



Vertical Multistage

PSM/PSMCF Series

60HZ



PSM



PSMCF

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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.

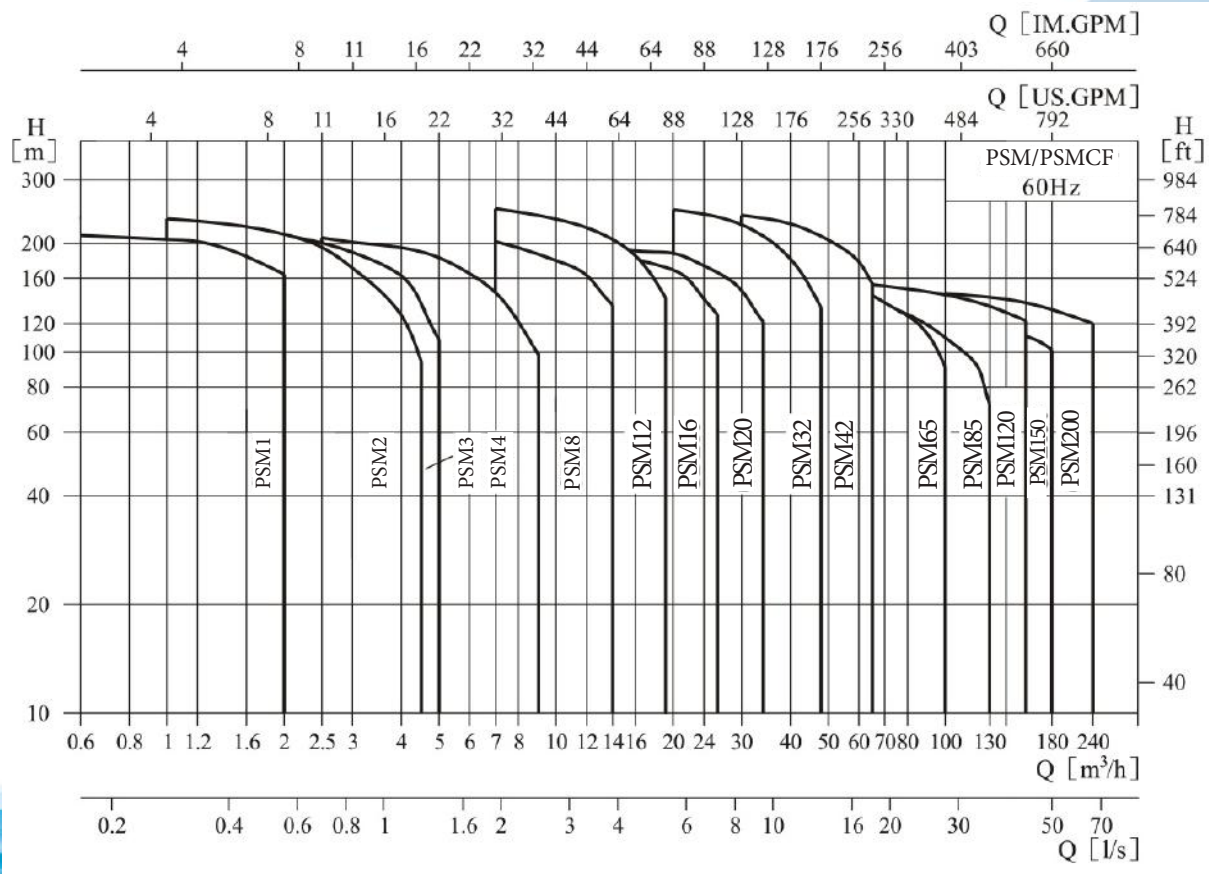
The after sales services, sales, engineering, R&D, production, quality control, accounting and administration departments of all the above companies share the same location.

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 & 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.



Performance Scope & Product Range



| Description | PSM1 | PSM2 | PSM3 | PSM4 | PSM8 | PSM12 | PSM16 | PSM20 | PSM32 | PSM42 | PSM65 | PSM85 | PSM120 | PSM150 | PSM200 |
|------------------------|-----------|-----------|----------|----------|---------|---------|----------|----------|----------|--------|-----------|-----------|-----------|--------|-----------|
| Rated flow [m³/h] | 1 | 2 | 3 | 4 | 8 | 12 | 16 | 20 | 32 | 42 | 65 | 85 | 120 | 150 | 200 |
| Rated flow [l/s] | 0.28 | 0.56 | 0.83 | 1.1 | 2.2 | 3.3 | 4.4 | 5.6 | 8.9 | 11.7 | 18 | 24 | 33 | 41.6 | 55.6 |
| Flow range [m³/h] | 0.6-2 | 1-4.5 | 1.5-5 | 2.5-8 | 7-14 | 7-19 | 10-26 | 12-34 | 20-48 | 30-65 | 40-100 | 60-130 | 60-160 | 80-180 | 100-240 |
| Flow range [l/s] | 0.17-0.56 | 0.28-1.25 | 0.42-1.4 | 0.7-2.2 | 1.9-3.9 | 1.9-5.3 | 2.8-7.2 | 3.3-9.4 | 5.5-13.3 | 8.3-18 | 11.1-27.7 | 16.7-36.1 | 16.7-44.4 | 22-50 | 27.8-66.7 |
| Max.pressure [bar] | 22 | 23.5 | 23 | 21 | 20 | 25 | 20 | 20 | 25 | 26 | 18 | 15 | 15 | 14 | 15 |
| Motor power [kW] | 0.37-3 | 0.55-4 | 0.37-4 | 0.75-5.5 | 0.75-11 | 1.1-15 | 2.2-18.5 | 2.2-18.5 | 3-30 | 5.5-45 | 7.5-45 | 11-45 | 18.5-75 | 15-75 | 30-110 |
| Temperature range [°C] | -15~+120 | | | | | | | | | | | | | | |
| Max. efficiency [%] | 44 | 46 | 54 | 57 | 62 | 63 | 66 | 69 | 73 | 75 | 76 | 77 | 74 | 73 | 78 |
| Type | | | | | | | | | | | | | | | |
| CDL | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CDLF | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CDL Pipe connection | | | | | | | | | | | | | | | |
| DIN Flange | DN25 | DN25 | DN25 | DN32 | DN40 | DN50 | DN50 | DN50 | DN65 | DN80 | DN100 | DN100 | DN125 | DN125 | DN150 |
| Oval Flange | G1 | G1 | G1 | G1¼ | G1½ | | | | | | | | | | |
| CDLF Pipe connection | | | | | | | | | | | | | | | |
| DIN Flange | DN25 | DN25 | DN25 | DN32 | DN40 | DN50 | DN50 | DN50 | DN65 | DN80 | DN100 | DN100 | DN125 | DN125 | DN150 |
| Cutting ferrule joint | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| Pipe thread | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | |

● Pump

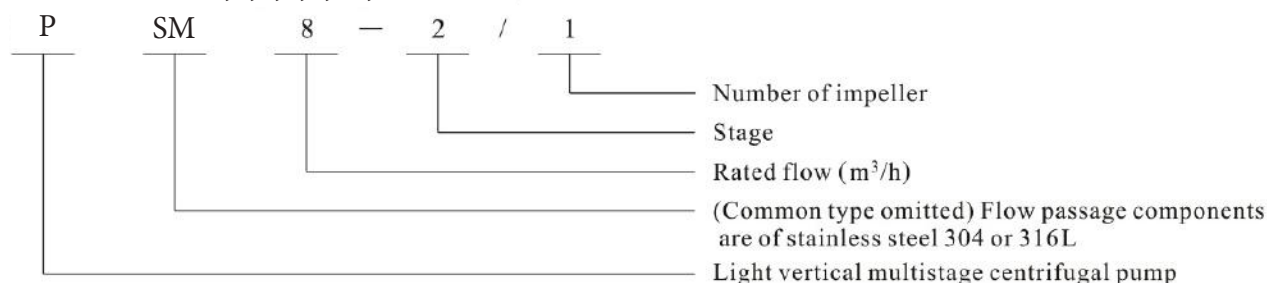
PSM/PSMCF is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between pump head and inlet & outlet section with stay bolts. The inlet and outlet are located at the pump bottom at the same plane. This kind of pump can be equipped with an intelligent protector to effectively prevent it from dry-running, out-of-phase and overload.

● Motor

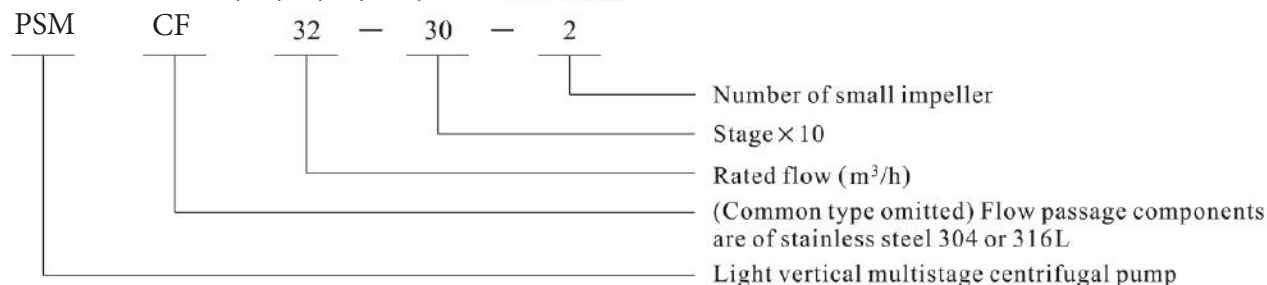
- Full-enclosed air-blast two-pole standard motor
- Protection class: IP55
- Insulation class: F
- Standard voltage: 60Hz: 3 × 200-230 / 346-400V
3 × 220-255 / 380-440V
3 × 220-277 / 380-480V

● Definition of Model

PSM/PSMCF 1,2,3,4,8,12,16 and 20



PSM/PSMCF 32,42,65,85,120,150 and 200



● Application

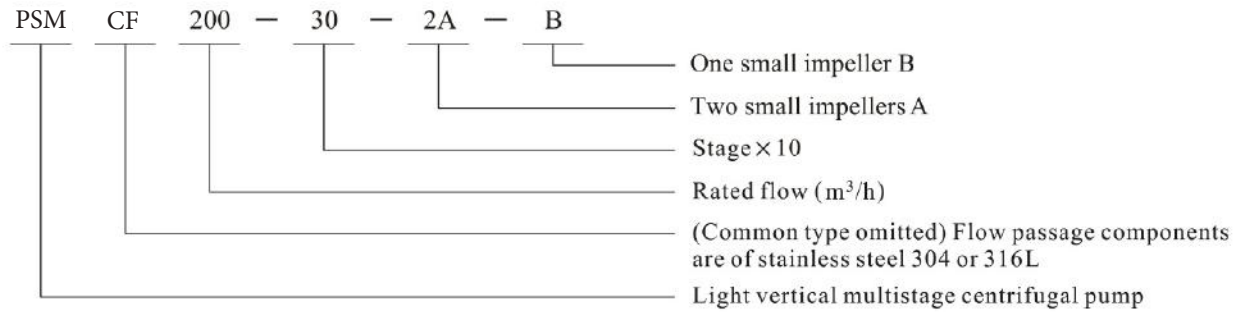
PSM/PSMCF is a kind of multifunctional products. It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure. CDL type is applicable to conveying non-corrosive liquid while PSMCF is suitable for slightly corrosive liquid.

- Water supply: Water filter and transport in Waterworks, boosting of main pipeline, boosting in high-rise buildings.
- Industrial boosting: Process flow water system, cleaning system, high-pressure washing system, fire fighting system.
- Industrial liquid conveying: Cooling and air-conditioning system, boiler water supply and condensing system, machine-associated purpose, acids and alkali.
- Water treatment: Ultrafiltration system, reverse osmosis system, distillation system, separator, swimming pool.
- Irrigation: Farmland irrigation, spray irrigation, dripping irrigation.

● Operation conditions

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Liquid temperature:
Normal temperature type: -15°C ~ +70°C,
Hot water type: -15°C ~ +120°C
- Ambient temperature: up to +40°C
- Altitude: up to 1000m

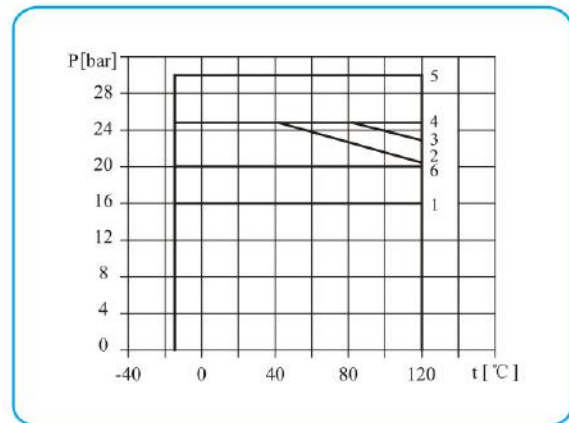
PSM/PSMCF



● Max working pressure

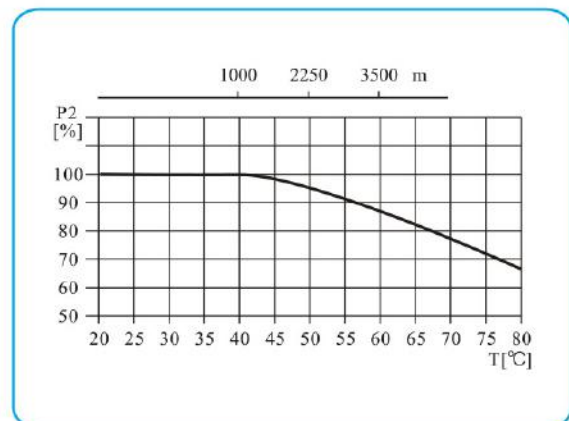
| Model | Curve number |
|-------------------------|--------------|
| PSM 1,2,3,4 Flange | 2 |
| PSM 1,2,3,4 Oval Flange | 1 |
| PSMCF 1,2,3,4 | 2 |
| PSM 8,12,16,20 Flange | 3 |
| PSM 8 Oval Flange | 1 |
| PSMCF 8,12,16,20 | 3 |
| PSM, PSMCF 32 | |
| 32-10-1~32-50-2 | 1 |
| 32-50~32-90-2 | 4 |
| 32-90~32-100-2 | 5 |
| PSM, PSMCF 42 | |
| 42-10-1~42-30 | 1 |
| 42-40-2~42-60 | 4 |
| 42-70-2~42-70 | 5 |
| PSM, PSMCF 65 | |
| 65-10-1~65-30 | 1 |
| 65-40-2~65-50-2 | 4 |
| PSM, PSMCF 85 | |
| 85-10-1~85-30 | 1 |
| 85-40-2 | 4 |
| PSM, PSMCF 120,150,200 | |
| | 6 |

The following figure shows the limitation of pressure and temperature, which shall be in the scope as shown in the figure.



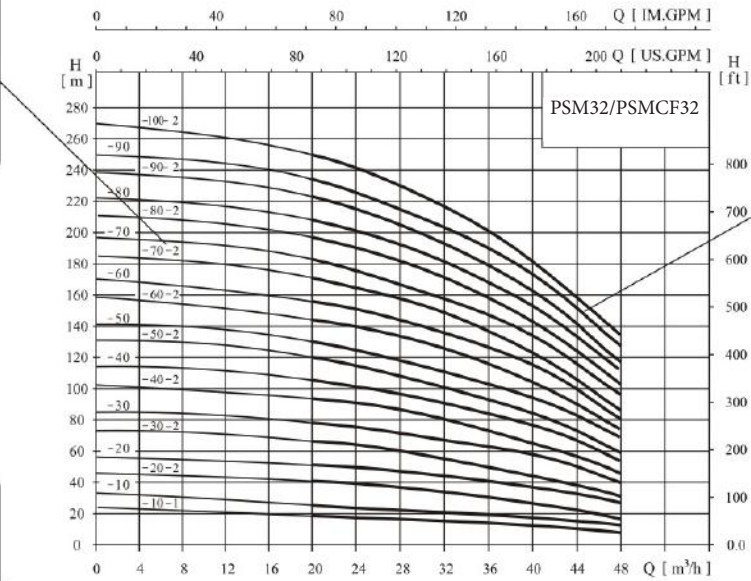
● Max. Ambient temperature

When the pump operates under ambient temperature higher than 40°C or under altitude higher than 1000m, because of low air density and poor cooling effects, the motor output power P2 will be decreased to certain extent. If the pump is operated under the above-said conditions, it should be equipped with motor of higher power.



