

8th July 2014

1300-Series Standardized Waste Water Pumps

By,
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Agenda

1. Product Features
2. Applications
3. Selection Procedure
4. Submittals
5. Selecting Prices in SF.com and making quotes
6. Catalogues, Videos, White Paper and Brochures
7. Lead Times
8. Distributor wise performance (Order booking and Sales - Units)
9. Key References



Product Features



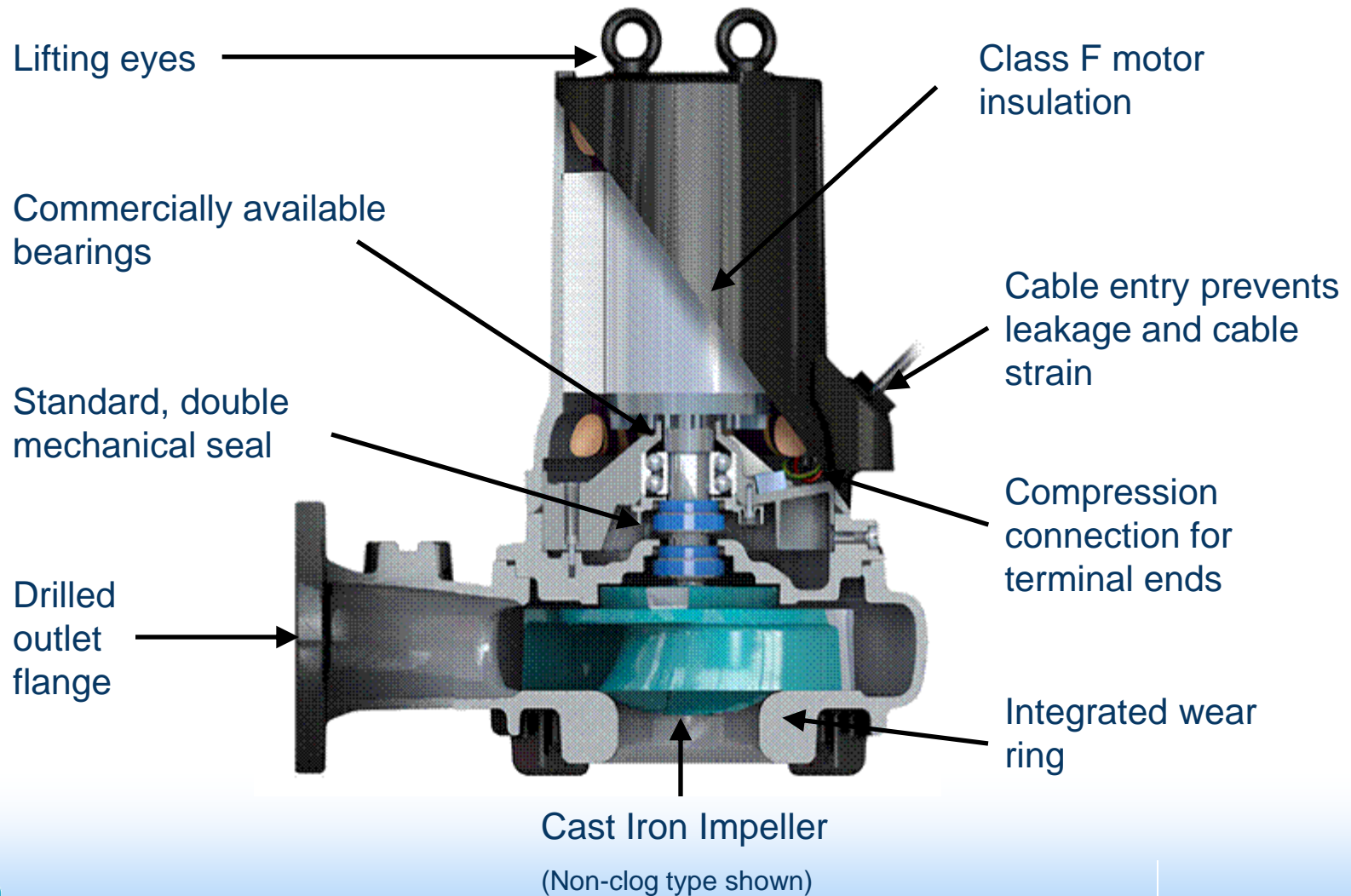
1300 – A new Standardized waste water pump series

The 1300 series is an offer targeting the price competitive segment just below the premium segment in the municipal market. This level corresponds to the premium level in the commercial building market

Brand values

Reliability	Availability	Affordability
A non-clog pump that lowers unplanned costs and meets the customer requirements	Standardized offer that is easy to select and buy	Gives good value for the money, it does the job in an efficient and reliable way

Technical Information



Steady Pumps Features

Robust

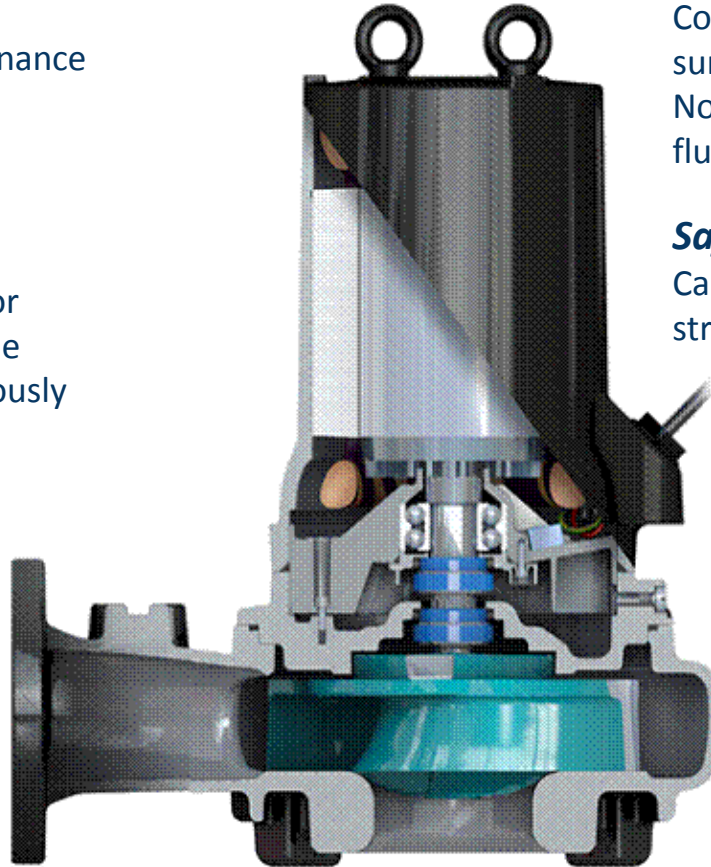
All components are made from robust material for easy maintenance and long life

Powerful

Motor is specifically designed for reliable operation in submersible applications. It can run continuously without overheating-a true workhorse

Durable

Heavy duty bearings with long life provide peace of mind



Environmentally Friendly

Cooling system is designed to use surrounding media to cool the pump; No use of environmentally hazardous fluids such as oils

Safe and Straightforward

Cable entry prevents both cable strain and leakage

Smooth

The double mechanical seal provides extra reliability and protects against leakage

