



# AN PUMP MACHINERY

Energy-saving Pump Manufacturer

SHIJIAZHUANG AN PUMP MACHINERY CO., LTD

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# Company Profile

Shijiazhuang An Pump Machinery Co., Ltd is a professional manufacturer of slurry pumps, sewage pumps, clean water pumps, chemical pumps, fire pumps, irrigation pumps; An Pump Machinery company has there own Kingda type selection & design, research and development team.Assure to provide our efficient energy-saving design, use and maintenance solutions for the slurry pumps, sewage pump, water pump, chemical pumps, fire pumps, irrigation pumps.

An Pump Machinery manufactured slurry pumps, sewage pump, water pump, chemical pumps, fire pumps, irrigation pumps and other products are exported to over 90 countries around the world. The application covers many fields, such as dressing ship, tailings transportation, mining pumps, steel & power desulphurization, boiler feed water, construction, irrigation, water conservancy facilities, sewage treatment.

Kingda experienced technical personnel is the powerful guarantee for quality products of slurry pumps, sewage pump, water pump, chemical pumps, fire pumps, irrigation pumps. An Pump Machinery technical team set up five R & D teams: hydraulic engineering, water pump structure, new materials research and development, casting, molding etc. Except the commonly used CAD and other design software, the An Pump Machinery technical teams also use CAPP computer-aided industrial design and CFD hydraulic design software.They combine years of experience in the practical application of the products, repeated use of water conservancy GIS, MIS software and simulation analysis system software demonstrated, calculations,the theoretical calculations product of slurry pumps, sewage pump, water pump, chemical pumps, fire pumps, irrigation pumps are accurate and consistent with the actual performance. It allowing users to meet the needs while significantly reducing the investment costs, improves An Pump Machinery Company's strong core competitiveness.

So far , our products had exported to Pakistan, Russia,Africa, Malaysia, Israel, India, North America , Australia etc. Our high quality products and service are highly accepted by our clients home and abroad.

In the era of rapid development of science and technology, An Pump Machinery team takes the entrepreneurial spirit "excellence and constant product quality, brand known worldwide". business purpose "the achievements of create brand enterprise and industry pioneer", to help you out and provide quality & cheap innovative products, with corporate philosophy of Kinda technical specialists and sophisticated equipment as backup, and work together with you to create brilliant!

石家庄安泵机械有限公司



## WHY An Pump?

- An Pump Machinery have sophisticated production equipment of slurry pump, sewage pump, water pump, chemical pump, fire pump, irrigation pump etc.
- **Casting workshop:** Computer simulation molding and product application; precision casting aluminum mold; resin sand, coated sand casting technology. Three sets of casting medium frequency furnaces make a batch of clean, smooth casting products.
- **Casting technology advantages:** 8 casting Engineers with more than 15 years experience, 28 operating technicians with more than 10 years experience .
- **Heat treatment workshop:** 4 sets of fully automatic curve heat treatment furnace, controlled by computer, appropriately adjust heat treatment process.
- **Machining center:** CNC vertical lathe, CNC wire-cut machine, CNC boring and milling machine, CNC grinding machines and other production line equipment constitute machining CNC centers, Processing precision of products fully meet the requirements.
- **Machining technology advantages:** 15 Mechanical Engineers with more than 13 years experience, 32 operating technicians with more than 8 years working experience.
- **Assembly workshop:** a variety of sophisticated assembly equipment and 4 operating technicians with 20 years working age and 11 operating technicians with more than 8 years working age,These experienced technicians assemble a batch of high precision and high stability of pump equipment.
- **Detection proofread:** Using advanced detection equipment for the pump signal acquisition, digital filtering and calibration to ensure data accuracy and ensure highly consistent of three-dimensional animation simulation with the actual product.
- **Laboratory testing:** bearing vibration analyzer, carbon and sulfur analyzer, universal testing machine, optical scales, spectrometers, liquid analyzers and other equipment constitute laboratory testing center, testing links control the material, material ratio, product hardness and processing precision practically and effectively. These advanced manufacturing and testing equipment ensure the product quality with high precision and material stability of slurry pump, sewage pump, water pump, chemical pump, fire pump,irrigation pump. It is a powerful guarantee of quality and appearance of pumps and parts.
- **Quality Commitment:** We pledge every order of An Pump Machinery with a detailed quality assurance, for your unworried, secure and relieved for using our products. We will do best to win your trust to An Pump!

## Qualifications





# AN PUMP MACHINERY

## AM SERIES SLURRY PUMP



### APPLICATIONS



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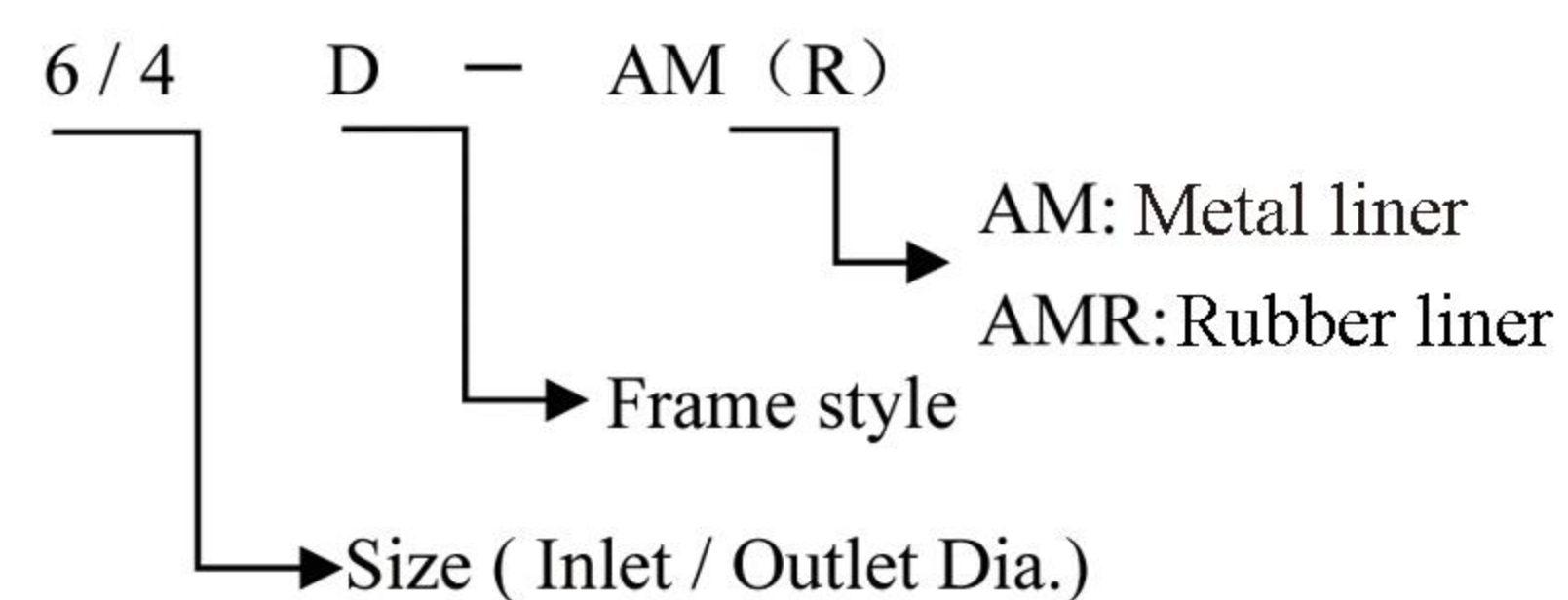


## FEATURES / BENEFITS

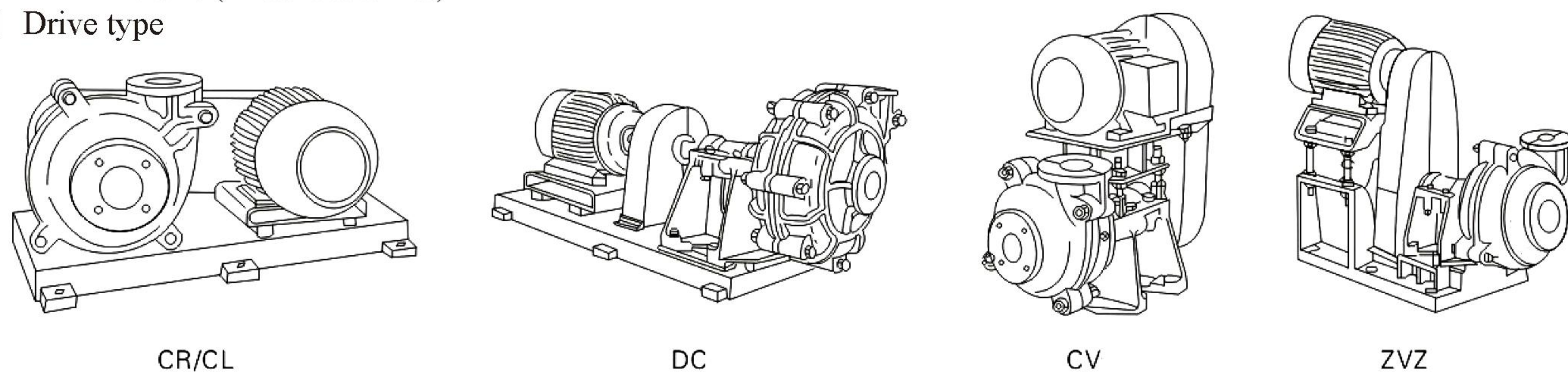
- Heavy duty slurry pumps applicable for a range of mill duties, from dirty water to the most difficult water flushed crusher services.
- The AM slurry pump is the world's standard for the most difficult mill duties. A wide variety of impellers and shaft seals provide a perfect fit for a wide range of applications. The AM pump provides excellent wear life while maintaining efficiency during the wear cycle providing the best total operating cost.
- The AM pump, together with the AZ series pump, provides a complete selection for most all duties in the mill. From cyclone feed to regrind, flotation and tailing, the An Pump slurry pump is the best choice.