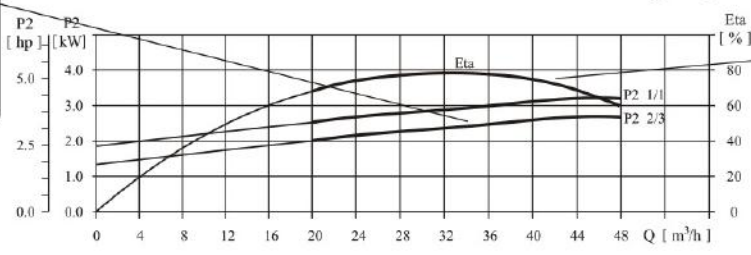
Curve illustration

Stage
 First number:
 Stage × 10
 Second number:
 Number of small impeller

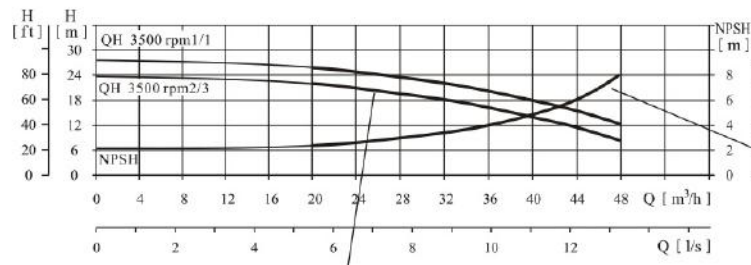


Pump Q-H curve, the thickened line presents recommended performance region

The power curve presents the input power of each stage, which is divided into integrate impeller type(1/1) and the type with small impeller (2/3)



Eta curve presents efficiency of the pump, For the pump equipped with small impeller, its efficiency will be 2% lower than that shown by the curve.



NPSH curve expresses the average value of all curves of this series. A safety margin of 0.5m shall be taken into consideration when making selection.

The Q-H curve of each stage, presenting integrate impeller type(1/1) and the type equipped with small impeller (2/3).

Performance curve

Following conditions are suitable for the performance curves shown below:

- 1、 All curves are based on the measured values of 60Hz: constant motor speed 3500 rpm or 3540rpm.
- 2、 Curve tolerance in conformity with ISO9906 Annex A.
- 3、 Measurement is done with 20°C air-free water, kinematic viscosity of 1mm²/sec.

matic viscosity of 1mm²/sec.

- 4、 The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.

● Minimum inlet pressure NPSH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitations will occur. To avoid cavitations, a minimum pressure at the inlet side of the pump shall be guaranteed. The maximum suction stroke can be calculated with following formula:

$$H = P_b \times 10.2 - \text{NPSH} - H_f - H_v - H_s$$

P_b = atmosphere pressure [bar]

(can be set as 1bar)

In a closed system, P_b means system pressure [bar]

NPSH = Net positive suction head [m]

(It can be read out from the point of possible max.

flow rate shown on NPSH curve)

H_f = Pipeline loss at the inlet [m]

H_v = Steam pressure [m]

H_s = Safety margin = Minimum 0.5m delivery head

If the calculated result H is positive, the pump may run under the max. Suction stroke H .

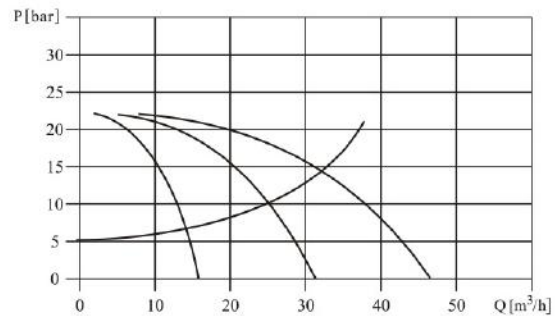
In case the calculated result H is negative, a delivery head of min. Inlet pressure is necessary.

● Operation in parallel

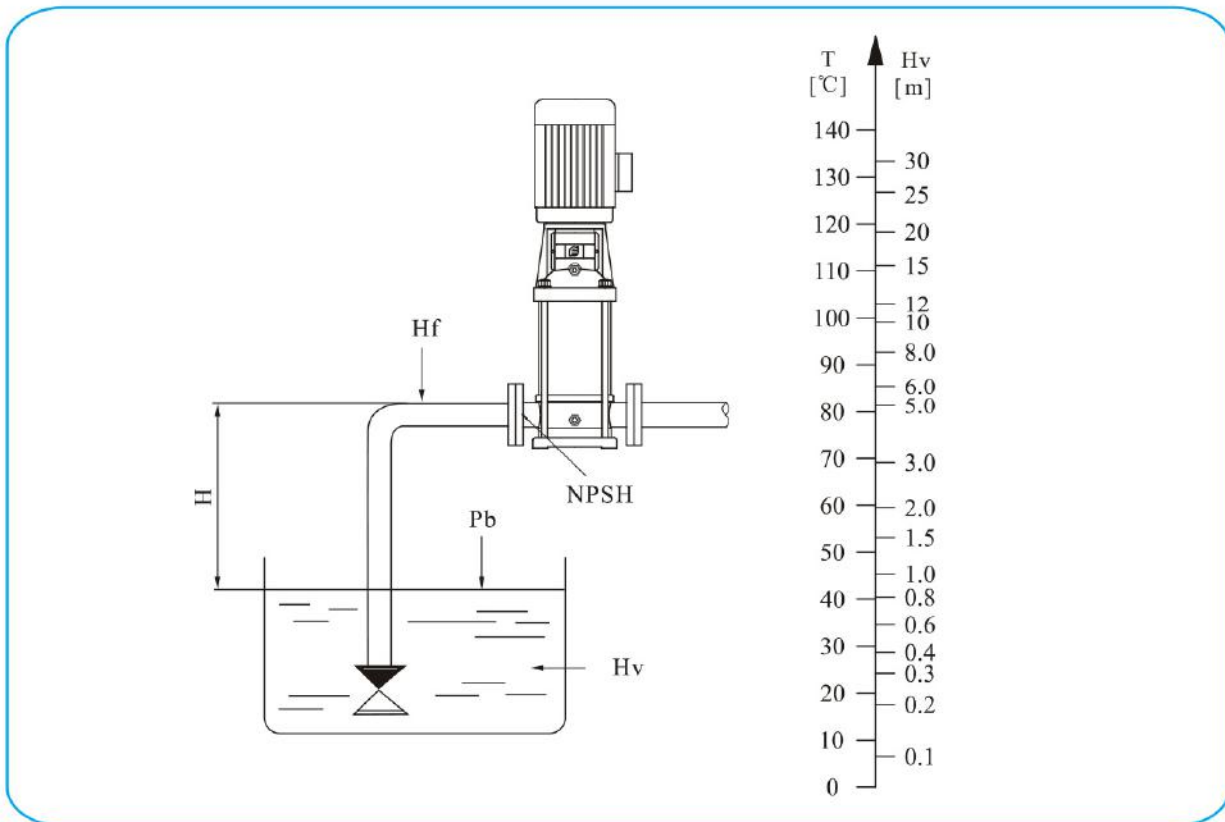
Connecting several pumps in parallel running will benefit much more than running a single large pump.

- Applicable to different working states necessary in a variable flow system.

- Increasing the possibility of water supply when the pump is in failure. Because in case of pump failure, only part of the system flow is effected.

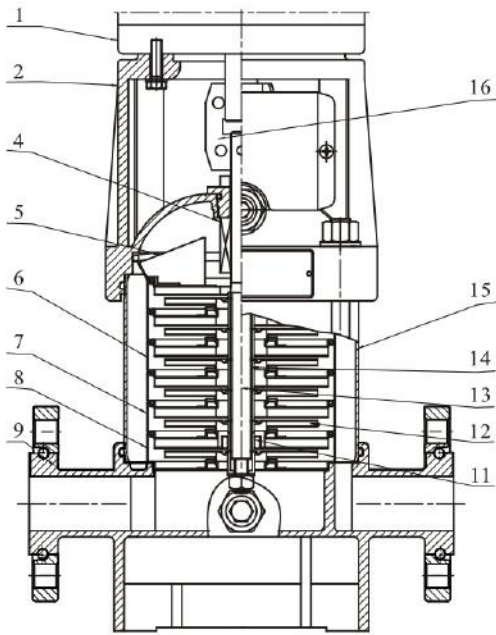


Two pumps or more can be connected in parallel running if necessary.

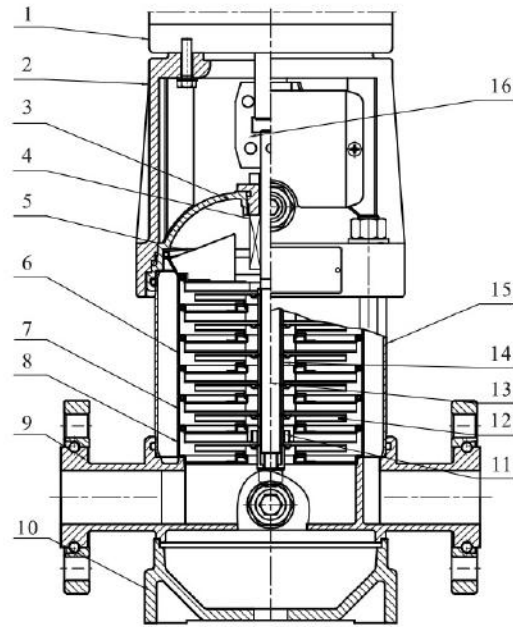


Check and ensure that the pump is not at cavitations state.

Section drawing PSM/PSMCF1,2,3,4



PSM



PSMCF

Material PSM/PSMCF 1,2,3,4

| NO. | Name | Material | AISI/ASTM |
|-----|------------------|------------------|---------------------|
| 1 | Motor | | |
| 2 | Pump head | Cast iron | ASTM25B |
| 4 | Mechanical seal | | |
| 5 | Top diffuser | Stainless steel | AISI304 |
| 6 | Diffuser | Stainless steel | AISI304 |
| 7 | Support diffuser | Stainless steel | AISI304 |
| 8 | Inducer | Stainless steel | AISI304 |
| 11 | Bearing | Tungsten carbide | |
| 12 | Impeller | Stainless steel | AISI304 |
| 13 | Shaft | Stainless steel | AISI304 AISI316L |

| NO. | Name | Material | AISI/ASTM |
|-----|-----------------|-----------------|-----------|
| 14 | Impeller sleeve | Stainless steel | AISI304 |
| 15 | Cylinder | Stainless steel | AISI304 |
| 16 | Coupling | Carbon steel | |

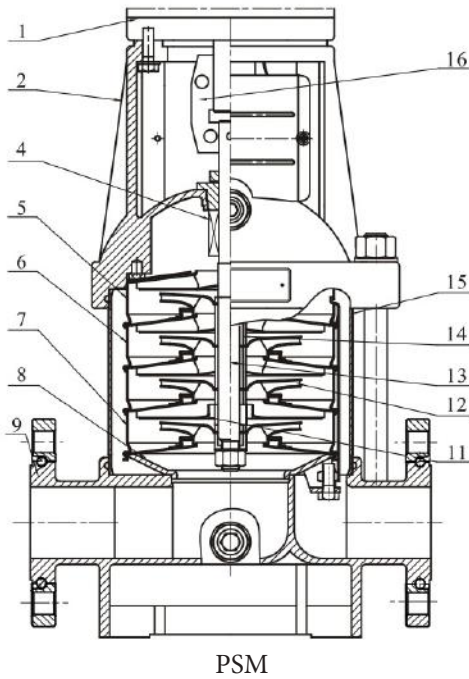
PSMCF

| NO. | Name | Material | AISI/ASTM |
|-----|--------------------------|-----------------|-----------|
| 3 | Seal base | Stainless steel | AISI304 |
| 9 | Inlet and outlet chamber | Stainless steel | AISI304 |
| 10 | Base plate | Cast iron | ASTM25B |

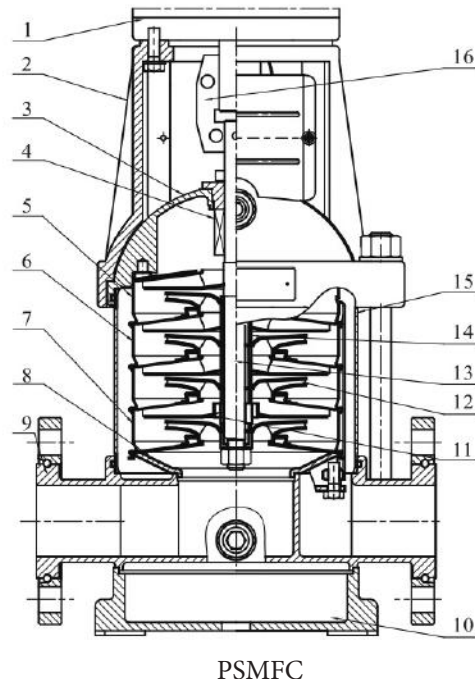
PSM

| | | | |
|---|--------------------------|-----------|---------|
| 9 | Inlet and outlet chamber | Cast iron | ASTM25B |
|---|--------------------------|-----------|---------|

Section drawing PSM/PSMCF 8,12,16,20



PSM



PSMFC

Material PSM/PSMCF 8,12,16,20

| NO. | Name | Material | AISI/ASTM |
|-----|------------------|------------------|---------------------|
| 1 | Motor | | |
| 2 | Pump head | Cast iron | ASTM25B |
| 4 | Mechanical seal | | |
| 5 | Top diffuser | Stainless steel | AISI304 |
| 6 | Diffuser | Stainless steel | AISI304 |
| 7 | Support diffuser | Stainless steel | AISI304 |
| 8 | Inducer | Stainless steel | AISI304 |
| 11 | Bearing | Tungsten carbide | |
| 12 | Impeller | Stainless steel | AISI304 |
| 13 | Shaft | Stainless steel | AISI304 AISI316L |

| NO. | Name | Material | AISI/ASTM |
|-----|-----------------|-----------------|-----------|
| 14 | Impeller sleeve | Stainless steel | AISI304 |
| 15 | Cylinder | Stainless steel | AISI304 |
| 16 | Coupling | Carbon steel | |

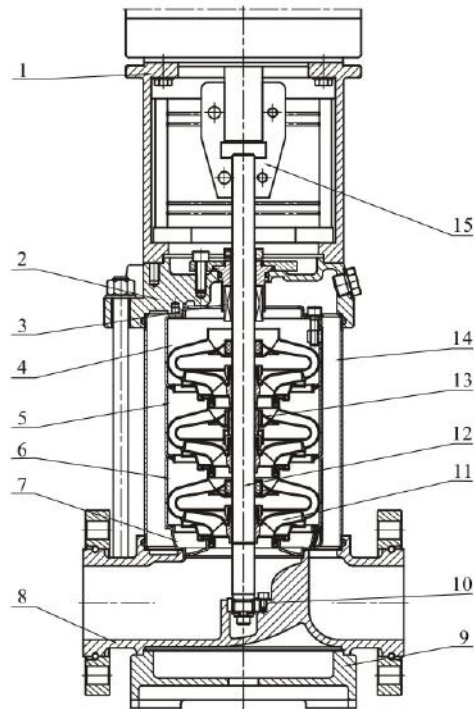
PSMCF

| | | | |
|----|--------------------------|-----------------|---------|
| 3 | Seal base | Stainless steel | AISI304 |
| 9 | Inlet and outlet chamber | Stainless steel | AISI304 |
| 10 | Base plate | Cast iron | ASTM25B |