Flexible

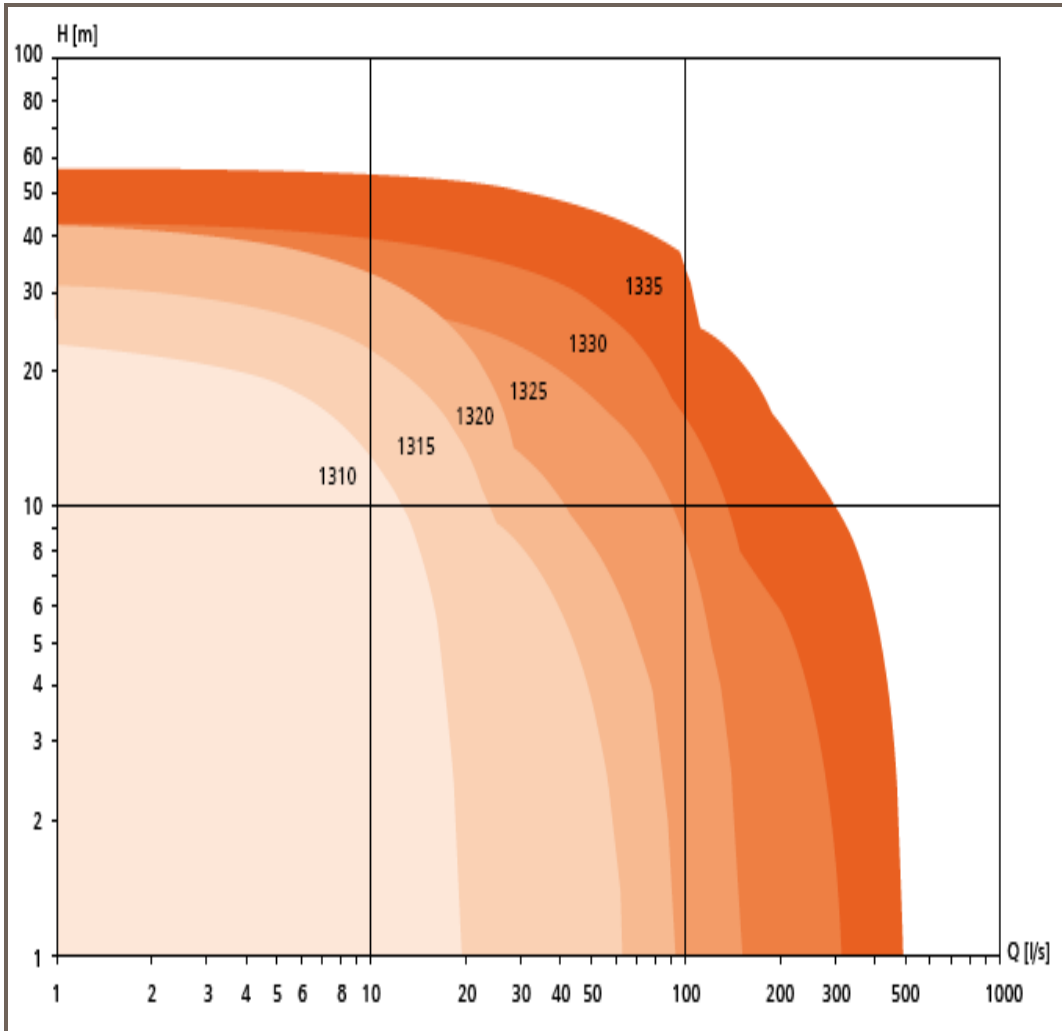
Drilled pump housing ready for any installation method

Product Range Overview



- Product features:
 - Clogging-free impeller design
 - Patented Spin-out TM sealing design, which can discharge particulate out of sealing chamber and protect external sealing
 - Design of short cantilever arm shaft eliminates distortion of shaft, extends usage life of sealing and bearing, and reduces vibration and noise

Product Range Overview....contd



Product Specifications:

- Steady Flow range till 500 l/s
- Steady Pump Head range till 55m
- Steady maximum submergence 20m
- Steady Pumps maximum fluid temperature 40 C
- Steady Pumps Liquid PH range is 5.5 to 14
- Maximum Outlet diameter for pump is 300mm

Product Range Overview....contd

Model	DN	Impeller	Installation	Cable M	Power KW
1310	50	Non Clog, Vortex	Wet Well, Free Standing	10, 20	1.0 - 2.4
	65				
	80				
1315	65	Non Clog, Vortex	Wet Well, Free Standing	10, 20	1.8 - 4.4
	80				
	100				
1320	80	Non Clog, Vortex	Wet Well, Free Standing	10, 20	3.5 - 7.5
	100				
1325	80	Non Clog	Free Standing	10, 20	9.0 - 18.0
	100				
	150				
1330	100	Non Clog	Wet Well	10, 20	10.0 - 24.0
	150				
	250				
1335	150	Non Clog	Wet Well	10, 20	18.0 - 50.0
	200				
	300				

Vortex Impeller

The operating principle:

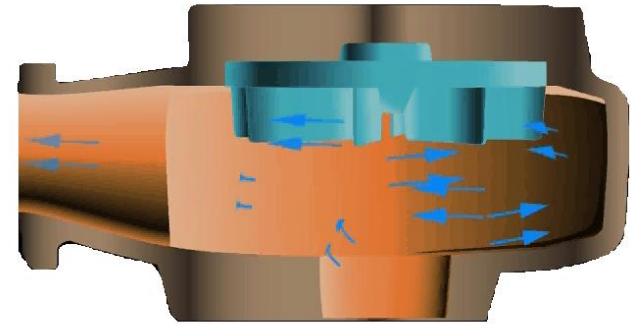
- Simple centrifugal impeller recessed from pump housing
- A strong vortex is created inside the pump
- Large through let
- Low efficiency

Benefits:

- Large through let
- Cheap pumps
- “Less blockage – No down time”

Downbeat:

- Soft clogging – Customer won’t notice it
- Low efficiency



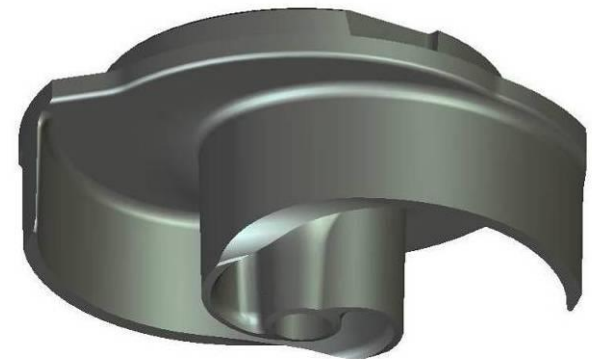
Available in 1310, 1315, and 1320

Non-clog Impeller

This design balances self-cleaning principles and value for money to deliver sustained high efficiency at a competitive price, resulting in both customer interest and satisfaction

Design Principles:

- Based on proven self-cleaning principles
- Optimized design for low cost manufacturing
- Non-hardened back swept-horizontal leading edge
- Relief groove and guide pin cast into pump housing



Resulting effects:

- Self-cleaning capability
- Focus on manufacturing reduces max efficiency possible
- Less wear resistance, not suitable for tough applications
- Self-cleaning capability, wear parts are not easily replaced

Through let Size should not be a parameter for pump selection

Wastewater pump clog resistance cannot be determined by through let size



Product Applications



Applications



Segment

- Building Services
- Waste Water supply
- Light Industry

Applications

- Sewage and waste water pumping
- Industrial effluent handling
- Storm water and irrigation
- Raw water
- Cooling water

Product Selection



Denominations Impeller and installation



Impeller convention

- *Steady* (K impeller)
- *Steady Vortex* (D impeller)

- *Steady* 1300
- *Steady* 1300 Vortex

Installation term

- P
- S

New impeller convention

- *Steady* Non-clog
- *Steady* Vortex

- *Steady* 1300 Non-clog
- *Steady* 1300 Vortex

New installation term

- Wet well
- Free standing

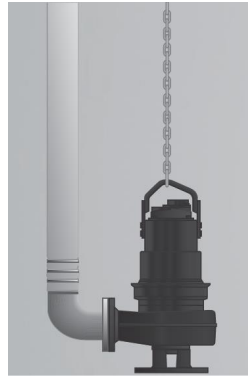
Steady Pump Offering

It has 3 major components

- Pump
- Installation Kit
- Steady Monitoring Relay

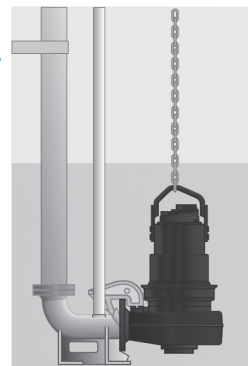


Pump



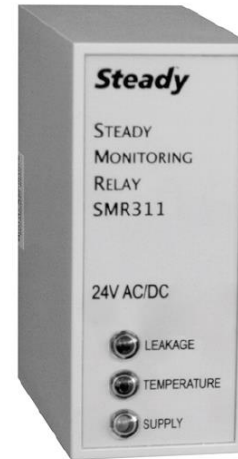
**Free
Standing Kit**

OR

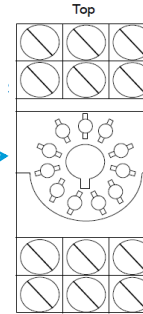


**Wet Well
Kit**

***Installation
Kit***



***Steady
Monitoring
Relay***



SMR Base Unit



**Complete
Offering**

Note: SMR and SMR Base Unit to be ordered separately

Pump Protection



We have two controlling system for Steady Pumps

1. SMR
2. PC 20 + LT 20

SMR:

- Protects Pump Motor from Over heating
- Protects pump in case of leakage
- Can be used with Control Panel

PC 20 + LT 20:

- Can Start Stop Pump
- Alternate between two pumps
- Sewage Hi/Low level protection
- Function independently as a control Panel

Steady Nomenclature



- Sales Force Description For Pumps:

K 1335 HT 456 45kw 50 Hz 3P 415 YD 10M 7G2-132*1.5m

- K –impeller Type (C/K/D)
- 1335 - Steady Pump Series
- HT - Head type
- 456 - Curve No (Here consider last two digits for Brochure)
- 45kw - Kw
- 50Hz - Frequency
- 3P - 3 phase
- 415V - Voltage
- 10m - Cable Length

Steady Selection Procedure- 3 Types



www.xylect.com



Brochure



Selection Sheet

Steady
a xylem brand

Selecting & ordering

Consult your local distributor for assistance. When making a selection, please refer to the product code and the corresponding price. The price is for the product only. The price of the cable and the price of the pump are not included. The price of the cable and the price of the pump are not included. The price of the cable and the price of the pump are not included.