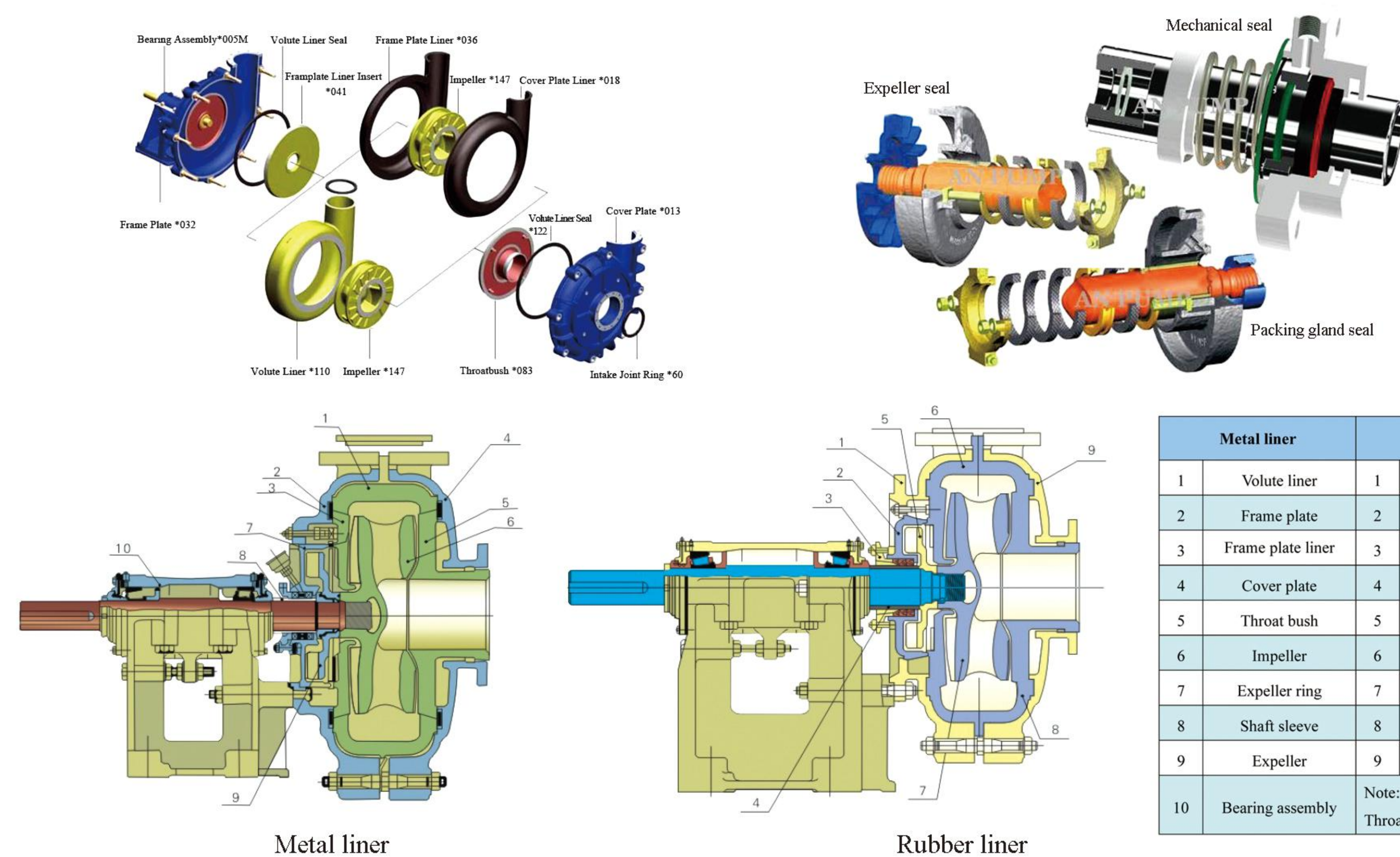
### Model meaning



### Drive type

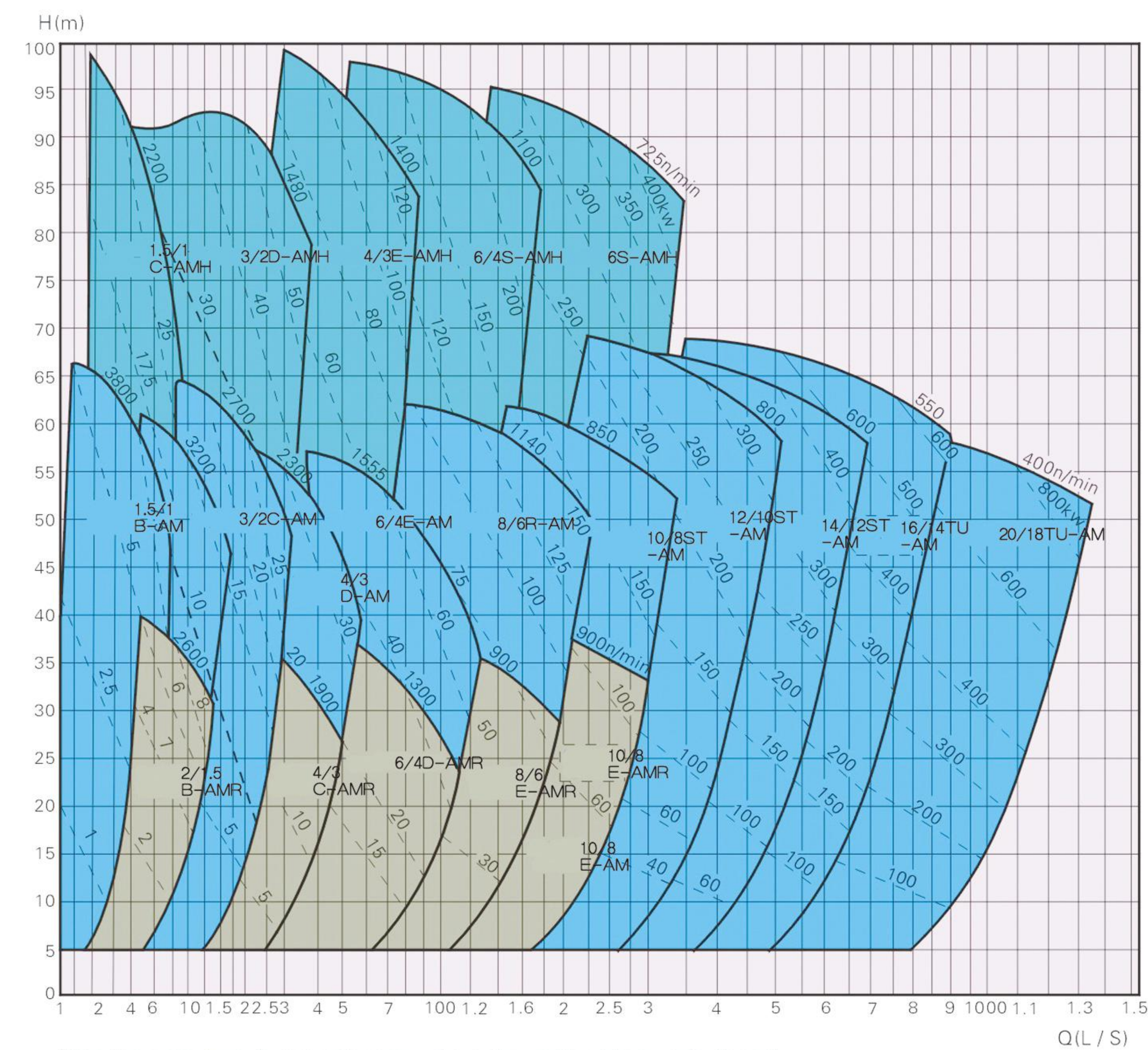


## CONSTRUCTION DESIGN

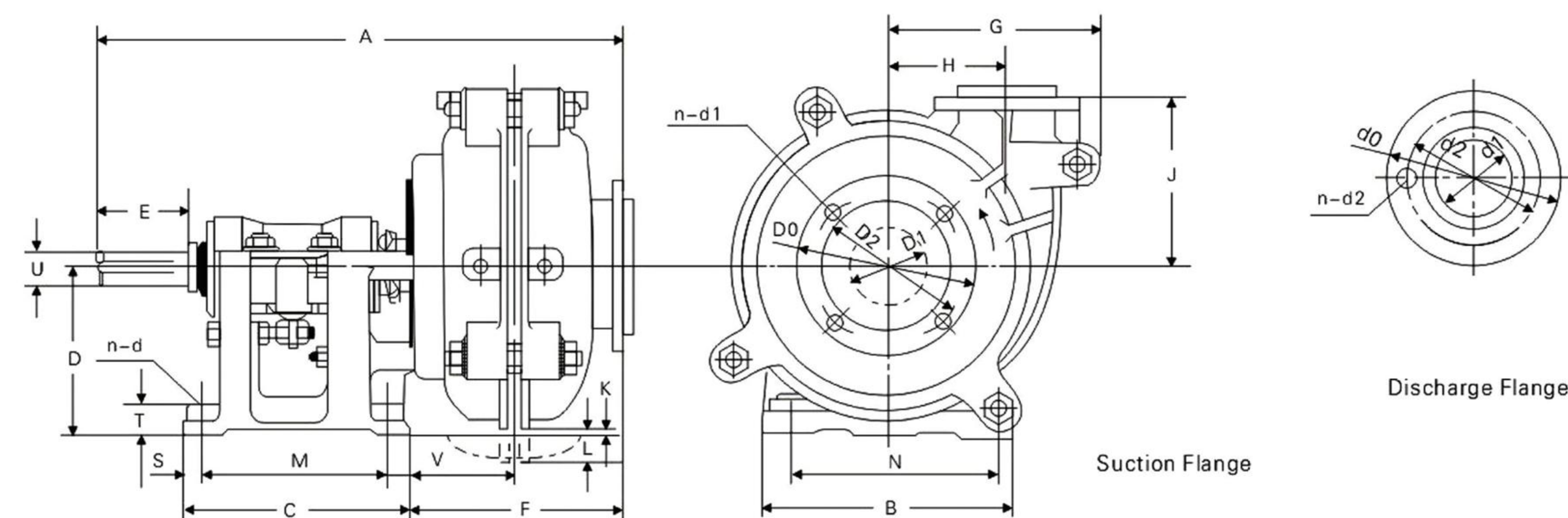


| Metal liner |                   | Rubber liner                                |                   |
|-------------|-------------------|---------------------------------------------|-------------------|
| 1           | Volute liner      | 1                                           | Frame plate       |
| 2           | Frame plate       | 2                                           | Expeller ring     |
| 3           | Frame plate liner | 3                                           | Gland assembly    |
| 4           | Cover plate       | 4                                           | Shaft sleeve      |
| 5           | Throat bush       | 5                                           | Expeller          |
| 6           | Impeller          | 6                                           | Frame plate liner |
| 7           | Expeller ring     | 7                                           | Impeller          |
| 8           | Shaft sleeve      | 8                                           | Cover plate liner |
| 9           | Expeller          | 9                                           | Cover plate       |
| 10          | Bearing assembly  | Note: Slurry pumps have Throat Bush from 4" |                   |

## PERFORMANCE CHART



## SLURRY PUMP DIMENSIONS



Unit: mm

| Model      | A    | B    | C   | D   | U   | E   | F   | G    | H   | J   | K   | L  | M   | N   | V   | T   | S  | n-d   | Suction Flange |     |     |        | Discharge Flange |     |     |        | Weight kg |      |
|------------|------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|----|-----|-----|-----|-----|----|-------|----------------|-----|-----|--------|------------------|-----|-----|--------|-----------|------|
|            |      |      |     |     |     |     |     |      |     |     |     |    |     |     |     |     |    |       | D0             | D1  | D2  | n-d1   | d0               | d1  | d2  | n-d2   | M         | RU   |
| 1.5/1B-AM  | 583  | 295  | 248 | 197 | 28  | 79  | 206 | 181  | 98  | 171 | 46  | —  | 143 | 254 | 181 | 38  | 24 | 4-Φ14 | 152            | 38  | 114 | 4-Φ16  | 165              | 25  | 127 | 4-Φ16  | 91        | 77   |
| 1.5/1C-AMH | 759  | 406  | 311 | 254 | 42  | 121 | 306 | 270  | 194 | 254 | —   | 11 | 175 | 356 | 252 | 48  | 32 | 4-Φ19 | 152            | 38  | 114 | 4-Φ17  | 152              | 25  | 114 | 4-Φ17  | 318       | —    |
| 2/1.5B-AM  | 592  | 295  | 248 | 197 | 28  | 79  | 217 | 205  | 114 | 184 | 33  | —  | 143 | 254 | 184 | 38  | 24 | 4-Φ14 | 184            | 51  | 146 | 4-Φ19  | 165              | 38  | 127 | 4-Φ19  | 104       | 88   |
| 3/2C-AM    | 768  | 364  | 311 | 254 | 42  | 121 | 281 | 238  | 138 | 210 | 71  | —  | 175 | 356 | 233 | 48  | 32 | 4-Φ19 | 216            | 76  | 178 | 4-Φ19  | 184              | 51  | 146 | 4-Φ19  | 191       | 154  |
| 3/2D-AMH   | 986  | 311  | 364 | 330 | 65  | 164 | 389 | 384  | 254 | 368 | —   | 51 | 213 | 432 | 298 | 64  | 38 | 4-Φ22 | 216            | 76  | 178 | 8-Φ19  | 203              | 51  | 165 | 4-Φ19  | 750       | —    |
| 4/3C-AM    | 84   | 406  | 211 | 254 | 42  | 121 | 354 | 292  | 149 | 262 | 24  | —  | 175 | 356 | 270 | 48  | 32 | 4-Φ19 | 279            | 102 | 235 | 4-Φ22  | 229              | 76  | 191 | 4-Φ22  | 263       | 236  |
| 4/3D-AM    | 943  | 492  | 364 | 330 | 65  | 164 | 353 | 292  | 149 | 262 | 100 | —  | 213 | 432 | 279 | 64  | 38 | 4-Φ22 | 279            | 102 | 235 | 4-Φ22  | 229              | 76  | 191 | 4-Φ22  | 363       | 290  |
| 4/3E-AMH   | 1240 | 622  | 448 | 457 | 80  | 222 | 492 | 492  | 330 | 432 | —   | —  | 257 | 546 | 381 | 76  | 54 | 4-Φ29 | 254            | 102 | 210 | 8-Φ19  | 254              | 76  | 210 | 8-Φ19  | 1250      | —    |
| 6/4D-AM    | 1021 | 492  | 364 | 330 | 65  | 164 | 421 | 406  | 229 | 338 | 11  | —  | 213 | 432 | 318 | 64  | 38 | 4-Φ22 | 337            | 152 | 292 | 4-Φ22  | 279              | 102 | 235 | 4-Φ22  | 626       | 454  |
| 6/4E-AM    | 1178 | 622  | 448 | 457 | 80  | 222 | 433 | 406  | 229 | 338 | 138 | —  | 257 | 546 | 351 | 76  | 54 | 4-Φ29 | 337            | 152 | 292 | 4-Φ22  | 279              | 102 | 235 | 4-Φ22  | 728       | 635  |
| 6/4F-AM    | 1556 | 857  | 635 | 610 | 108 | 279 | 584 | 616  | 413 | 546 | —   | —  | 349 | 762 | 280 | 98  | 95 | 4-Φ35 | 337            | 152 | 292 | 8-Φ22  | 305              | 102 | 260 | 8-Φ22  | 2529      | —    |
| 8/6E-AM    | 1302 | 622  | 448 | 457 | 80  | 222 | 557 | 551  | 318 | 460 | —   | 62 | 257 | 546 | 402 | 76  | 54 | 4-Φ29 | 406            | 203 | 356 | 8-Φ22  | 368              | 152 | 324 | 8-Φ21  | 1473      | 982  |
| 10/8E-AM   | 1337 | 622  | 448 | 457 | 80  | 222 | 584 | 613  | 381 | 470 | —   | 83 | 257 | 546 | 403 | 76  | 54 | 4-Φ29 | 502            | 254 | 445 | 8-Φ29  | 432              | 203 | 375 | 8-Φ29  | 1625      | 1202 |
| 10/8F-AM   | 1635 | 990  | 635 | 610 | 100 | 279 | 584 | 673  | 419 | 635 | —   | —  | 349 | 762 | 280 | 98  | 95 | 4-Φ35 | 502            | 254 | 445 | 8-Φ29  | 432              | 203 | 375 | 8-Φ29  | 3750      | 3130 |
| 12/10F-AM  | 1725 | 990  | 635 | 610 | 100 | 279 | 584 | 755  | 464 | 674 | —   | —  | 349 | 762 | 280 | 98  | 95 | 4-Φ35 | 527            | 305 | 470 | 12-Φ25 | 527              | 254 | 470 | 12-Φ25 | 4318      | 3357 |
| 14/12F-AM  | 1755 | 990  | 635 | 610 | 100 | 279 | 584 | 937  | 629 | 832 | —   | —  | 349 | 762 | 280 | 98  | 95 | 4-Φ35 | 585            | 356 | 521 | 12-Φ25 | 552              | 305 | 495 | 12-Φ25 | 6409      | 4672 |
| 16/14G-AM  | 2180 | 1208 | 876 | 850 | 140 | 356 | 953 | 1048 | 660 | 889 | —   | —  | 749 | 850 | 502 | 152 | 63 | 4-Φ41 | 705            | 406 | 641 | 12-Φ35 | 673              | 356 | 610 | 12-Φ29 | 10000     | —    |



# AN PUMP MACHINERY

## AZ SERIES SLURRY PUMP



APPLICATIONS



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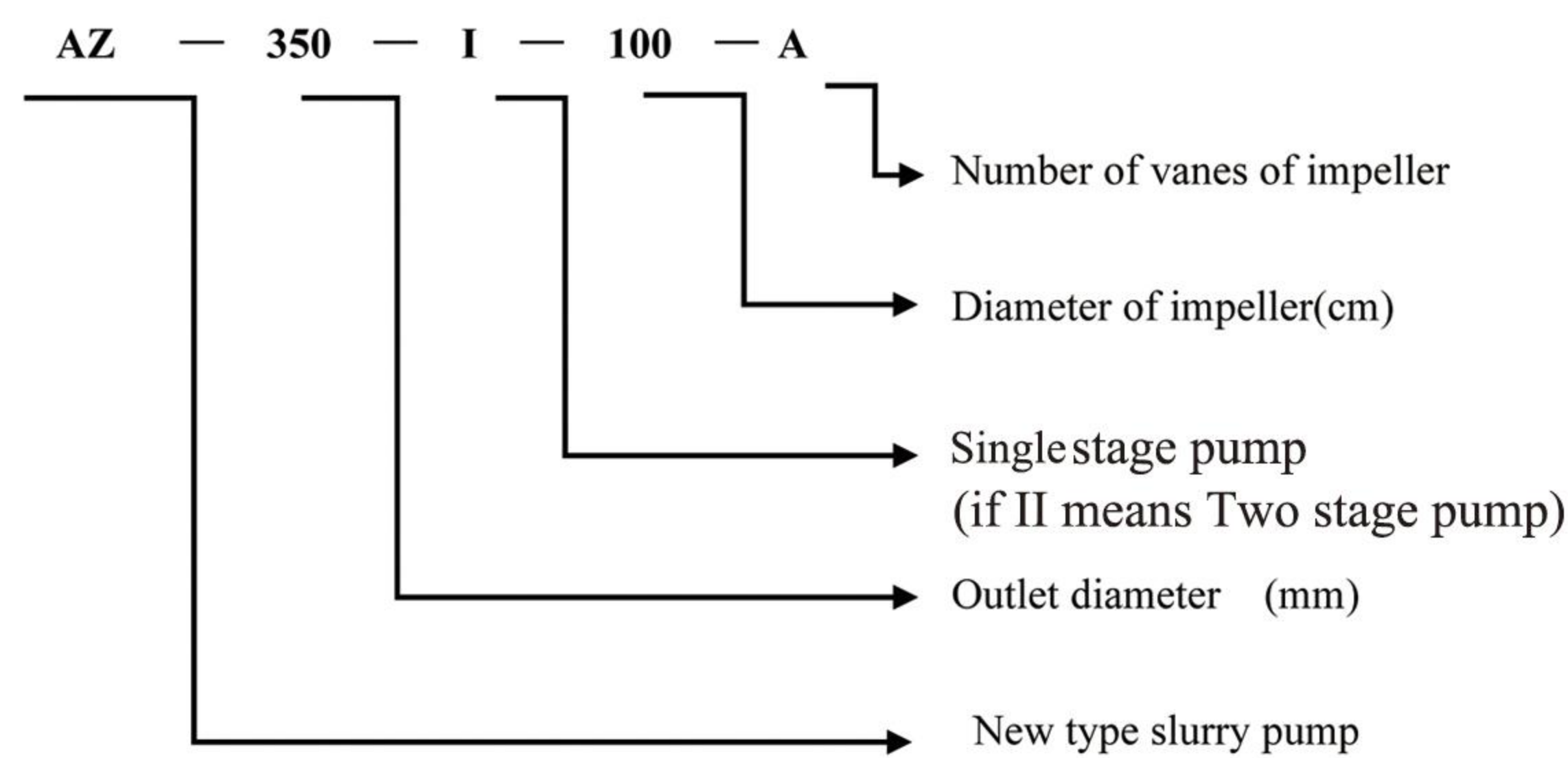
GENERAL

■ AZ series vertical slurry pump is suitable for handling slurry with abrasive and corrosive solids, which maximum weight density of 45% (ash and coal slurry) and 60% (ore and heavy slurry).

