



Vertical Turbine Pump

7000



www.flofab.com

001-cat-2016-7000

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HISTORY

Flo Fab was established in 1981 by Denis Gauvreau who created and developed the products line and constantly being perfected by Marc Gauvreau, as well as by a team of professional engineers and designers. It's a combination of existing designs from several renowned products and the innovative ideas of a new generation professionals.

Through the years, Flo Fab has acquired several companies and service entities including : AQUA-PROFAB (ASME Tanks manufacturer), MÉNARD, LÉONARD ÉLECTRIQUE, PMA. , Furthermore Flo Fab purchased equipment, fabrication designs and patterns from IDEALCO, a manufacturer of shell and tube type heat exchangers.

The after sales services, sales, engineering, R&D, production, quality control, accounting and administration departments of all the above companies share the same location.

In December 2014, Marc Gauvreau, son of the founder, acquired all shares of The company. Flo Fab and is constantly investing in new state of the art innovations new product like the XRI series and Prefab Skid for Hydronic Heating 8 cooling system, pumping systems. This has allowed Flo Fab to retain competent and experienced staff of professionals with varied and specialized abilities that constantly work on improving our existing products and add new engineered solutions that exceeding customer's expectations .

Flo Fab has grown quite rapidly and now proudly offers of a wide range of products available directly from one manufacturer. This includes pumps & pump packages, tanks, heat exchangers & hydronic accessories. This allows each project stakeholders to enjoy economical savings, peace of mind, best value for their investment and optimized total cost of ownership.



● **7000 - Vertical Turbine**

The 4 different model vertical turbine pumps have one thing in common the hydraulic design of the pump bowl assembly. Using a new techniques in turbine pump design. It covers a wide range of hydraulic conditions to meet virtually every pumping service with optimum efficiency.

FloFab flexibility of design allows the use of a wide range of material and design features to meet the custom requirements of user. No matter what the requirements, whether low first cost, ease of maintenance, optimum

Model VTC

Vertical Industrial Turbine Pumps

VTC series is a single or multistage pump with centrifugal or mixed-flow enclosed type impeller, designed for high pressure services.



Model VTM

High Capacity Vertical Turbine Pumps

VTM series is a single stage pump with mixed-flow semi-open or enclosed type impeller, designed for high capacity, medium to high head services.

● General Data

Model VTA

Low Head Vertical Turbine Pumps

VTA series is a single stage pump with axial-flow impeller, designed for high capacity, low head services.



Model VTG

Right Angle Gear Box Driven Vertical Turbine Pumps

VTG series is vertical turbine pump designed for engine driven through a right angle gear box, for the place where electric power is not available services.



Standard Design Features of VTP

Standard Design Features of VTP

The bowl assembly is the heart of the VTP . The impeller and diffuser type casing are designed to deliver the head and capacity that your system requires in the most efficient way possible. The fact that the VTP can be multi—staged allows maximum flexibility both in the initial pump selection and in the event that future system modifications require a change in the pump rating. Submerged impellers allow pump to be started without priming.

A variety material options allows the selection of a pump best suited for even the most severe services. The many bowl assembly options available assure that the VTP satisfies the user’s need for safe, efficient, reliable and maintenance—free operation.

1. Strainers

31688 Basket strainers to provide protection from large solids.

2. Suction bell

Allows smooth entry of liquid into impeller eye, minimizes vortex formation. Scotchkote custom fusion bonded epoxy coating inside.

3. Suction bell bearing

Provided for shaft stability.

4. Sand collar

Prevents solids from entering suction bearing.

5. Impeller

Hydraulic balancing to reduce axial down thrust and achieve long thrust bearing life. Dynamic balancing of impellers are available.

6. Pump shaft

Heavy duty, 41688 standard, other alloys for strength and corrosion resistance. Hollow pump shaft with flushing hole special for bearing flushing on corrosive/abrasive services.

7. Diffuser bowl

Available in variety of cast material. Scotchkote custom fusion bonded epoxy coating inside to



● General Data

Standard Design Features of VTP

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Heavy duty, 41688 standard, other alloys for strength and corrosion resistance. Hollow pump shaft with flushing hole special for bearing flushing on corrosive/abrasive services.

7. Diffuser bowl

Available in variety of cast material. Scotchkote custom fusion bonded epoxy coating inside to improved the efficiency and longer life. Registered fits assure positive alignment, ease of maintenance.



● General Data

8. Sleeve type bearing

Provided at each stage to assure stable operation away from critical speed.

9. Wear rings

Dual wear rings for enclosed impellers and bowls, permits re—establishing initial running clearances and efficiency at lower cost. Hard facing of wear surface available for longer life.

Wear ring can be flushed when solids are present in the pumping liquid.

10. Keyed impeller

Keyed impeller for all the pumps, suitable for pumping liquid in high temperatures. Keyed impellers provide ease of maintenance and positive locking under fluctuating load and temperature conditions.

11. Flanged column

Heavy duty seamless column pipe sections are provided with flanged ends incorporating registered fits for ease of alignment during assembly.

12. Lineshaft and coupling

a.) Open lineshaft

Flanges column/product lubricated lineshaft is recommended for ease of maintenance or whenever a special bearing material is required. Precision keyed lineshaft coupling available in all sizes for ease of maintenance. Various bearing material available. Renewable shaft sleeve or hard facing of shaft available for longer life.

b.) Enclosed lineshaft

The lineshaft is protected by waterflushing tube, flushing water for bearing and wear ring on corrosive/abrasive services.

13. Bearing retainer and lineshaft bearing

Ductile cast iron bearing retainer for size smaller than 24".

Various bearing material available.

● General Data

14. Discharge head and motor riser

Discharge head and motor riser designed for all modes of drivers including hollow shaft or solid shaft motors, right angle gears, vertical steam turbines, etc. Fabricated elbow discharge head engineered to minimize losses. Large access holes provide easy access to coupling and stuffing box. Above ground and below ground discharge head for requirement.

15. Thrust bearing

Oil lubricated thrust bearing assembly set with water cooling system make the pumps running safely in longer life.

16. Packing box

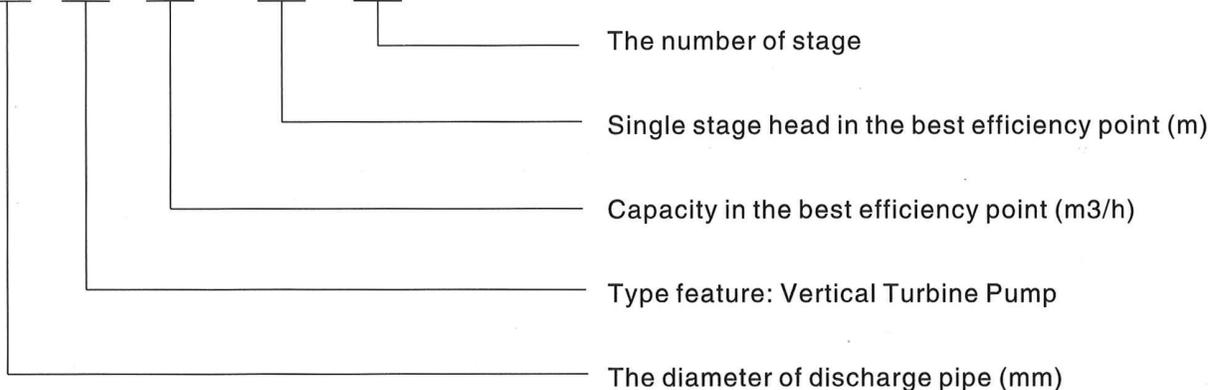
Whenever packing lubrication leakage can be tolerated and the discharge pressure does not exceed 800psi, a packed box may be used. Optional headshaft sleeve available to protect shaft.

17. Coupling for pump and motor

Flexible coupling for pump and motor when pump with thrust bearing. Impeller adjustment by the nut on the top shaft.

Definition of Model

150 VTP 200 - 30 x 3



● VTC, VTG Industrial Turbine Pumps (Above Ground Discharge)

Specification range

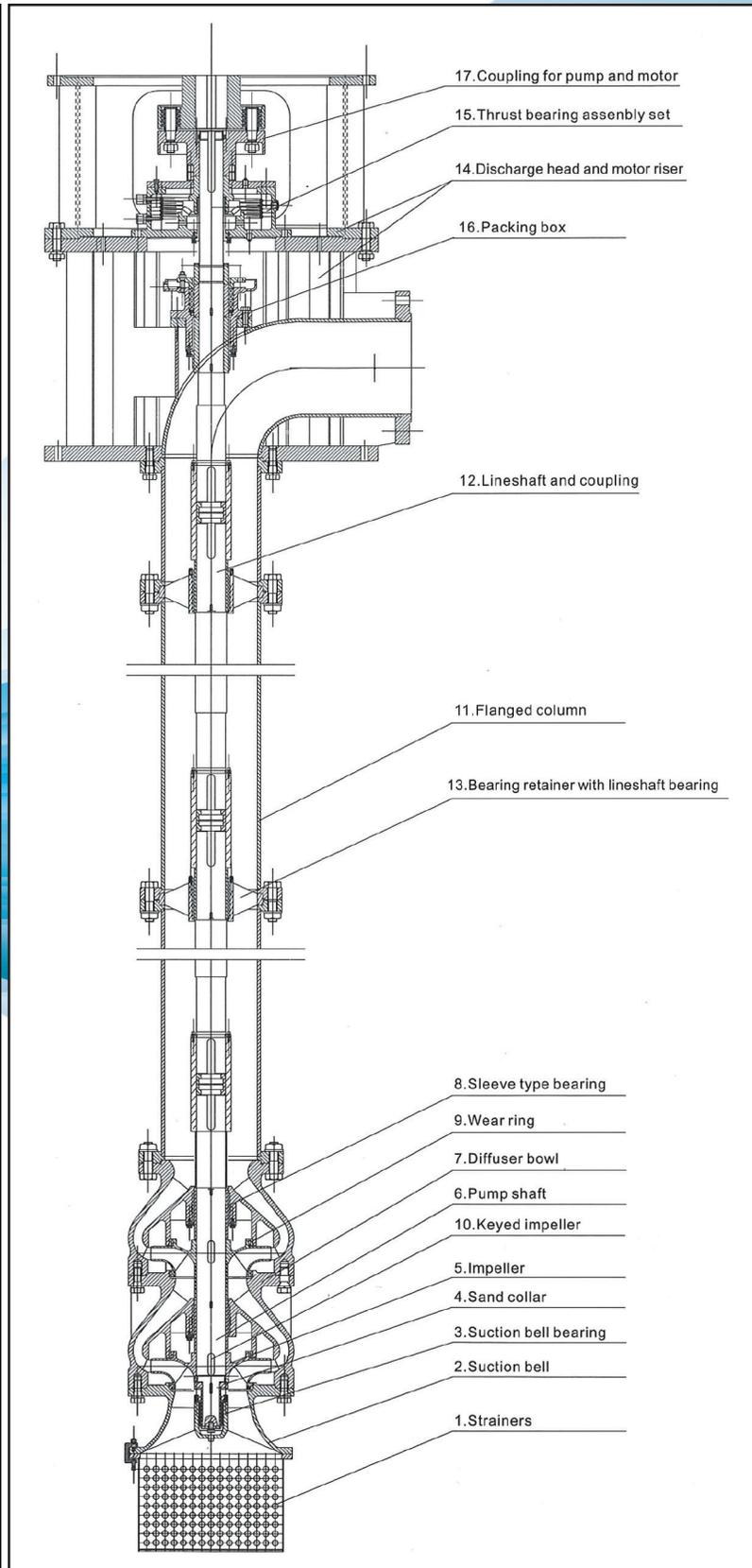
- Capacities to 4000m³/h (18,000GPM)
- Heads to 380m (1250ft)
- Temperatures to 200°C(388°F)

Design Advantages

1. Fabricated discharge head for 10" or larger sizes. Suitable for temperature liquid pumping.
2. Seamless flanged ends column pipe and flanges bowl construction incorporating registered fits for ease of assembly during assembly.
3. Alloy construction with external tube flush of critical wear areas available for abrasive services.
4. Build-in alignment and simple piping for less costly installation and ease of maintenance reduced downtime.
5. 416SS shafting. Keyed lineshaft coupling available in all size for ease of maintenance. The lineshaft can be protected by water flushing the enclosing tube bearing on corrosive/abrasive services.
6. Various bearing material available.
7. Renewable shaft sleeve or hard facing of shaft available for long life.
8. Dual wear rings for impellers and bowls. Hard facing wear surfaces available for longer life. Wear rings can be flushed when solids are present in pumpage.