1. Select the product code from the following table. The price is for the product only. The price of the cable and the price of the pump are not included.

Product Code	Product Name	Product Description	Product Price
1320M-100X.453	1320M-100X.453	1320M-100X.453	537.400/5

2. Complete your order number by adding the product code and the price of the cable and the price of the pump. The price of the cable and the price of the pump are not included.

Order number: 1320M-100X.453.537.400/5

Xylect.com

Xylect Home

www.xylect.com/bin/Xylect.dll?IS__NEXTPAGE=startup&IS__BROWSER=%23%231.5%231280%23699

Step1: Login to Xylect.com

Step 2: Create Login Id by registering

hrishikesh (User) - Log out

General information

Xylem

Xylect Mobile
New apps available for iPhone and Android

FLYGT LOWARA VOGEL PUMPEN

Selection

Head loss calculation

Total design flow 0 m³/h

Total head 0 m

Static head 0 m

Nature of system Single head pump

No. of pumps 1 + No standby pump

Search

My Xylect

Projects No data available.

Preferences

Units

Personal data

Log out

New project

Current project: Untitled

Selected products (Nothing selected)

Attachments

Project data

Customer

Contact data

Share project

Save

Search or browse by application

Search or browse by product type

Replacement guide

Select accessories and spare parts

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Xylect Home

www.xylect.com/bin/Xylect.dll?IS_NEXTPAGE=startup&IS_BROWSER=%23%231.5%231280%23699

xylem

Home

hrishikesh (User) - Log out

General information

Selection

Xylect Mobile

New apps available for iPhone and Android

FLYGT LOWARA VOGEL PUMPEN





Google play App Sto

Quick product search

Search key E.g. N 3000 or D 3127

Optional duty point

Total design flow 0 m³/h

Total head 0 m [Head loss calculation](#)

Static head 0 m

Nature of system Single head pump

No. of pumps 1 + No standby pump

Search

Search or browse by application



Search or browse by product type



Replacement guide



Search key Search

Select accessories and spare parts



My Xylect

Projects No data available.

Preferences

Units

Personal data

Log out

Current project: Untitled

Selected products

Attachments

Project data

Customer

Contact data

Share project

Save

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Step 3: For Steady Pumps, search by Product Type



Product type

- Wet/Dry well pumps, Submersible motors
 - Channel impeller pumps
 - Grinder pumps
 - Chopper pumps
 - N-technology pumps
 - Vortex impeller pumps
 - Vortex impeller pumps, Stainless Steel
- Steady Brand Pumps, Submersible motors**
 - Local Assortment
- Dry well pumps, normal
- Column pumps
- Portable dewatering pumps
- Automatic self-priming pumps

Step 4: Select
Steady Brand

Additional information

Series

Series	Description
<input checked="" type="checkbox"/> Steady Brand Pumps, Submersible motors	
<input checked="" type="checkbox"/>  Steady 1300 Non-clog Steady	Submersible pumps for sewage and surface water within municipal and commercial building applications. Non-clog impellers are designed to maintain reliable performance at sustained efficiency.
<input checked="" type="checkbox"/>  Steady 1300 Vortex Steady	Submersible pumps for sewage and surface water within municipal and commercial building applications. Vortex impellers are ideal for large throughlet requirements and when light abrasives are present in the fluid.

Search options

☐ Use these duty conditions for search

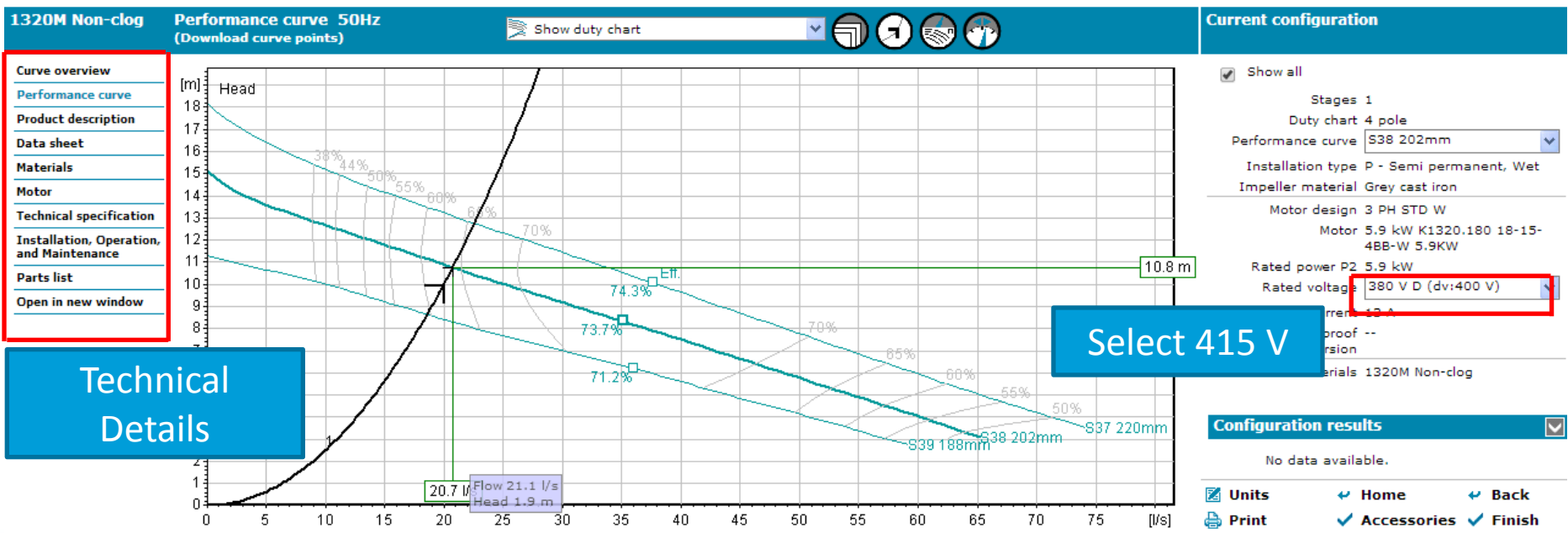
☒ **Head loss calculation**

Total design flow	<input type="text" value="0"/>	m³/h
Total head	<input type="text" value="0"/>	m
Static head	<input type="text" value="0"/>	m
Nature of system	Single head pump	
No. of pumps	1 + No standby pump	
Number of poles	Any	

Units Finish Back Search

Steady Brand Pumps, Submersible motors

	Product	Diff. [%]	Q [l/s]	Spec. Energy [kWh/l]	η [%]	n [1/min]	Rated power [kW]	Outlet width [mm]	No. of vanes
	Steady 1320M Non-clog	3.8	20.7	0.0000529	64.6	1430	5.9	100.0	2
	Steady 1315S Non-clog	8.1	21.6	0.0000603	63.8	2820	4.4	80.0	2
	Steady 1320M Vortex	-2.5	19.5	0.0000636	47.6	1430	5.9	100.0	6
	Steady 1320H Vortex	0.6	20.1	0.0000868	36.1	2905	7.5	80.0	4



Selection Brochure

- Step 1:
Select Curve and
According model
from Curves

Steady™ 1310 Vortex



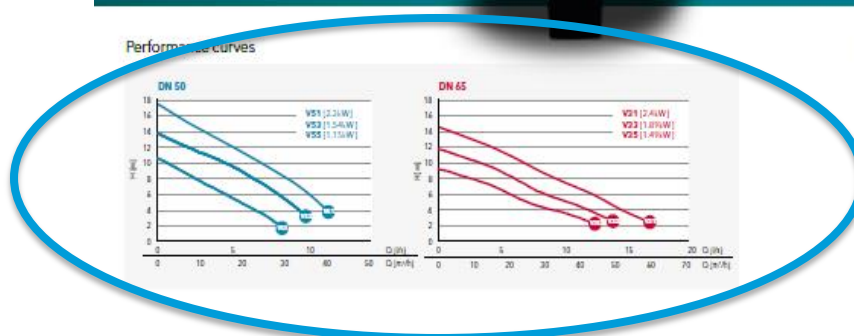
Pump data		
Model	1310H	1310M
Impeller Type	Vortex	Vortex
Outlet size (mm)	50	65
Weight (kg), with stand	34	40, 50
Pole	2	2
Insulation Class	F	F
Starts per hour	15	15