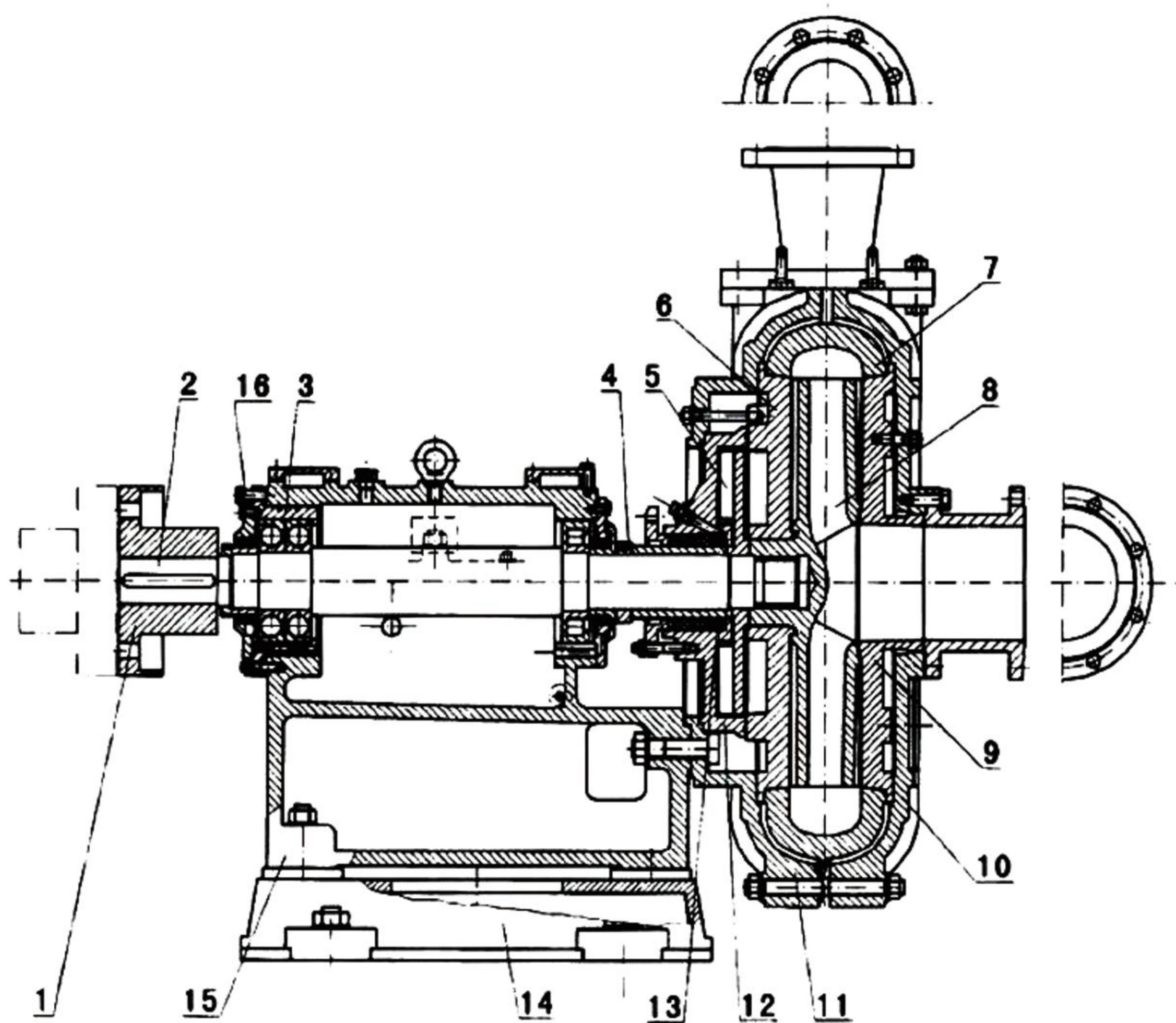
■ FEATURES / BENEFITS

- High efficiency
- Long service life
- Stable operation
- High-abrasive metal material
- High-abrasive and corrosion resisting metal materials
- Corrosion resisting metal materials

■ Model meaning



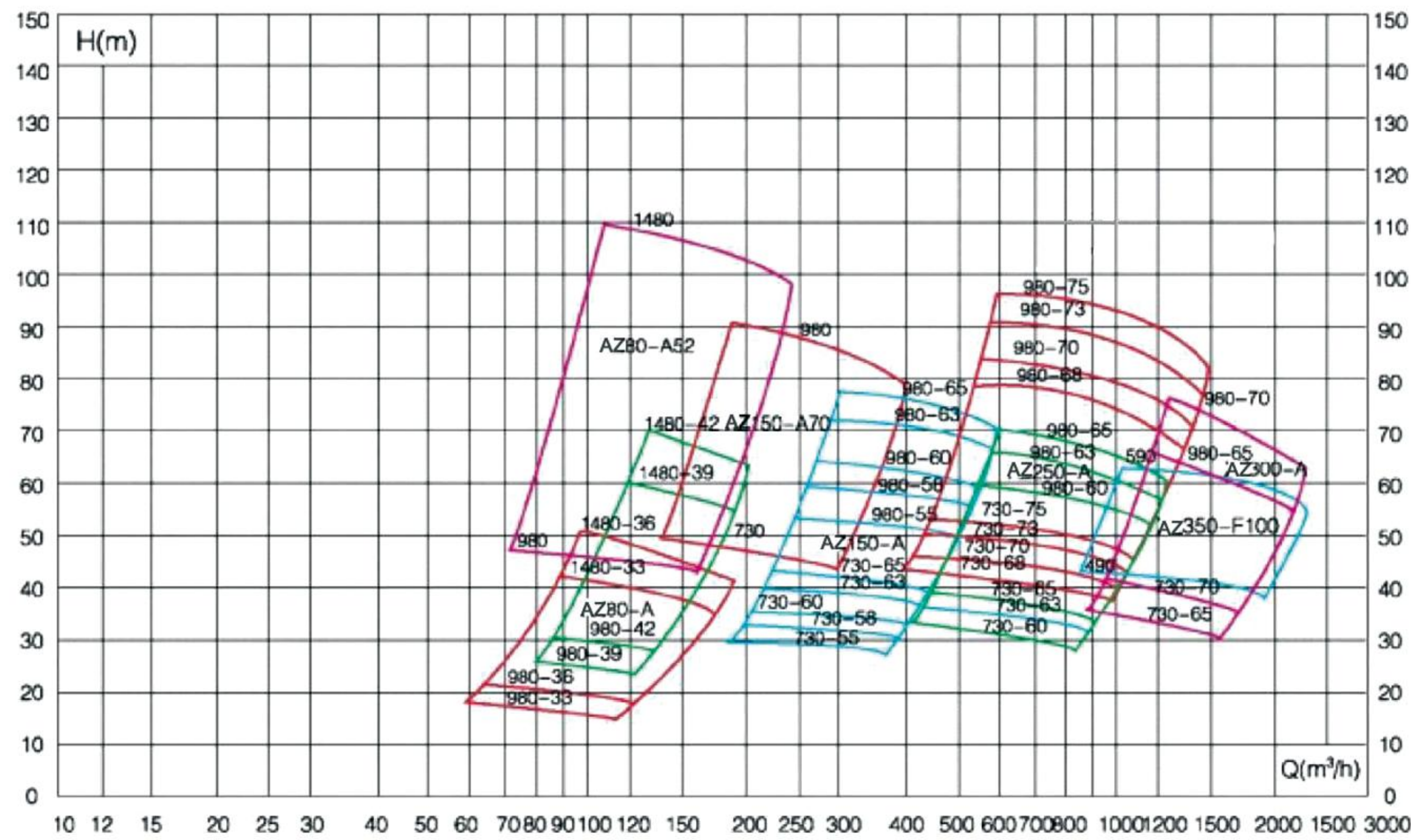
CONSTRUCTION DESIGN



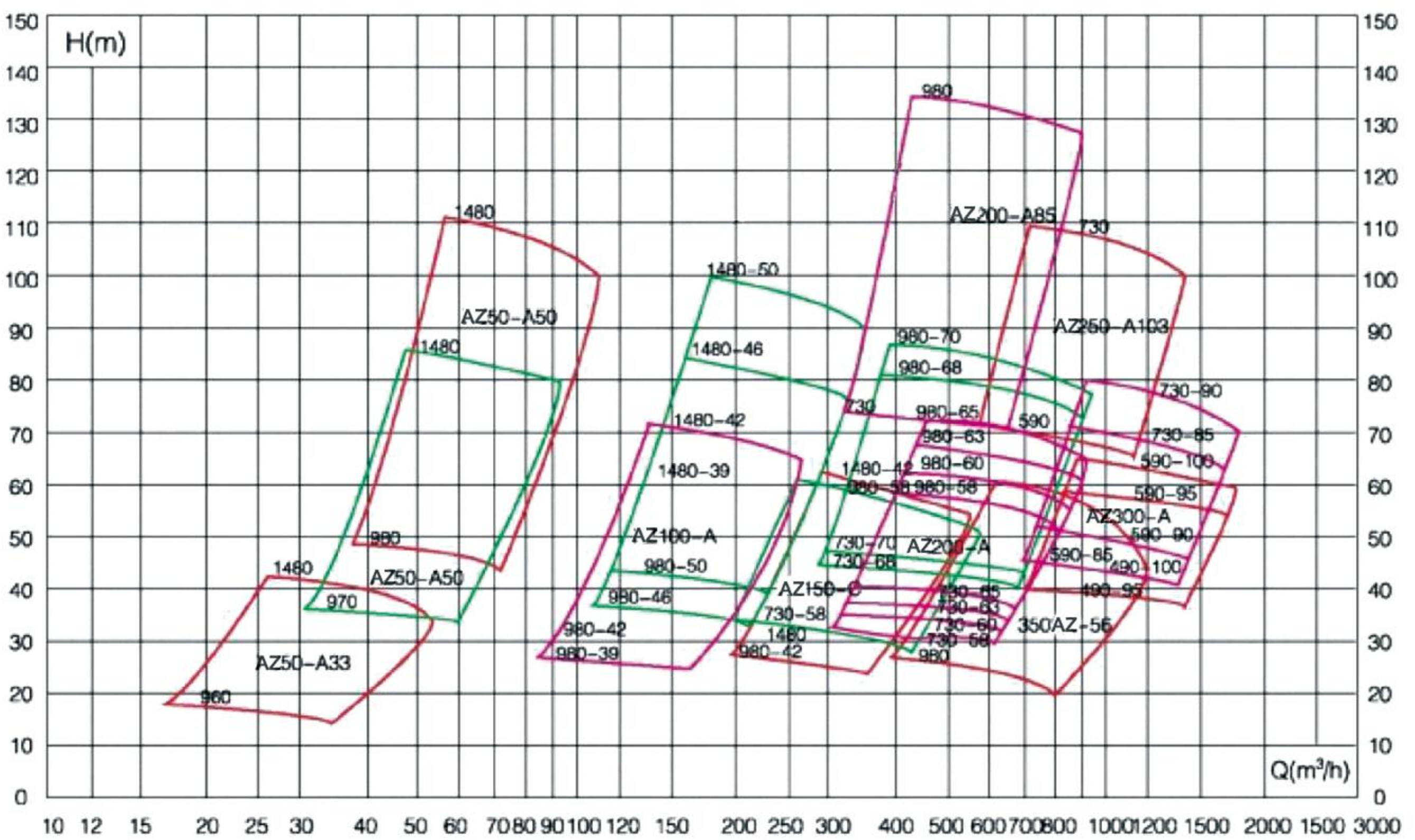
|                     |                    |                 |                    |
|---------------------|--------------------|-----------------|--------------------|
| 1 Coupling          | 2 Shaft            | 3 Bearing       | 4 Disassemble      |
| 5 Expeller          | 6 Rear liner plate | 7 Volute casing | 8 Impeller         |
| 9 Front liner plate | 10 Front casing    | 11 Rear casing  | 12 Stuffing box    |
| 13 Water-seal       | 14 Base            | 15 Support      | 16 Adjusting bolts |