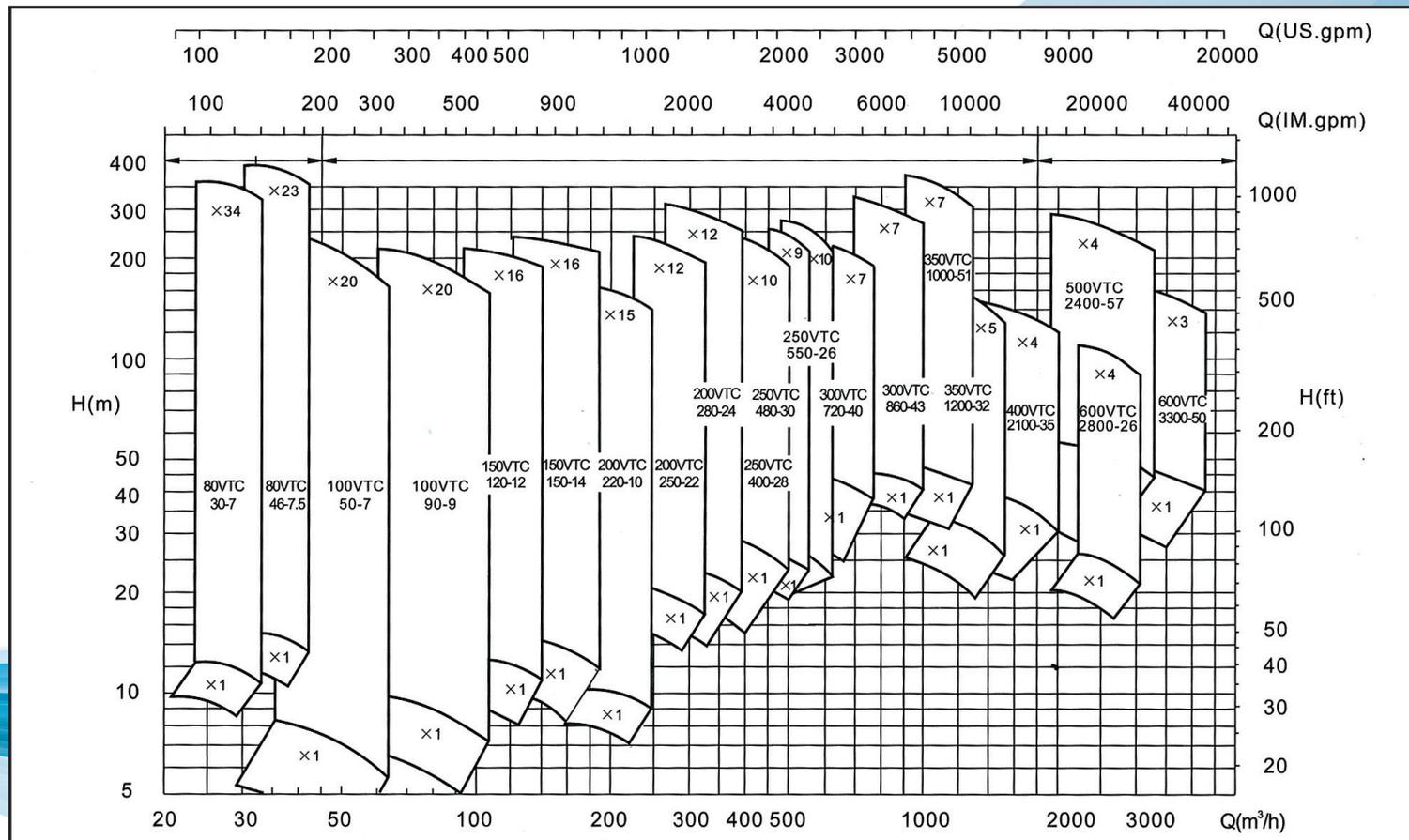
Services

Cooling Water
 Seawater and Raw Water Intake
 industrial Process Pumps
 Utility Circulating Water
 Condenser Circulating Water Pumps
 Ash Sluice
 Fire—fighting