PSM

| | | | |
|---|--------------------------|-----------|---------|
| 9 | Inlet and outlet chamber | Cast iron | ASTM25B |
|---|--------------------------|-----------|---------|

Section drawing PSM/PSMCF 32,42,65,85



Material PSM/PSMCF 32,42,65,85

| NO. | Name | Material | AISI/ASTM |
|-----|------------------|------------------|-----------|
| 1 | Bracket | Cast iron | ASTM25B |
| 3 | Mechanical seal | | |
| 4 | Top diffuser | Stainless steel | AISI304 |
| 5 | Support diffuser | Stainless steel | AISI304 |
| 6 | Diffuser | Stainless steel | AISI304 |
| 7 | Inducer | Stainless steel | AISI304 |
| 9 | Base plate | Cast iron | ASTM25B |
| 10 | Bottom bearing | Tungsten carbide | |
| 11 | Impeller | Stainless steel | AISI304 |

| NO. | Name | Material | AISI/ASTM |
|-----|----------------------|------------------|--------------------------------|
| 12 | Shaft | Stainless steel | AISI316L AISI304 AISI431 |
| 13 | Intermediate bearing | Tungsten carbide | |
| 14 | Cylinder | Stainless steel | AISI304 |
| 15 | Coupling | Carbon steel | |
| | Rubber parts | NBR | |

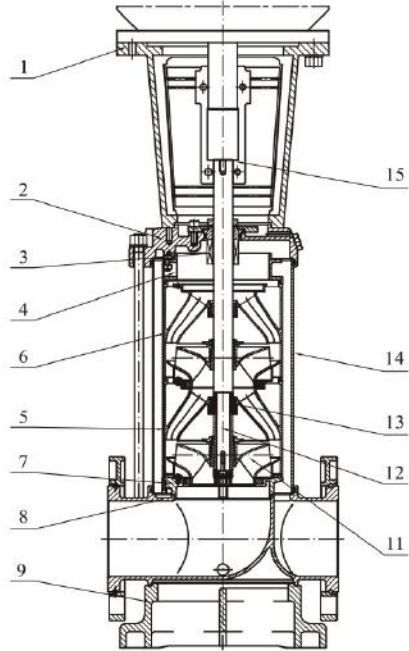
PSM

| | | | |
|---|--------------------------|-----------|---------|
| 2 | Pump head | Cast iron | ASTM25B |
| 8 | Inlet and outlet chamber | Cast iron | ASTM25B |

PSMCF

| | | | |
|---|--------------------------|-----------------|---------|
| 2 | Pump head | Stainless steel | AISI304 |
| 8 | Inlet and outlet chamber | Stainless steel | AISI304 |

● Section drawing PSM/PSMCF 20,150,200



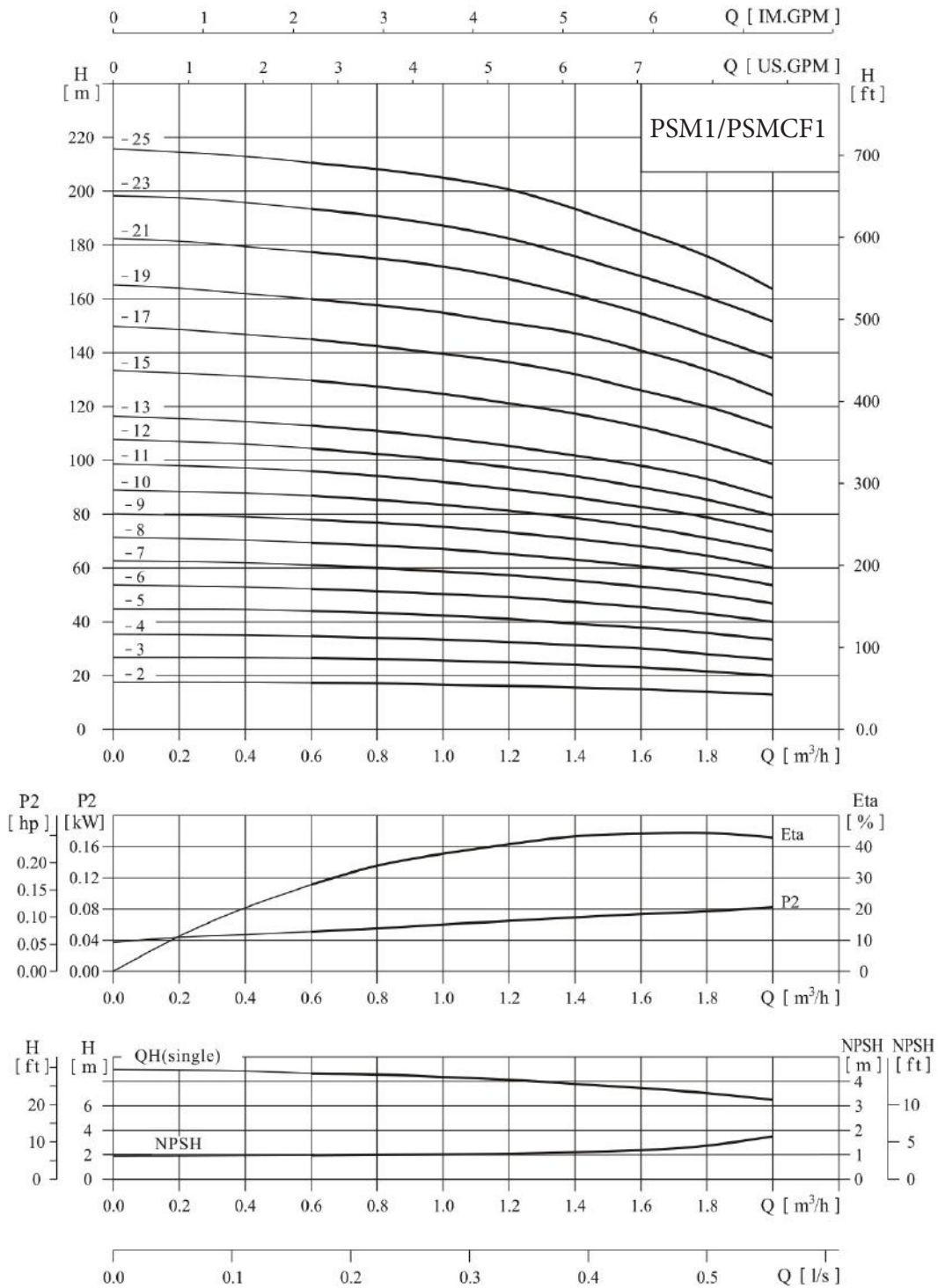
● Material PSM/PSMCF 20,150,200

| NO. | Name | Material | AISI/ASTM | NO. | Name | Material | AISI/ASTM |
|-----|------------------|-----------------|---------------|-------|--------------------------|------------------|---------------|
| 1 | Bracket | Cast iron | ASTM25B | 13 | Bearing | Tungsten carbide | |
| 3 | Mechanical seal | | | 14 | Cylinder | Stainless steel | AISI304 |
| 4 | Discharge | Stainless steel | AISI304 | 15 | Coupling | Carbon steel | |
| 5 | Support diffuser | Stainless steel | AISI304 | | Rubber parts | NBR | |
| 6 | Diffuser | Stainless steel | AISI304 | PSM | | | |
| 7 | Inducer | Stainless steel | AISI304 | 2 | Pump head | Cast iron | ASTM 80-55-06 |
| 9 | Base plate | Cast iron | ASTM 80-55-06 | 8 | Inlet and outlet chamber | Cast iron | ASTM 80-55-06 |
| 11 | Impeller | Stainless steel | AISI304 | PSMCF | | | |
| 12 | Shaft | Stainless steel | AISI304 | 2 | Pump head | Stainless steel | AISI304 |
| | | | | 8 | Inlet and outlet chamber | Stainless steel | AISI304 |

FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA

● Performance curve

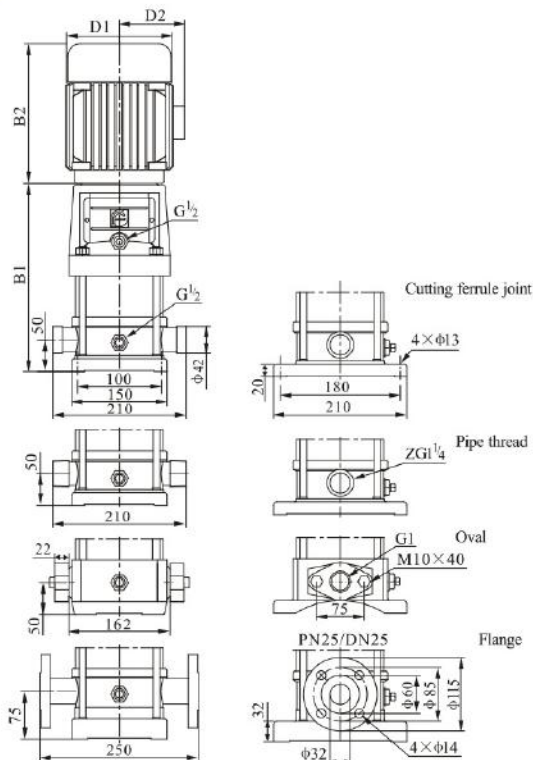
ISO9906 Annex A 3500rpm



Performance table

| Model | Driving motor | | Q (m ³ /h) | 0.6 | 0.8 | 1 | 1.2 | 1.4 | 1.6 | 1.8 | 2 |
|------------------|---------------|------|--------------------------|------|-----|------|-----|------|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | | |
| P S M 1 | 2 | 0.37 | 0.5 | 17.5 | 17 | 16.5 | 16 | 15.5 | 15 | 14 | 13 |
| | 3 | 0.37 | 0.5 | 26.5 | 26 | 25 | 24 | 23 | 22 | 21 | 20 |
| | 4 | 0.37 | 0.5 | 35 | 34 | 33 | 32 | 31 | 30 | 28 | 26 |
| | 5 | 0.55 | 0.75 | 43 | 42 | 41 | 40 | 39 | 38 | 35 | 33 |
| | 6 | 0.55 | 0.75 | 52 | 51 | 50 | 48 | 47 | 45 | 43 | 39 |
| | 7 | 0.75 | 1 | 60 | 59 | 58 | 56 | 55 | 52 | 50 | 46 |
| | 8 | 0.75 | 1 | 68 | 67 | 65 | 64 | 62 | 59 | 57 | 53 |
| | 9 | 0.75 | 1 | 76 | 75 | 74 | 73 | 71 | 66 | 64 | 60 |
| | 10 | 1.1 | 1.5 | 85 | 84 | 83 | 81 | 78 | 74 | 72 | 67 |
| | 11 | 1.1 | 1.5 | 95 | 93 | 90 | 87 | 85 | 81 | 78 | 73 |
| | 12 | 1.1 | 1.5 | 103 | 102 | 98 | 96 | 92 | 88 | 86 | 79 |
| | 13 | 1.1 | 1.5 | 112 | 110 | 107 | 105 | 100 | 95 | 93 | 86 |
| | 15 | 1.5 | 2 | 127 | 125 | 123 | 121 | 117 | 112 | 107 | 99 |
| | 17 | 1.5 | 2 | 144 | 141 | 139 | 137 | 132 | 124 | 120 | 112 |
| | 19 | 2.2 | 3 | 160 | 157 | 155 | 153 | 147 | 141 | 134 | 124 |
| | 21 | 2.2 | 3 | 177 | 174 | 172 | 168 | 162 | 153 | 147 | 138 |
| | 23 | 2.2 | 3 | 193 | 190 | 188 | 184 | 174 | 167 | 161 | 152 |
| | 25 | 3 | 4 | 210 | 207 | 205 | 202 | 192 | 184 | 176 | 164 |

Installation sketch



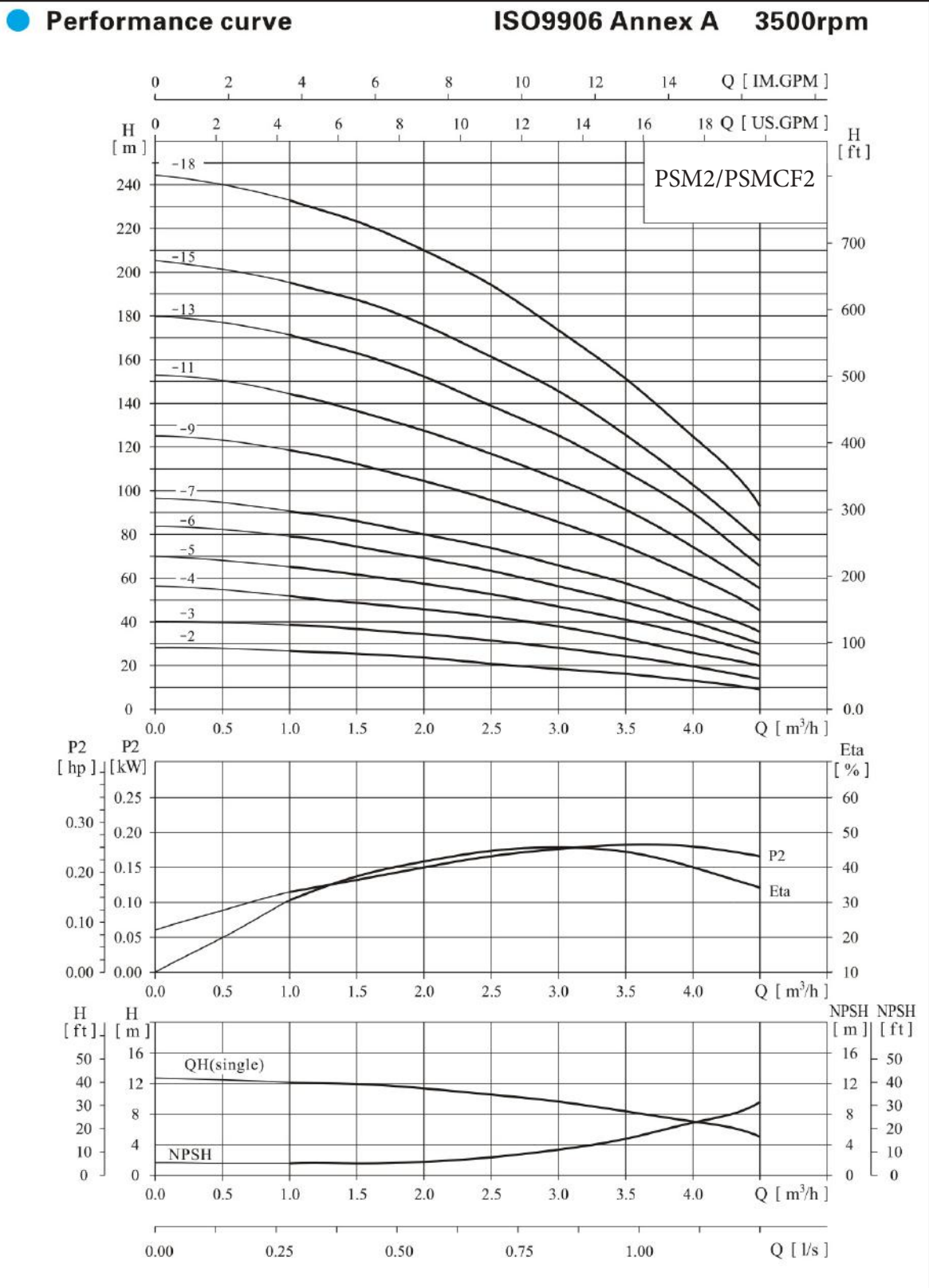
PSM1-19 ~ 1-25 sub-connection of pipeline has no oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|------------------|-----------|-----|-------|------|-----|-------------|----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 1 | 2 | 258 | 210 | 468 | 148 | 117 | 20 |
| | 3 | 276 | 210 | 486 | 148 | 117 | 20 |
| | 4 | 294 | 210 | 504 | 148 | 117 | 21 |
| | 5 | 312 | 210 | 522 | 148 | 117 | 22 |
| | 6 | 330 | 210 | 540 | 148 | 117 | 23 |
| | 7 | 358 | 245 | 603 | 170 | 142 | 26 |
| | 8 | 376 | 245 | 621 | 170 | 142 | 27 |
| | 9 | 394 | 245 | 639 | 170 | 142 | 28 |
| | 10 | 412 | 245 | 657 | 170 | 142 | 29 |
| | 11 | 430 | 245 | 675 | 170 | 142 | 29 |
| | 12 | 448 | 245 | 693 | 170 | 142 | 30 |
| | 13 | 466 | 245 | 711 | 170 | 142 | 31 |
| | 15 | 512 | 290 | 802 | 190 | 155 | 37 |
| | 17 | 548 | 290 | 838 | 190 | 155 | 38 |
| | 19 | 584 | 290 | 874 | 190 | 155 | 41 |
| | 21 | 620 | 290 | 910 | 190 | 155 | 42 |
| | 23 | 656 | 290 | 946 | 190 | 155 | 43 |
| | 25 | 702 | 315 | 1017 | 197 | 165 | 51 |