PERFORMANCE CHART

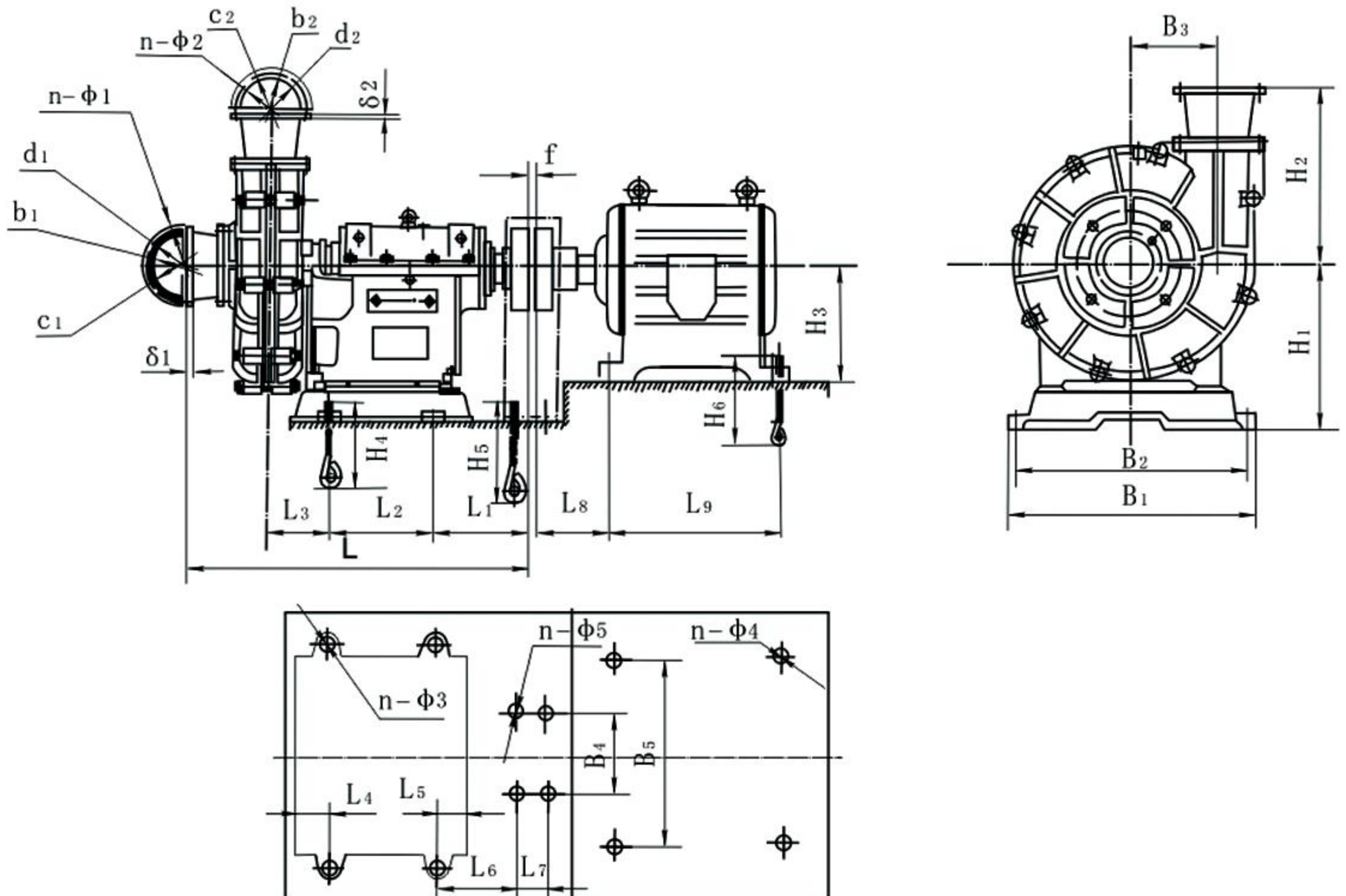
1



2



INSTALLATION DRAWING OF DIRECTLY-COUPLED AZ SERIES



| Item Type  | Motor Power (kW) | L <sub>1</sub> | L <sub>2</sub> | B <sub>1</sub> | H <sub>1</sub> | H <sub>2</sub> | n-φ4  | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | L <sub>6</sub> | B <sub>2</sub> | B <sub>3</sub> | H <sub>3</sub> | H <sub>4</sub> | H <sub>5</sub> | f      | n-φ3 | n-φ1 | h1     | h2   | n-φ5 | Pump weight (kg) |
|------------|------------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|------|------|--------|------|------|------------------|
| 350AZ-100F | 355              | 605            | 1120           | 800            | 450            | 700            | 4-φ35 | 2235           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 16-φ25 | φ350 | n-φ5 | 5465             |
|            | 500              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2335           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 16-φ25 | φ350 | n-φ5 | 5465             |
|            | 550              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2335           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 16-φ25 | φ350 | n-φ5 | 5465             |
|            | 550              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2335           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 16-φ25 | φ350 | n-φ5 | 5465             |
|            | 550              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2335           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 16-φ25 | φ350 | n-φ5 | 5465             |
| 350AZ-78   | 450              | 605            | 1120           | 800            | 450            | 700            | 4-φ35 | 1837           | 630            | 240            | 455            | 1200           | 510            | 900            | 800            | 600            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 3700             |
|            | 450              | 605            | 1120           | 800            | 450            | 700            | 4-φ35 | 1837           | 630            | 240            | 455            | 1200           | 510            | 900            | 800            | 600            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 3700             |
|            | 450              | 605            | 1120           | 800            | 450            | 700            | 4-φ35 | 1837           | 630            | 240            | 455            | 1200           | 510            | 900            | 800            | 600            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 3700             |
|            | 450              | 605            | 1120           | 800            | 450            | 700            | 4-φ35 | 1837           | 630            | 240            | 455            | 1200           | 510            | 900            | 800            | 600            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 3700             |
|            | 450              | 605            | 1120           | 800            | 450            | 700            | 4-φ35 | 1837           | 630            | 240            | 455            | 1200           | 510            | 900            | 800            | 600            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 3700             |
| 300AZ-100  | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2208           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 5265             |
|            | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2208           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 5265             |
|            | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2208           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 5265             |
|            | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2208           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 5265             |
|            | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2208           | 630            | 240            | 518            | 1100           | 673            | 1089           | 800            | 900            | 20-φ25 | φ450 | 35   | 12-φ25 | φ350 | n-φ5 | 5265             |
| 300AZ-90   | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2151           | 630            | 240            | 383            | 1200           | 500            | 900            | 800            | 600            | 16-φ25 | φ450 | 31   | 12-φ25 | φ350 | n-φ5 | 5065             |
|            | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2151           | 630            | 240            | 383            | 1200           | 500            | 900            | 800            | 600            | 16-φ25 | φ450 | 31   | 12-φ25 | φ350 | n-φ5 | 5065             |
|            | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2151           | 630            | 240            | 383            | 1200           | 500            | 900            | 800            | 600            | 16-φ25 | φ450 | 31   | 12-φ25 | φ350 | n-φ5 | 5065             |
|            | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2151           | 630            | 240            | 383            | 1200           | 500            | 900            | 800            | 600            | 16-φ25 | φ450 | 31   | 12-φ25 | φ350 | n-φ5 | 5065             |
|            | 450              | 725            | 1250           | 900            | 500            | 800            | 4-φ42 | 2151           | 630            | 240            | 383            | 1200           | 500            | 900            | 800            | 600            | 16-φ25 | φ450 | 31   | 12-φ25 | φ350 | n-φ5 | 5065             |

Note: If motors other than those as listed are used, the mounting dimensions on the part of the motor used should be accordingly modified.



# AN PUMP MACHINERY

## AMG SERIES GRAVEL SAND PUMP



### APPLICATIONS



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## GENERAL

AMG series gravel pumps are designed for continuously pumping of highly abrasive slurry that containing large particles which the AM and AZ series can not handle. The large volume inside casing make it the best choice for gravel, dredging and other applications where large particles needed to be handled.

Dredging /Cyclone Feed/ Slag Granulation/ Suction Hopper  
Dredging / Mill Discharge /Sand Reclamation

Model Meaning

12 / 10 G - A MG

12: Inlet Diameter(inch)

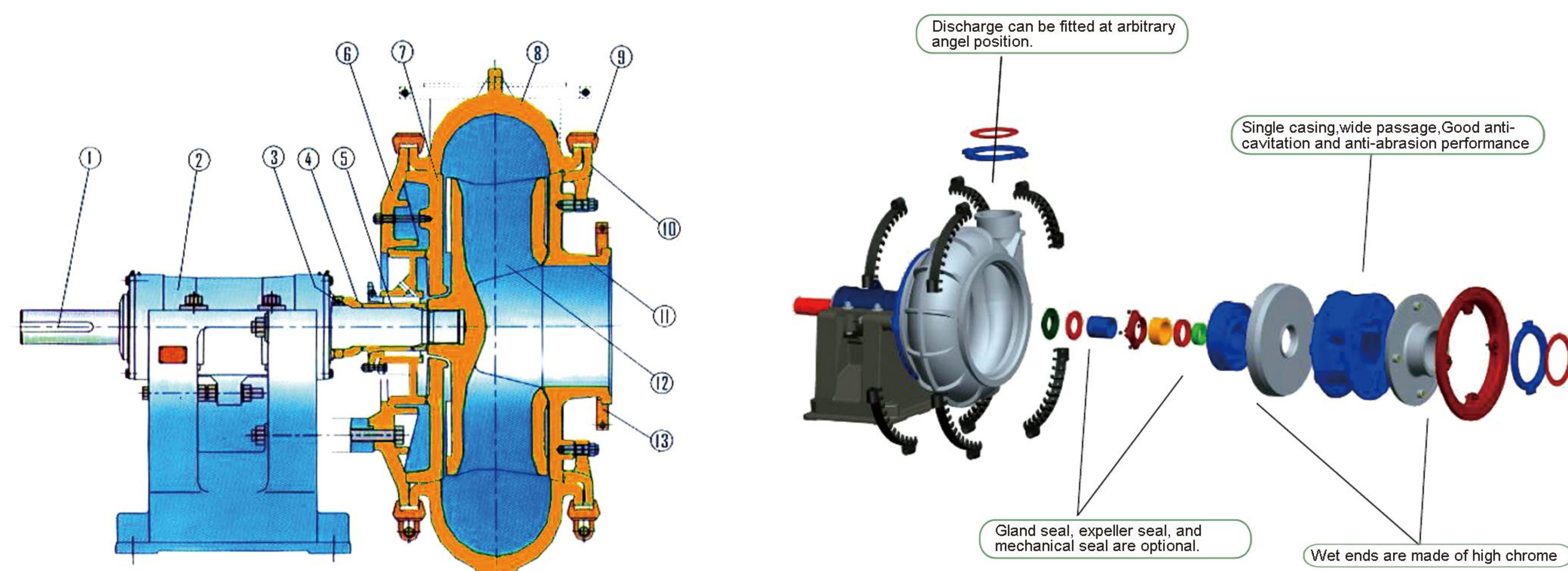
10: Outlet Diameter(inch)

G: Pump Frame Type

AMG: Gravel Pump An Pump Brand

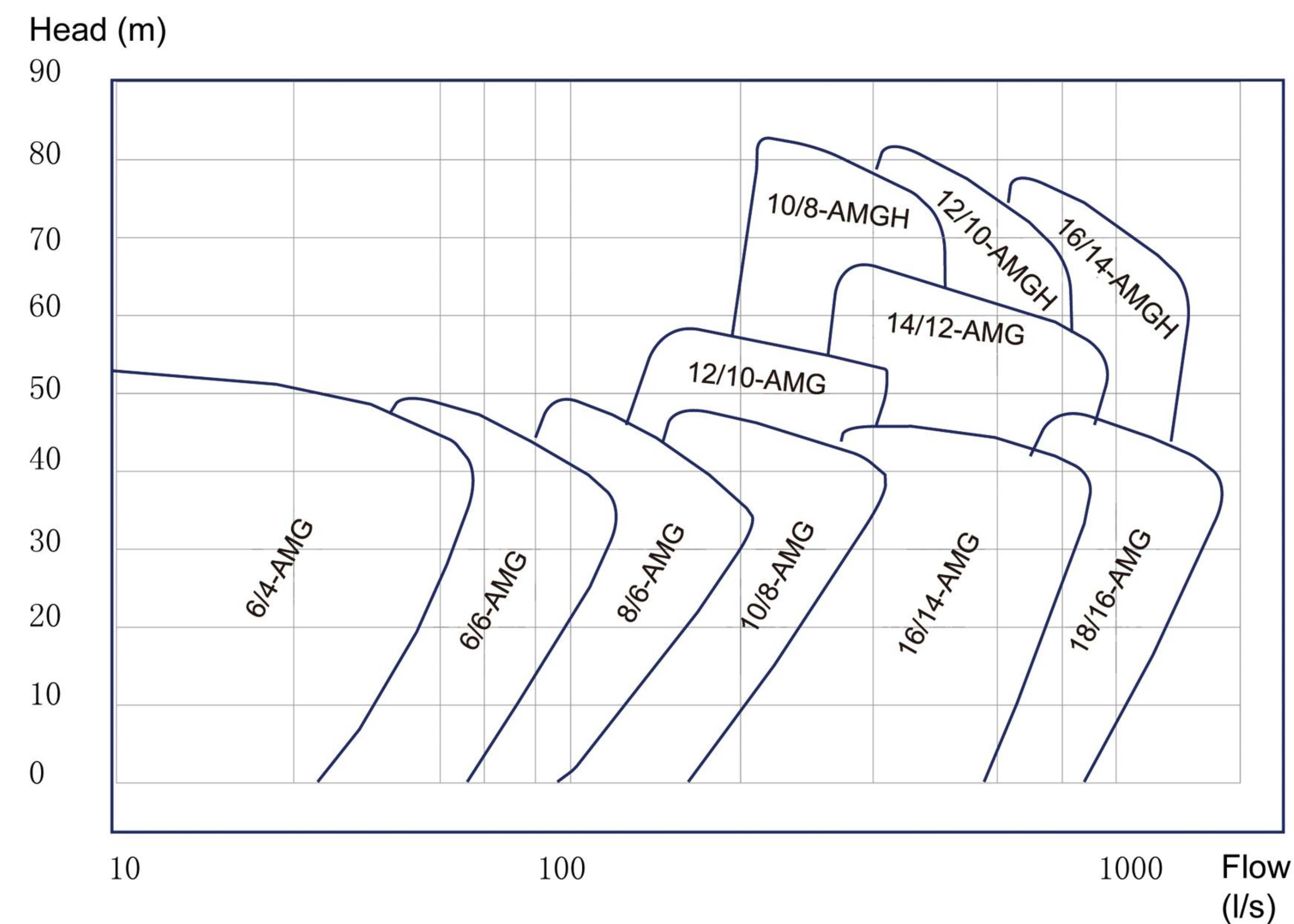


## CONSTRUCTION DESIGN

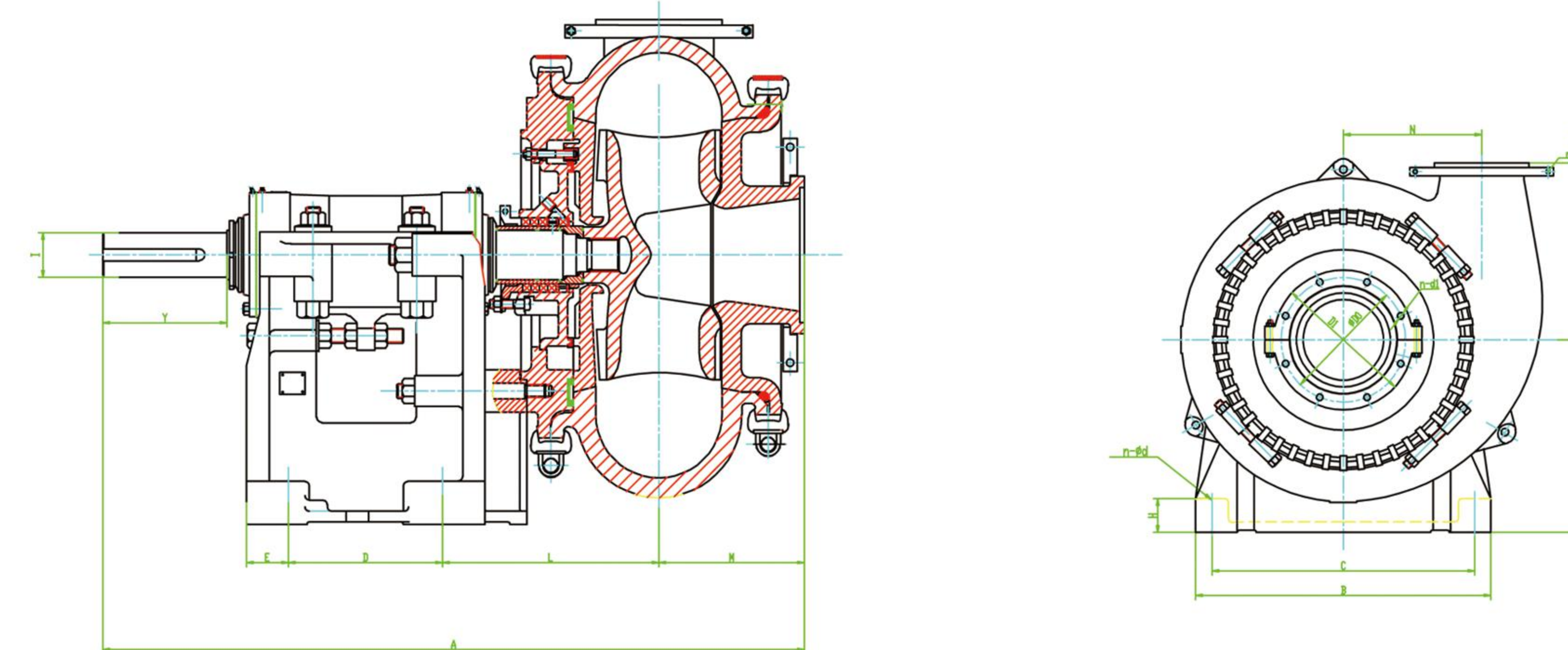


|                 |                             |                            |                             |                     |
|-----------------|-----------------------------|----------------------------|-----------------------------|---------------------|
| 1. Shaft        | 2. Bearing body             | 3. Impeller stripping ring | 4. Shaft spacer             | 5. Sealing assembly |
| 6. Bowl         | 7. Frame plate liner insert | 8. Pump casing             | 9. Adapter plate clamp ring | 10. Pump cover      |
| 11. Throat bush | 12. Impeller                | 13. Flange                 |                             |                     |