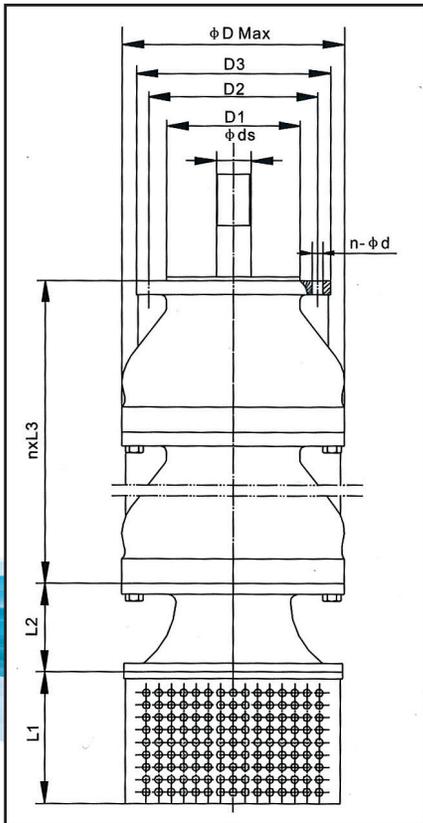


• Technical Data

VTC Selection Charts



VTC Pump Bowl Assembly Dimensions

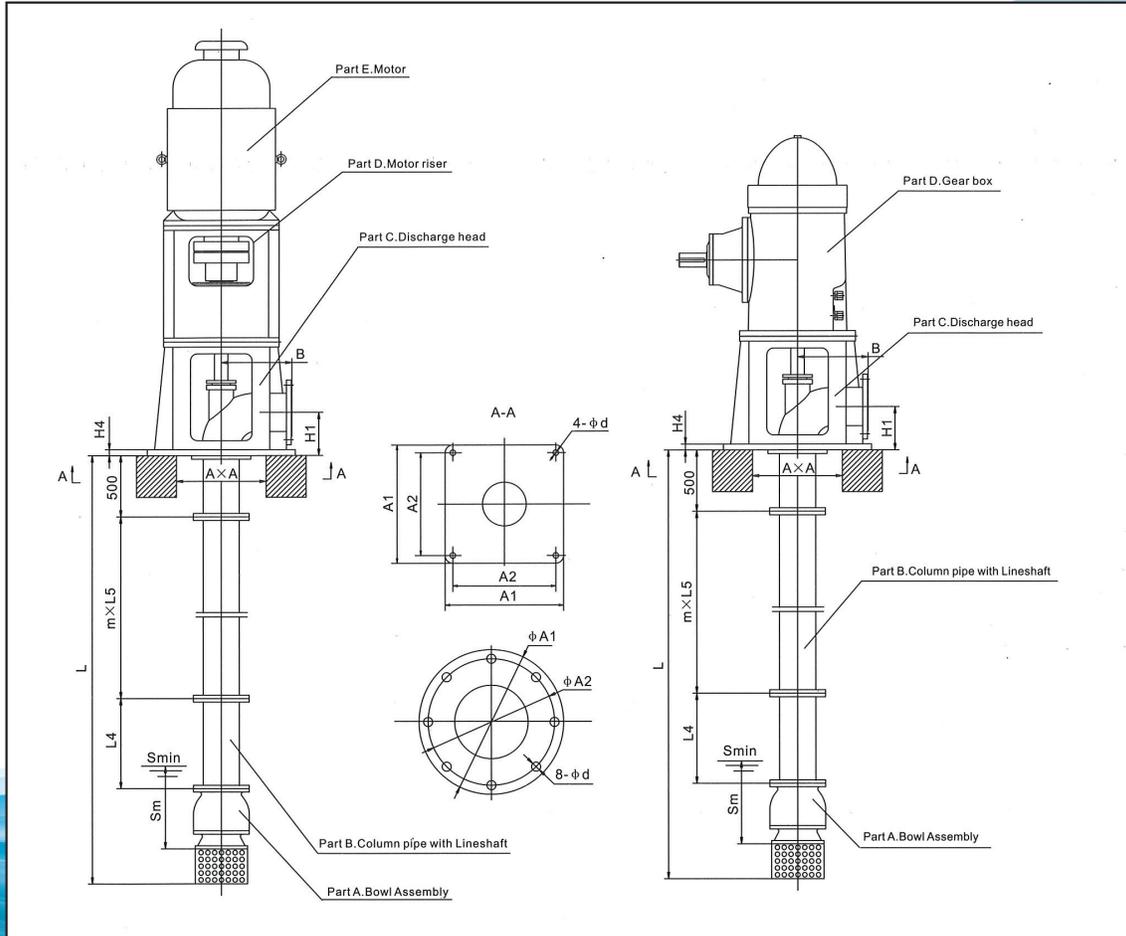


| Model | measures (in) | | | | | | | | | |
|---------------|---------------|-------|-------|-------|----|---------|-------|----------|----------------|-----------------|
| D Max | L1 | L2 | L3 | Max n | D1 | D2 | D3 | ϕd | $n-\phi d$ | |
| 80VTC30-7 | 5.24 | 7.87 | 3.15 | 3.54 | 34 | 5.20f7 | 6.30 | 7.87 | 0.87 | 8- ϕ .71 |
| 80VTC30-7.5 | 5.67 | 7.87 | 3.15 | 3.94 | 23 | 5.20f7 | 6.30 | 7.87 | 0.87 | 8- ϕ .71 |
| 100VTC50-7 | 9.65 | 10.24 | 3.15 | 7.28 | 20 | 5.12f7 | 6.61 | 7.87 | 0.87/1.18 | 8- ϕ .53 |
| 100VTC90-9 | 9.65 | 10.24 | 3.15 | 8.07 | 20 | 5.12f7 | 6.61 | 7.87 | 0.79/1.18 | 8- ϕ .53 |
| 150VTC120-12 | 12.72 | 11.02 | 4.33 | 9.06 | 16 | 9.65f7 | 11.22 | 12.72 | 0.79/1.57 | 8- ϕ .71 |
| 150VTC150-14 | 12.72 | 11.02 | 4.33 | 9.06 | 16 | 9.65f7 | 11.22 | 12.72 | 1.18/1.57 | 8- ϕ .71 |
| 200VTC220-10 | 11.22 | 11.81 | 3.94 | 9.65 | 15 | 9.06f7 | 10.08 | 11.22 | 1.18/1.57 | 8- ϕ .71 |
| 200VTC250-22 | 16.54 | 11.81 | 4.72 | 11.81 | 12 | 12.99f7 | 14.96 | 16.54 | 1.57/50/2.36 | 12- ϕ .87 |
| 200VTC280-24 | 16.54 | 11.81 | 4.72 | 11.81 | 12 | 12.99f7 | 14.96 | 16.54 | 1.57/1.97/2.36 | 12- ϕ .87 |
| 250VTC550-26 | 16.93 | 12.60 | 4.72 | 14.37 | 10 | 13.78f7 | 15.55 | 16.93 | 1.97/2.36/2.76 | 12- ϕ .87 |
| 250VTC400-28 | 18.78 | 12.60 | 5.91 | 12.99 | 10 | 14.76f7 | 16.73 | 18.78 | 1.97/2.36/2.76 | 12- ϕ .87 |
| 250VTC480-30 | 18.78 | 12.60 | 5.91 | 12.99 | 9 | 14.76f7 | 16.73 | 18.78 | 1.97/2.36/2.76 | 12- ϕ .87 |
| 300VTC720-40 | 22.44 | 12.60 | 8.66 | 15.35 | 7 | 13.39f7 | 15.16 | 16.73 | 2.36/2.76/3.15 | 12- ϕ .87 |
| 300VTC860-43 | 22.44 | 12.60 | 8.66 | 15.35 | 7 | 13.39f7 | 15.16 | 16.73 | 2.76/80/3.54 | 12- ϕ .87 |
| 350VTC1200-32 | 20.67 | 12.60 | 9.06 | 23.62 | 5 | 16.54f7 | 18.90 | 20.67 | 2.36/2.76/3.15 | 16- ϕ .87 |
| 350VTC1000-51 | 24.80 | 12.60 | 9.84 | 16.93 | 7 | 15.55f7 | 18.90 | 21.65 | 2.76/3.54/4.33 | 16- ϕ 1.30 |
| 400VTC2100-35 | 21.65 | 12.60 | 9.06 | 23.62 | 5 | 17.32f7 | 19.69 | 21.65 | 2.76/3.54/3.94 | 16- ϕ .87 |
| 500VTC2400-57 | 37.60 | 12.60 | 15.35 | 26.57 | 4 | 23.82f7 | 29.13 | 33.46 | 3.54/3.94/4.72 | 16- ϕ 1.18 |
| 500VTC2800-26 | 28.35 | 12.60 | 13.78 | 37.01 | 4 | 24.41f7 | 29.13 | 33.46 | 3.15/3.94/4.33 | 16- ϕ 1.18 |
| 600VTC3300-50 | 34.65 | 12.60 | 11.02 | 29.92 | 3 | 25.59f7 | 28.54 | 30.71 | 3.54/4.33/5.12 | 16- ϕ 1.18 |

| Model | measures (mm) | | | | | | | | | |
|---------------|---------------|-----|-----|-------|----|-------|-----|----------|------------|----------------|
| D Max | L1 | L2 | L3 | Max n | D1 | D2 | D3 | ϕd | $n-\phi d$ | |
| 80VTC30-7 | 133 | 200 | 80 | 90 | 34 | 132f7 | 160 | 200 | 22 | 8- ϕ 18 |
| 80VTC30-7.5 | 144 | 200 | 80 | 100 | 23 | 132f7 | 160 | 200 | 22 | 8- ϕ 18 |
| 100VTC50-7 | 245 | 260 | 80 | 185 | 20 | 130f7 | 168 | 200 | 20/30 | 8- ϕ 13.5 |
| 100VTC90-9 | 245 | 260 | 80 | 205 | 20 | 130f7 | 168 | 200 | 20/30 | 8- ϕ 13.5 |
| 150VTC120-12 | 323 | 280 | 110 | 230 | 16 | 245f7 | 285 | 323 | 30/40 | 8- ϕ 18 |
| 150VTC150-14 | 323 | 280 | 110 | 230 | 16 | 245f7 | 285 | 323 | 30/40 | 8- ϕ 18 |
| 200VTC220-10 | 285 | 300 | 100 | 245 | 15 | 230f7 | 256 | 285 | 30/40 | 8- ϕ 18 |
| 200VTC250-22 | 420 | 300 | 120 | 300 | 12 | 330f7 | 380 | 420 | 40/50/60 | 12- ϕ 22 |
| 200VTC280-24 | 420 | 300 | 120 | 300 | 12 | 330f7 | 380 | 420 | 40/50/60 | 12- ϕ 22 |
| 250VTC550-26 | 430 | 320 | 120 | 365 | 10 | 350f7 | 395 | 430 | 50/60/70 | 12- ϕ 22 |
| 250VTC400-28 | 477 | 320 | 150 | 330 | 10 | 375f7 | 425 | 477 | 50/60/70 | 12- ϕ 22 |
| 250VTC480-30 | 477 | 320 | 150 | 330 | 9 | 375f7 | 425 | 477 | 50/60/70 | 12- ϕ 22 |
| 300VTC720-40 | 570 | 320 | 220 | 390 | 7 | 340f7 | 385 | 425 | 60/70/80 | 12- ϕ 22 |
| 300VTC860-43 | 570 | 320 | 220 | 390 | 7 | 340f7 | 385 | 425 | 70/80/90 | 12- ϕ 22 |
| 350VTC1200-32 | 525 | 320 | 230 | 600 | 5 | 420f7 | 480 | 525 | 60/70/80 | 16- ϕ 22 |
| 350VTC1000-51 | 630 | 320 | 250 | 430 | 7 | 395f7 | 480 | 550 | 70/90/110 | 16- ϕ 33 |
| 400VTC2100-35 | 550 | 320 | 230 | 600 | 5 | 440f7 | 500 | 550 | 70/90/100 | 16- ϕ 22 |
| 500VTC2400-57 | 955 | 320 | 390 | 675 | 4 | 605f7 | 740 | 850 | 90/100/120 | 16- ϕ 30 |
| 500VTC2800-26 | 720 | 320 | 350 | 940 | 4 | 620f7 | 740 | 850 | 80/100/110 | 16- ϕ 30 |
| 600VTC3300-50 | 880 | 320 | 280 | 760 | 3 | 650f7 | 725 | 780 | 90/110/130 | 16- ϕ 30 |

VTC, VTG Pump Dimensions

(Above Ground Discharge)



| Model | A1 | A2 | d | H1 | H2 | H4 | L5 | B | Sm | AxA |
|--------|-------|-------|------|-------|-------|-------|----------------|-------|-------|---------------|
| 80VTC | 17.72 | 15.75 | 0.98 | 5.71 | 13.78 | 0.79 | 78.74 or 98.43 | 9.84 | 9.84 | 11.81 X 11.81 |
| 100VTC | 17.72 | 15.75 | 0.98 | 5.71 | 13.78 | 0.79 | 78.74 or 98.43 | 9.84 | 11.81 | 11.81 X 11.81 |
| 150VTC | 20.47 | 18.50 | 0.98 | 6.50 | 15.75 | 0.98 | 78.74 or 98.43 | 11.81 | 13.78 | 14.96 X 14.96 |
| 200VTC | 23.62 | 21.26 | 1.18 | 8.46 | 18.90 | 0.98 | 78.74 or 98.43 | 13.78 | 15.75 | 18.90 X 18.90 |
| 250VTC | 28.74 | 26.38 | 1.18 | 10.43 | 22.05 | 1.18 | 98.43 | 15.75 | 17.72 | 21.65 X 21.65 |
| 300VTC | 32.68 | 30.31 | 1.18 | 12.60 | 25.20 | 1.38 | 98.43 | 17.72 | 19.69 | 25.59 X 25.59 |
| 350VTC | 36.61 | 34.25 | 1.18 | 14.57 | 28.35 | 1.38 | 98.43 | 19.69 | 23.62 | 26.77 X 26.77 |
| 400VTC | 40.55 | 37.80 | 1.30 | 16.54 | 31.50 | 1.38 | 98.43 | 21.65 | 27.56 | 600 X 600 |
| 450VTC | 44.49 | 41.73 | 1.30 | 18.50 | 34.65 | 1.57 | 98.43 | 23.62 | 31.50 | 1000 X 1000 |
| 500VTC | 48.43 | 45.67 | 1.30 | 20.47 | 37.80 | 40 | 98.43 | 25.59 | 35.43 | 1000 X 1000 |
| 600VTC | 54.33 | 51.57 | 1.30 | 20.47 | 1120 | 44.09 | 98.43 | 29.53 | 39.37 | 1000 X 1000 |

| Model | A1 | A2 | d | H1 | H2 | H4 | L5 | B | Sm | AxA |
|--------|------|------|----|-----|------|----|--------------|-----|------|-------------|
| 80VTC | 450 | 400 | 25 | 145 | 350 | 20 | 2000 or 2500 | 250 | 250 | 300 X 300 |
| 100VTC | 450 | 400 | 25 | 145 | 350 | 20 | 2000 or 2500 | 250 | 300 | 300 X 300 |
| 150VTC | 520 | 470 | 25 | 165 | 400 | 25 | 2000 or 2500 | 300 | 350 | 380 X 380 |
| 200VTC | 600 | 540 | 30 | 215 | 480 | 25 | 2000 or 2500 | 350 | 400 | 480 X 480 |
| 250VTC | 730 | 670 | 30 | 265 | 560 | 30 | 2500 | 400 | 450 | 550 X 550 |
| 300VTC | 830 | 770 | 30 | 320 | 640 | 35 | 2500 | 450 | 500 | 650 X 650 |
| 350VTC | 930 | 870 | 30 | 370 | 720 | 35 | 2500 | 500 | 600 | 680 X 680 |
| 400VTC | 1030 | 960 | 33 | 420 | 800 | 35 | 2500 | 550 | 700 | 600 X 600 |
| 450VTC | 1130 | 1060 | 33 | 470 | 880 | 40 | 2500 | 600 | 800 | 1000 X 1000 |
| 500VTC | 1230 | 1160 | 33 | 520 | 960 | 40 | 2500 | 650 | 900 | 1000 X 1000 |
| 600VTC | 1380 | 1310 | 33 | 620 | 1120 | 45 | 2500 | 750 | 1000 | 1000 X 1000 |

● **VTM, VTG Vertical Turbine Pumps**
(Above Ground Discharge)