Motor data		
Voltage	380 V	400 V
Phase	3	3
Model	1310H/M	1310H/M
Starting Amper (A)	25	27
Full Load (A)	5,2	5,1
Full Load Power Factor	0.90	0.86
Connection	Y	Y
Cable	4G1.5	4G1.5

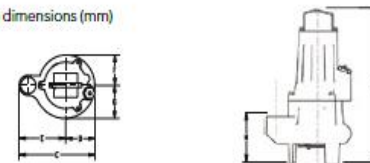
Material data		
Impeller	gray cast iron	
Pump housing	gray cast iron	
Stator housing	gray cast iron	
Shaft	stainless steel	
Inner mechanical seal	carbon/aluminum oxide	
Outer mechanical seal	cermeted carbide/aluminum oxide	
O-ring	nitrile	
Cable sheathing	nitrile	

Process data		
Max submergence	20 m	
Max fluid temp	40 C	
pH range of pumped liquid	5,5 - 14	

Power cable data		
Cable type (mm2)	4G1.5	
Outer Diameter (mm)	11.5	
Weight (kg/m)	0.20	



Pump dimensions (mm)



	1310H	1310M
A	N/A	N/A
B	503	503
C	309	410
D	119	119
E	190	291

	1310H	1310M
F	115	106
G	125	106
H	157	280
J	N/A	N/A
K	N/A	N/A

Selection table*

Model	Outlet (in)	Installation	Pole	Freq (Hz)	Phase	Max Shaft Power	Connection	Voltage	Cable	Order number*
1310H	50	P, S	2	50	3	(see chart)	V51, V53, V55	380, 400	5	1310H-50-253-~15
1310M	65	P, S	2	50	3	(see chart)	V31, V33, V35	380, 400	5	1310M-65-253-~15

Installation kit selection table*

DN	Free-standing	Wet well	Replacement
50	included	1310-50P	1310-50R
65	1310-65S	1310-65P	1310-65R

Selection Brochure

- Step 2:
Select Outlet
Diameter



Steady™ 1310
Vortex

Pump data

Model	1310H	1310M
Impeller Type	Vortex	Vortex
Outlet size (mm)	50	65
Weight (kg), with stand	34	40, 50
Pole	2	2
Insulation Class	F	F
Starts per hour	15	15

Motor data

Voltage	380 V	400 V
Phase	3	3
Model	1310H/M	1310H/M
Starting Amper (A)	25	27
Full Load (A)	5,2	5,1
Full Load Power Factor	0.90	0.86
Connection	Y	Y
Cable	4G1.5	4G1.5

Material data

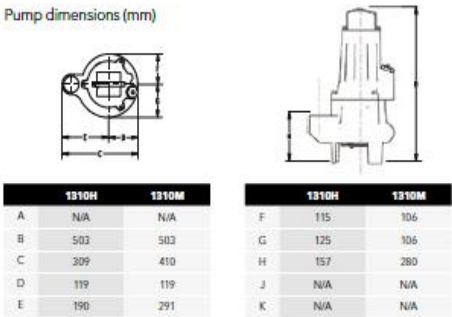
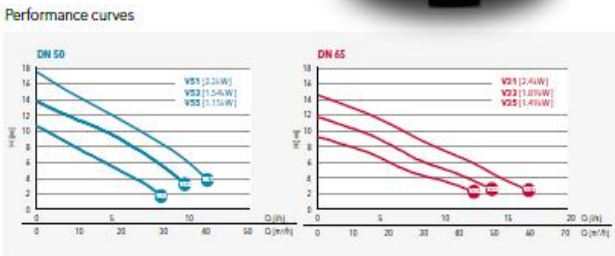
Impeller	gray cast iron
Pump housing	gray cast iron
Stator housing	gray cast iron
Shaft	stainless steel
Inner mechanical seal	carbon/aluminum oxide
Outer mechanical seal	cermeted carbide/aluminum oxide
O-ring	nitrile
Cable sheathing	nitrile

Process data

Max submergence	20 m
Max fluid temp	40 C
pH range of pumped liquid	5,5 - 14

Power cable data

Cable type (mm2)	4G1.5
Outer Diameter (mm)	11.5
Weight (kg/m)	0.20



selection table*

Model	Outlet (in)	Installation	Pole	Freq (Hz)	Phase	Max Shaft Power	Connection	Voltage	Cable	Order number*
1310H	50	F, S	2	50	3	(see chart)	V21, V23, V25	380, 400	5	1310H-50-253-~5
1310M	65	F, S	2	50	3	(see chart)	V21, V23, V25	380, 400	5	1310M-65-253-~5

Installation kit selection table*

DN	Free-standing	Wet well	Replacement
50	included	1310-50P	1310-50R
65	1310-65S	1310-65P	1310-65R

Selection Brochure

- Step 3:
- Select
Installation
Kits

Steady™ 1310 Vortex



Pump data		
Model	1310H	1310M
Impeller Type	Vortex	Vortex
Outlet size (mm)	50	65
Weight (kg), with stand	34	40, 50
Pole	2	2
Insulation Class	F	F
Starts per hour	15	15

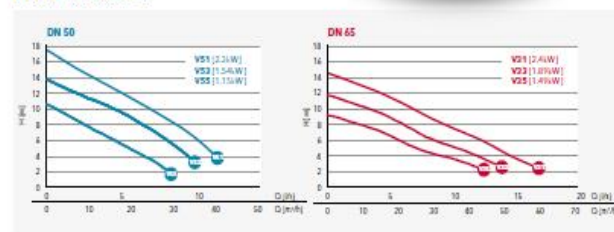
Motor data		
Voltage	380 V	400 V
Phases	3	3
Model	1310H/M	1310H/M
Starting Amper (A)	25	27
Full Load (A)	5,2	5,1
Full Load Power Factor	0.90	0.86
Connection	Y	Y
Cable	4G1.5	4G1.5

Material data		
Impeller	gray cast iron	
Pump housing	gray cast iron	
Stator housing	gray cast iron	
Shaft	stainless steel	
Inner mechanical seal	carbon/aluminum oxide	
Outer mechanical seal	cermeted carbide/aluminum oxide	
O-rings	nitrile	
Cable sheathing	nitrile	

Process data		
Max submergence	20 m	
Max fluid temp	40 C	
pH range of pumped liquid	5,5 - 14	

Power cable data		
Cable type (mm2)	4G1.5	
Outer Diameter (mm)	11.5	
Weight (kg/m)	0.20	

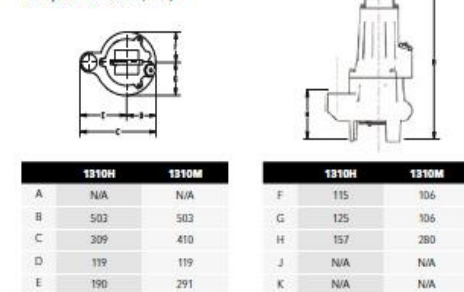
Performance curves



Selection table*

Model	Outlet (in)	Installation	Pole	Freq (Hz)	Phase	Max Shaft Power	Connection	Voltage	Cable	Order number*
1310H	50	P, S	2	50	3	(see chart)	V21, V23, V25	380, 400	5	1310H-50-253-~5
1310M	65	P, S	2	50	3	(see chart)	V21, V23, V25	380, 400	5	1310M-65-253-~5

Pump dimensions (mm)



Installation kit selection table*

DN	Free-standing	Wet well	Replacement
50	included	1310-50P	1310-50R
65	1310-65S	1310-65P	1310-65R

Selection Brochure

- Step 4: **Make Nomenclature** as per selection and get part number and price from **Sales Force**
- Step 5: Get Nomenclature and price of the installation kits from **Sales Force**
- Step 6: ORDER



One Page Selection Guide

Steady™
a xylem brand

Selecting & ordering

Configure your product order and generate order number. We've made it easy for you to select and configure your pump with the appropriate accessories; it's done in just three simple steps.

1. Select the pump model ideal for your needs from the following table. For larger pump sizes, contact your local sales representative.