## PERFORMANCE CHART



## DIMENSIONS



| Model        | Base Dimensions |      |      |     |    |     |     |     | Bolt Holes          | Head Dimensions |     |     |     |      | Intake Flange |     |                      | Discharge Flange |     |                      | Weight (kg) |
|--------------|-----------------|------|------|-----|----|-----|-----|-----|---------------------|-----------------|-----|-----|-----|------|---------------|-----|----------------------|------------------|-----|----------------------|-------------|
|              | A               | B    | C    | D   | E  | H   | Y   | I   | n-d                 | L               | M   | N   | P   | Q    | D1            | D0  | n-d1                 | d1               | d0  | n-d2                 |             |
| 6/4D-AMG     | 1006            | 492  | 432  | 213 | 38 | 54  | 164 | 65  | 4- $\varnothing$ 22 | 330             | 203 | 260 | 330 | 343  | 305           | 260 | 8- $\varnothing$ 19  | 254              | 210 | 4- $\varnothing$ 19  | 460         |
| 8/6E-AMG     | 1286            | 622  | 546  | 257 | 54 | 75  | 222 | 80  | 4- $\varnothing$ 29 | 392             | 295 | 352 | 457 | 405  | 368           | 324 | 8- $\varnothing$ 19  | 305              | 260 | 8- $\varnothing$ 19  | 1120        |
| 10/8F-AMG    | 1591            | 857  | 762  | 349 | 45 | 98  | 281 | 100 | 4- $\varnothing$ 35 | 487             | 330 | 416 | 610 | 533  | 457           | 406 | 8- $\varnothing$ 22  | 368              | 324 | 8- $\varnothing$ 19  | 2250        |
| 10/8S-AMG    | 1720            | 920  | 760  | -   | -  | 90  | 280 | 120 | 4- $\varnothing$ 35 | 378             | 330 | 416 | 450 | 533  | 457           | 406 | 8- $\varnothing$ 22  | 368              | 324 | 8- $\varnothing$ 19  | 2285        |
| 12/10G-AMG   | 2010            | 1207 | 851  | -   | -  | 152 | 356 | 140 | 4- $\varnothing$ 41 | 476             | 368 | 522 | 851 | 665  | 527           | 470 | 8- $\varnothing$ 22  | 457              | 406 | 8- $\varnothing$ 22  | 4450        |
| 14/12G-AMG   | 2096            | 1207 | 851  | -   | -  | 152 | 356 | 140 | 4- $\varnothing$ 41 | 502             | 424 | 610 | 851 | 787  | 552           | 495 | 8- $\varnothing$ 22  | 527              | 470 | 12- $\varnothing$ 22 | 5400        |
| 10/8S-AMGH   | 1774            | 920  | 760  | -   | -  | 90  | 280 | 120 | 4- $\varnothing$ 35 | 455             | 330 | 475 | 450 | 620  | 457           | 406 | 8- $\varnothing$ 22  | 368              | 324 | 8- $\varnothing$ 19  | 3188        |
| 12/10G-AMGH  | 2062            | 1219 | 851  | -   | -  | 152 | 356 | 140 | 4- $\varnothing$ 41 | 496             | 400 | 605 | 851 | 800  | 533           | 476 | 8- $\varnothing$ 29  | 483              | 432 | 8- $\varnothing$ 25  | 4638        |
| 16/14TU-AMGH | 2367            | 1460 | 1200 | -   | -  | 150 | 350 | 150 | 4- $\varnothing$ 79 | 649             | 448 | 765 | 900 | 1008 | 650           | 600 | 12- $\varnothing$ 28 | 600              | 540 | 12- $\varnothing$ 28 | 12247       |



# AN PUMP MACHINERY

## DT SERIES DESULFURIZATION PUMP



### APPLICATIONS



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## PRODUCT INTRODUCTION

- DT series large desulfurization circulating pump ( DN $\geq$ 300 mm ) is axial suction, single stage, single suction and suspending frame centrifugal structure.
  - In hydraulic & structure design, and material, the pump integrated application of advantages of domestic and overseas then add innovation, to keep high efficiency, energy-save, anti wear & corrosion, weak vibration, less noise, stable operation, long life, easy maintenance etc.
  - The comprehensive performance is in the leading level. It widely used in thermal power, aluminum smelting and refining industries of desulfurization system transmission of limestone and gypsum slurry. Slurry chlorine content is up to 60000 ppm, slurry PH value is allowed between 2.5-13, temperature  $\leq 65^{\circ}\text{C}$ , weight density up to 60% .
  - Desulfurization pump is single case(volute) structure.  
Impeller and shaft adopt screw connection.  
Shaft seal adopt mechanical seal.  
Frame part adopt thin oil lubrication model.  
The wet end parts are including impeller, volute, frame plate liner insert, inlet short pipe use the metal developed by us of high chromium alloy material which could resist abrasion and corrosion.
- 



## ■ Pump model and meaning

600 DT — A 82 (80)

Diameter of cutting impeller (cm)

Diameter of impeller nominal (cm)

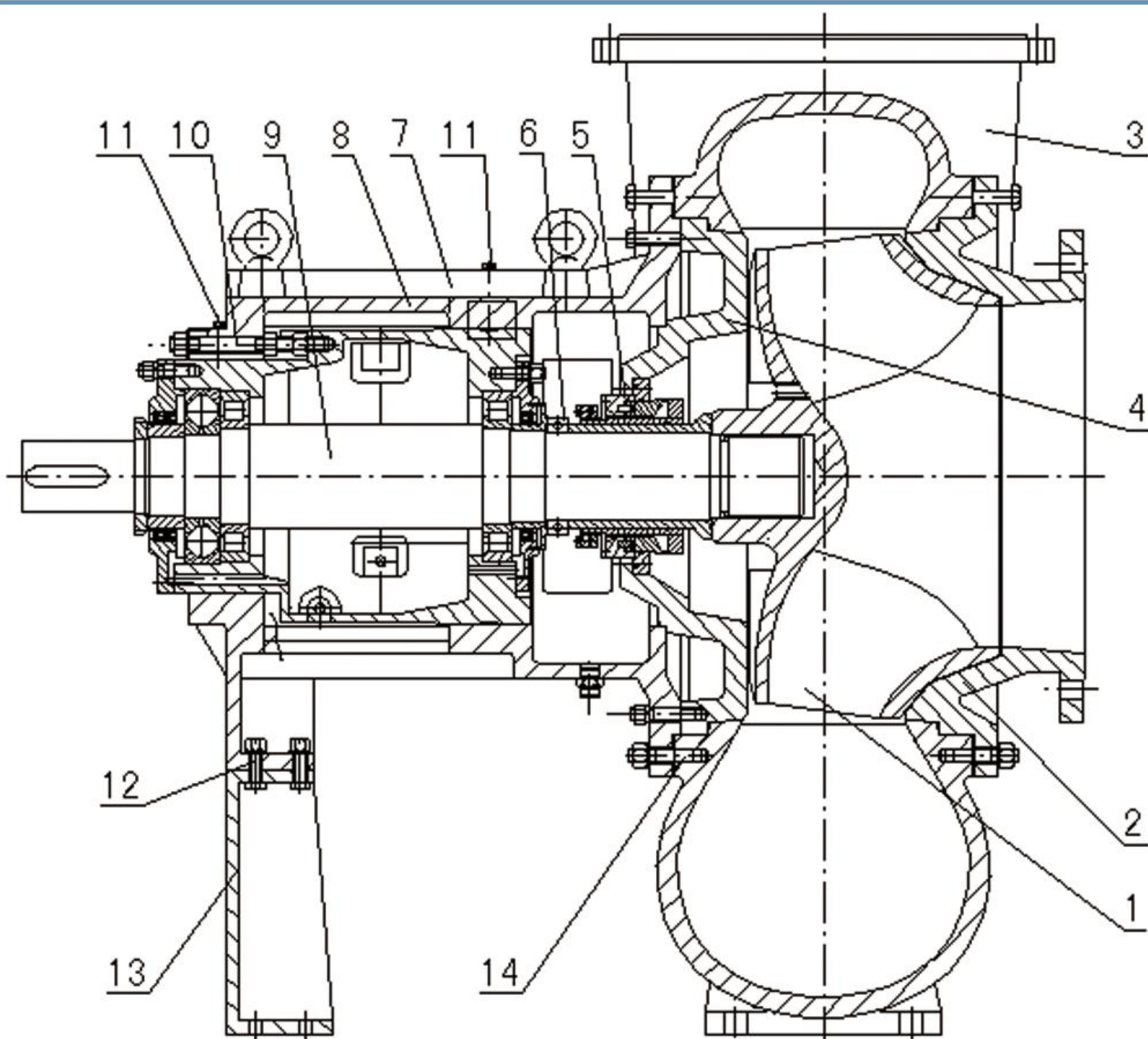
The number of impeller blades .( A: 5 pcs , B: 4 pcs , C: 3 pcs , D: 2 pcs , E: 1 pcs , F: 6 pcs , G:7 pcs ...)