Specification range

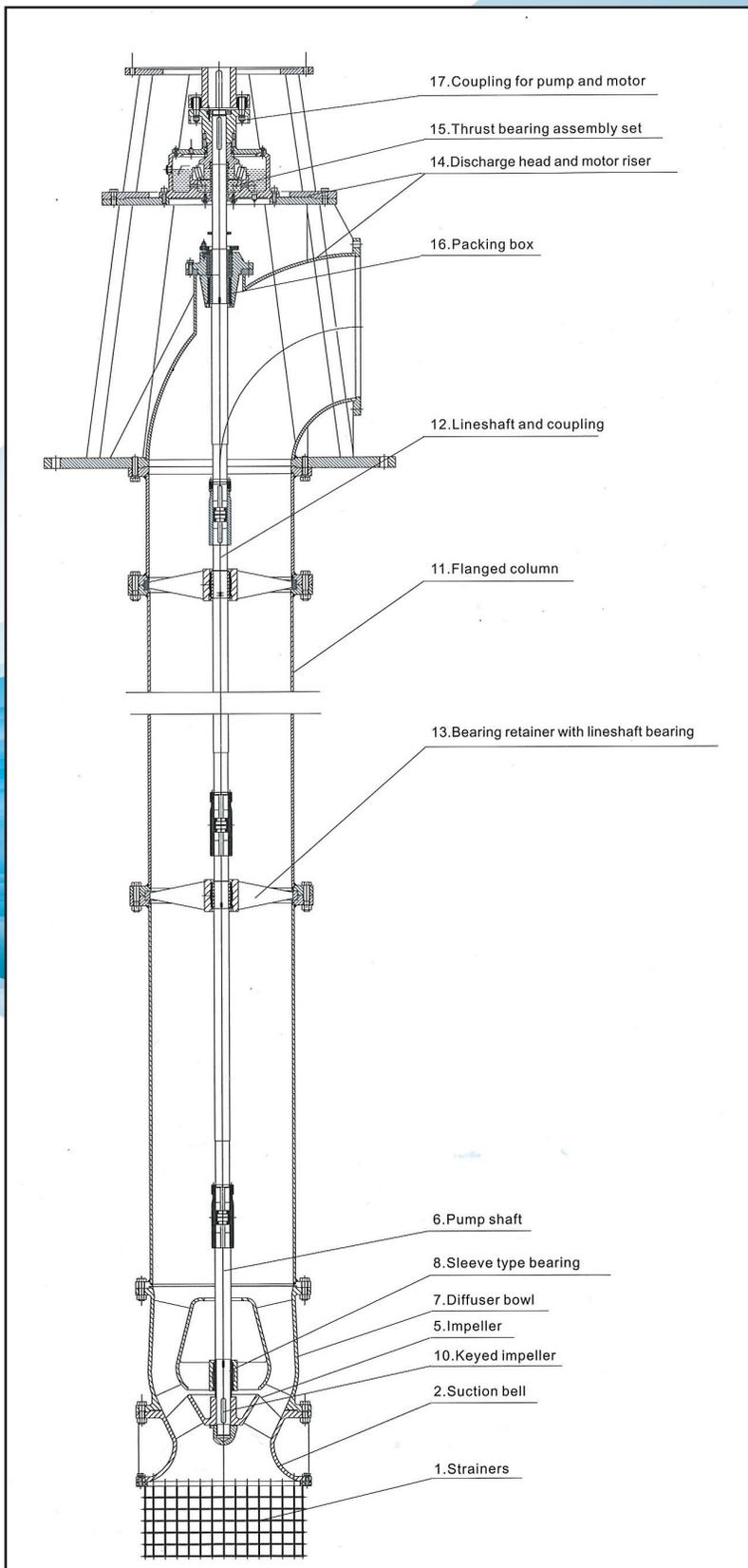
- Capacities to 25,000 m³/h (110,000GPM)
- Heads to 70 m (210ft)

Design Advantages

1. Fabricated discharge head for all sizes.
2. Seamless flanged ends column pipe and flanges bowl construction incorporating registered fits for ease of assembly during assembly.
3. Alloy construction with external tube flush of critical wear areas available for abrasive services.
4. Available with semi—open or enclosed impeller, with or without wear rings, optimum diffuser and impeller match for maximum efficiency.
5. 41688 shafting. Keyed lineshaft coupling available in all size for ease of maintenance. The lineshaft can be protected by water-flushing the enclosing tube bearing on corrosive/abrasive services.
6. Various bearing material available.
7. Wide range of corrosion and erosion resistant materials.
8. Hollow shaft for bowl bearing flushing.
9. Flexible design to accommodate fixed or existing dimensions above and below ground discharge.

Services

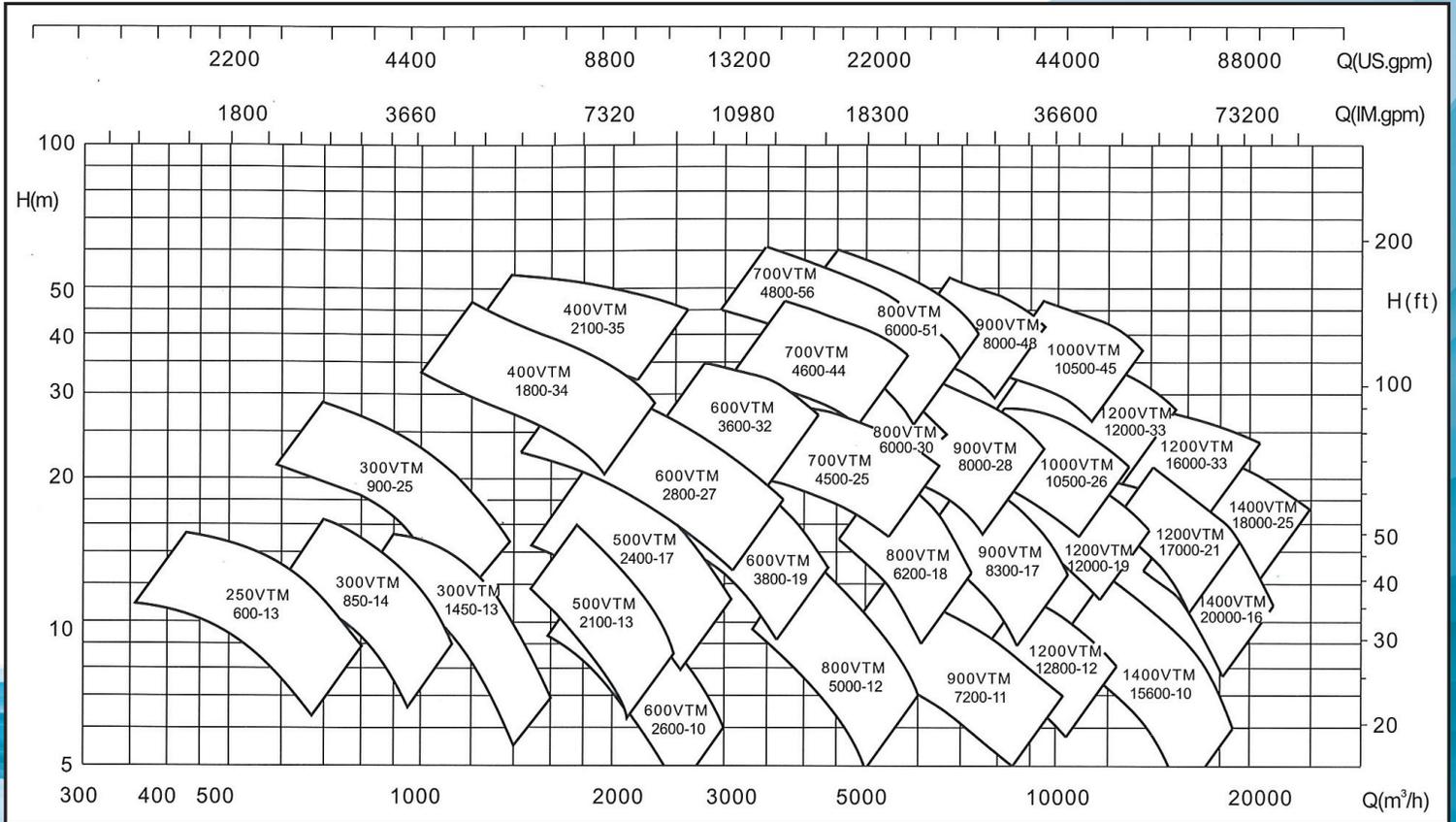
- Cooling Water
- Seawater and Raw water intake
- Industrial Process Pumps
- Utility Circulating Water
- Condenser Circulating Water Pumps
- Irrigation and Drainage
- Storm and Flood water
- River Water Intake
- Municipal Water Supply