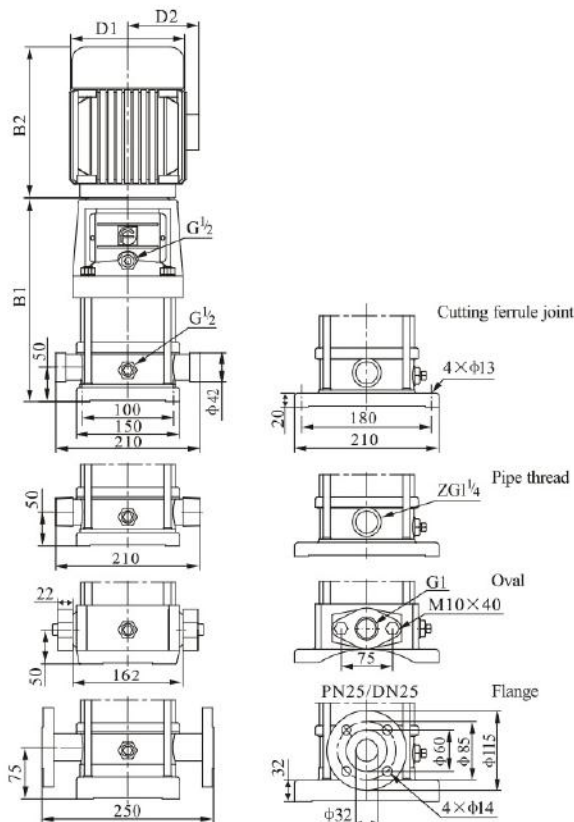
FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA



Performance table

| Model | Driving motor | | Q (m ³ /h) | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 |
|------------------|---------------|------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | | |
| P S M 2 | 2 | 0.55 | H (m) | 26 | 24 | 22 | 21 | 18 | 16 | 12 | 9 |
| | 3 | 0.75 | | 39 | 36 | 33 | 31 | 27 | 24 | 19 | 15 |
| | 4 | 1.1 | | 52 | 48 | 45 | 42 | 36 | 32 | 26 | 20 |
| | 5 | 1.1 | | 65 | 60 | 57 | 52 | 46 | 41 | 32 | 25 |
| | 6 | 1.1 | | 78 | 74 | 69 | 63 | 56 | 49 | 40 | 30 |
| | 7 | 1.5 | | 91 | 86 | 81 | 74 | 66 | 57 | 47 | 35 |
| | 9 | 2.2 | | 117 | 111 | 104 | 95 | 86 | 75 | 61 | 45 |
| | 11 | 2.2 | | 143 | 136 | 128 | 116 | 104 | 90 | 75 | 56 |
| | 13 | 3 | | 171 | 163 | 152 | 139 | 126 | 108 | 90 | 66 |
| | 15 | 3 | | 195 | 186 | 176 | 160 | 142 | 125 | 103 | 77 |
| 18 | 4 | 234 | 228 | 212 | 195 | 171 | 151 | 126 | 94 | | |

Installation sketch



Size and weight

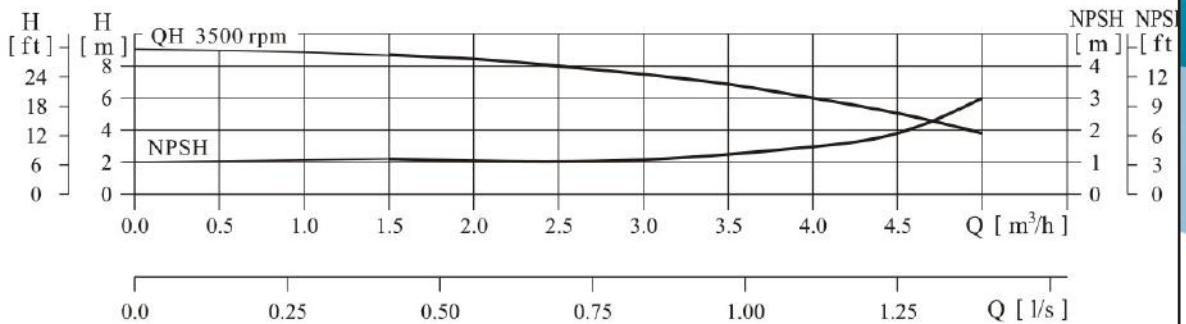
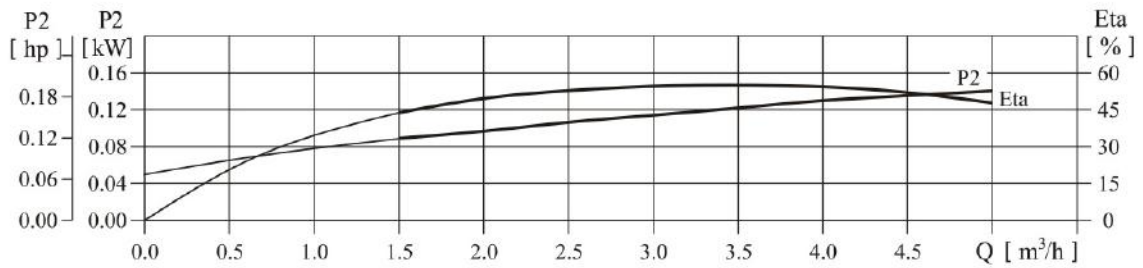
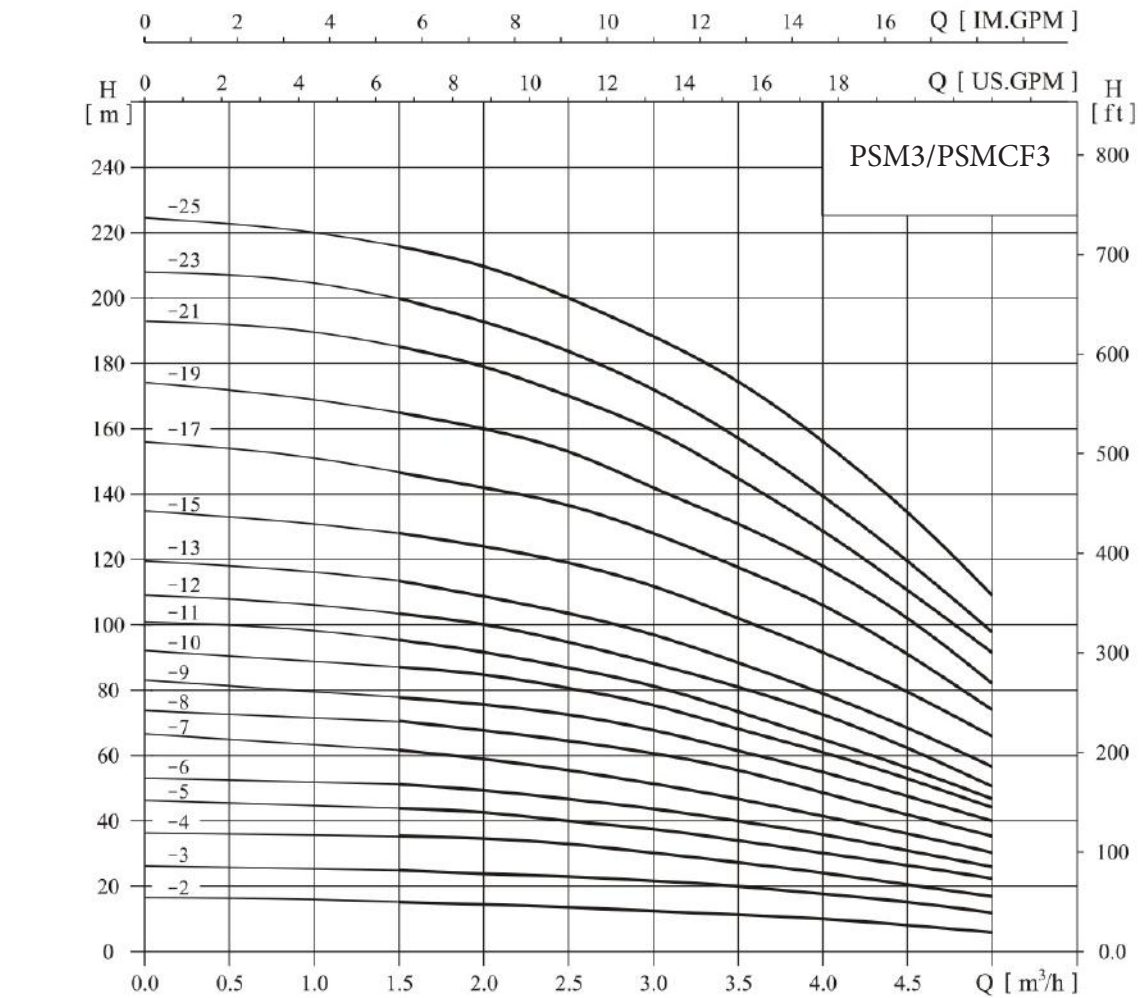
| Model | Size (mm) | | | | | Weight (kg) | |
|------------------|-----------|-----|-------|-----|-----|----------------|----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 2 | 2 | 258 | 210 | 468 | 148 | 117 | 21 |
| | 3 | 286 | 245 | 531 | 170 | 142 | 24 |
| | 4 | 304 | 245 | 549 | 170 | 142 | 25 |
| | 5 | 322 | 245 | 567 | 170 | 142 | 26 |
| | 6 | 340 | 245 | 585 | 170 | 142 | 26 |
| | 7 | 368 | 290 | 658 | 190 | 155 | 32 |
| | 9 | 404 | 290 | 694 | 190 | 155 | 36 |
| | 11 | 440 | 290 | 730 | 190 | 155 | 37 |
| | 13 | 486 | 315 | 801 | 197 | 165 | 44 |
| | 15 | 522 | 315 | 837 | 197 | 165 | 45 |
| 18 | 576 | 335 | 911 | 230 | 188 | 54 | |

PSM2-13 ~ 2-18 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA

● Performance curve

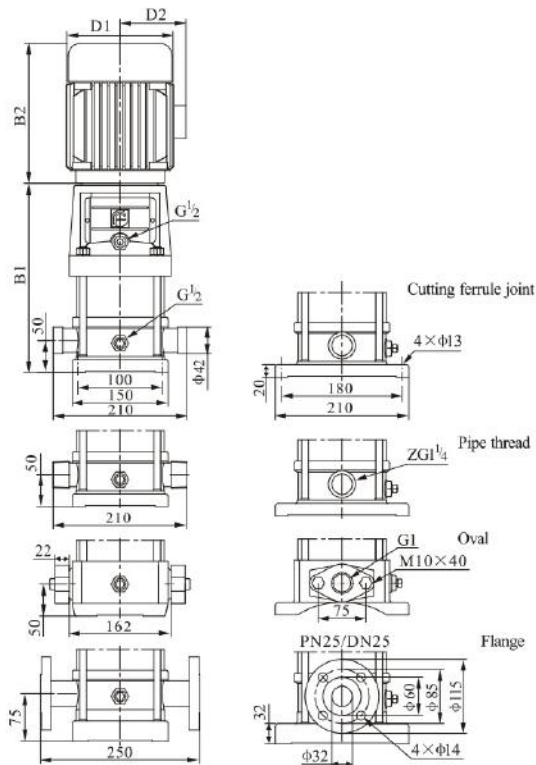
ISO9906 Annex A 3500rpm



● Performance table

| Model | Driving motor | | Q (m ³ /h) | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 |
|------------------|---------------|------|--------------------------|------|-----|-----|-----|-----|-----|-----|----|
| | (kW) | (hp) | | | | | | | | | |
| P S M 3 | 2 | 0.37 | 0.5 | 17.5 | 16 | 15 | 14 | 13 | 11 | 9 | 8 |
| | 3 | 0.55 | 0.75 | 26.5 | 25 | 24 | 23 | 20 | 18 | 15 | 12 |
| | 4 | 0.55 | 0.75 | 35 | 34 | 32 | 30 | 27 | 25 | 20 | 17 |
| | 5 | 0.75 | 1 | 44 | 42 | 40 | 38 | 33 | 31 | 26 | 23 |
| | 6 | 1.1 | 1.5 | 51 | 50 | 48 | 45 | 40 | 37 | 32 | 27 |
| | 7 | 1.1 | 1.5 | 61 | 59 | 56 | 52 | 46 | 43 | 38 | 31 |
| | 8 | 1.1 | 1.5 | 70 | 67 | 64 | 61 | 53 | 49 | 44 | 35 |
| | 9 | 1.5 | 2 | 78 | 77 | 72 | 68 | 60 | 56 | 50 | 40 |
| | 10 | 1.5 | 2 | 87 | 84 | 81 | 76 | 68 | 63 | 55 | 44 |
| | 11 | 1.5 | 2 | 96 | 92 | 87 | 82 | 74 | 69 | 59 | 48 |
| | 12 | 2.2 | 3 | 104 | 100 | 96 | 90 | 79 | 73 | 63 | 52 |
| | 13 | 2.2 | 3 | 112 | 109 | 104 | 98 | 86 | 80 | 69 | 57 |
| | 15 | 2.2 | 3 | 129 | 126 | 120 | 112 | 99 | 93 | 81 | 65 |
| | 17 | 2.2 | 3 | 147 | 143 | 137 | 128 | 114 | 106 | 91 | 74 |
| | 19 | 3 | 4 | 165 | 160 | 153 | 142 | 126 | 118 | 102 | 82 |
| 21 | 3 | 4 | 183 | 178 | 170 | 160 | 141 | 129 | 112 | 91 | |
| 23 | 3 | 4 | 200 | 194 | 185 | 174 | 154 | 142 | 122 | 98 | |
| 25 | 4 | 5.5 | 217 | 211 | 202 | 187 | 167 | 154 | 134 | 108 | |