Horizontal desulfurization circulation pump

Diameter of pump discharge

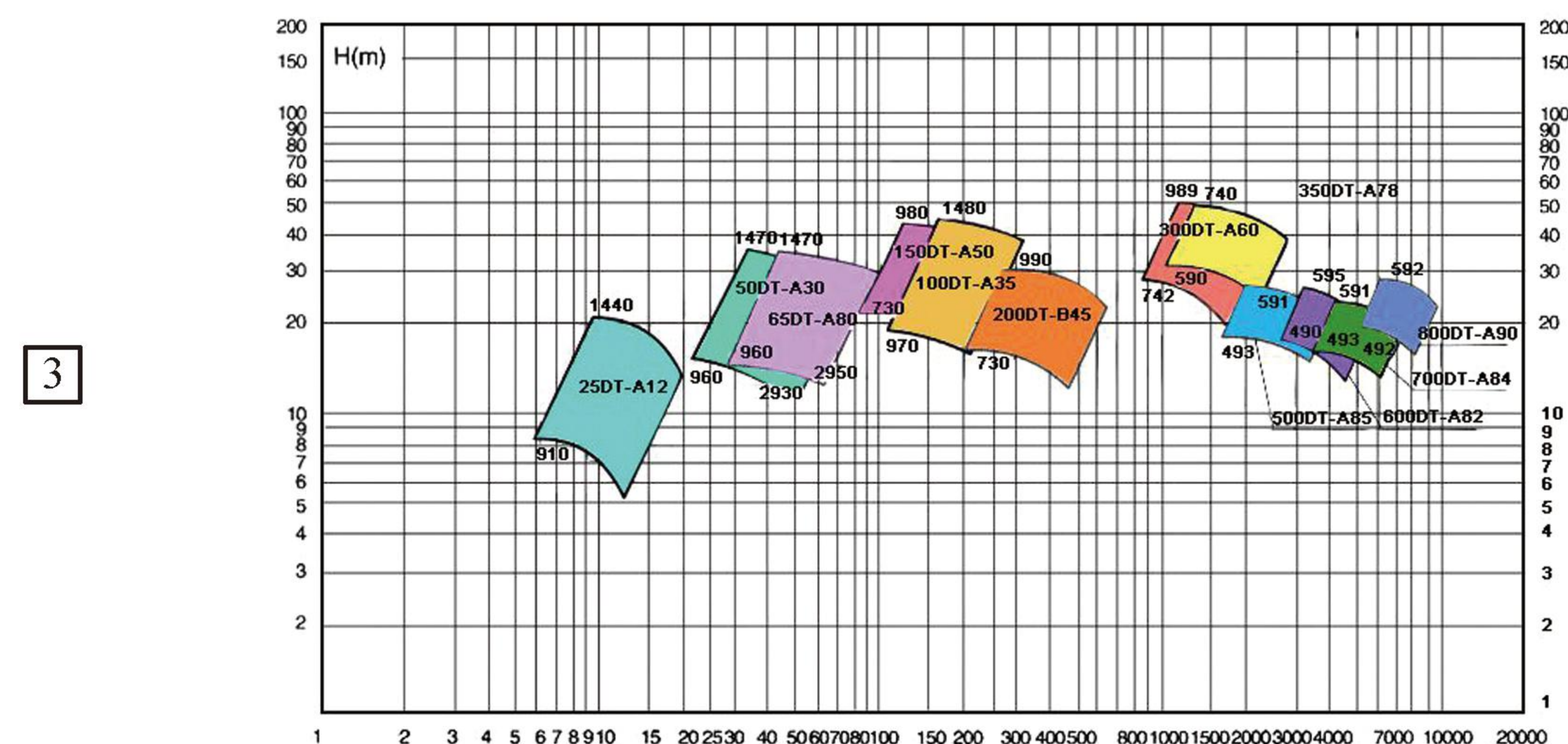
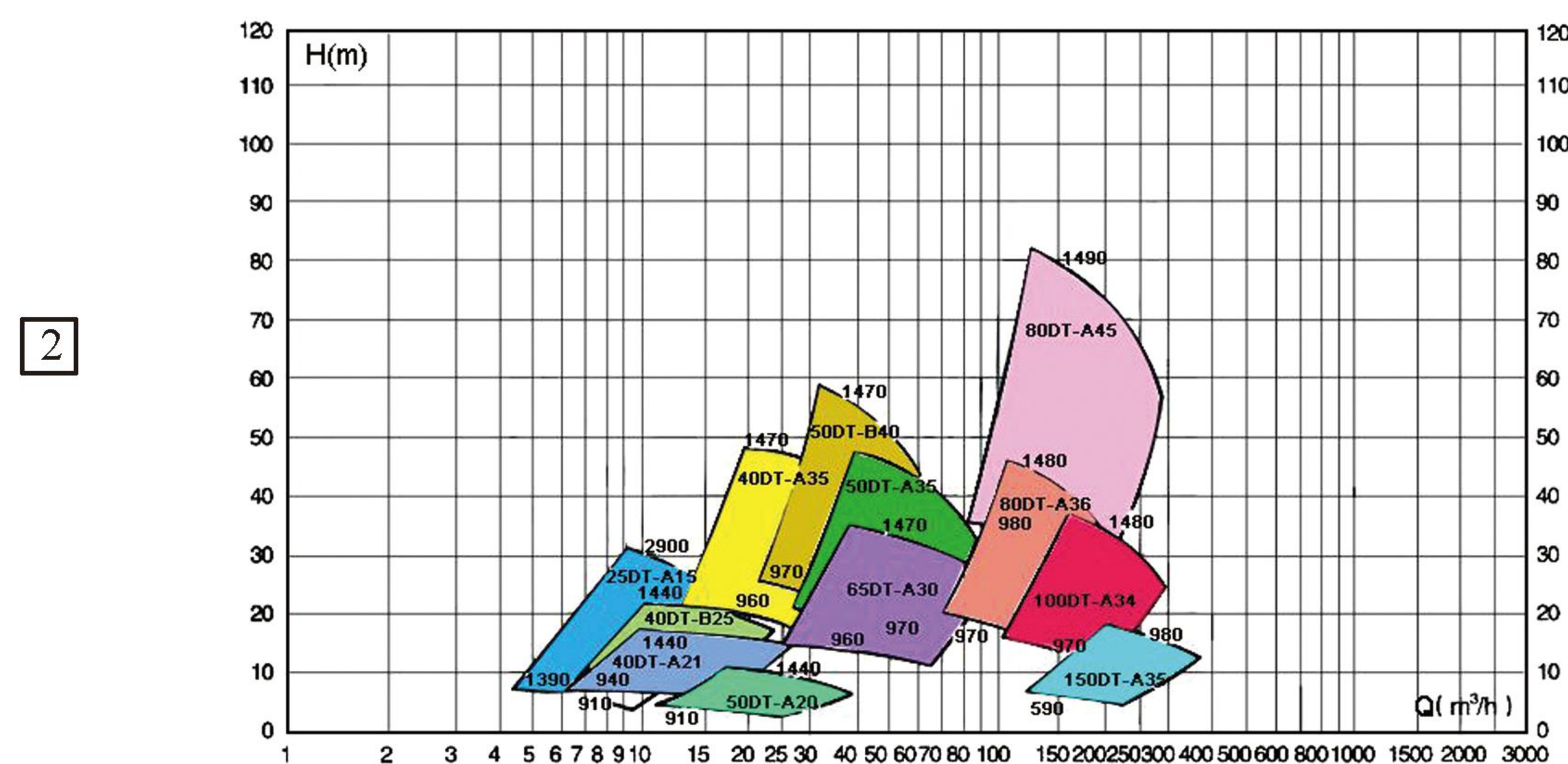
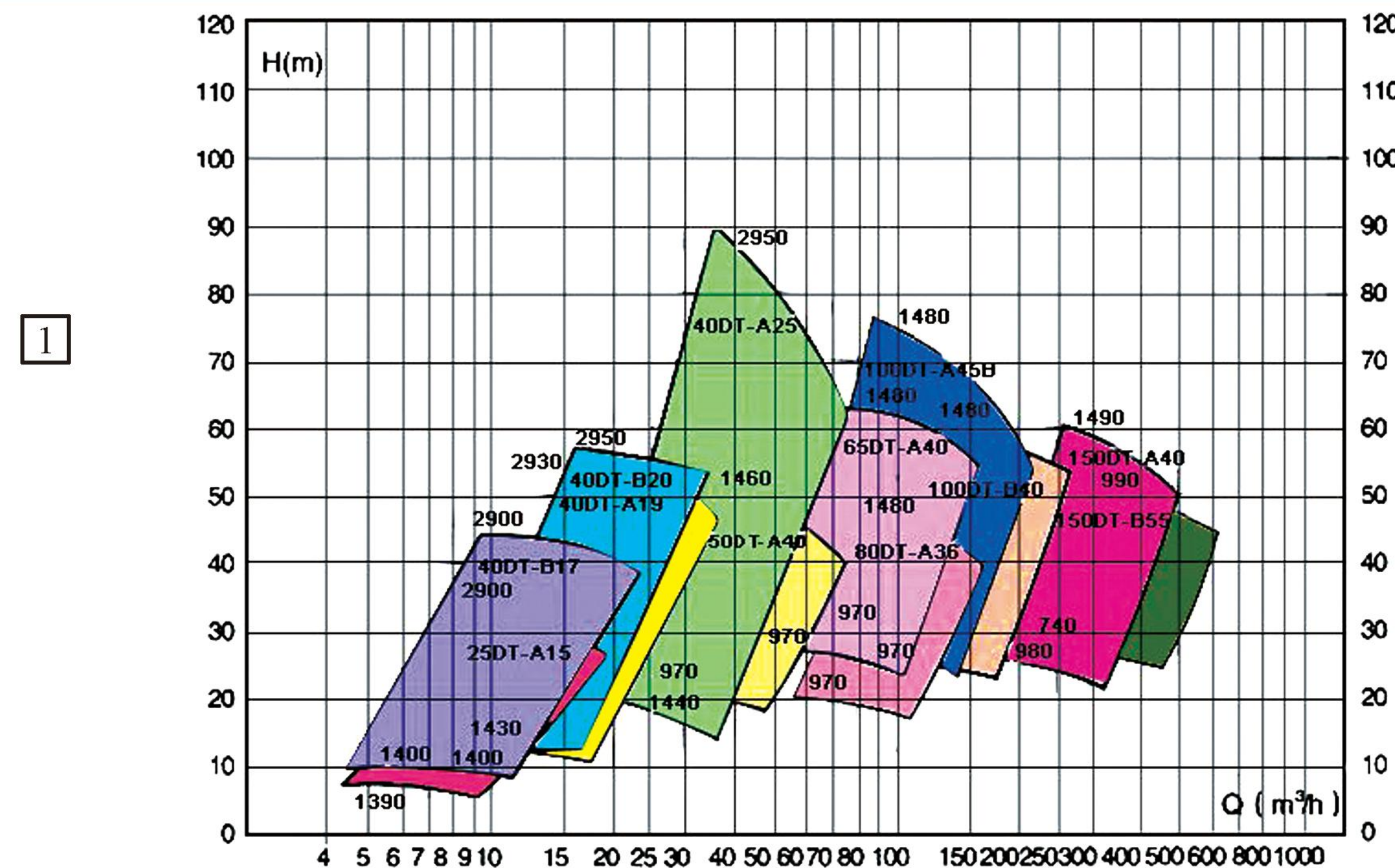


## CONSTRUCTION DESIGN



|                            |                    |
|----------------------------|--------------------|
| 1.Impeller                 | 8.Bearing housing  |
| 2.Inlet short pipe         | 9.Shaft            |
| 3.Volute                   | 10.Adjusting screw |
| 4.Frame plate liner insert | 11.Clamp bolt      |
| 5.Mechanical seal          | 12.Bolt            |
| 6. Dismantling ring        | 13.Support         |
| 7.Frame                    | 14.Stud            |

## PERFORMANCE CHART



Note: The performance in water , only for initial selection.



# AN PUMP MACHINERY

## AZL SERIES SLURRY PUMP



### APPLICATIONS



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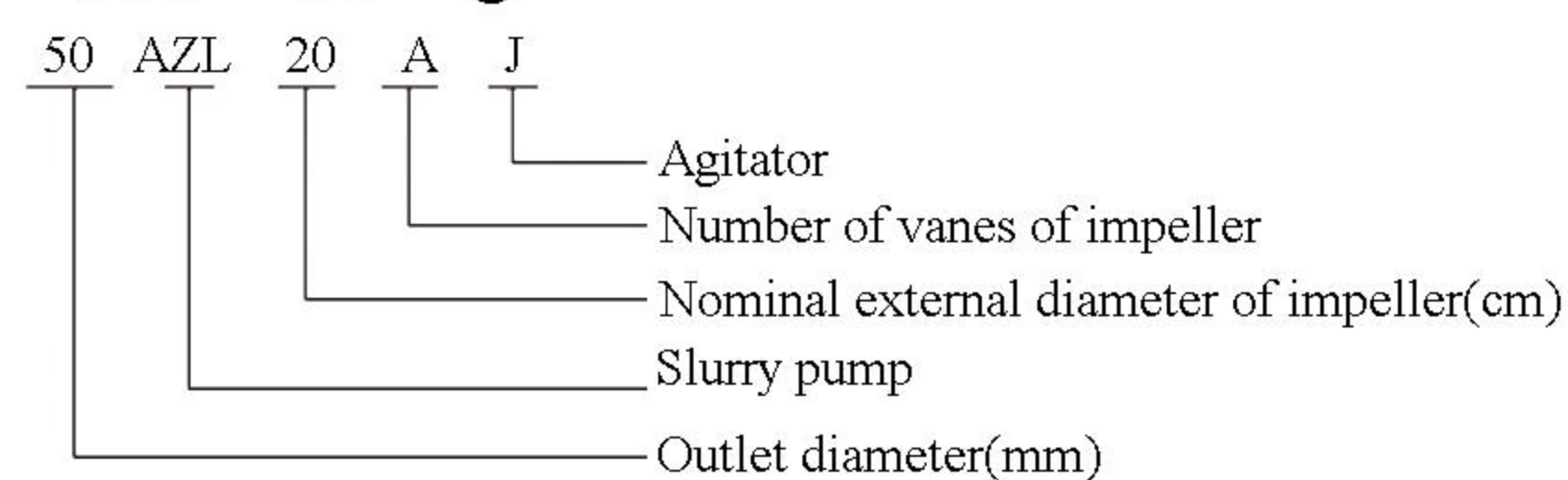




## GENERAL

- AZL, series vertical slurry pump is suitable for handling slurry with abrasive and corrosive solids, which maximum weight density of 45% (ash and coal slurry) and 60% (ore and heavy slurry).

## ■ Model meaning

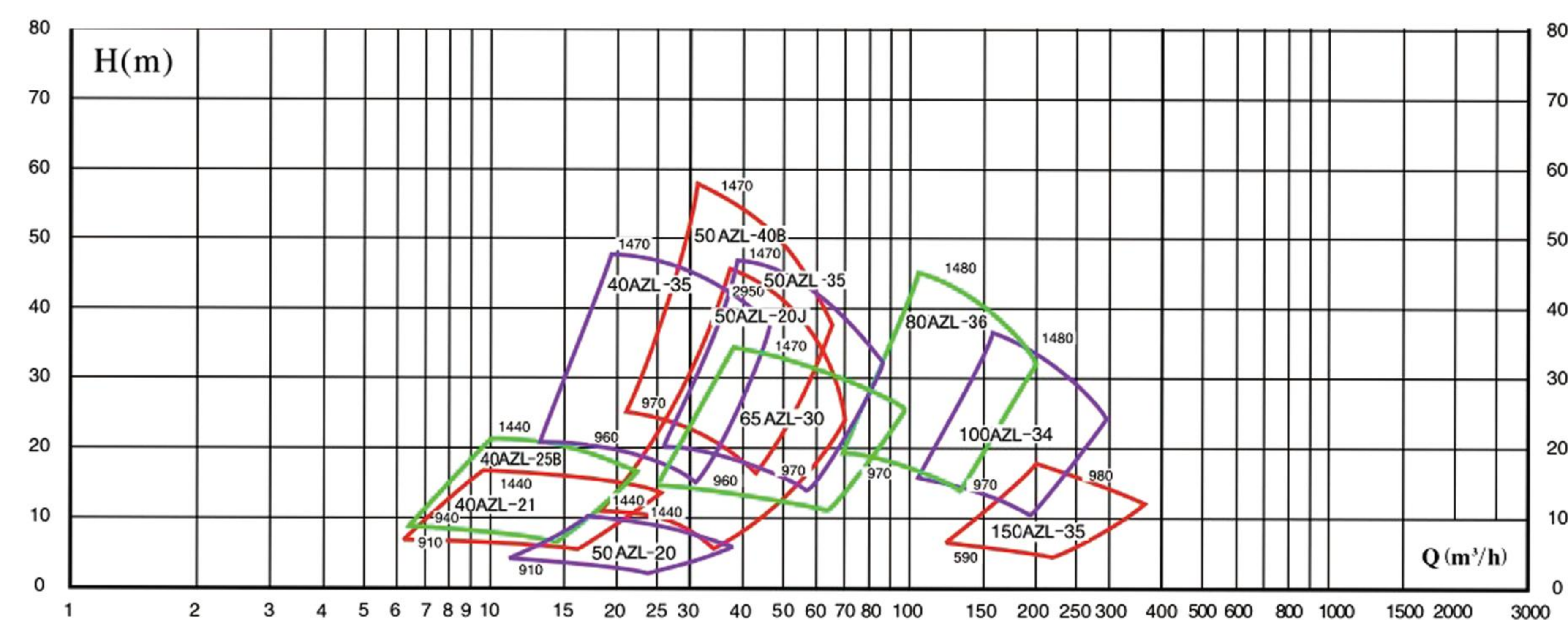


## ■ FEATURES / BENEFITS

- High efficiency
- Long service life
- Stable operation
- High-abrasive metal material
- High-abrasive and corrosion resisting metal materials
- Corrosion resisting metal materials