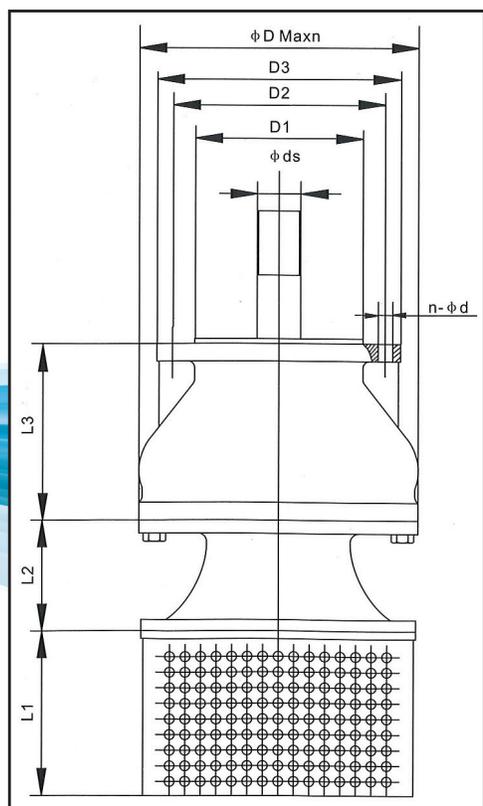


• Technical Data

VTM Selection Charts



VTM Pump Bowl Assembly Dimensions



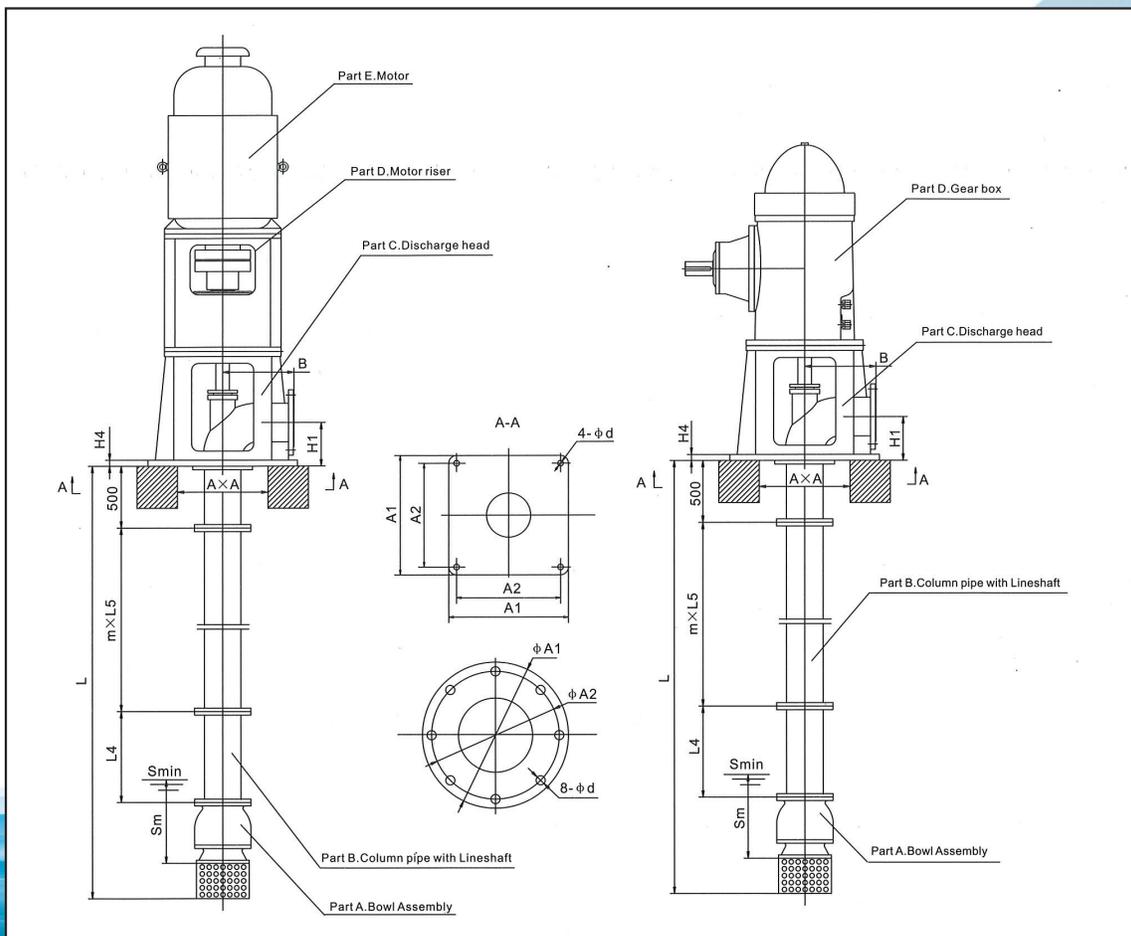
* = Semi-open Impeller

| measures (mm) | | | | | | | | | |
|------------------|-------|-------|-------|-------|-----------|-------|-------|-------|-----------------|
| Model | D max | L1 | L2 | L3 | ϕds | D1 | D2 | D3 | n- ϕd |
| 250VTM600-13 | 15.47 | 12.60 | 4.33 | 15.16 | 1.57 | 12.01 | 13.78 | 15.47 | 12- $\phi 0.91$ |
| 300VTM850-14 | 16.81 | 12.60 | 4.72 | 16.34 | 1.57 | 12.99 | 15.16 | 16.81 | 12- $\phi 0.91$ |
| 300VTM900-25 | 17.13 | 12.60 | 7.09 | 20.20 | 1.97 | 12.60 | 14.17 | 15.75 | 12- $\phi 0.91$ |
| * 350VTM1450-13 | 18.90 | 12.60 | 9.45 | 16.14 | 1.57 | 15.55 | 17.32 | 18.90 | 16- $\phi 0.91$ |
| 400VTM1800-34 | 21.65 | 12.60 | 9.06 | 23.62 | 2.76 | 17.32 | 19.69 | 21.65 | 16- $\phi 0.98$ |
| 400VTM2100-35 | 21.65 | 12.60 | 9.06 | 23.62 | 2.76 | 17.32 | 19.69 | 21.65 | 16- $\phi 0.98$ |
| *500VTM2100-13 | 26.38 | 12.60 | 13.78 | 17.72 | 1.97 | 20.47 | 24.41 | 26.38 | 20- $\phi 0.98$ |
| 500VTM2400-17 | 29.53 | 12.60 | 15.75 | 18.70 | 2.36 | 21.65 | 23.62 | 25.59 | 20- $\phi 0.98$ |
| *600VTM2600-10 | 29.33 | 12.60 | 11.61 | 20.87 | 2.36 | 24.80 | 27.36 | 29.33 | 20- $\phi 1.18$ |
| 600VTM3600-32 | 29.13 | 12.60 | 18.90 | 24.41 | 3.15 | 24.80 | 28.54 | 30.71 | 20- $\phi 1.18$ |
| 600VTM2800-27 | 27.95 | 12.60 | 11.81 | 28.94 | 2.76 | 24.80 | 28.54 | 30.71 | 20- $\phi 1.18$ |
| *600VTM3800-19 | 29.92 | 12.60 | 12.99 | 25.20 | 2.76 | 24.80 | 28.54 | 30.71 | 20- $\phi 1.18$ |
| 700VTM4500-25 | 34.45 | 12.60 | 22.44 | 28.74 | 3.54 | 28.74 | 33.07 | 35.24 | 24- $\phi 1.18$ |
| 700VTM4600-44 | 42.32 | 12.60 | 13.78 | 36.42 | 4.33 | 28.74 | 33.07 | 35.24 | 24- $\phi 1.18$ |
| 700VTM4800-56 | 50.98 | 12.60 | 15.94 | 35.04 | 4.72 | 28.74 | 33.07 | 35.24 | 24- $\phi 1.18$ |
| *800VTM5000-12 | 38.58 | 12.60 | 16.14 | 28.94 | 3.15 | 32.68 | 37.40 | 39.76 | 24- $\phi 1.34$ |
| 800VTM6000-51 | 45.87 | 12.60 | 14.96 | 39.37 | 4.72 | 32.68 | 37.40 | 39.76 | 24- $\phi 1.34$ |
| 800VTM6000-30 | 37.99 | 12.60 | 24.61 | 31.89 | 3.94 | 32.68 | 37.40 | 39.76 | 24- $\phi 1.34$ |
| *800VTM6200-18 | 38.98 | 12.60 | 16.93 | 32.87 | 3.54 | 32.68 | 37.40 | 39.76 | 24- $\phi 1.34$ |
| *900VTM7200-11 | 45.67 | 12.60 | 19.29 | 35.04 | 3.54 | 36.61 | 41.34 | 43.70 | 28- $\phi 1.34$ |
| 900VTM8000-28 | 44.69 | 12.60 | 37.80 | 29.13 | 4.72 | 36.61 | 41.34 | 43.70 | 28- $\phi 1.34$ |
| *900VTM8300-17 | 45.87 | 12.60 | 20.28 | 38.98 | 3.94 | 36.61 | 41.34 | 43.70 | 28- $\phi 1.34$ |
| 900VTM8000-48 | 54.53 | 12.60 | 17.72 | 46.85 | 5.51 | 36.61 | 41.34 | 43.70 | 28- $\phi 1.34$ |
| 1000VTM10500-26 | 52.17 | 12.60 | 34.06 | 43.70 | 5.12 | 40.55 | 45.67 | 48.03 | 28- $\phi 1.34$ |
| 1000VTM10500-45 | 63.39 | 12.60 | 20.67 | 54.72 | 6.30 | 40.55 | 45.67 | 48.03 | 28- $\phi 1.34$ |
| 1200VTM12000-19 | 59.06 | 12.60 | 38.78 | 49.80 | 5.12 | 48.43 | 54.33 | 57.09 | 32- $\phi 1.61$ |
| 1200VTM12000-33 | 72.05 | 12.60 | 23.62 | 62.60 | 6.30 | 48.43 | 54.33 | 57.09 | 32- $\phi 1.61$ |
| *1200VTM12800-12 | 61.42 | 12.60 | 27.56 | 52.36 | 4.72 | 48.43 | 54.33 | 57.09 | 32- $\phi 1.61$ |
| 1200VTM16000-33 | 59.06 | 12.60 | 38.78 | 49.80 | 6.30 | 48.43 | 54.33 | 57.09 | 32- $\phi 1.61$ |
| 1200VTM17000-21 | 61.42 | 12.60 | 27.56 | 52.36 | 5.51 | 48.43 | 54.33 | 57.09 | 32- $\phi 1.61$ |
| *1400VTM20000-16 | 70.87 | 12.60 | 31.69 | 60.83 | 6.30 | 56.30 | 62.60 | 65.94 | 36- $\phi 1.89$ |
| 1400VTM18000-25 | 67.72 | 12.60 | 44.49 | 57.09 | 6.69 | 56.30 | 62.60 | 65.94 | 36- $\phi 1.89$ |
| 1400VTM15600-10 | 67 | 13 | 30 | 52.76 | 4.72 | 56.30 | 62.60 | 65.94 | 36- $\phi 1.89$ |

| measures (mm) | | | | | | | | | |
|------------------|-------|-----|------|------|-----------|------|------|------|---------------|
| Model | D max | L1 | L2 | L3 | ϕds | D1 | D2 | D3 | n- ϕd |
| 250VTM600-13 | 393 | 320 | 110 | 385 | 40 | 305 | 350 | 393 | 12- $\phi 23$ |
| 300VTM850-14 | 427 | 320 | 120 | 415 | 40 | 330 | 385 | 427 | 12- $\phi 23$ |
| 300VTM900-25 | 435 | 320 | 180 | 513 | 50 | 320 | 360 | 400 | 12- $\phi 23$ |
| * 350VTM1450-13 | 480 | 320 | 240 | 410 | 40 | 395 | 440 | 480 | 16- $\phi 23$ |
| 400VTM1800-34 | 550 | 320 | 230 | 600 | 70 | 440 | 500 | 550 | 16- $\phi 25$ |
| 400VTM2100-35 | 550 | 320 | 230 | 600 | 70 | 440 | 500 | 550 | 16- $\phi 25$ |
| *500VTM2100-13 | 670 | 320 | 350 | 450 | 50 | 520 | 620 | 670 | 20- $\phi 25$ |
| 500VTM2400-17 | 750 | 320 | 400 | 475 | 60 | 550 | 600 | 650 | 20- $\phi 25$ |
| *600VTM2600-10 | 745 | 320 | 295 | 530 | 60 | 630 | 695 | 745 | 20- $\phi 30$ |
| 600VTM3600-32 | 740 | 320 | 480 | 620 | 80 | 630 | 725 | 780 | 20- $\phi 30$ |
| 600VTM2800-27 | 710 | 320 | 300 | 735 | 70 | 630 | 725 | 780 | 20- $\phi 30$ |
| *600VTM3800-19 | 760 | 320 | 330 | 640 | 70 | 630 | 725 | 780 | 20- $\phi 30$ |
| 700VTM4500-25 | 875 | 320 | 570 | 730 | 90 | 730 | 840 | 895 | 24- $\phi 30$ |
| 700VTM4600-44 | 1075 | 320 | 350 | 925 | 110 | 730 | 840 | 895 | 24- $\phi 30$ |
| 700VTM4800-56 | 1295 | 320 | 405 | 890 | 120 | 730 | 840 | 895 | 24- $\phi 30$ |
| *800VTM5000-12 | 980 | 320 | 410 | 735 | 80 | 830 | 950 | 1010 | 24- $\phi 34$ |
| 800VTM6000-51 | 1165 | 320 | 380 | 1000 | 120 | 830 | 950 | 1010 | 24- $\phi 34$ |
| 800VTM6000-30 | 965 | 320 | 625 | 810 | 100 | 830 | 950 | 1010 | 24- $\phi 34$ |
| *800VTM6200-18 | 990 | 320 | 430 | 835 | 90 | 830 | 950 | 1010 | 24- $\phi 34$ |
| *900VTM7200-11 | 1160 | 320 | 490 | 890 | 90 | 930 | 1050 | 1110 | 28- $\phi 34$ |
| 900VTM8000-28 | 1135 | 320 | 960 | 740 | 120 | 930 | 1050 | 1110 | 28- $\phi 34$ |
| *900VTM8300-17 | 1165 | 320 | 515 | 990 | 100 | 930 | 1050 | 1110 | 28- $\phi 34$ |
| 900VTM8000-48 | 1385 | 320 | 450 | 1190 | 140 | 930 | 1050 | 1110 | 28- $\phi 34$ |
| 1000VTM10500-26 | 1325 | 320 | 865 | 1110 | 130 | 1030 | 1160 | 1220 | 28- $\phi 34$ |
| 1000VTM10500-45 | 1610 | 320 | 525 | 1390 | 160 | 1030 | 1160 | 1220 | 28- $\phi 34$ |
| 1200VTM12000-19 | 1500 | 320 | 985 | 1265 | 130 | 1230 | 1380 | 1450 | 32- $\phi 41$ |
| 1200VTM12000-33 | 1830 | 320 | 600 | 1590 | 160 | 1230 | 1380 | 1450 | 32- $\phi 41$ |
| *1200VTM12800-12 | 1560 | 320 | 700 | 1330 | 120 | 1230 | 1380 | 1450 | 32- $\phi 41$ |
| 1200VTM16000-33 | 1500 | 320 | 985 | 1265 | 160 | 1230 | 1380 | 1450 | 32- $\phi 41$ |
| 1200VTM17000-21 | 1560 | 320 | 700 | 1330 | 140 | 1230 | 1380 | 1450 | 32- $\phi 41$ |
| *1400VTM20000-16 | 1800 | 320 | 805 | 1545 | 160 | 1430 | 1590 | 1675 | 36- $\phi 48$ |
| 1400VTM18000-25 | 1720 | 320 | 1130 | 1450 | 170 | 1430 | 1590 | 1675 | 36- $\phi 48$ |
| 1400VTM15600-10 | 1700 | 320 | 750 | 1340 | 120 | 1430 | 1590 | 1675 | 36- $\phi 48$ |