● Installation sketch



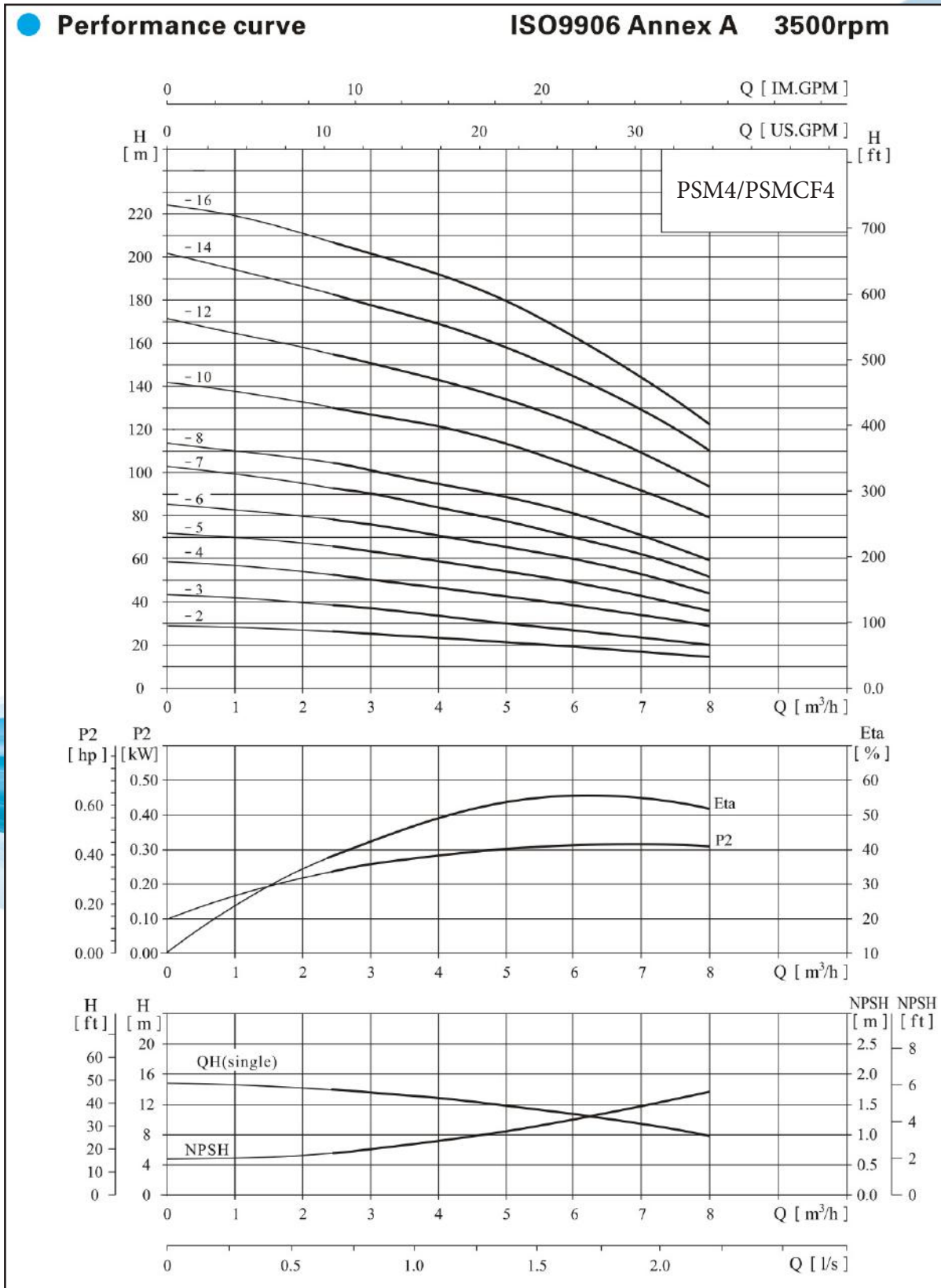
PSM3-17 ~ 3-25 sub-connection of pipeline has no oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

● Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|------------------|-----------|-----|-------|-----|-----|-------------|----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 3 | 2 | 258 | 210 | 468 | 148 | 117 | 20 |
| | 3 | 276 | 210 | 486 | 148 | 117 | 21 |
| | 4 | 294 | 210 | 504 | 148 | 117 | 22 |
| | 5 | 322 | 245 | 567 | 170 | 142 | 25 |
| | 6 | 340 | 245 | 585 | 170 | 142 | 26 |
| | 7 | 358 | 245 | 603 | 170 | 142 | 27 |
| | 8 | 376 | 245 | 621 | 170 | 142 | 27 |
| | 9 | 404 | 290 | 694 | 190 | 155 | 33 |
| | 10 | 422 | 290 | 712 | 190 | 155 | 34 |
| | 11 | 440 | 290 | 730 | 190 | 155 | 34 |
| | 12 | 458 | 290 | 748 | 190 | 155 | 37 |
| | 13 | 476 | 290 | 766 | 190 | 155 | 38 |
| | 15 | 512 | 290 | 802 | 190 | 155 | 39 |
| | 17 | 548 | 290 | 838 | 190 | 155 | 40 |
| | 19 | 594 | 315 | 909 | 197 | 165 | 48 |
| 21 | 630 | 315 | 945 | 197 | 165 | 49 | |
| 23 | 666 | 315 | 981 | 197 | 165 | 50 | |
| 25 | 702 | 335 | 1037 | 230 | 188 | 58 | |

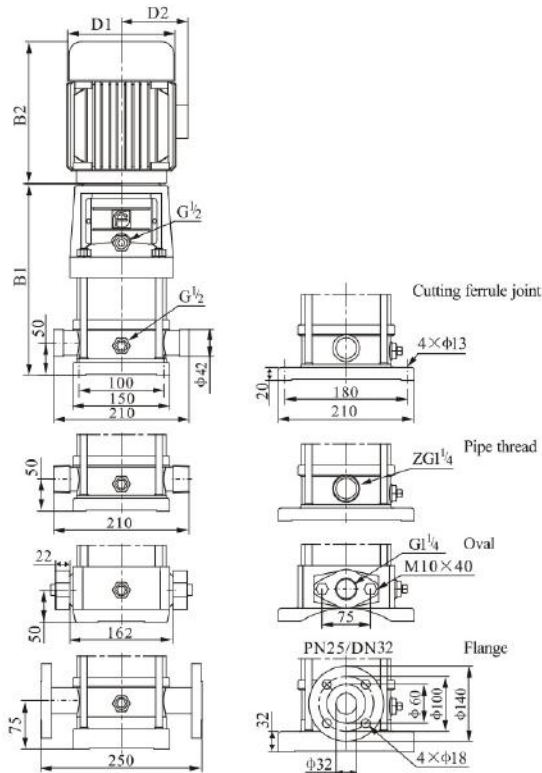
FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA



● Performance table

| Model | Driving motor | | Q (m ³ /h) | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | |
|------------------|---------------|------|--------------------------|----------|-----|-----|-----|-----|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | | |
| P S M 4 | 2 | 0.75 | 1 | H (m) | 26 | 25 | 23 | 21 | 19 | 16 | 14 |
| | 3 | 1.1 | 1.5 | | 39 | 38 | 36 | 32 | 28 | 24 | 21 |
| | 4 | 1.5 | 2 | | 52 | 50 | 48 | 44 | 38 | 35 | 31 |
| | 5 | 2.2 | 3 | | 65 | 62 | 60 | 55 | 49 | 44 | 39 |
| | 6 | 2.2 | 3 | | 78 | 75 | 72 | 67 | 59 | 54 | 47 |
| | 7 | 3 | 4 | | 92 | 88 | 84 | 78 | 69 | 62 | 55 |
| | 8 | 3 | 4 | | 104 | 100 | 95 | 90 | 79 | 72 | 63 |
| | 10 | 4 | 5.5 | | 130 | 125 | 120 | 113 | 102 | 90 | 80 |
| | 12 | 4 | 5.5 | | 156 | 150 | 145 | 136 | 122 | 109 | 96 |
| | 14 | 5.5 | 7.5 | | 182 | 176 | 170 | 159 | 145 | 129 | 112 |
| | 16 | 5.5 | 7.5 | | 207 | 201 | 196 | 183 | 165 | 146 | 128 |

● Installation sketch



● Size and weight

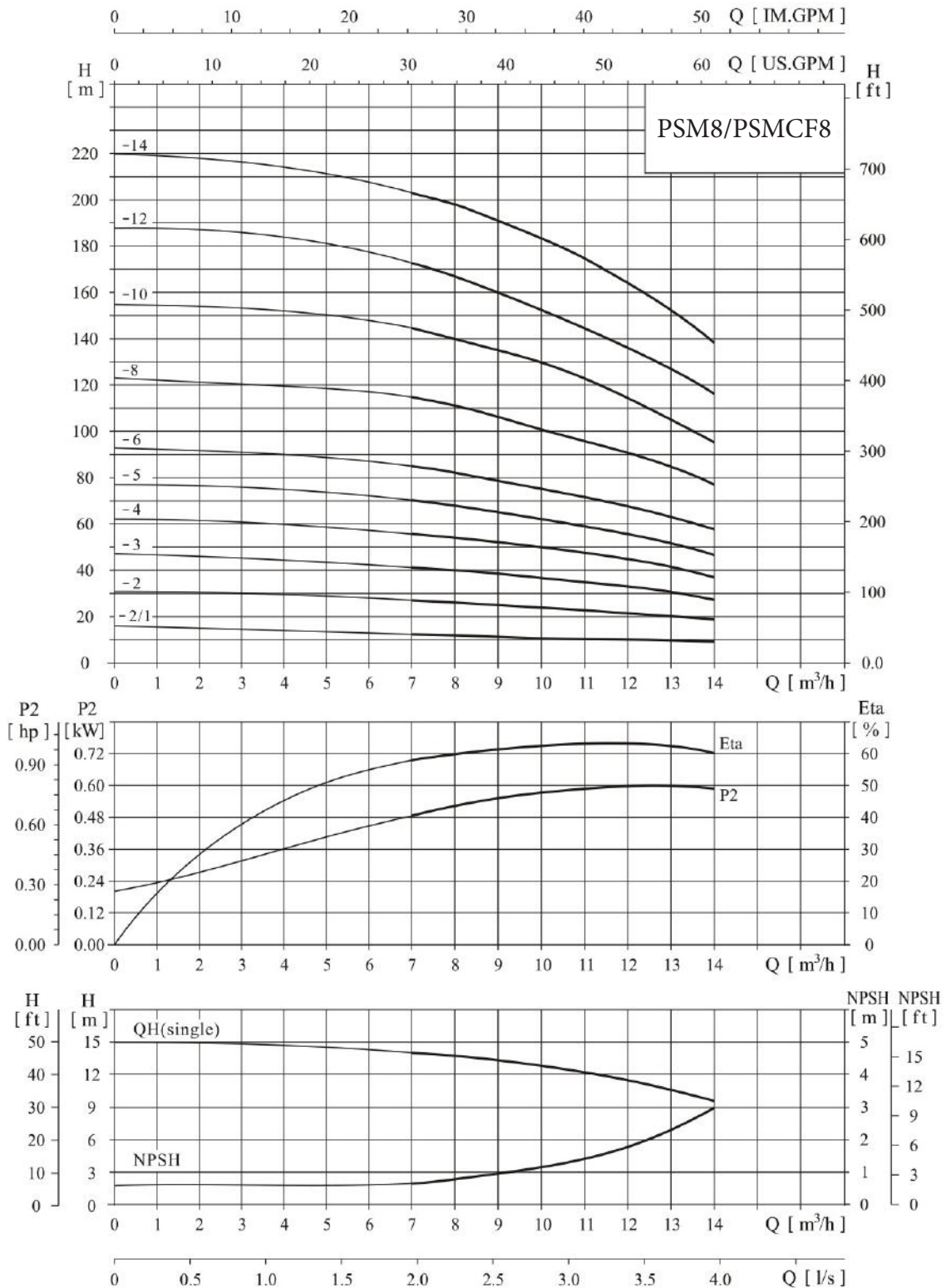
| Model | Size (mm) | | | | | Weight (kg) | |
|------------------|-----------|-----|-------|------|-----|----------------|----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 4 | 2 | 286 | 245 | 531 | 170 | 142 | 24 |
| | 3 | 313 | 245 | 558 | 170 | 142 | 25 |
| | 4 | 350 | 290 | 640 | 190 | 155 | 31 |
| | 5 | 376 | 290 | 667 | 190 | 155 | 34 |
| | 6 | 404 | 290 | 694 | 190 | 155 | 35 |
| | 7 | 441 | 315 | 756 | 197 | 165 | 42 |
| | 8 | 468 | 315 | 783 | 197 | 165 | 42 |
| | 10 | 522 | 335 | 857 | 230 | 188 | 51 |
| | 12 | 576 | 335 | 911 | 230 | 188 | 52 |
| | 14 | 650 | 430 | 1080 | 260 | 208 | 64 |
| | 16 | 704 | 430 | 1134 | 260 | 208 | 66 |

PSM4-12 ~ 4-16 sub-connection of pipeline has no oval flange connection.
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA

Performance curve

ISO9906 Annex A 3500rpm

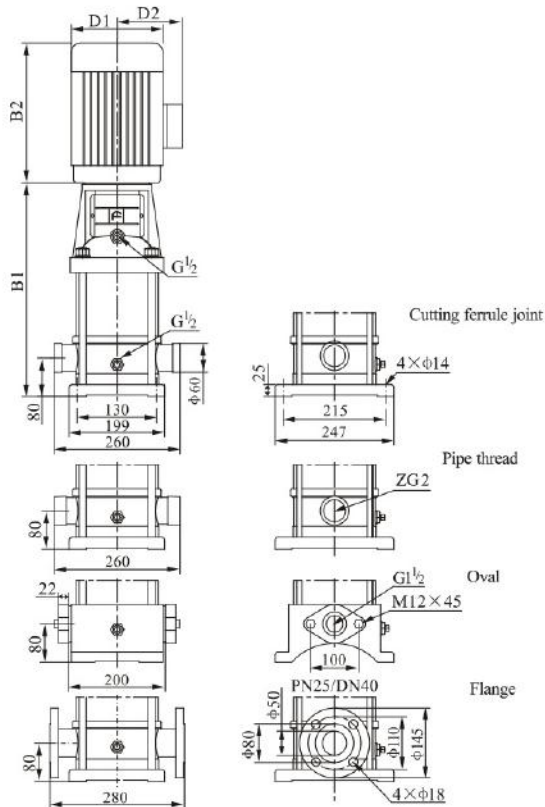


FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA

Performance table

| Model | Driving motor | | Q (m ³ /h) | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------------------|---------------|------|--------------------------|-----|-----|------|-----|------|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | | |
| P S M 8 | 2/1 | 0.75 | 1 | 13 | 12 | 11.5 | 11 | 10.5 | 10 | 9.5 | 9 |
| | 2 | 1.5 | 2 | 27 | 26 | 25 | 24 | 23 | 22 | 20 | 18 |
| | 3 | 2.2 | 3 | 41 | 40 | 38 | 37 | 35 | 33 | 30 | 28 |
| | 4 | 3 | 4 | 55 | 54 | 52 | 50 | 47 | 45 | 41 | 38 |
| | 5 | 3 | 4 | 70 | 68 | 65 | 63 | 59 | 56 | 52 | 47 |
| | 6 | 4 | 5.5 | 85 | 82 | 78 | 76 | 72 | 68 | 62 | 57 |
| | 8 | 5.5 | 7.5 | 115 | 110 | 105 | 101 | 97 | 91 | 84 | 75 |
| | 10 | 7.5 | 10 | 145 | 140 | 132 | 126 | 122 | 115 | 105 | 95 |
| | 12 | 7.5 | 10 | 173 | 167 | 160 | 152 | 147 | 132 | 125 | 115 |
| | 14 | 11 | 15 | 202 | 195 | 188 | 179 | 174 | 163 | 147 | 135 |

Installation sketch



Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|------------------|-----------|-----|-------|------|-----|-------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 8 | 2/1 | 347 | 245 | 592 | 170 | 142 | 32 |
| | 2 | 357 | 290 | 647 | 190 | 155 | 38 |
| | 3 | 387 | 290 | 677 | 190 | 155 | 41 |
| | 4 | 427 | 315 | 742 | 197 | 165 | 49 |
| | 5 | 457 | 315 | 772 | 197 | 165 | 50 |
| | 6 | 487 | 335 | 822 | 230 | 188 | 58 |
| | 8 | 567 | 430 | 997 | 260 | 208 | 71 |
| | 10 | 627 | 430 | 1057 | 260 | 208 | 80 |
| | 12 | 687 | 430 | 1117 | 260 | 208 | 82 |
| | 14 | 835 | 490 | 1325 | 330 | 255 | 153 |