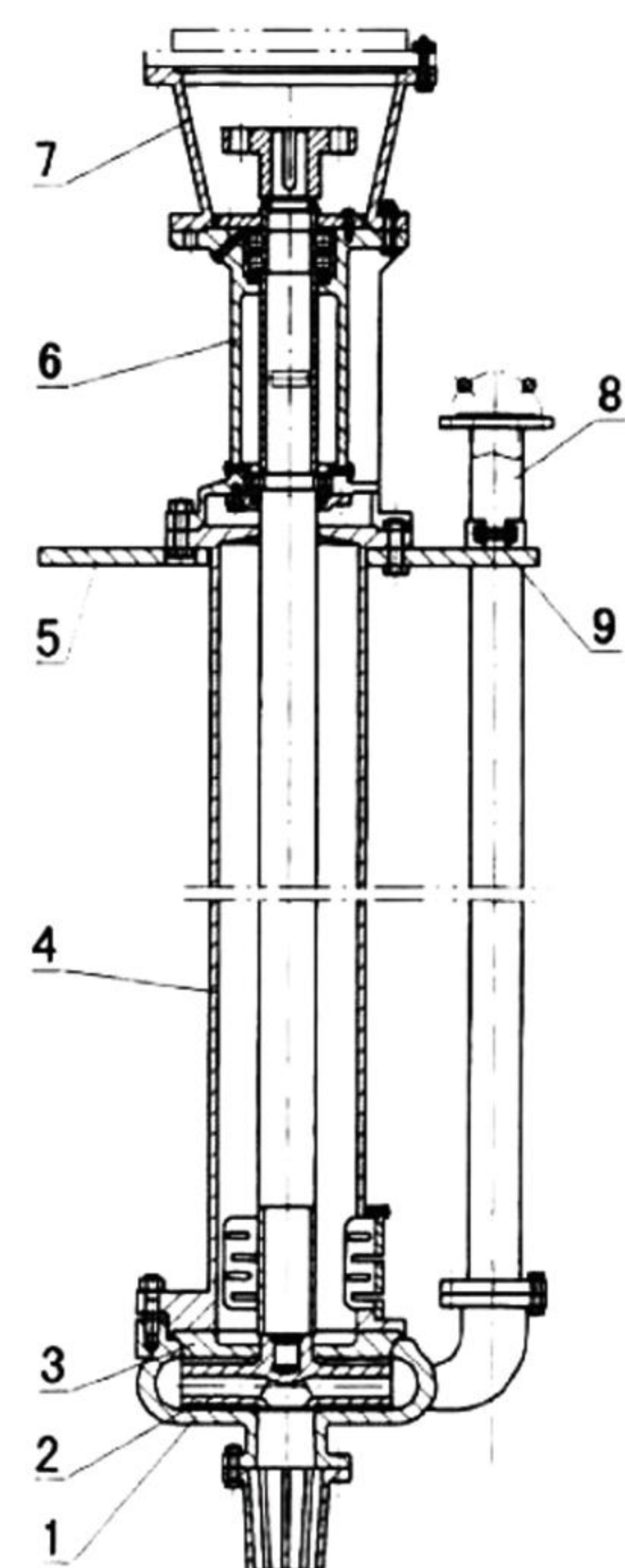
## PERFORMANCE CHART



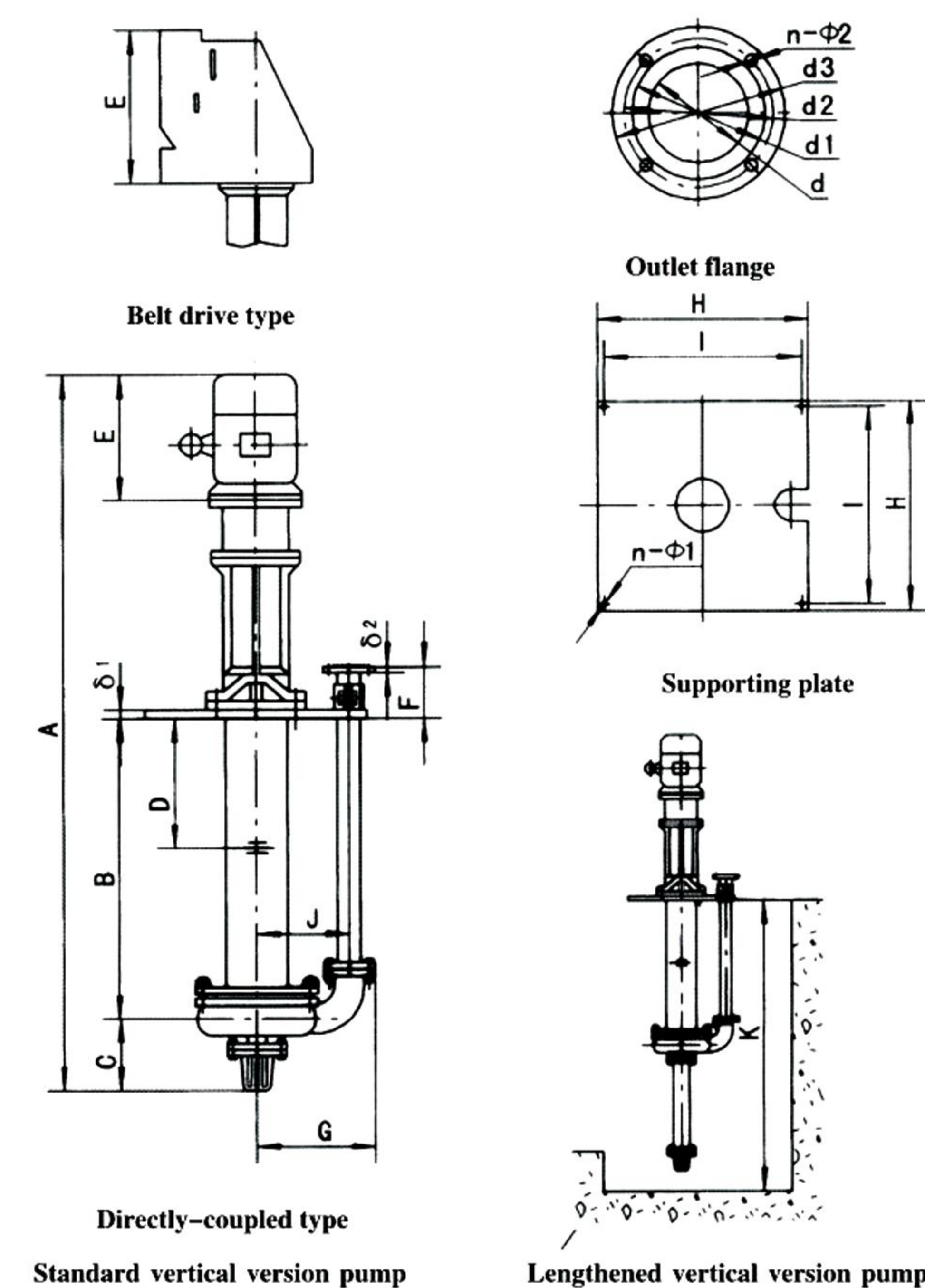
Note: Approximate clear water performance for preliminary pump selection only.

## INSTALLATION DRAWING AND SIZES OF AZL SERIES SLURRY PUMPS

## CONSTRUCTION DESIGN



|                         |                          |
|-------------------------|--------------------------|
| 1.Volute casing         | 6.Bearing body           |
| 2.Impeller              | 7.Motor supporting       |
| 3.Rear liner plate      | 8.Drain-pipe             |
| 4.Support               | 9.Right supporting plate |
| 5.Left supporting plate |                          |



| Type      | Mating motors     | Driving patterns | A    | B    | C   | D   | E   | F   | G   | H    | I    | J   | n-φ1  | φ1 | Outlet flange           | Weight motor included (kg) | K |
|-----------|-------------------|------------------|------|------|-----|-----|-----|-----|-----|------|------|-----|-------|----|-------------------------|----------------------------|---|
| 150AZL-35 | Y250M-6 37kW V1   | DC               | 2903 |      |     |     | 705 |     |     |      |      |     |       |    | φ150 φ300 φ225 φ250 φ18 | 1211                       |   |
|           | Y180L-6 11kW V1   | DC               | 2838 | 1054 | 300 |     | 660 | 216 | 610 | 1150 | 1080 | 480 |       |    | φ150 φ300 φ225 φ250 φ18 | 1105                       |   |
|           | Y160L-6 11kW B3   | DC               | 2874 |      |     |     | 702 |     |     |      |      |     |       |    | φ150 φ300 φ225 φ250 φ18 | 1046                       |   |
| 100AZL-34 | Y225M-4 45kW V1   | DC               | 2630 |      |     |     | 755 |     |     |      |      |     |       |    | φ100 φ145 φ170 φ205 φ18 | 1183                       |   |
|           | Y180L-6 15kW V1   | DC               | 2705 | 1036 | 310 |     | 660 | 216 | 573 | 1130 | 1110 | 470 | 4-φ25 |    | φ100 φ145 φ170 φ205 φ18 | 1036                       |   |
|           | Y225M-4 45kW V1   | DC               | 2887 |      |     |     | 705 |     |     |      |      |     |       |    | φ80 φ125 φ150 φ185 φ18  | 993                        |   |
| 80AZL-36  | Y180L-6 15kW V1   | DC               | 2722 |      |     |     | 660 |     |     |      |      |     |       |    | φ80 φ125 φ150 φ185 φ18  | 862                        |   |
|           | Y180M-4 18.5kW V1 | DC               | 2673 | 1033 | 270 |     | 620 | 207 | 416 | 712  | 672  | 336 | 4-φ22 | 20 | φ65 φ115 φ130 φ160 φ14  | 763                        |   |
|           | Y132M2-6 5.5kW B5 | DC               | 2458 |      |     |     | 435 |     |     |      |      |     |       |    | φ65 φ115 φ130 φ160 φ14  | 614                        |   |
| 50AZL-40B | Y200L-4 30kW V1   | DC               | 2865 |      |     |     | 665 |     |     |      |      |     |       |    | φ50 φ90 φ125 φ165 φ18   | 885                        |   |
|           | Y160L-6 11kW B5   | DC               | 2740 |      |     |     | 540 |     |     |      |      |     |       |    | φ50 φ90 φ125 φ165 φ18   | 771                        |   |
|           | Y180L-4 22kW V1   | DC               | 2780 | 1160 | 290 | 350 | 600 |     |     |      |      |     |       |    | φ50 φ90 φ125 φ165 φ18   | 782                        |   |
| 50AZL-35  | Y160M-6 7.5kW B5  | DC               | 2675 |      |     |     | 485 |     |     |      |      |     |       |    | φ50 φ90 φ125 φ165 φ18   | 766                        |   |
|           | Y112M-4 4kW B5    | DC               | 1941 | 810  | 195 |     | 340 | 136 | 321 | 600  | 540  | 252 | 4-φ25 |    | φ50 φ90 φ110 φ140 φ14   | 283                        |   |
|           | Y90L-6 1.1kW B5   | DC               | 1881 |      |     |     | 290 |     |     |      |      |     |       |    | φ50 φ90 φ110 φ140 φ14   | 275                        |   |
| 50AZL-20  | Y200L1-2 30kW V1  | DC               | 2013 |      |     |     | 665 |     |     |      |      |     |       |    | φ50 φ90 φ125 φ165 φ18   | 885                        |   |
|           | Y112M-4 4kW B5    | DC               | 2238 | 900  | 300 |     | 340 | 141 | 336 | 680  | 620  | 253 | 4-φ19 |    | φ50 φ90 φ125 φ165 φ18   | 619                        |   |
|           | Y180M-4 18.5kW B5 | DC               | 3003 |      |     |     | 500 |     |     |      |      |     |       |    | φ50 φ90 φ125 φ165 φ18   | 672                        |   |
| 40AZL-35  | Y132M2-6 5.5kW B5 | DC               | 2888 |      |     |     | 435 |     |     |      |      |     |       |    | φ40 φ72 φ100 φ130 φ14   | 584                        |   |
|           | Y112M-4 4kW B5    | DC               | 1886 | 826  | 210 |     | 340 | 184 | 334 |      |      |     |       |    | φ40 φ72 φ100 φ130 φ14   | 352                        |   |
|           | Y100L-6 1.5kW B5  | DC               | 1809 |      |     |     | 320 |     |     |      |      |     |       |    | φ40 φ72 φ100 φ130 φ14   | 353                        |   |
| 40AZL-21  | Y112M-4 4kW B5    | DC               | 1961 |      |     |     | 340 |     |     |      |      |     |       |    | φ40 φ72 φ100 φ130 φ14   | 370                        |   |
|           | Y90L-6 1.1kW B5   | DC               | 1901 | 820  | 200 |     | 290 | 152 | 309 |      |      |     |       |    | φ40 φ72 φ100 φ130 φ14   | 345                        |   |