Model Selection Guide									
Q (m³/h)									
H (m)	10	30	50	70	90	110	130	150	
35		1320S (S70)	1320S (S74)	1320S (S70)					
30		1320H (V51)	1320S (S74)						
25			1320S (S74)	1320S (S70)					
20	1310S (S60)	1315S (S70)	1315S (S70)	1320S (S70)					
15	1315M (V31)	1320H (S88)	1315S (S70)	1320S (S70)					
10	1310H (V51)	1315S (S74)	1320H (S87)	1320S (S74)	1315S (S70)				
5	1310S (S64)	1310S (S60)	1310S (S64)	1315S (S74)	1320H (S88)	1320M (S37)	1320H (S87)		
	1310H (V51)	1315H (S53)	1315M (S60)	1315S (S70)	1320H (V51)	1320M (S37)	1320H (S87)		
	1310M (V33)	1315M (S62)	1315H (S51)	1315M (S60)	1320M (S38)				
	1310H (V55)	1310M (V53)	1310M (V31)	1315S (S74)	1315M (V31)	1315M (S42)	1315M (S60)	1320M (V31)	
	3	8	14	19	25	31	36	42	
	Q (l/s)								

2. Complete your order number by configuring your pump model. For every model and choice of outlet dimension there is a partially filled order number to the far right of the table.

Non-clog (S) Impeller selection chart									
Model	DN	Installation	Pole	Freq [Hz]	Phase	Max P2 (kW)	Curve ID	Voltage	Cable (m)
1310S	50	W, T	2	50	3	2,4	S60, S64	380, 400	5
1315S	80	X	2	50	3	4,4	S70, S74	380, 400	5
1315M	100	X	4	50	3	3,3	S60, S62, S63	380, 400	5
1320S	80	X	2	50	3	7,5	S70, S74	380, 400	5
1320H	100	X	4	50	3	5,9	S87, S88	380, 400	5
1320M	100	X	4	50	3	5,9	S37, S38, S39	380, 400	5

Vortex (V) Impeller selection chart									
Model	DN	Installation	Pole	Freq [Hz]	Phase	Max P2 (kW)	Curve ID	Voltage	Cable (m)
1310H	50	W, T	2	50	3	2,4	V51, V53, V55	380, 400	5
1310M	65	X	2	50	3	2,4	V31, V33, V35	380, 400	5
1315H	80	X	2	50	3	4,4	V51, V53	380, 400	5
1315M	100	X	4	50	3	3,3	V31, V33	380, 400	5
1320H	80	X	2	50	3	7,5	V51, V53	380, 400	5
1320M	100	X	4	50	3	5,9	V31, V33	380, 400	5

Order number example:

1320M-100X.453.S37.400/5

Model
Model variant
Outlet dimension (nominal, mm)
Installation code
Frequency (5=50, 6=60)
Pole
Phase
Curve ID
Voltage
Cable Length

3. Select your accessory kit from the table below.

Model	DN	Wet well	Free Standing*	Replacement
1310	50	1310-S0W	Included	Included
	65	1310-65W	1310-65H 1310-65T	1310-65R
	80	1315-80W	1315-80H 1315-80T	1315-80R
1315				

2. Complete your order number by configuring your pump model. For every model and choice of outlet dimension there is a partially filled order number to the far right of the table.

Non-clog (S) Impeller selection chart									
Model	DN	Installation	Pole	Freq [Hz]	Phase	Max P2 (kW)	Curve ID	Voltage	Cable (m)
1310S	50	W, T	2	50	3	2,4	S60, S64	380, 400	5
1315S	80	X	2	50	3	4,4	S70, S74	380, 400	5
1315M	100	X	4	50	3	3,3	S60, S62, S63	380, 400	5
1320S	80	X	2	50	3	7,5	S70, S74	380, 400	5
1320H	100	X	4	50	3	5,9	S87, S88	380, 400	5
1320M	100	X	4	50	3	5,9	S37, S38, S39	380, 400	5

Vortex (V) Impeller selection chart									
Model	DN	Installation	Pole	Freq [Hz]	Phase	Max P2 (kW)	Curve ID	Voltage	Cable (m)
1310H	50	W, T	2	50	3	2,4	V51, V53, V55	380, 400	5
1310M	65	X	2	50	3	2,4	V31, V33, V35	380, 400	5
1315H	80	X	2	50	3	4,4	V51, V53	380, 400	5
1315M	100	X	4	50	3	3,3	V31, V33	380, 400	5
1320H	80	X	2	50	3	7,5	V51, V53	380, 400	5
1320M	100	X	4	50	3	5,9	V31, V33	380, 400	5

Order number example:

1320M-100X.453.S37.400/5

Model
Model variant
Outlet dimension (nominal, mm)
Installation code
Frequency (5=50, 6=60)
Pole
Phase
Curve ID
Voltage
Cable Length

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xylem
Let's Solve Water

Kit number explained

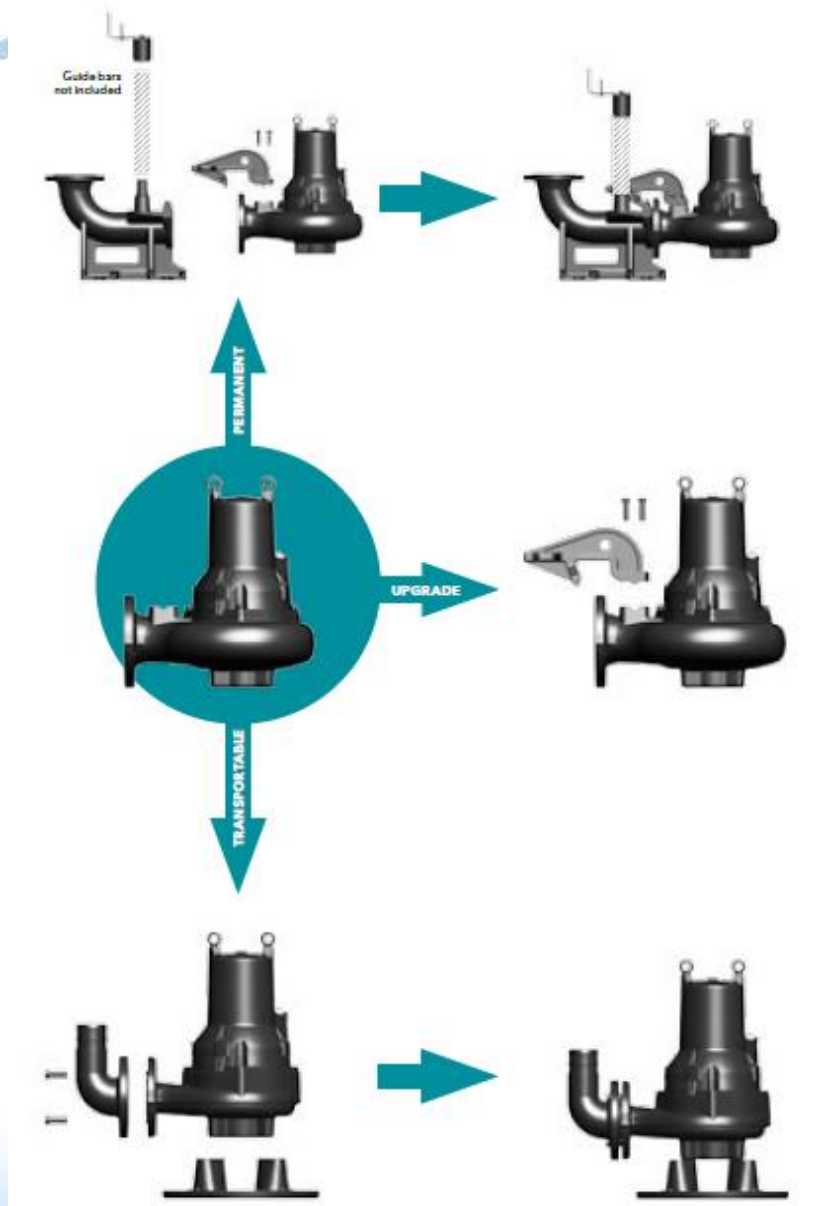
Example of Selection of installation kit:

1. Which model of pump?
1320
2. Which outlet dimension? (Nominal , mm)
100
3. Which installation? (Installation code)
Wet Well Kit – WWK
Free Standing Kit - FSK

Result :

1320 WWK
or
1320 FSK

Installation kits



Wet-well kit

The pump is installed with twin guide bars on a discharge connection.