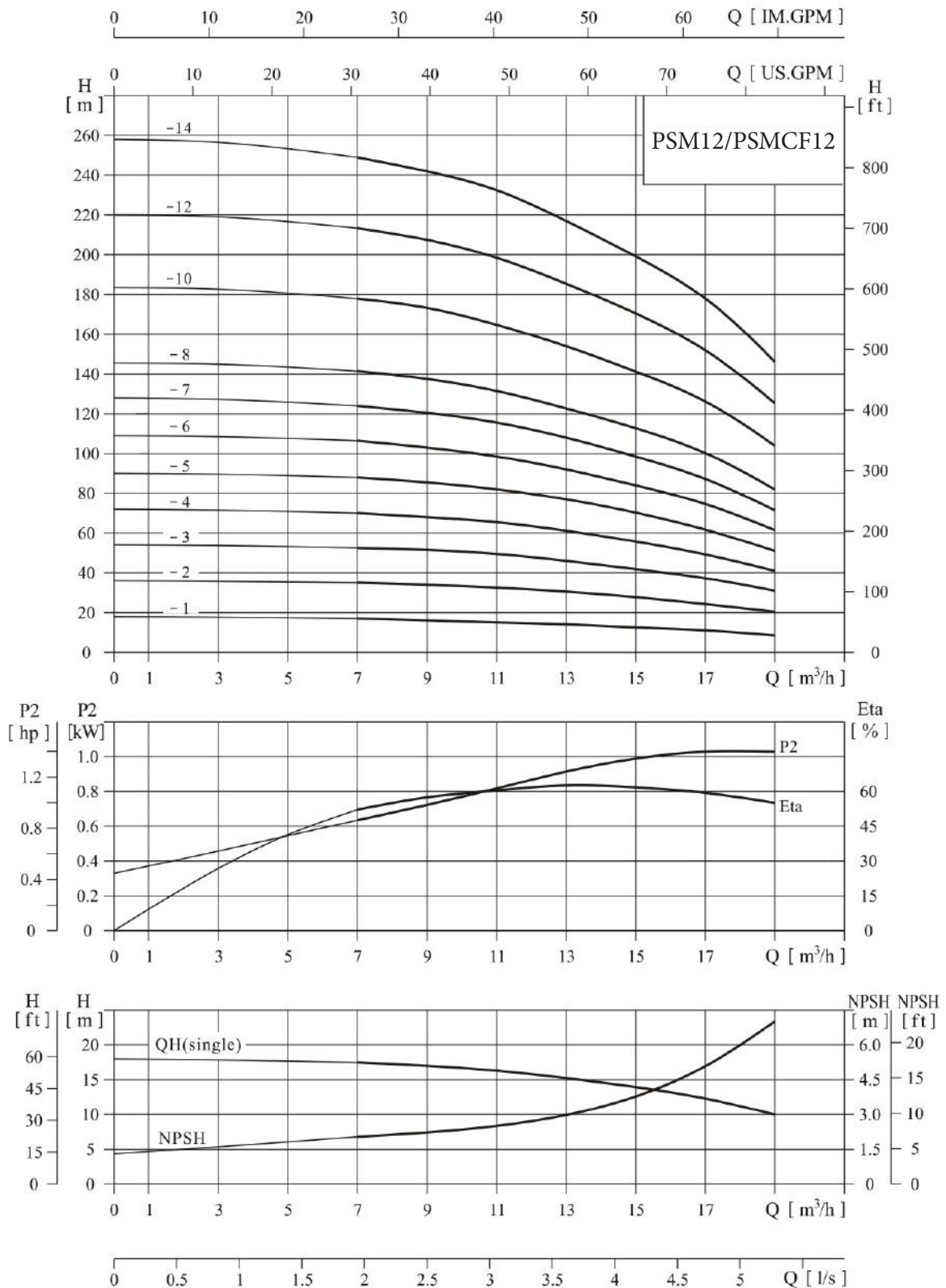
PSM8-10 ~ 8-14 sub-connection of pipeline has no oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA

Performance curve

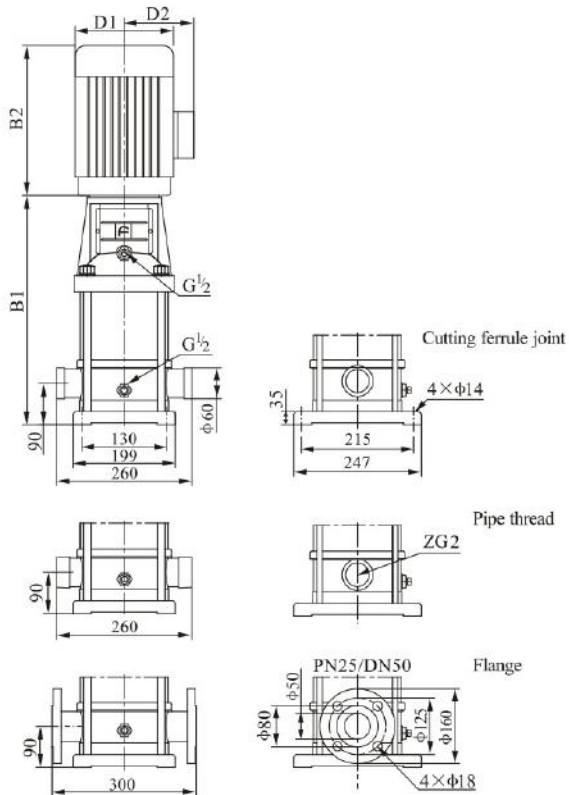
ISO9906 Annex A 3500rpm



● Performance table

| Model | Driving motor | | Q (m ³ /h) | 7 | 9 | 11 | 12 | 13 | 15 | 17 | 19 |
|-------------------|---------------|------|--------------------------|------|------|------|------|------|------|------|------|
| | (kW) | (hp) | | | | | | | | | |
| P S M 12 | 1 | 1.1 | 1.5 | 17 | 16 | 15 | 14.5 | 14 | 12.5 | 11 | 8.5 |
| | 2 | 2.2 | 3 | 35 | 34 | 32.5 | 32 | 30.5 | 27 | 24.5 | 20.5 |
| | 3 | 4 | 5.5 | 52.5 | 51.5 | 50 | 48 | 46 | 41.5 | 37.5 | 31 |
| | 4 | 5.5 | 7.5 | 70 | 68 | 65.5 | 64 | 61.5 | 55 | 49.5 | 41 |
| | 5 | 5.5 | 7.5 | 88 | 86 | 82 | 80 | 77 | 70 | 62 | 51 |
| | 6 | 7.5 | 10 | 107 | 103 | 99 | 96 | 92 | 84 | 75 | 61 |
| | 7 | 7.5 | 10 | 124 | 121 | 116 | 112 | 107 | 97 | 88 | 71 |
| | 8 | 11 | 15 | 141 | 137 | 132 | 128 | 122 | 111 | 101 | 82 |
| | 10 | 11 | 15 | 178 | 173 | 166 | 161 | 153 | 140 | 128 | 104 |
| | 12 | 15 | 20 | 213 | 208 | 199 | 193 | 185 | 169 | 154 | 125 |
| | 14 | 15 | 20 | 249 | 242 | 233 | 225 | 216 | 198 | 180 | 145 |

● Installation sketch



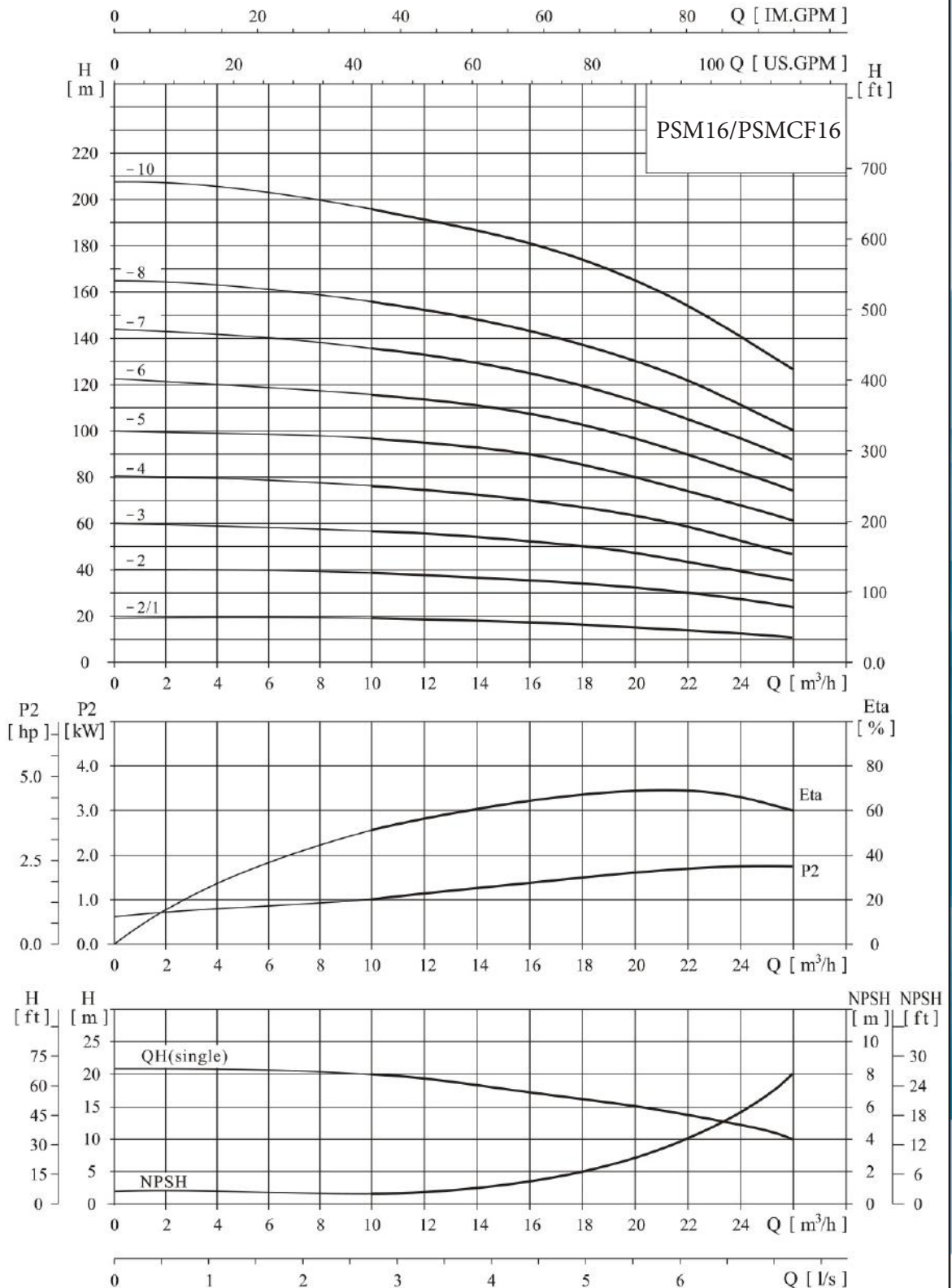
● Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|-------------------|-----------|-----|-------|------|-----|-------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 12 | 1 | 357 | 245 | 602 | 170 | 142 | 32 |
| | 2 | 367 | 290 | 657 | 190 | 155 | 41 |
| | 3 | 407 | 335 | 742 | 230 | 188 | 56 |
| | 4 | 457 | 430 | 887 | 260 | 208 | 69 |
| | 5 | 487 | 430 | 917 | 260 | 208 | 71 |
| | 6 | 517 | 430 | 947 | 260 | 208 | 77 |
| | 7 | 547 | 430 | 977 | 260 | 208 | 78 |
| | 8 | 665 | 490 | 1155 | 330 | 255 | 147 |
| | 10 | 725 | 490 | 1215 | 330 | 255 | 151 |
| | 12 | 785 | 490 | 1275 | 330 | 255 | 164 |
| | 14 | 845 | 490 | 1335 | 330 | 255 | 167 |

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

● Performance curve

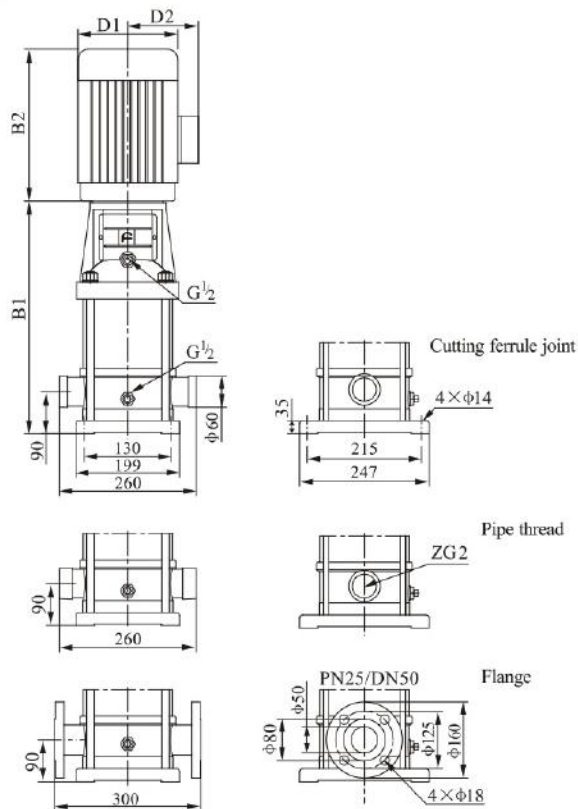
ISO9906 Annex A 3500rpm



Performance table

| Model | Driving motor | | Q (m ³ /h) | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | |
|-------------------|---------------|------|--------------------------|----------|-----|------|-----|-----|-----|-----|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | | | | |
| P S M 16 | 2/1 | 2.2 | 3 | H (m) | 19 | 18.5 | 18 | 17 | 16 | 15 | 14 | 13 | 11 |
| | 2 | 4 | 5.5 | | 38 | 37 | 36 | 35 | 34 | 32 | 30 | 27 | 24 |
| | 3 | 5.5 | 7.5 | | 57 | 56 | 55 | 54 | 51 | 48 | 45 | 40 | 36 |
| | 4 | 7.5 | 10 | | 76 | 75 | 73 | 72 | 68 | 64 | 60 | 54 | 49 |
| | 5 | 11 | 15 | | 96 | 94 | 92 | 90 | 85 | 80 | 75 | 68 | 62 |
| | 6 | 11 | 15 | | 115 | 113 | 111 | 108 | 102 | 96 | 91 | 82 | 75 |
| | 7 | 15 | 20 | | 135 | 132 | 129 | 126 | 119 | 113 | 106 | 96 | 88 |
| | 8 | 15 | 20 | | 155 | 152 | 148 | 144 | 137 | 130 | 122 | 111 | 101 |
| | 10 | 18.5 | 25 | | 197 | 192 | 187 | 181 | 174 | 165 | 153 | 139 | 127 |

