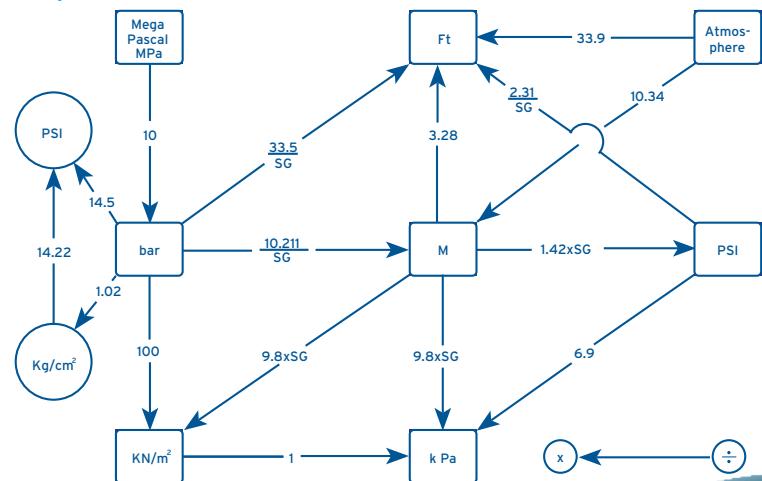
CONVERSION  
FACTORS

# CONVERSION FACTORS

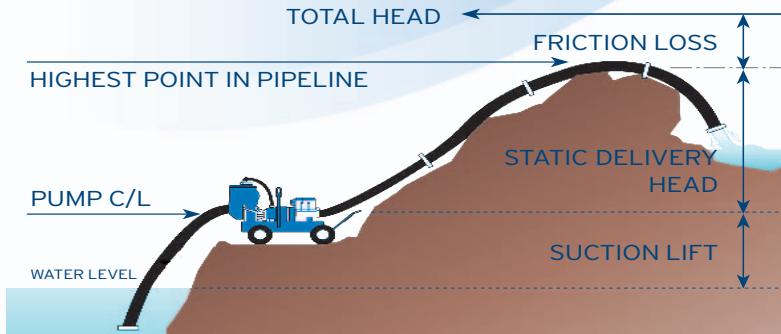
## Flow Conversion



## Head/Pressure Conversion



## Self Priming Pump

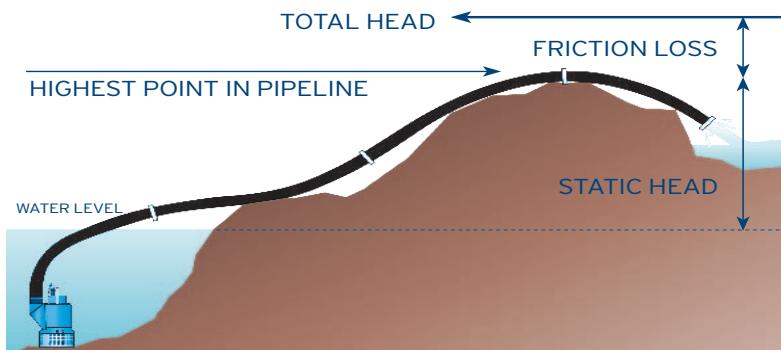


### Total Head

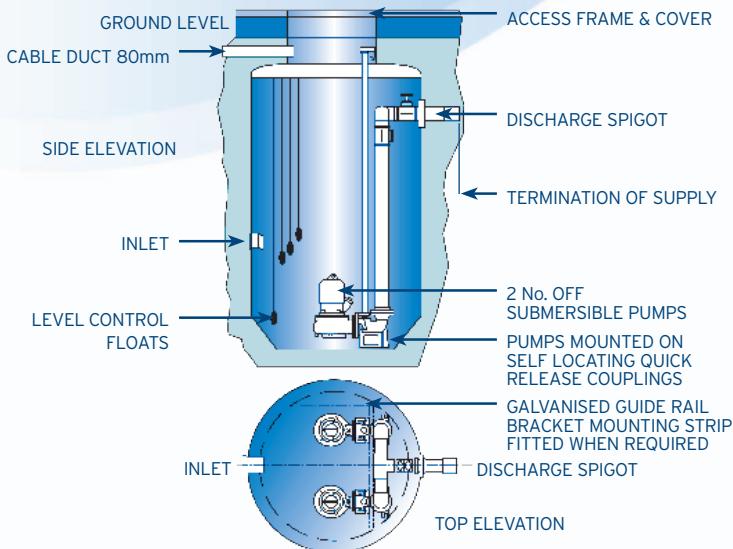
Total head is the sum of the static head from the water level to the highest point in the pipeline, plus the losses in the pipework, valves etc.

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.

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PACKAGED PUMPING  
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# SYKES PUMPS REPAIR & SERVICE

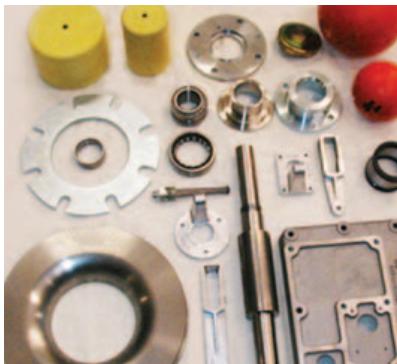
As you would expect we offer an unrivalled back up service from over 30 locations in the UK, these backed up by 2 regional repair centres, staffed by a dedicated team led by our Regional Workshop Managers. These managers have many years' experience in running our service and repair centres looking after 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 PARTS

Sykes pump parts are available from over 30 locations in the UK, 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.



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## INFORMATION

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## NOTES

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# INFORMATION

## NOTES

# >GROUP INFORMATION

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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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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.

## Pumps Sales

Sykes Pumps has years of experience in providing sales solutions to our customer's requirements, from the GP range of general purpose diesel driven pumps, to the full list of products within this pocket book. All are available for purchase with the added advantage of being able to try, to ensure that the choice is correct for each application. We also design and manufacture custom units for arduous and specialist applications, for clients in the UK and also worldwide.

## Sykes Pumps International

The Sykes pumps name stretches far beyond the UK shores, for many years, our operations in the Middle East have helped mould the landscape from desert to leading centre economies, changing the way construction projects proceed today. Our locations throughout Europe enable our customers from the UK, who themselves work in Europe, to have the peace of mind, that we can offer the same equipment, service and reliability, of the quality that they require here. Sykes Pumps is truly an international company; we work worldwide with projects and sales of pumps throughout, America, Russia, Korea, Nigeria, Europe, Middle East and beyond.



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St. Austell ● Stoke on Trent ● Swansea

We also have operations in  
Europe and the Middle East.



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