Kit contents:

- Discharge connection
- Anchor bolts
- Guide claw with bolts
- Upper guide bar bracket with bolts

Replacement kit

Simple kit to replace an old pump or upgrade to a larger model

Kit contents:

- Guide claw with bolts

Free-standing kit

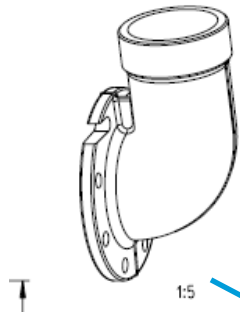
Ideal for portability

Kit contents:

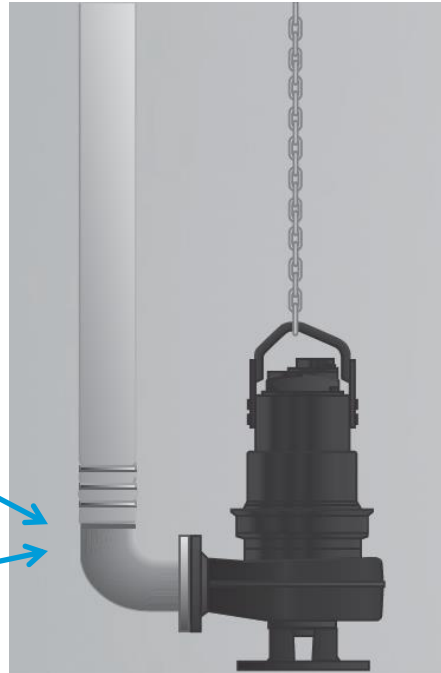
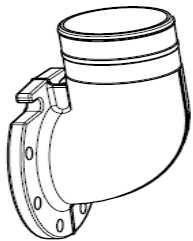
- Hose connection with bolts
- Stand with bolts

Way of installations

ISO Connection (threaded discharge connection)

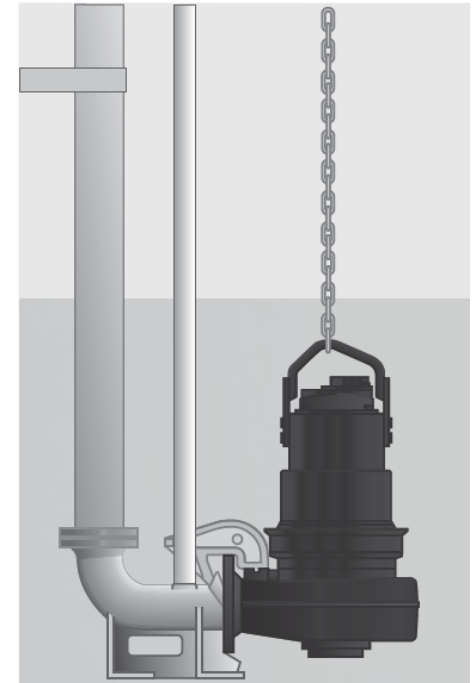


Hose Connection as discharge connection



FREE STANDING

Together with hose connection ideal for portability



WET WELL

The pump is installed with twin guide bars on a discharge connection

Selection Brochure

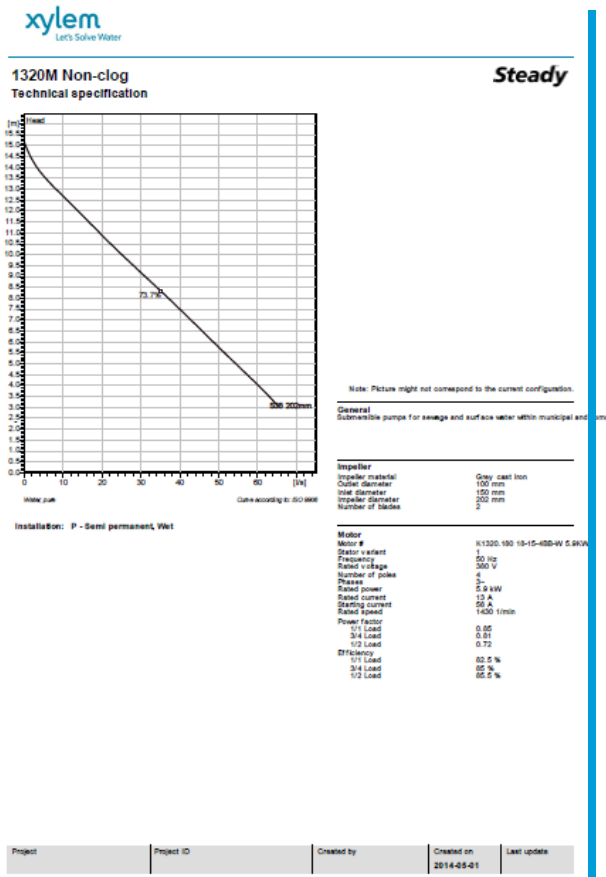
- Step 4: **Make Nomenclature** as per selection and get part number and price from **Sales Force**
- Step 5: Get Nomenclature and price of the installation kits from **Sales Force**
- Step 6: ORDER