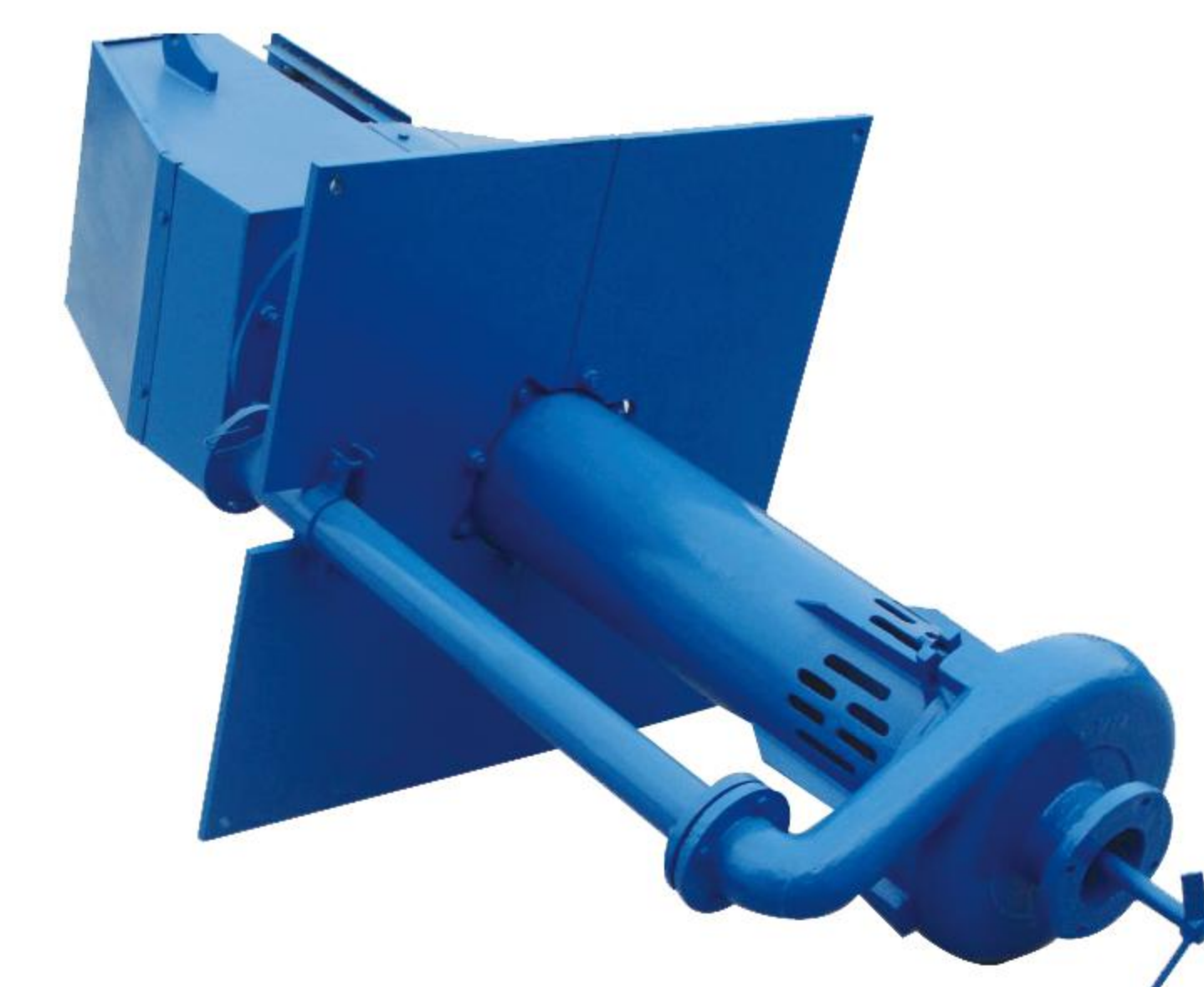


# AN PUMP MACHINERY

## BP SERIES VERTICAL SUMP SLURRY PUMP



### APPLICATIONS



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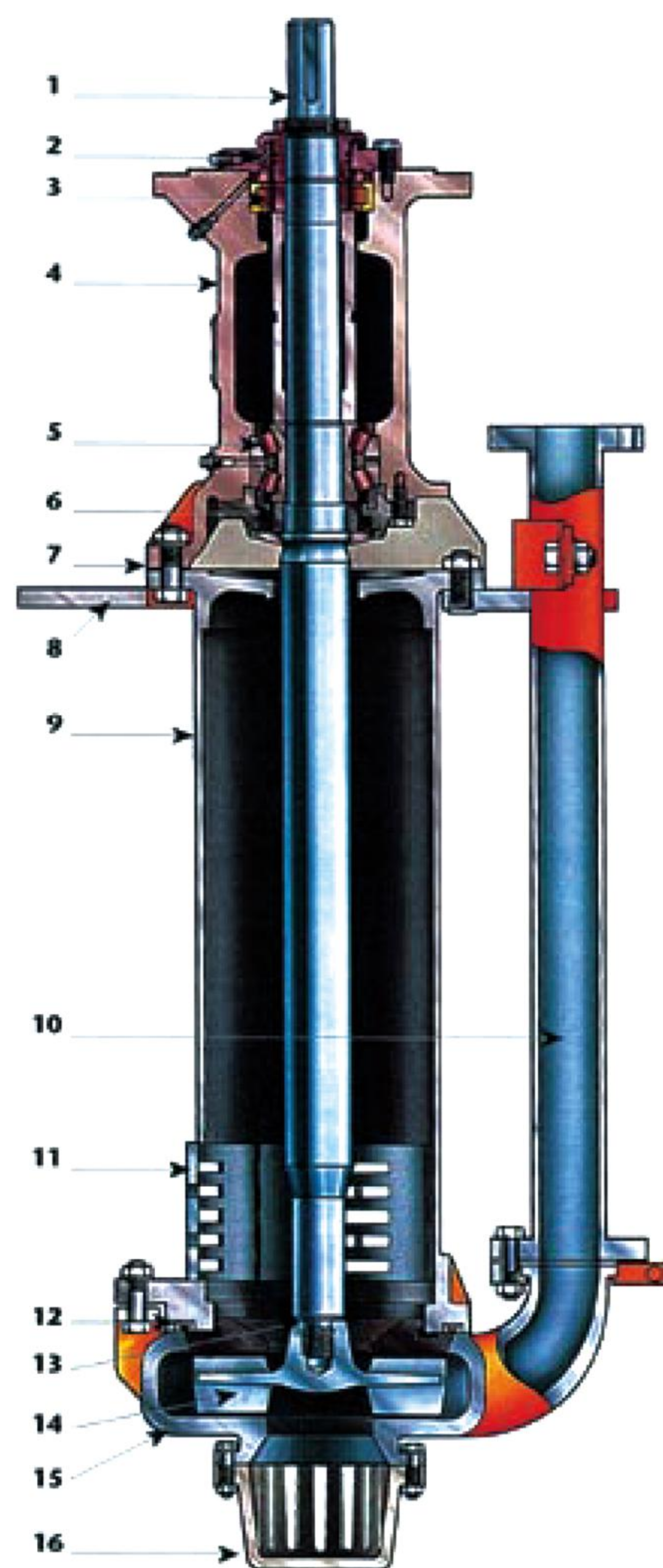
## FEATURES / BENEFITS

The BP/BPR heavy duty cantilever sump pump is designed for applications requiring greater reliability and durability than conventional vertical process pumps can offer.

- Cantilevered shaft design
- Semi-open impeller
- Agitator option keeps solids in suspension
- BPR models feature full rubber covering for corrosion resistance
- Recessed impeller option passes oversized material
- Fully elastomer lined or hard metal fitted. No submerged bearings or packing. High capacity double suction design. Optional recessed impeller and suction agitator available.
- No submerged bearings or packing. High capacity design. Optional recessed impeller and suction agitator available.

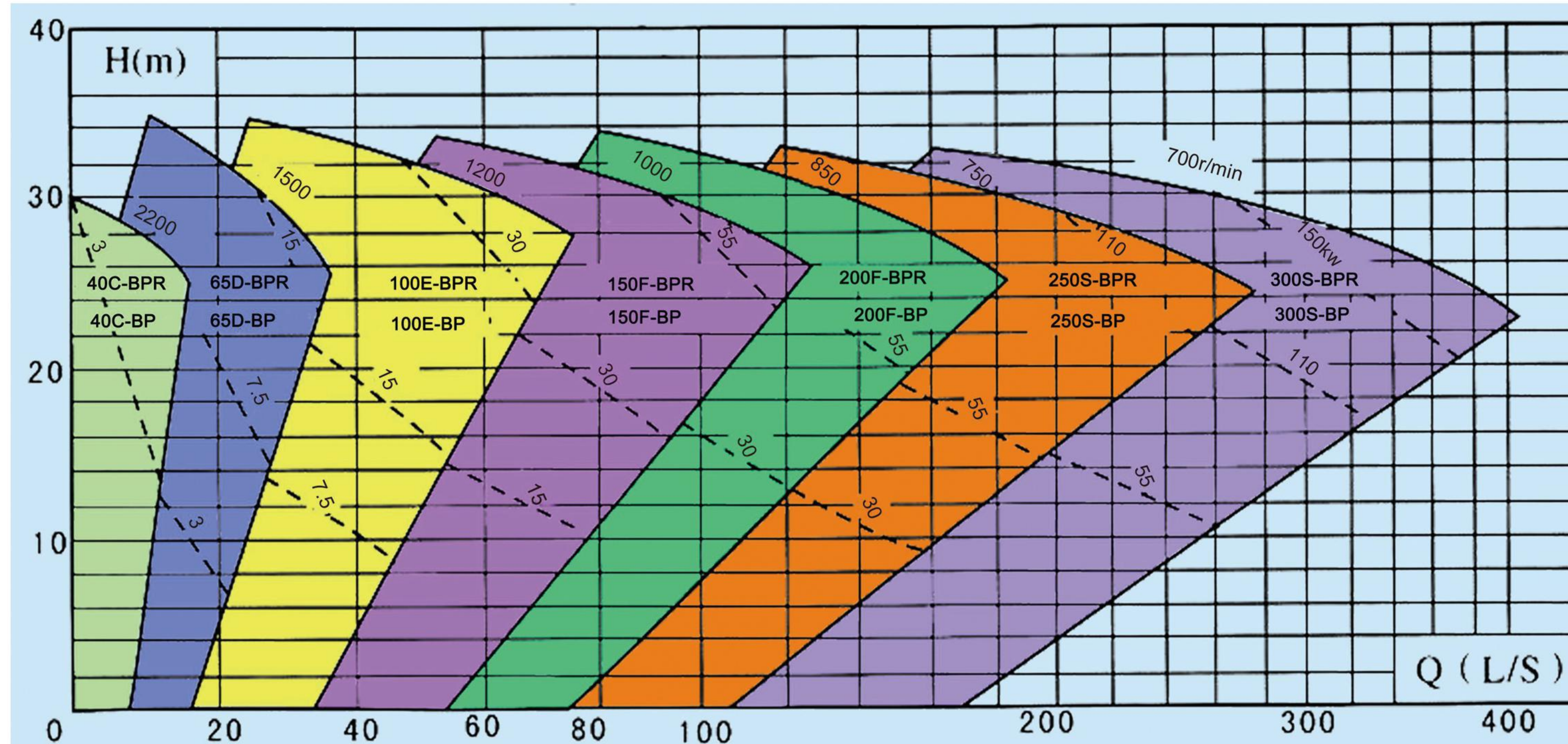


## CONSTRUCTION DESIGN

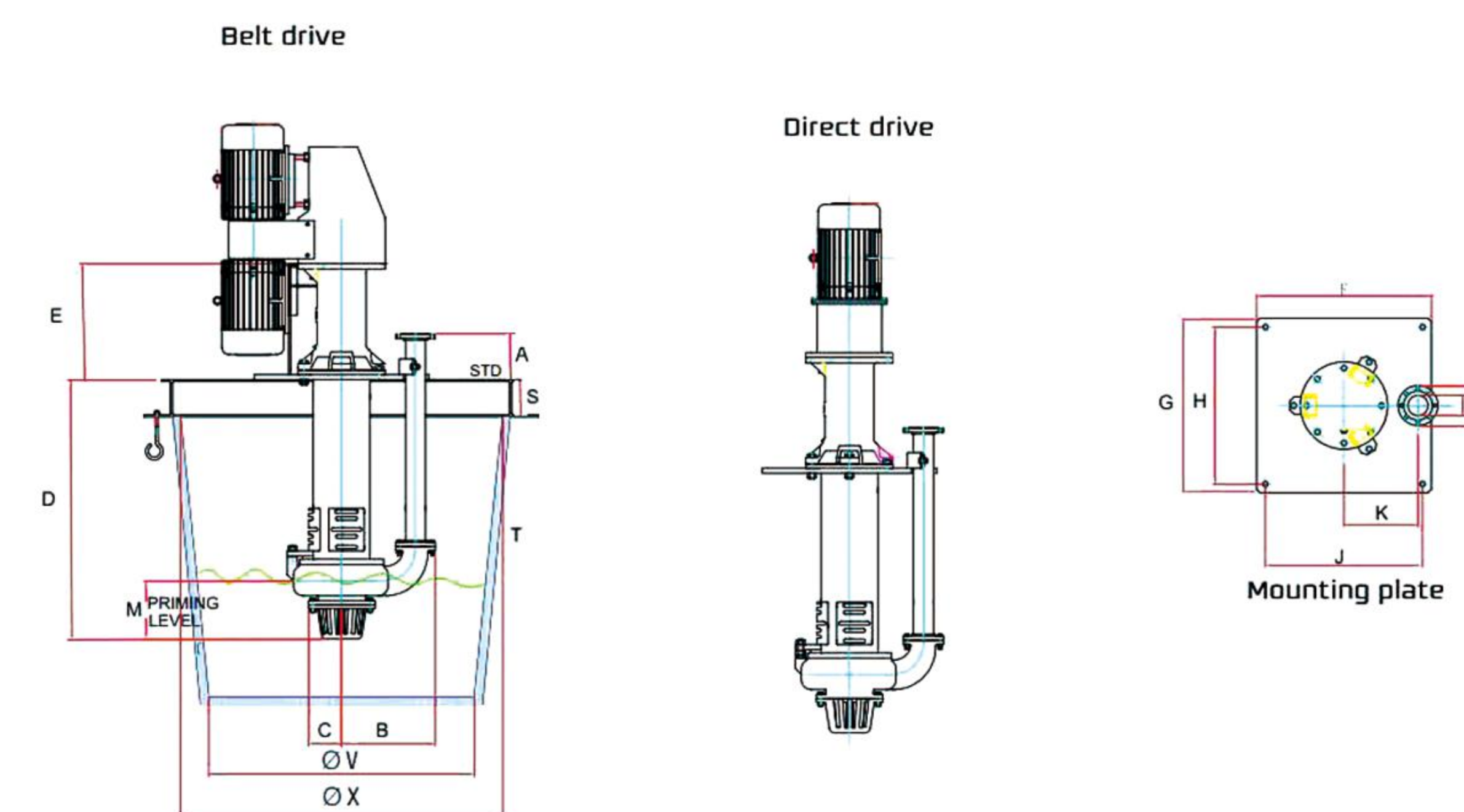


- 1. Shaft**  
BP - Steel  
BPR - Elastomer covered steel
- 2. Upper Bearing Seal**  
Labyrinth, piston rings and grease purge
- 3. Upper Bearing**  
Heavy duty grease lubricated parallel roller
- 4. Bearing Housing**  
Robust heavy duty, SG iron
- 5. Lower Bearings**  
Heavy duty grease lubricated double taper roller
- 6. Lower Bearing Seal**  
Lip Seal and Flinger
- 7. Shims**  
Allow vertical adjustment of the impeller in the casing
- 8. Mounting Plate**  
BP - Steel  
BPR - Elastomer covered steel
- 9. Column**  
BP - Steel  
BPR - Elastomer covered steel
- 10. Discharge Pipe**  
BP - Steel  
BPR - Elastomer covered steel
- 11. Upper Strainer**  
BP - Stainless Steel  
BPR - Polyurethane
- 12. Back Liner Seal**  
BP - Elastomer
- 13. Impeller Thread Seal**  
BP - Elastomer
- 14. Impeller**  
BP - UltraChrome®  
BPR - Elastomer moulded metal
- 15. Casing**  
BP - UltraChrome®  
BPR - Elastomer moulded metal
- 16. Lower Strainer**  
BP - Polyurethane  
BPR - Elastomer moulded metal
- 17. Socket Head Protectors**  
BPR - Elastomer moulded
- 18. Column Clamp**  
BPR - Elastomer moulded metal

## PERFORMANCE CHART



## DIMENSIONS



| Model  | A    | B   | C   | E   | F    | G    | H    | J    | K   | φL  | Wkg  | Sump(Typical) |      |      |      |
|--------|------|-----|-----|-----|------|------|------|------|-----|-----|------|---------------|------|------|------|
|        |      |     |     |     |      |      |      |      |     |     |      | S             | T    | φV   | φX   |
| 40BP   | 137  | 285 | 153 | 380 | 500  | 500  | 450  | 450  | 205 | 127 | 285  | 280           | 695  | 550  | 1000 |
| 40BPR  | 140* | 165 | 175 | 380 |      |      |      |      |     |     | 250  |               |      |      |      |
| 65BP   | 227  | 399 | 231 | 492 | 680  | 680  | 620  | 620  | 285 | 178 | 432  | 350           | 925  | 800  | 1400 |
| 65BPR  | 230* | 380 | 260 | 498 |      |      |      |      |     |     | 386  |               |      |      |      |
| 100BP  | 250  | 538 | 317 | 662 | 1000 | 870  | 800  | 930  | 400 | 229 | 867  | 350           | 1225 | 1000 | 1750 |
| 100BPR | 266* | 535 | 332 | 668 |      |      |      |      |     |     | 773  |               |      |      |      |
| 150BP  | 390  | 670 | 365 | 875 | 1100 | 1100 | 1030 | 1030 | 500 | 280 | 1737 | 350           | 1525 | 1250 | 2150 |
| 150BPR | 395  | 670 | 400 | 883 |      |      |      |      |     |     | 1523 |               |      |      |      |
| 200BP  | 450  | 805 | 440 | 878 | 1300 | 1200 | 1100 | 1200 | 600 | 343 | 3090 | 350           | 1525 | 1500 | 2400 |
| 200BPR |      |     |     |     |      |      |      |      |     |     | 2727 |               |      |      |      |

Note: The shaft length of the pump could be 900mm, 1200mm, 1500mm and 1800mm or as the requirement