Installation sketch



Size and weight

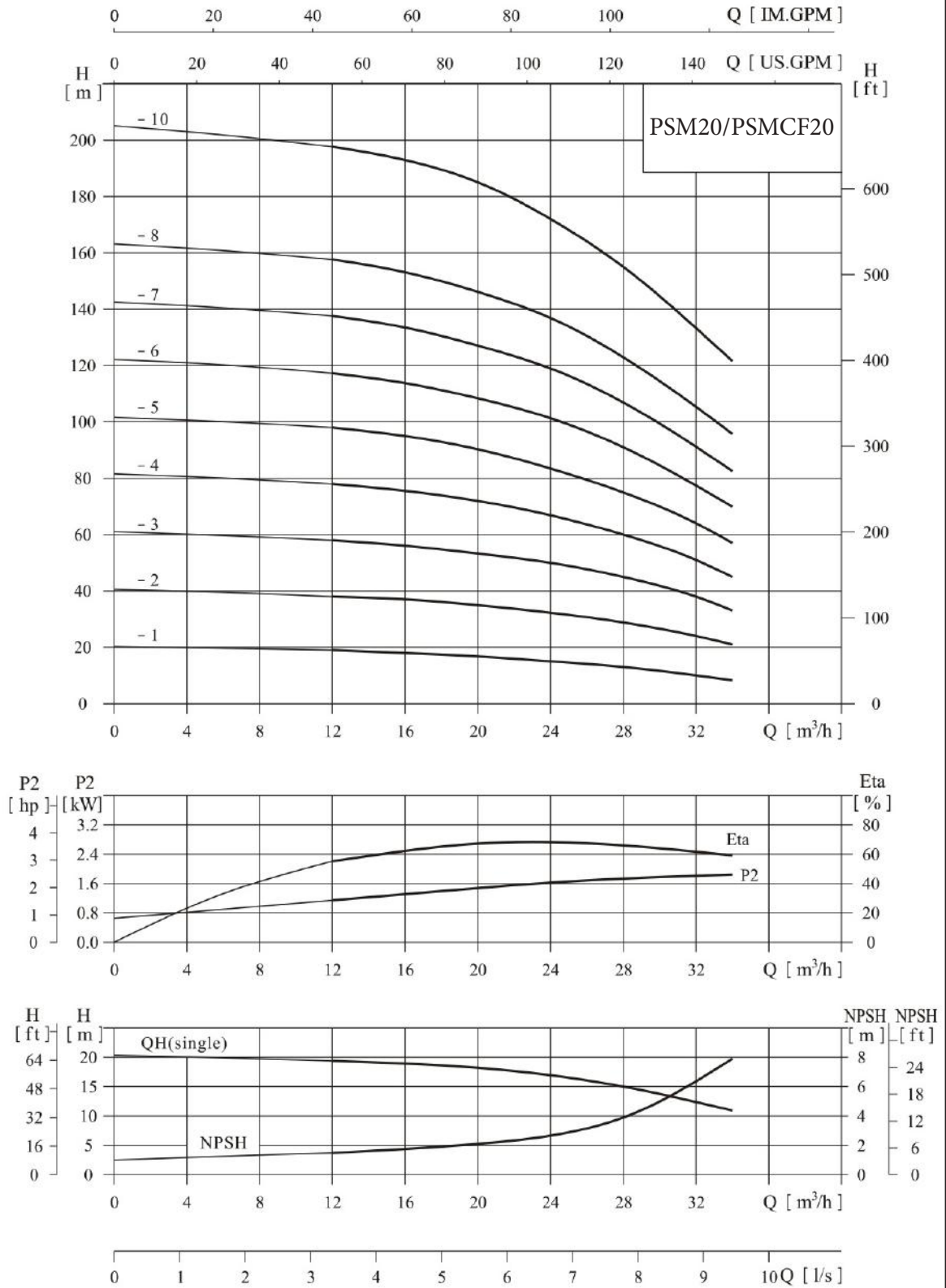
| Model | Size (mm) | | | | | Weight (kg) | |
|-------------------|-----------|-----|-------|------|-----|-------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 16 | 2/1 | 397 | 290 | 687 | 190 | 155 | 42 |
| | 2 | 407 | 335 | 742 | 230 | 188 | 56 |
| | 3 | 472 | 430 | 902 | 260 | 208 | 68 |
| | 4 | 517 | 430 | 947 | 260 | 208 | 75 |
| | 5 | 650 | 490 | 1140 | 330 | 255 | 148 |
| | 6 | 695 | 490 | 1185 | 330 | 255 | 150 |
| | 7 | 740 | 490 | 1230 | 330 | 255 | 161 |
| | 8 | 785 | 490 | 1275 | 330 | 255 | 163 |
| | 10 | 875 | 550 | 1425 | 330 | 255 | 186 |

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA

Performance curve

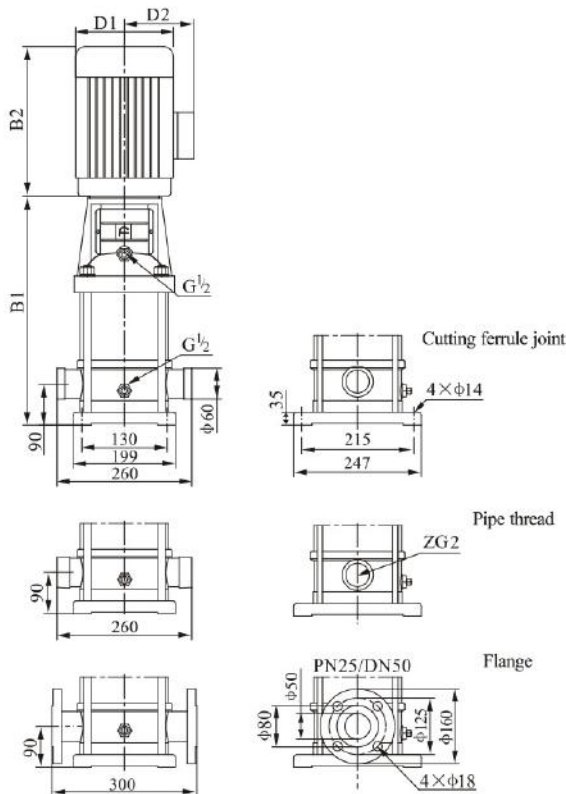
ISO9906 Annex A 3500rpm



● Performance table

| Model | Driving motor | | Q (m ³ /h) | 12 | 16 | 20 | 24 | 28 | 32 | 34 |
|-------------------|---------------|------|--------------------------|-----|-----|-----|-----|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | |
| P S M 20 | 1 | 2.2 | 3 | 19 | 18 | 17 | 15 | 13 | 10 | 8.5 |
| | 2 | 4.0 | 5.5 | 38 | 37 | 35 | 32 | 29 | 24 | 21 |
| | 3 | 5.5 | 7.5 | 58 | 56 | 53 | 50 | 45 | 38 | 33 |
| | 4 | 7.5 | 10 | 78 | 75 | 72 | 67 | 60 | 51 | 45 |
| | 5 | 11 | 15 | 98 | 94 | 90 | 85 | 75 | 64 | 57 |
| | 6 | 11 | 15 | 118 | 113 | 108 | 102 | 91 | 77 | 70 |
| | 7 | 15 | 20 | 138 | 133 | 127 | 119 | 107 | 91 | 83 |
| | 8 | 15 | 20 | 158 | 153 | 146 | 137 | 123 | 105 | 96 |
| | 10 | 18.5 | 25 | 198 | 193 | 185 | 172 | 155 | 133 | 122 |

● Installation sketch



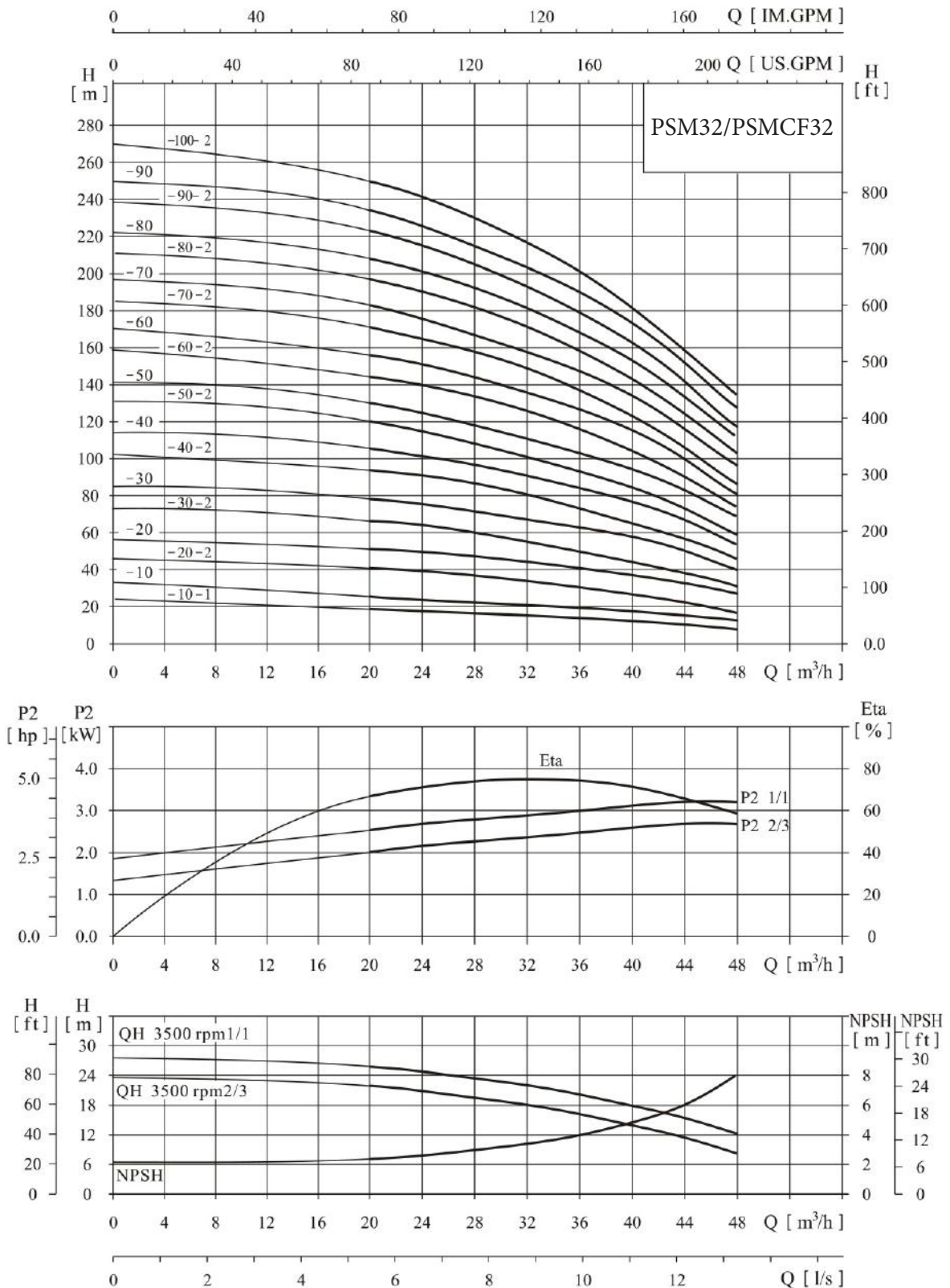
● Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|-------------------|-----------|-----|-------|------|-----|----------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 20 | 1 | 397 | 290 | 687 | 190 | 155 | 41 |
| | 2 | 407 | 335 | 742 | 230 | 188 | 56 |
| | 3 | 472 | 430 | 902 | 260 | 208 | 69 |
| | 4 | 517 | 430 | 947 | 260 | 208 | 79 |
| | 5 | 650 | 490 | 1140 | 330 | 255 | 148 |
| | 6 | 695 | 490 | 1185 | 330 | 255 | 150 |
| | 7 | 740 | 490 | 1230 | 330 | 255 | 162 |
| | 8 | 785 | 490 | 1275 | 330 | 255 | 163 |
| | 10 | 875 | 550 | 1425 | 330 | 255 | 187 |

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA

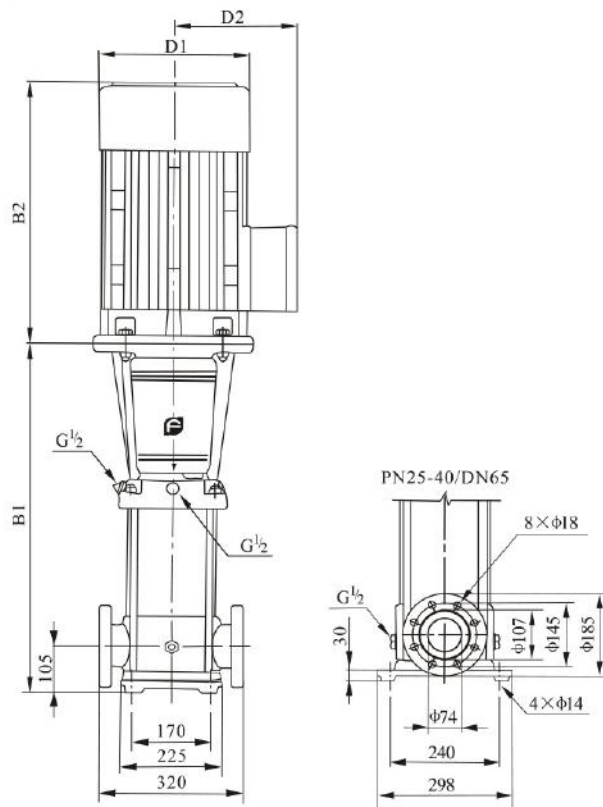
● Performance curve ISO9906 Annex A 3500rpm



Performance table

| Model | Driving motor | | Q (m ³ /h) | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
|-------------------|---------------|------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | | |
| P S M 32 | -10-1 | 3.0 | 4 | 20 | 19 | 18 | 17 | 15 | 13 | 10 | 7 |
| | -10 | 4.0 | 5.5 | 26 | 25 | 24 | 23 | 21 | 19 | 17 | 14 |
| | -20-2 | 5.5 | 7.5 | 41 | 40 | 38 | 35 | 31 | 27 | 22 | 17 |
| | -20 | 7.5 | 10 | 52 | 50 | 48 | 45 | 41 | 37 | 33 | 27 |
| | -30-2 | 7.5 | 10 | 67 | 64 | 61 | 57 | 52 | 46 | 39 | 31 |
| | -30 | 11 | 15 | 78 | 75 | 71 | 67 | 62 | 56 | 50 | 40 |
| | -40-2 | 11 | 15 | 94 | 91 | 87 | 81 | 73 | 65 | 56 | 45 |
| | -40 | 15 | 20 | 104 | 101 | 96 | 91 | 83 | 75 | 66 | 55 |
| | -50-2 | 15 | 20 | 119 | 115 | 109 | 102 | 94 | 84 | 73 | 59 |
| | -50 | 18.5 | 25 | 130 | 125 | 119 | 112 | 104 | 94 | 83 | 69 |
| | -60-2 | 18.5 | 25 | 145 | 140 | 134 | 126 | 116 | 104 | 90 | 74 |
| | -60 | 18.5 | 25 | 155 | 150 | 144 | 136 | 126 | 114 | 100 | 81 |
| | -70-2 | 22 | 30 | 172 | 166 | 158 | 149 | 137 | 123 | 106 | 86 |
| | -70 | 22 | 30 | 182 | 176 | 168 | 159 | 148 | 133 | 118 | 97 |
| | -80-2 | 22 | 30 | 196 | 190 | 182 | 172 | 159 | 143 | 124 | 102 |
| | -80 | 30 | 40 | 208 | 201 | 192 | 181 | 167 | 152 | 132 | 111 |
| | -90-2 | 30 | 40 | 223 | 216 | 206 | 194 | 179 | 162 | 142 | 117 |
| -90 | 30 | 40 | 234 | 226 | 216 | 204 | 189 | 172 | 152 | 127 | |
| -100-2 | 30 | 40 | 248 | 241 | 231 | 217 | 201 | 181 | 159 | 133 | |