VTM, VTG Pump Dimensions

(Above Ground Discharge)



| measures (in) | | | | | | | | | | | | |
|---------------|--------|-------|-------|-------|------|-------|-------|------|-------|-------|--------|---------------|
| Model | ØA1 | ØA2 | A1 | A2 | Ød | H1 | H2 | H4 | L5 | B | Sm | AxA |
| 250VTM | / | / | 28.74 | 26.38 | 1.18 | 10.43 | 22.05 | 1.18 | 98.43 | 15.75 | 17.72 | 17.72 X 17.72 |
| 300VTM | / | / | 32.68 | 30.31 | 1.18 | 12.60 | 25.20 | 1.38 | 98.43 | 17.72 | 19.69 | 19.69 X 19.69 |
| 350VTM | / | / | 36.61 | 34.25 | 1.18 | 14.57 | 28.35 | 1.38 | 98.43 | 19.69 | 23.62 | 21.65 X 21.65 |
| 500VTM | / | / | 48.43 | 45.67 | 1.30 | 20.47 | 37.80 | 1.57 | 98.43 | 25.59 | 35.43 | 33.46 X 33.46 |
| 600VTM | / | / | 54.33 | 51.57 | 1.30 | 24.41 | 44.09 | 1.77 | 98.43 | 39.37 | 39.37 | 33.46 X 33.46 |
| 700VTM | 59.06 | 55.12 | / | / | 1.42 | 27.56 | 49.21 | 1.97 | 98.43 | 31.50 | 47.24 | 43.31 X 43.31 |
| 800VTM | 64.96 | 61.02 | / | / | 1.42 | 31.50 | 55.12 | 1.97 | 98.43 | 35.43 | 55.12 | 47 X 47 |
| 900VTM | 70.87 | 66.93 | / | / | 1.42 | 35.43 | 61.02 | 2.36 | 98.43 | 39.37 | 62.99 | 53 X 53 |
| 1000VTM | 76.77 | 72.83 | / | / | 1.65 | 39.37 | 66.93 | 2.36 | 98.43 | 43.31 | 70.87 | 58 X 58 |
| 1200VTM | 88.58 | 84.65 | / | / | 1.65 | 47.24 | 78.74 | 2.36 | 98.43 | 47.24 | 86.61 | 63 X 63 |
| 1400VTM | 100.39 | 96.46 | / | / | 1.65 | 55.12 | 90.55 | 2.36 | 98.43 | 55.12 | 102.36 | 71 X 71 |

| measures (mm) | | | | | | | | | | | | |
|---------------|------|------|------|------|----|------|------|----|------|------|------|-----------|
| Model | ØA1 | ØA2 | A1 | A2 | Ød | H1 | H2 | H4 | L5 | B | Sm | AxA |
| 250VTM | / | / | 730 | 670 | 30 | 265 | 560 | 30 | 2500 | 400 | 450 | 450X450 |
| 300VTM | / | / | 830 | 770 | 30 | 320 | 640 | 35 | 2500 | 450 | 500 | 500X500 |
| 350VTM | / | / | 930 | 870 | 30 | 370 | 720 | 35 | 2500 | 500 | 600 | 550X550 |
| 500VTM | / | / | 1230 | 1160 | 33 | 520 | 960 | 40 | 2500 | 650 | 900 | 850X850 |
| 600VTM | / | / | 1380 | 1310 | 33 | 620 | 1120 | 45 | 2500 | 1000 | 1000 | 850X850 |
| 700VTM | 1500 | 1400 | / | / | 36 | 700 | 1250 | 50 | 2500 | 800 | 1200 | 1100X1100 |
| 800VTM | 1650 | 1550 | / | / | 36 | 800 | 1400 | 50 | 2500 | 900 | 1400 | 1200X1200 |
| 900VTM | 1800 | 1700 | / | / | 36 | 900 | 1550 | 60 | 2500 | 1000 | 1600 | 1350X1350 |
| 1000VTM | 1950 | 1850 | / | / | 42 | 1000 | 1700 | 60 | 2500 | 1100 | 1800 | 1480X1480 |
| 1200VTM | 2250 | 2150 | / | / | 42 | 1200 | 2000 | 60 | 2500 | 1200 | 2200 | 1600X1600 |
| 1400VTM | 2550 | 2450 | / | / | 42 | 1400 | 2300 | 60 | 2500 | 1400 | 2600 | 1800X1800 |

● VTA, VTG Vertical Turbine Pumps (Above Ground Discharge)

Specification range

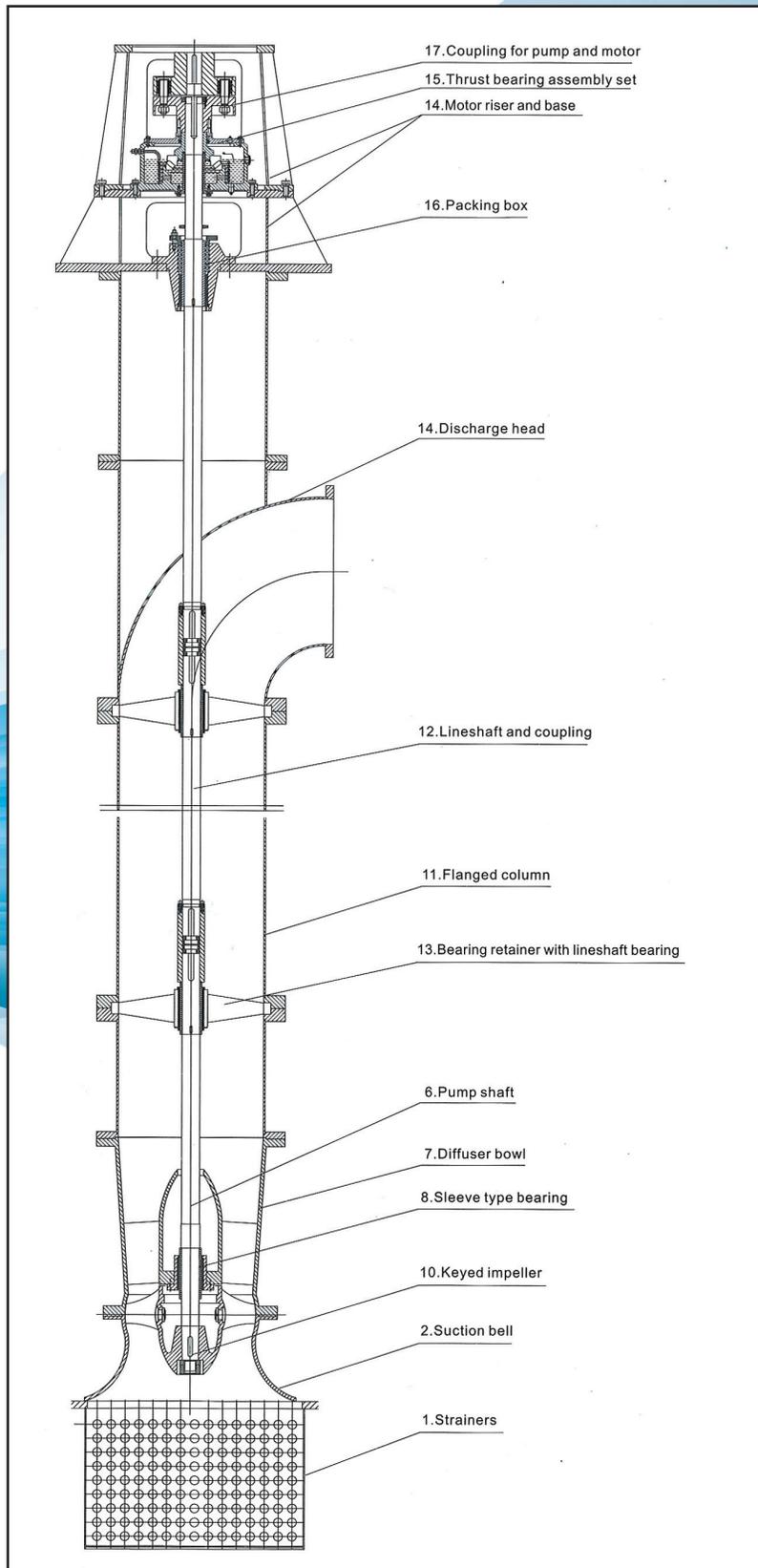
- Capacities to 20, 000m³/h (90,000GPM)
- Heads to 12m (36ft)

Design Advantages

1. Fabricated discharge head for all sizes.
2. Seamless flanged ends column pipe and flanges bowl construction incorporating registered fits for ease of assembly during assembly.
3. Alloy construction with external tube flush of critical wear areas available for abrasive services.
4. High efficiency design. Broad hydraulic coverage provides best selection to meet specific operating conditions.
5. 416SS shafting. Keyed lineshaft coupling available in all size for ease of maintenance. The lineshaft can be protected by water flushing the enclosing tube bearing on corrosive/abrasive services.
6. Various bearing material available.
7. Wide range of corrosion and erosion resistant materials.
8. Flexible design to accommodate fixed or existing dimensions.

Services

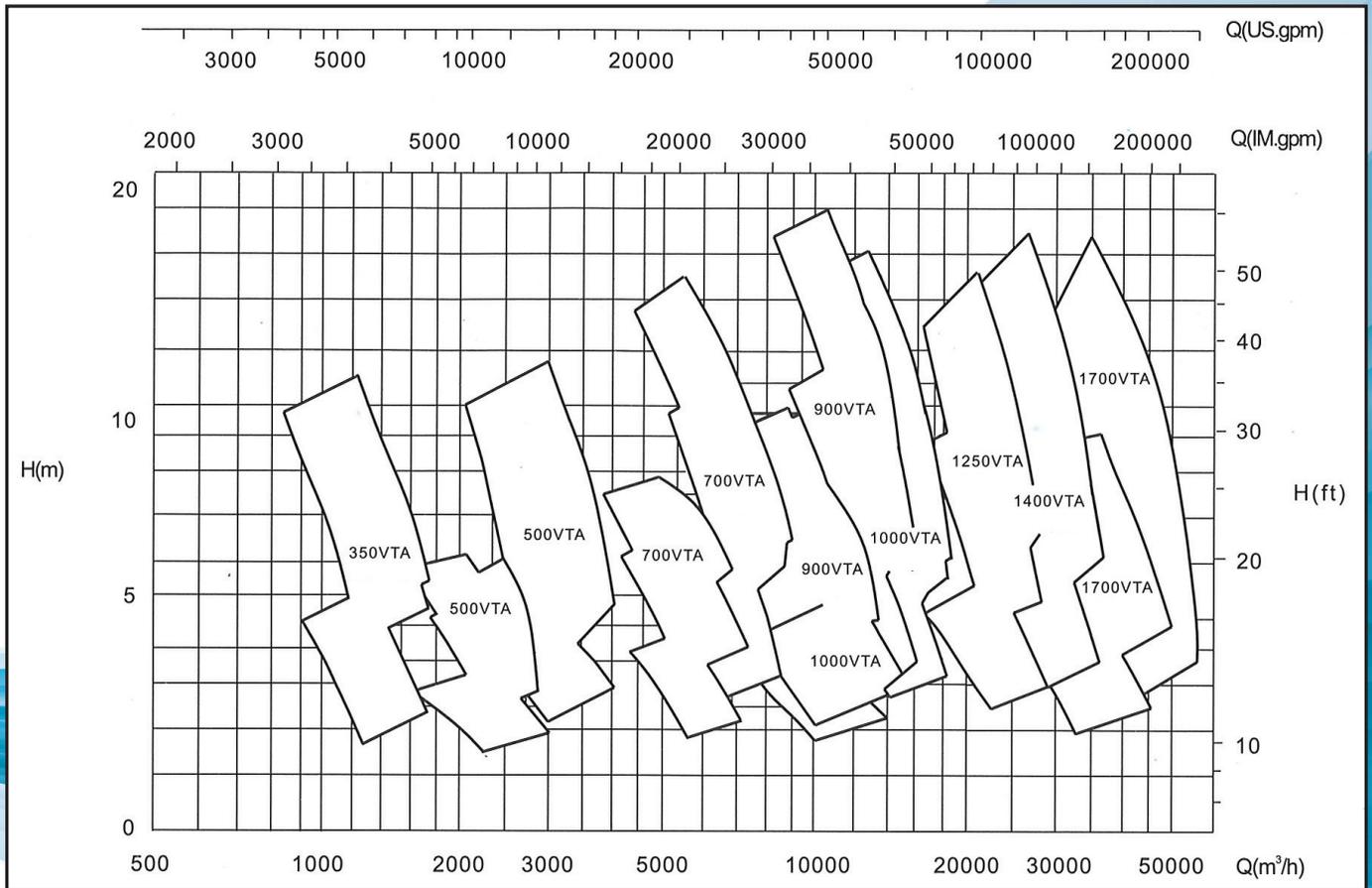
Pollution Control
 Medium and Low Head Circulation
 Effluent Disposal
 Flood Control
 Dewatering
 River Water Intake
 Cooling Water
 Irrigation and Drainage
 Dry Docks