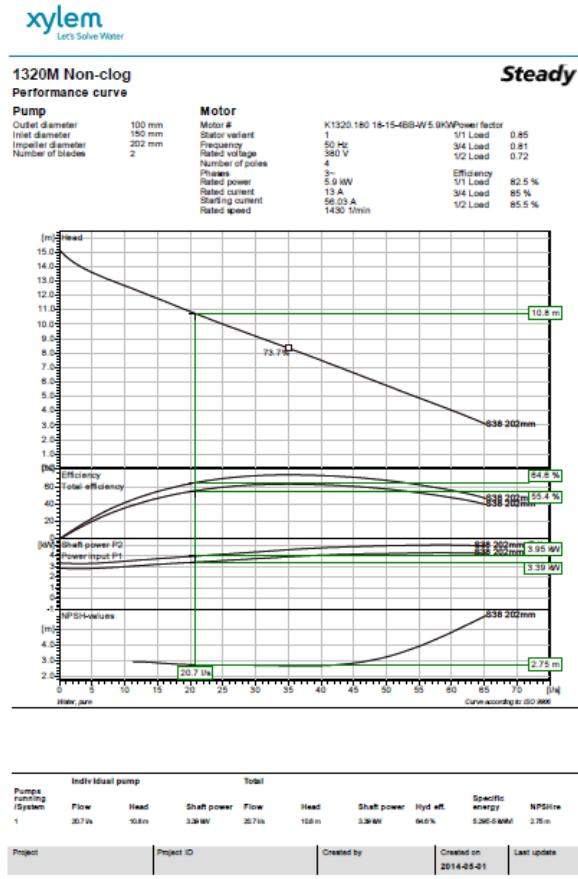
Technical Submittals



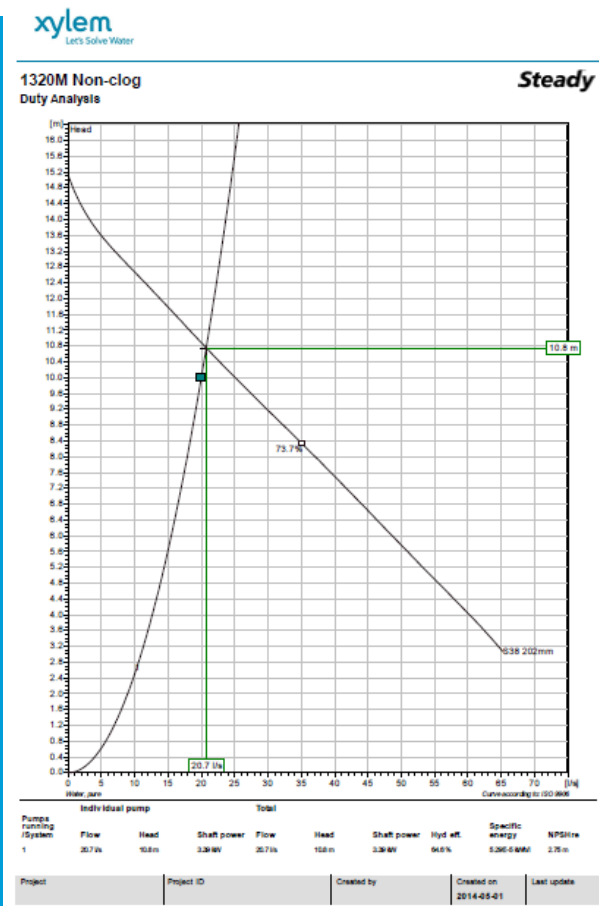
Submittals from Xylect.com



Technical specification



Performance curve



Duty Analysis

Price Selection from Salesforce

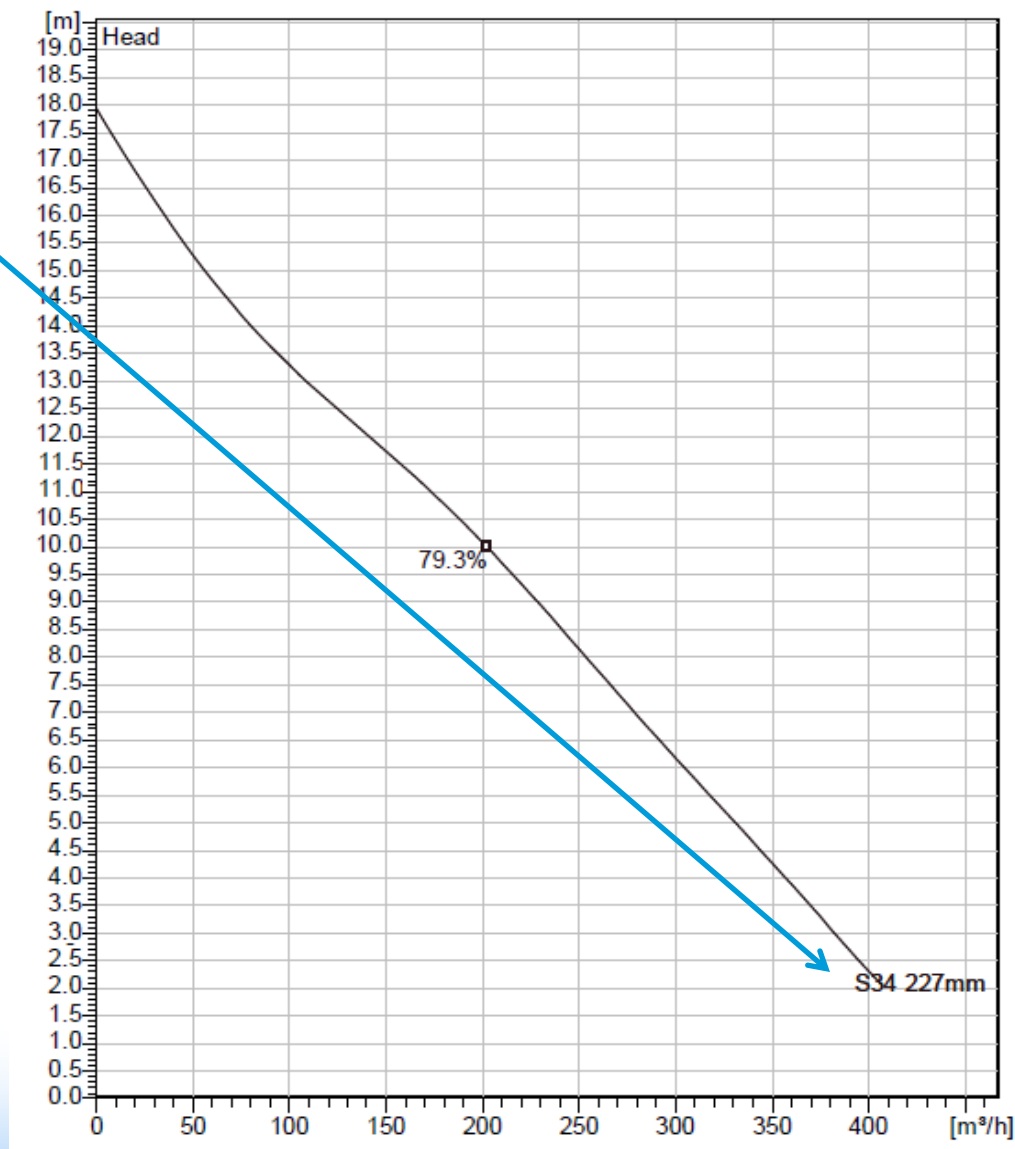


Price Selection from Salesforce

For a selected curve: Eg: S34 227mm

If motor is 4 Pole then curve number becomes **434 227mm**

If motor is 2 pole then curve number becomes **234 227mm**



Price Selection from Salesforce

Product Selection for: Opj x

https://ap1.salesforce.com/p/opp/SelectSearch?addTo=0069000000GMJOe&retURL=%2F0069000000GMJOe

Find Products Customize...

By Keyword: 1315 By Field Filter: --None-- More filters >>

Search

Keyword: "1315"

Product Name

- 1315 FSK
- 1315 FSK
- 1315 FSK
- 1315 FSK
- 1315 FSK
- 1315 WWK, 1320 W...
- 1320/15 WWK
- D1315HT251
- D1315HT253
- D1315MT431
- D1315MT433
- K1315MT460
- K1315MT462
- K1315MT463
- K1315SH270
- K1315SH274

Product Name	Product Code	Product Family	Product Description
1315 FSK	7806500	Steady Free Standing Kit	Free Standing Hose connection kit 1315 - Delivery 80mm
1315 FSK	7806503	Steady Free Standing Kit	Free Standing ISO connection kit 1315 - Delivery 80mm
1315 FSK	7806501	Steady Free Standing Kit	Free Standing Hose connection kit 1315- Delivery 100mm
1315 FSK	7806504	Steady Free Standing Kit	Free Standing ISO connection kit 1315 - Delivery 100mm
1315 WWK, 1320 W...	7806521	Steady Installation Kit	Wet Well Kit- 1315, 1320 & 1315- Delivery 100mm
1320/15 WWK	7806520	Steady Installation Kit	Wet Well Kit- 1320 & 1315- Delivery 80mm
D1315HT251	13151800259	Steady (EFF2)1315	PUPM D1315HT251 4.4KW50HZ3P415YD10M7G2.5*2*1.5
D1315HT253	13151800260	Steady (EFF2)1315	PUPM D1315HT253 4.4KW50HZ3P415YD10M7G2.5*2*1.5
D1315MT431	13151800254	Steady (EFF2)1315	PUMP D1315MT431 3.3KW3P 50HZ415Y10M H07RN-F7G1.5
D1315MT433	13151800252	Steady (EFF2)1315	PUMP D1315MT433 3.3KW3P 50HZ415Y10M H07RN-F7G1.5
K1315MT460	13151800255	Steady (EFF2)1315	PUMP K1315MT460 3.3KW3P 50HZ415Y10M H07RN-F7G1.5
K1315MT462	13151800256	Steady (EFF2)1315	PUMP K1315MT462 3.3KW3P 50HZ415Y10M H07RN-F7G1.5
K1315MT463	13151800253	Steady (EFF2)1315	PUMP K1315MT463 3.3KW3P 50HZ415Y10M H07RN-F7G1.5
K1315SH270	13151800257	Steady (EFF2)1315	PUMP K1315SH270 4.4KW3P 50HZ415YD10M7G2.5*2*1.5
K1315SH274	13151800258	Steady (EFF2)1315	PUPM K1315SH274 4.4KW50HZ3P415YD10M7G2.5*2*1.5

Chat

Lead Time



Lead Times



Current Lead Times

- From Shenyang – 6 weeks
- From Baroda – 8-9 weeks

What is the lead time required by customers ?

What is the competition offering?

Do they have local stocking of pump assembly units?

Spares Policy



Aftermarket Kits



Steady cable kit

The cable and cable entry are crucial components to keep the motor running and free of water. The Steady cable kit provides all parts needed to replace a cable and make the job as easy as possible.

Kit contents:

- Cable
- Cable sleeve unit
- Cable end-splice and lug



Steady motor kit

The Steady Motor kit contains all the critical parts needed to perform an overhaul of the motor.

Kit contents:

- Bearings
- Mechanical seals
- O-rings



Steady impeller kit

It is important that the impeller is in good condition to ensure reliability and good performance. The Steady impeller kit contains all parts needed to replace an impeller, including the adjustable sleeve, making it easy to mount the impeller in the optimal position.

Kit contents:

- Impeller
- Impeller sleeve/ key
- Screw and washer

Steady parts strategy

Available parts

- General parts offer: General parts offer follows the overall Steady strategy on kits, simplify ordering for the customers.
 - Pre-assembled kits are available for the major wear parts.
 - Parts included in kits are not separate available
- All other parts: On request. These parts are not marketed, or visible in any communication material to the customer

Stock keeping

- General offer for all pumps supplied in the area is kept locally on stock for fast delivery
- Offer on request is not kept on stock. Lead time is defined when ordered

Part availability after phase out of the product:

Pump size	Availability
< 3.0 kW	5 years
> 3.0 kW	10 years



Key References in India



COURTESY: COGNIZANT TECHNOLOGY SOLUTIONS



Cognizant



QUALITY | ON TIME



Brochures, White Papers and Marcom Material



Steady Brochure



White Paper – Throughlet Size



WHITE PAPER
Throughlet size
May 2012

Wastewater pump clog resistance cannot be determined by throughlet size

A wastewater pump's throughlet size is frequently used to specify clog resistance, despite data that demonstrates the irrelevance of this measurement. Clogging is a critical and highly undesirable operational problem in wastewater pumping, which results in increased operational costs and emergency calls from the end user. Clogging drastically reduces pump efficiency and causes pump tripping.