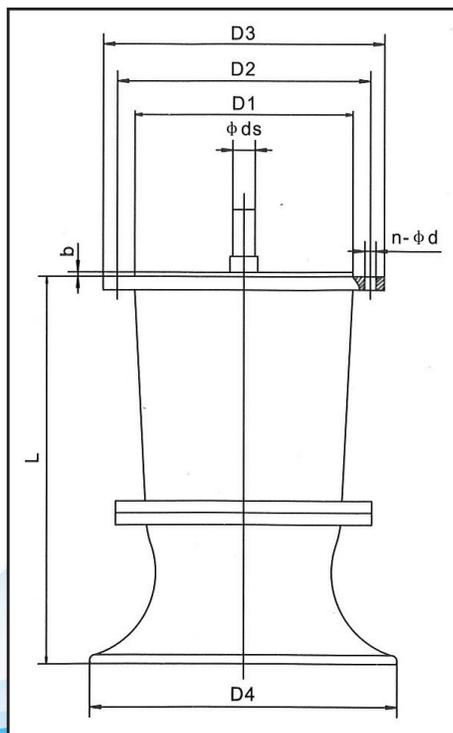
• Technical Data

VTA Selection Charts



VTA Pump Bowl

Assembly Dimensions

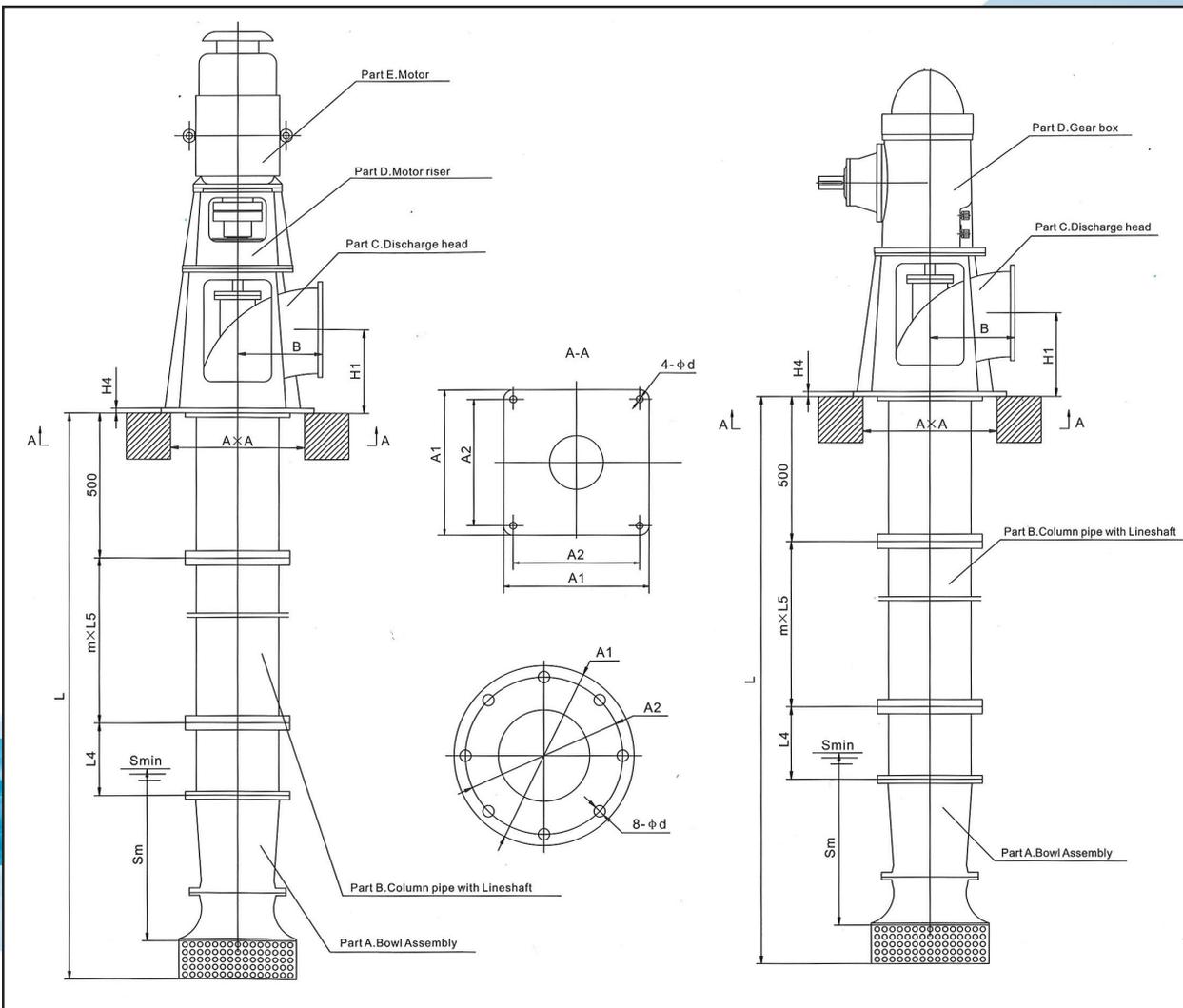


| measures (in) | | | | | | | | | | |
|---------------|--------------|--------|------|------|------|------|-----------|----|---------------|--|
| Model | Impeller Dia | D1 | D2 | D3 | D4 | L | ϕds | b | n- ϕd | |
| 350VTA | 300 | 370f7 | 415 | 450 | 516 | 590 | 40 | 5 | 8- $\phi 18$ | |
| 500VTA | 450 | 520f7 | 600 | 650 | 700 | 900 | 60 | 5 | 12- $\phi 23$ | |
| 700VTA | 650 | 720f7 | 810 | 865 | 1000 | 1000 | 90 | 7 | 20- $\phi 25$ | |
| 900VTA | 850 | 920f7 | 1020 | 1080 | 1280 | 1150 | 110 | 8 | 24- $\phi 30$ | |
| 1000VTA | 950 | 1020f7 | 1120 | 1180 | 1400 | 1200 | 120 | 10 | 28- $\phi 30$ | |
| 1250VTA | 1200 | 1270f7 | 1380 | 1450 | 1600 | 1300 | 140 | 10 | 32- $\phi 30$ | |
| 1400VTA | 1300 | 1420f7 | 1530 | 1600 | 1750 | 1400 | 160 | 10 | 36- $\phi 30$ | |
| 1700VTA | 1600 | 1720f7 | 1830 | 1900 | 2150 | 1600 | 190 | 10 | 40- $\phi 30$ | |

| measures (mm) | | | | | | | | | | |
|---------------|--------------|---------|-------|-------|-------|-------|-----------|------|---------------|--|
| Model | Impeller Dia | D1 | D2 | D3 | D4 | L | ϕds | b | n- ϕd | |
| 350VTA | 11.81 | 14.57f7 | 16.34 | 17.72 | 20.31 | 23.23 | 1.57 | 0.20 | 8- $\phi 18$ | |
| 500VTA | 17.72 | 20.47f7 | 23.62 | 25.59 | 27.56 | 35.43 | 2.36 | 0.20 | 12- $\phi 23$ | |
| 700VTA | 25.59 | 28.35f7 | 31.89 | 34.06 | 39.37 | 39.37 | 3.54 | 0.28 | 20- $\phi 25$ | |
| 900VTA | 33.46 | 36.22f7 | 40.16 | 42.52 | 50.39 | 45.28 | 4.33 | 0.31 | 24- $\phi 30$ | |
| 1000VTA | 37.40 | 37.40f7 | 44.09 | 46.46 | 55.12 | 47.24 | 4.72 | 0.39 | 28- $\phi 30$ | |
| 1250VTA | 47.24 | 40.16f7 | 54.33 | 57.09 | 62.99 | 51.18 | 5.51 | 0.39 | 32- $\phi 30$ | |
| 1400VTA | 51.18 | 50.00f7 | 60.24 | 62.99 | 68.90 | 55.12 | 6.30 | 0.39 | 36- $\phi 30$ | |
| 1700VTA | 62.99 | 55.91f7 | 72.05 | 74.80 | 84.65 | 62.99 | 7.48 | 0.39 | 40- $\phi 30$ | |

VTA, VTG Pump Dimensions

(Above Ground Discharge)