The number one requirement of a wastewater pump is its ability to pump wastewater without clogging. This paper will describe the importance of a pump's wet-end design for achieving clog-free operation. This paper will also establish how a pump's throughlet size is a misleading parameter in specifying clog resistance.

Historical perspective

The traditional definition of throughlet size refers to the free passage of matter through a pump impeller. Throughlet size is determined by the largest diameter of a hard, solid, spherical object that can pass through the pump. The concept is old, dating back to 1915, and was developed at a time when energy costs were not of significant importance. Pump manufacturers intuitively believed that pump clogging could be avoided simply by having an internal pump throughlet equal to or larger than what the toilet of the day could pass.

Pump manufacturers believed objects would pass through the pump as easily as they did through the pipes. This design is called a large or maximized throughlet size design. The expectation was that large throughlets would increase reliability and reduce unplanned service calls. These hydraulic designs are referred to as traditional designs in this paper.

The last few decades of research and development, and experience from hundreds of thousands of pump installations, have proven that the simplistic logic of throughlet size is incorrect and misleading yet prevalent in wastewater pump procurement specifications.

How did manufacturers achieve large throughlet sizes?
The smallest section in a pump is the passage through the impeller.

There are two possible main impeller-design options to maximize the throughlet size:

1. Single-vane impellers (open or closed, valid especially for small pumps)
2. Vortex impellers (also known as recessed impeller or torque-flow impeller)



Figure 1: Example of a single-vane impeller



Figure 2: Example of a vortex impeller

These designs suffer from the following drawbacks:

Single-vane impeller:

- Relatively low efficiency (with more impeller vanes, higher efficiencies can be achieved)
- Significant rotating radial forces (this causes high shaft and bearing loads as well as increased vibration and noise)
- Difficulty in balancing (the impeller is water-filled during operation)
- Impeller trimming leads to further imbalance

Vortex impeller:

- Very low efficiency

With decreased pump efficiency, the operational cost for the end user is increased because the pump has to operate for a longer time to handle the inflow. A motor overload or pump trip also adds cost for the end user because it requires a service technician to visit the pumping station in order to clean and restart the pump.

For pumps operating intermittently, back flushing will occur naturally every time the pump is turned off. This cleans the leading edges of the impeller and flushes the accumulated solids through the pump's suction opening back into the pump sump. This flushing phenomenon occurs in systems with and without check valves.

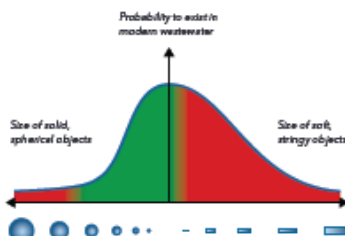


Figure 8

Figure 8 shows the types of solids that can pass through a traditional impeller with a large throughlet. The green area indicates objects with a high probability to pass through the pump. The red area indicates a higher probability of clogging.

Some hydraulic designers claim that vortex impellers are self-cleaning because after back flushing, the impeller is free of solids. In practice, this has not been the case. Even if the back flushing frees the impeller from the stringy objects, they return during normal operation, leading to a significant decrease in efficiency and higher energy bills.

Modern pump hydraulic designs

Today there are better and more advanced hydraulic designs available to increase a wastewater pump's clog resistance and to maintain pump efficiency over time. A state-of-the-art self-cleaning design, with substantially backswept leading edges and a relief groove, has proven to be the answer to most clogging problems.



Figure 9: Modern self-cleaning hydraulic design

A standardized clog test was developed by Flygt in the late 1990s and has been used to test many existing hydraulic designs as well as new and innovative ideas. This development, carried out for over 15 years, has resulted in refined wastewater pumps that vastly outperform all traditional wastewater pump designs.

The company's knowledge from the large installed base of wastewater pumps has provided data necessary to develop self-cleaning impeller capability that works for all duty points and for reduced rotational speeds. The function of transporting liquid has been separated from the function of transporting solids. This self-cleaning hydraulic design does not accumulate the typical contaminants present in modern wastewater.

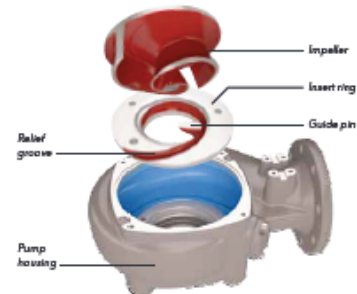
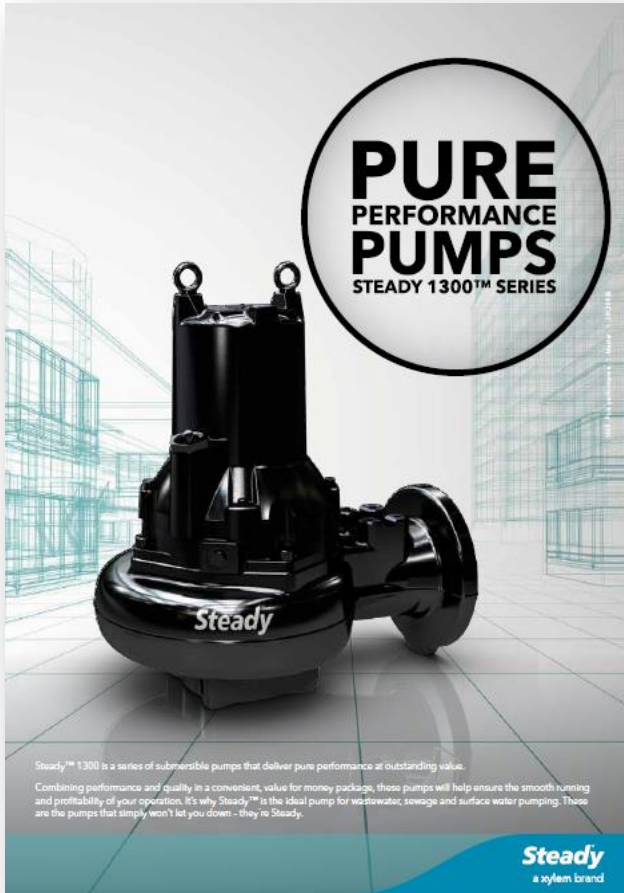


Figure 10

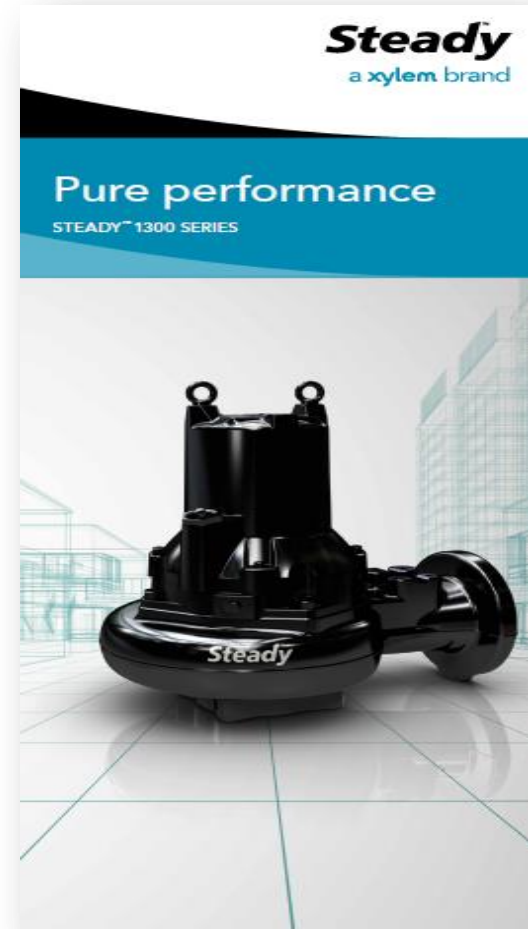
Solids that land on the leading edges of the impeller are continuously pushed towards the periphery and out through the pump discharge via the relief groove located in the insert ring.

Clogging significantly affects pump lifecycle costs

Advertising Material



Steady Ad / Poster



Steady Roll Up



Thank you