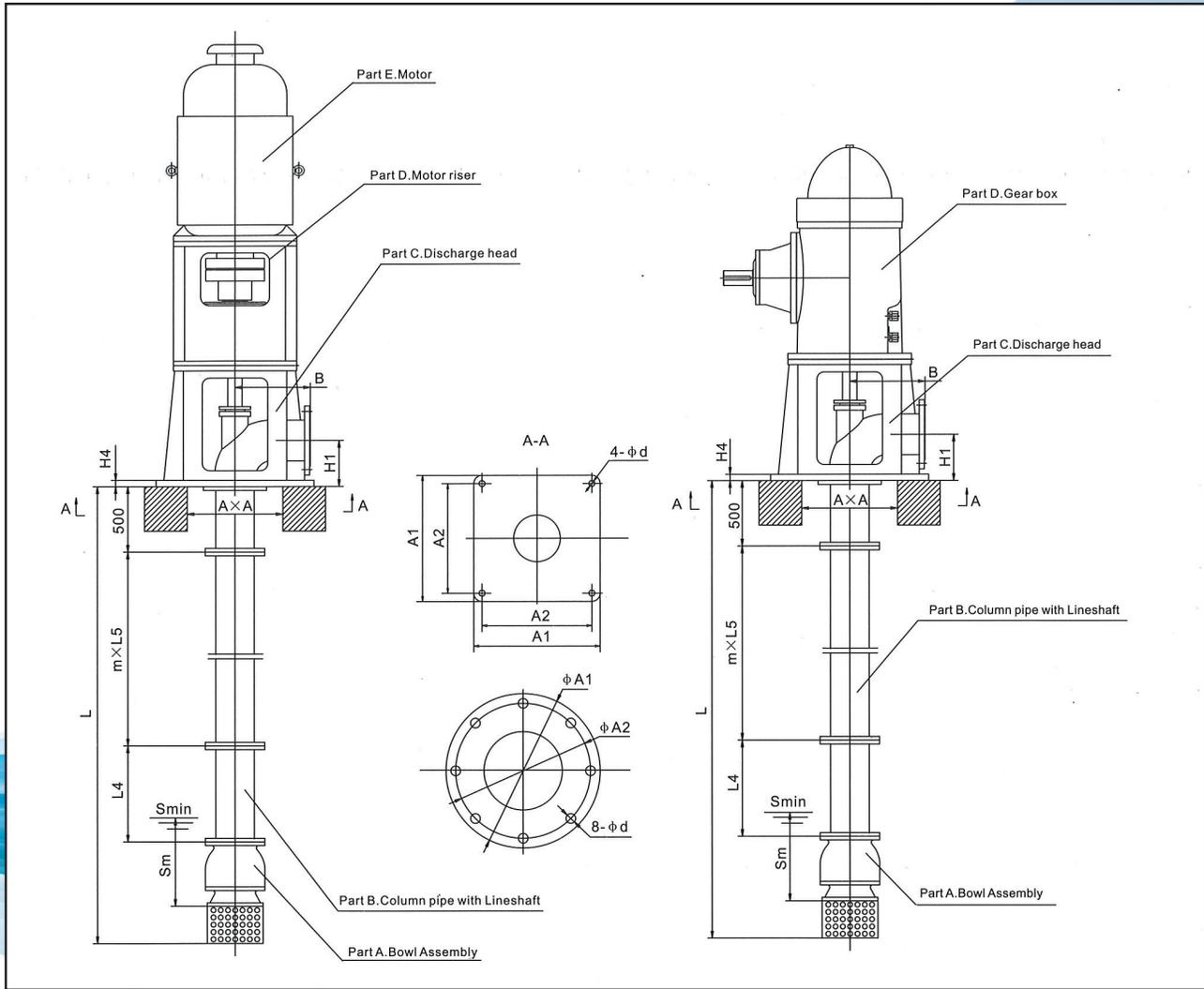


| Model | ØA1 | ØA2 | A1 | A2 | Ød | H1 | H2 | H4 | L5 | B | Sm | AxA |
|---------|--------|--------|-------|-------|------|-------|--------|------|-------|-------|--------|---------------|
| 350VTA | / | / | 36.61 | 34.25 | 1.18 | 14.57 | 28.35 | 1.38 | 62.99 | 19.69 | 23.62 | 21.65 X 21.65 |
| 500VTA | / | / | 48.43 | 45.67 | 1.30 | 20.47 | 37.80 | 1.57 | 62.99 | 25.59 | 35.43 | 33.46 X 33.46 |
| 700VTA | 59.06 | 55.12 | / | / | 1.42 | 27.56 | 49.21 | 1.97 | 62.99 | 31.50 | 47.24 | 45.28 X 45.28 |
| 900VTA | 70.87 | 66.93 | / | / | 1.42 | 35.43 | 61.02 | 2.36 | 62.99 | 39.37 | 62.99 | 57.09 X 57.09 |
| 1000VTA | 76.77 | 72.83 | / | / | 1.65 | 39.37 | 66.93 | 2.36 | 62.99 | 43.31 | 70.87 | 66.93 X 66.93 |
| 1250VTA | 88.58 | 84.65 | / | / | 1.65 | 49.21 | 78.74 | 2.36 | 62.99 | 53.15 | 86.61 | 74.80 X 74.80 |
| 1400VTA | 100.39 | 96.46 | / | / | 1.65 | 55.12 | 90.55 | 2.36 | 62.99 | 55.12 | 102.36 | 74.80 X 74.80 |
| 1700VTA | 126.77 | 122.05 | / | / | 1.81 | 66.93 | 102.36 | 2.36 | 62.99 | 66.93 | 118.11 | 98.43 X 98.43 |

| Model | ØA1 | ØA2 | A1 | A2 | Ød | H1 | H2 | H4 | L5 | B | Sm | AxA |
|---------|------|------|------|------|----|------|------|----|------|------|------|-------------|
| 350VTA | / | / | 930 | 870 | 30 | 370 | 720 | 35 | 1600 | 500 | 600 | 550 X 550 |
| 500VTA | / | / | 1230 | 1160 | 33 | 520 | 960 | 40 | 1600 | 650 | 900 | 850 X 850 |
| 700VTA | 1500 | 1400 | / | / | 36 | 700 | 1250 | 50 | 1600 | 800 | 1200 | 1150 X 1150 |
| 900VTA | 1800 | 1700 | / | / | 36 | 900 | 1550 | 60 | 1600 | 1000 | 1600 | 1450 X 1450 |
| 1000VTA | 1950 | 1850 | / | / | 42 | 1000 | 1700 | 60 | 1600 | 1100 | 1800 | 1700 X 1700 |
| 1250VTA | 2250 | 2150 | / | / | 42 | 1250 | 2000 | 60 | 1600 | 1350 | 2200 | 1900 X 1900 |
| 1400VTA | 2550 | 2450 | / | / | 42 | 1400 | 2300 | 60 | 1600 | 1400 | 2600 | 1900 X 1900 |
| 1700VTA | 3220 | 3100 | / | / | 46 | 1700 | 2600 | 60 | 1600 | 1700 | 3000 | 2500 X 2500 |

VTA, VTG Pump Dimensions

(Above Ground Discharge)



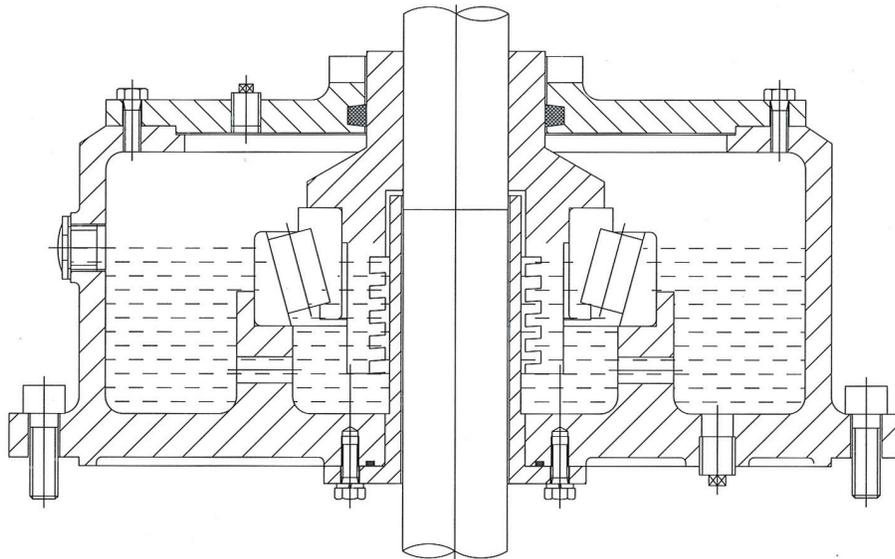
| ✓ | measures (in) | | | | | | | | | | |
|---------|---------------|--------|-------|------|------|-------|-------|-------|-------|--------|-----------------|
| Model | ØA1 | ØA2 | A1 | A2 | Ød | L5 | L6 | H | B | Sm | A x A |
| 350VTA | / | / | 36.61 | 870 | 1.18 | 62.99 | 24.80 | 10.24 | 14.96 | 23.62 | 26.77 X 26.77 |
| 500VTA | / | / | 48.43 | 1160 | 1.30 | 62.99 | 34.65 | 13.78 | 21.26 | 35.43 | 39.37 X 39.37 |
| 700VTA | 59.06 | 55.12 | / | / | 1.42 | 62.99 | 78.74 | 27.56 | 31.50 | 47.24 | 70.87 X 70.87 |
| 900VTA | 70.87 | 66.93 | / | / | 1.42 | 62.99 | 78.74 | 35.43 | 39.37 | 62.99 | 86.61 X 86.61 |
| 1000VTA | 76.77 | 72.83 | / | / | 1.65 | 62.99 | 78.74 | 39.37 | 43.31 | 70.87 | 94.49 X 94.49 |
| 1250VTA | 88.58 | 84.65 | / | / | 1.65 | 62.99 | 78.74 | 49.21 | 49.21 | 86.61 | 102.36 X 102.36 |
| 1400VTA | 100.39 | 96.46 | / | / | 1.65 | 62.99 | 78.74 | 55.12 | 55.12 | 102.36 | 118.11 X 118.11 |
| 1700VTA | 125.98 | 122.05 | / | / | 1.81 | 62.99 | 78.74 | 66.93 | 66.93 | 118.11 | 137.80 X 137.80 |

| ✓ | measures (mm) | | | | | | | | | | |
|---------|---------------|------|------|------|----|------|------|------|------|------|-----------|
| Model | ØA1 | ØA2 | A1 | A2 | Ød | L5 | L6 | H | B | Sm | A x A |
| 350VTA | / | / | 930 | 870 | 30 | 1600 | 630 | 260 | 380 | 600 | 680X680 |
| 500VTA | / | / | 1230 | 1160 | 33 | 1600 | 880 | 350 | 540 | 900 | 1000x1000 |
| 700VTA | 1500 | 1400 | 1 | 1 | 36 | 1600 | 2000 | 700 | BOO | 1200 | 1800X1800 |
| 900VTA | 1800 | 1700 | 1 | 1 | 36 | 1600 | 2000 | 900 | 1000 | 1600 | 2200X2200 |
| 1000VTA | 1950 | 1850 | 1 | 1 | 42 | 1600 | 2000 | 1000 | 1100 | 1800 | 2400X2400 |
| 1250VTA | 2250 | 2150 | 1 | 1 | 42 | 1600 | 2000 | 1250 | 1250 | 2200 | 2600X2600 |
| 1400VTA | 2550 | 2450 | 1 | 1 | 42 | 1600 | 2000 | 1400 | 1400 | 2600 | 3000X3000 |
| 1700VTA | 3200 | 3100 | 1 | 1 | 46 | 1600 | 2000 | 1700 | 1700 | 3000 | 3500X3500 |

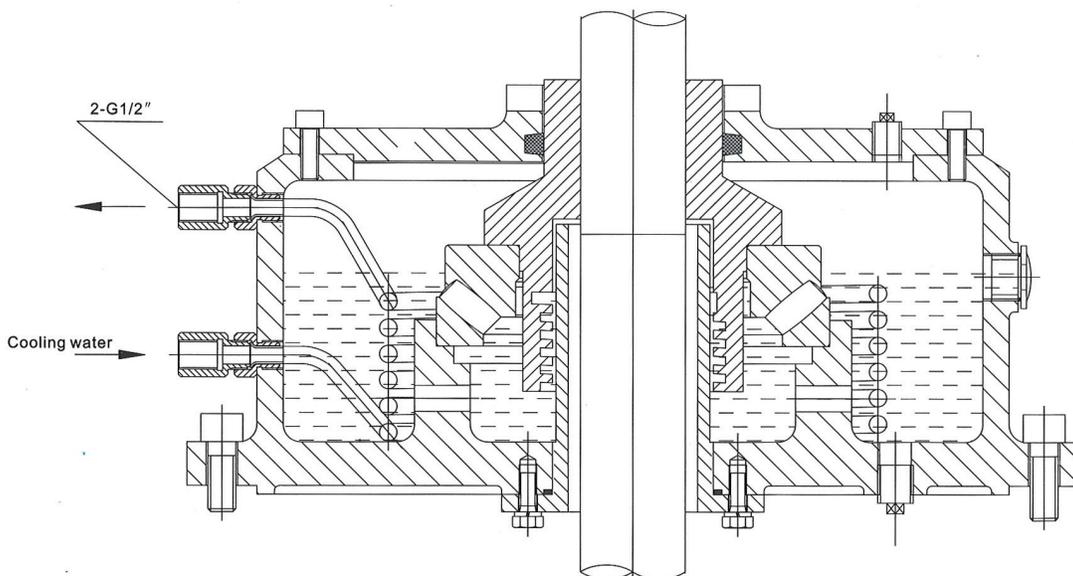
● Oil Lubricated Thrust Bearing Assembling Sets

When the VTP designed driven by VSS motor, the pump's thrust will be loaded by the thrust bearing on the top of the pump or loaded by the top thrust bearing of the VSS motor.

FloFab can supply two kinds of different thrust bearing assembly sets as following, design for the pumps with lower and higher thrust.



Standard thrust bearing assembly set



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