Installation sketch

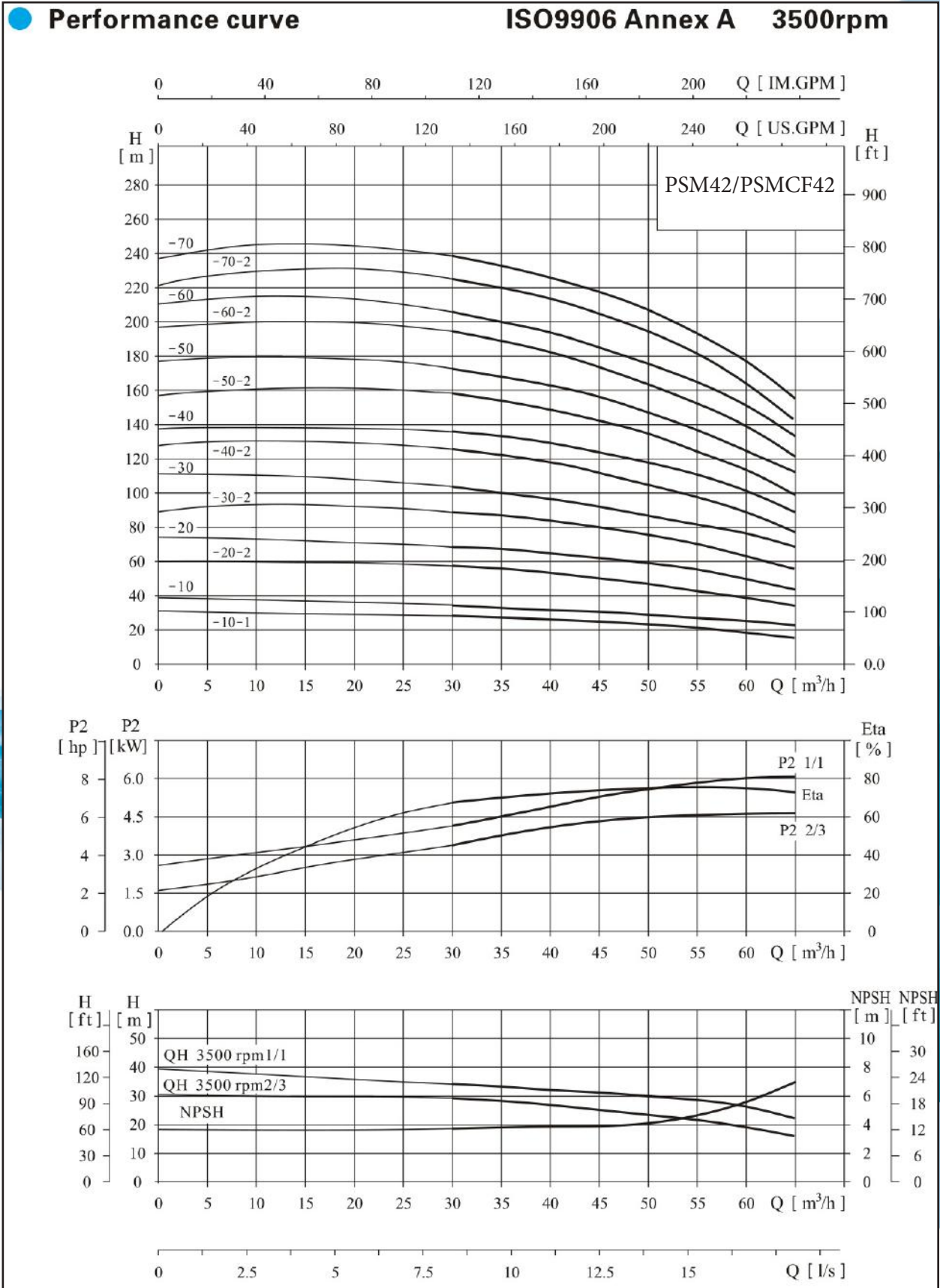


Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|-------------------|-----------|------|-------|------|-----|-------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| -10-1 | 505 | 315 | 820 | 197 | 165 | 73 | |
| -10 | 505 | 335 | 840 | 230 | 188 | 81 | |
| -20-2 | 575 | 430 | 1005 | 260 | 208 | 95 | |
| -20 | 575 | 430 | 1005 | 260 | 208 | 101 | |
| -30-2 | 645 | 490 | 1135 | 330 | 255 | 104 | |
| -30 | 750 | 490 | 1240 | 330 | 255 | 172 | |
| -40-2 | 820 | 490 | 1310 | 330 | 255 | 176 | |
| -40 | 820 | 490 | 1310 | 330 | 255 | 186 | |
| P S M 32 | -50-2 | 890 | 490 | 1380 | 330 | 255 | 191 |
| | -50 | 890 | 550 | 1440 | 330 | 255 | 211 |
| | -60-2 | 960 | 550 | 1510 | 330 | 255 | 216 |
| | -60 | 960 | 550 | 1510 | 330 | 255 | 216 |
| | -70-2 | 1030 | 590 | 1620 | 360 | 285 | 255 |
| | -70 | 1030 | 590 | 1620 | 360 | 285 | 255 |
| | -80-2 | 1100 | 590 | 1690 | 400 | 310 | 259 |
| | -80 | 1100 | 660 | 1760 | 400 | 310 | 315 |
| | -90-2 | 1170 | 660 | 1830 | 400 | 310 | 319 |
| | -90 | 1170 | 660 | 1830 | 400 | 310 | 319 |
| | -100-2 | 1240 | 660 | 1900 | 400 | 310 | 324 |

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.

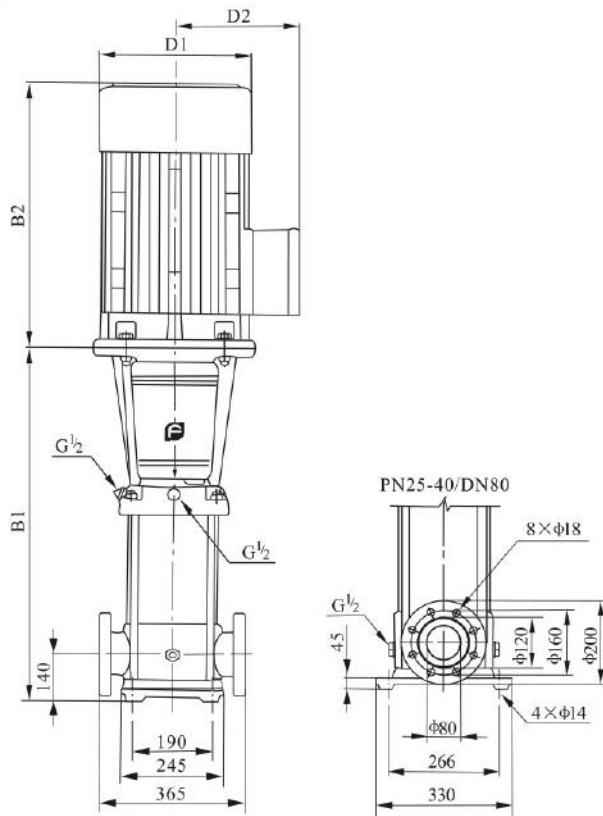
FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA



● Performance table

| Model | Driving motor | | Q (m ³ /h) | 30 | 35 | 40 | 42 | 45 | 50 | 55 | 60 | 65 |
|-------------------|---------------|------|--------------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | | | |
| P S M 42 | 10-1 | 5.5 | 7.5 | 29 | 28 | 27 | 26 | 25 | 23 | 21 | 19 | 16 |
| | 10 | 7.5 | 10 | 34 | 33 | 32 | 31.5 | 30 | 29 | 27 | 25 | 22 |
| | 20-2 | 11 | 15 | 57 | 55 | 53 | 52 | 49 | 46 | 43 | 38 | 33 |
| | 20 | 15 | 20 | 69 | 67 | 65 | 63 | 61 | 59 | 55 | 50 | 44 |
| | 30-2 | 18.5 | 25 | 90 | 88 | 85 | 83 | 80 | 75 | 72 | 63 | 55 |
| | 30 | 18.5 | 25 | 102 | 100 | 97 | 95 | 92 | 88 | 82 | 76 | 68 |
| | 40-2 | 22 | 30 | 125 | 121 | 118 | 115 | 112 | 105 | 98 | 89 | 78 |
| | 40 | 30 | 40 | 136 | 133 | 129 | 126 | 123 | 117 | 112 | 102 | 89 |
| | 50-2 | 30 | 40 | 159 | 154 | 149 | 146 | 142 | 134 | 121 | 115 | 99 |
| | 50 | 30 | 40 | 171 | 166 | 161 | 158 | 154 | 145 | 138 | 126 | 112 |
| | 60-2 | 37 | 50 | 194 | 188 | 182 | 178 | 173 | 163 | 155 | 139 | 122 |
| | 60 | 37 | 50 | 205 | 200 | 193 | 190 | 186 | 176 | 166 | 152 | 134 |
| | 70-2 | 45 | 60 | 227 | 220 | 213 | 210 | 205 | 193 | 182 | 165 | 144 |
| | 70 | 45 | 60 | 239 | 232 | 226 | 221 | 216 | 204 | 194 | 178 | 157 |

● Installation sketch



● Size and weight

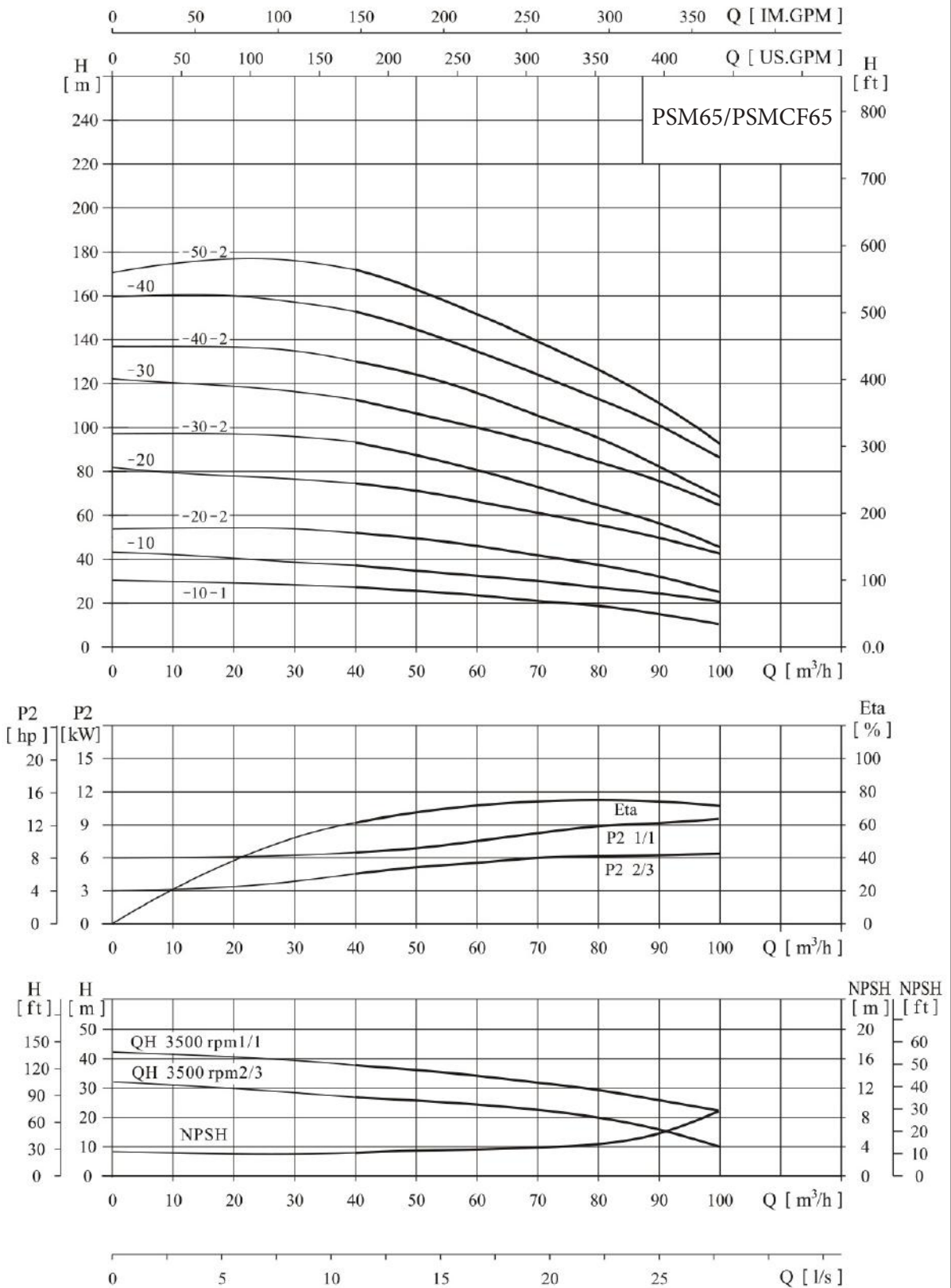
| Model | Size (mm) | | | | | Weight (kg) | |
|-------------------|-----------|------|-------|------|-----|-------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 42 | 10-1 | 561 | 430 | 992 | 260 | 208 | 101 |
| | 10 | 561 | 430 | 992 | 260 | 208 | 106 |
| | 20-2 | 748 | 490 | 1238 | 330 | 255 | 178 |
| | 20 | 748 | 490 | 1238 | 330 | 255 | 188 |
| | 30-2 | 828 | 550 | 1378 | 330 | 255 | 213 |
| | 30 | 828 | 550 | 1378 | 330 | 255 | 213 |
| | 40-2 | 908 | 590 | 1498 | 360 | 285 | 253 |
| | 40 | 908 | 660 | 1568 | 400 | 310 | 309 |
| | 50-2 | 988 | 660 | 1648 | 400 | 310 | 313 |
| | 50 | 988 | 660 | 1648 | 400 | 310 | 313 |
| | 60-2 | 1068 | 660 | 1728 | 400 | 310 | 340 |
| | 60 | 1068 | 660 | 1728 | 400 | 310 | 340 |
| | 70-2 | 1148 | 700 | 1848 | 460 | 340 | 404 |
| | 70 | 1148 | 700 | 1848 | 460 | 340 | 404 |

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.

FLO FAB'S SERIES PSM 60HZ - TECHNICAL DATA

Performance curve

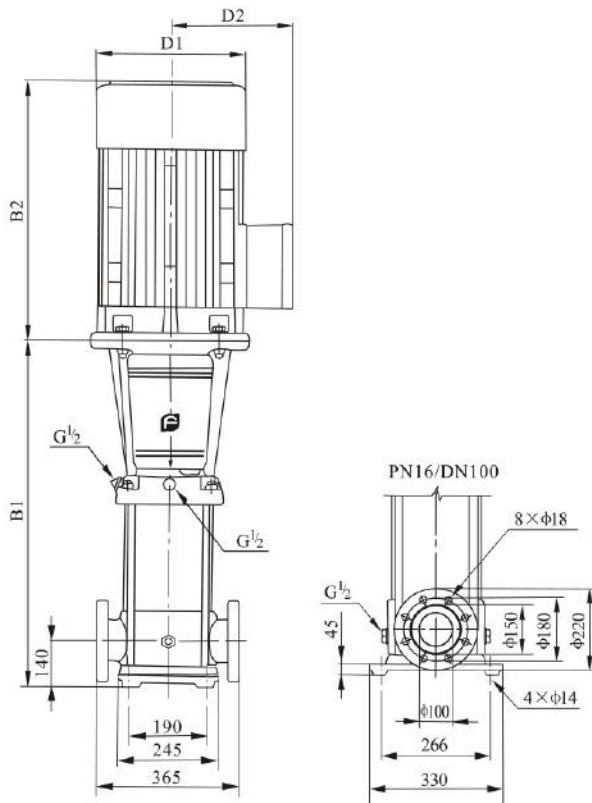
ISO9906 Annex A 3500rpm



● Performance table

| Model | Driving motor | | Q (m ³ /h) | 40 | 50 | 60 | 65 | 70 | 80 | 90 | 100 | |
|-------------------|---------------|------|--------------------------|----------|-----|-----|-----|-----|-----|-----|-----|----|
| | (kW) | (hp) | | | | | | | | | | |
| P S M 65 | 10-1 | 7.5 | 10 | H (m) | 26 | 25 | 23 | 22 | 21 | 18 | 14 | 10 |
| | 10 | 11 | 15 | | 37 | 35 | 33 | 32 | 31 | 28 | 24 | 21 |
| | 20-2 | 15 | 20 | | 53 | 50 | 47 | 44 | 42 | 37 | 31 | 23 |
| | 20 | 22 | 30 | | 74 | 72 | 67 | 64 | 62 | 57 | 51 | 42 |
| | 30-2 | 22 | 30 | | 93 | 88 | 80 | 76 | 72 | 65 | 56 | 45 |
| | 30 | 30 | 40 | | 112 | 108 | 100 | 96 | 93 | 86 | 77 | 65 |
| | 40-2 | 37 | 50 | | 130 | 124 | 115 | 110 | 103 | 94 | 83 | 66 |
| | 40 | 45 | 60 | | 152 | 144 | 135 | 130 | 123 | 114 | 102 | 86 |
| | 50-2 | 45 | 60 | | 172 | 162 | 151 | 144 | 137 | 126 | 112 | 91 |

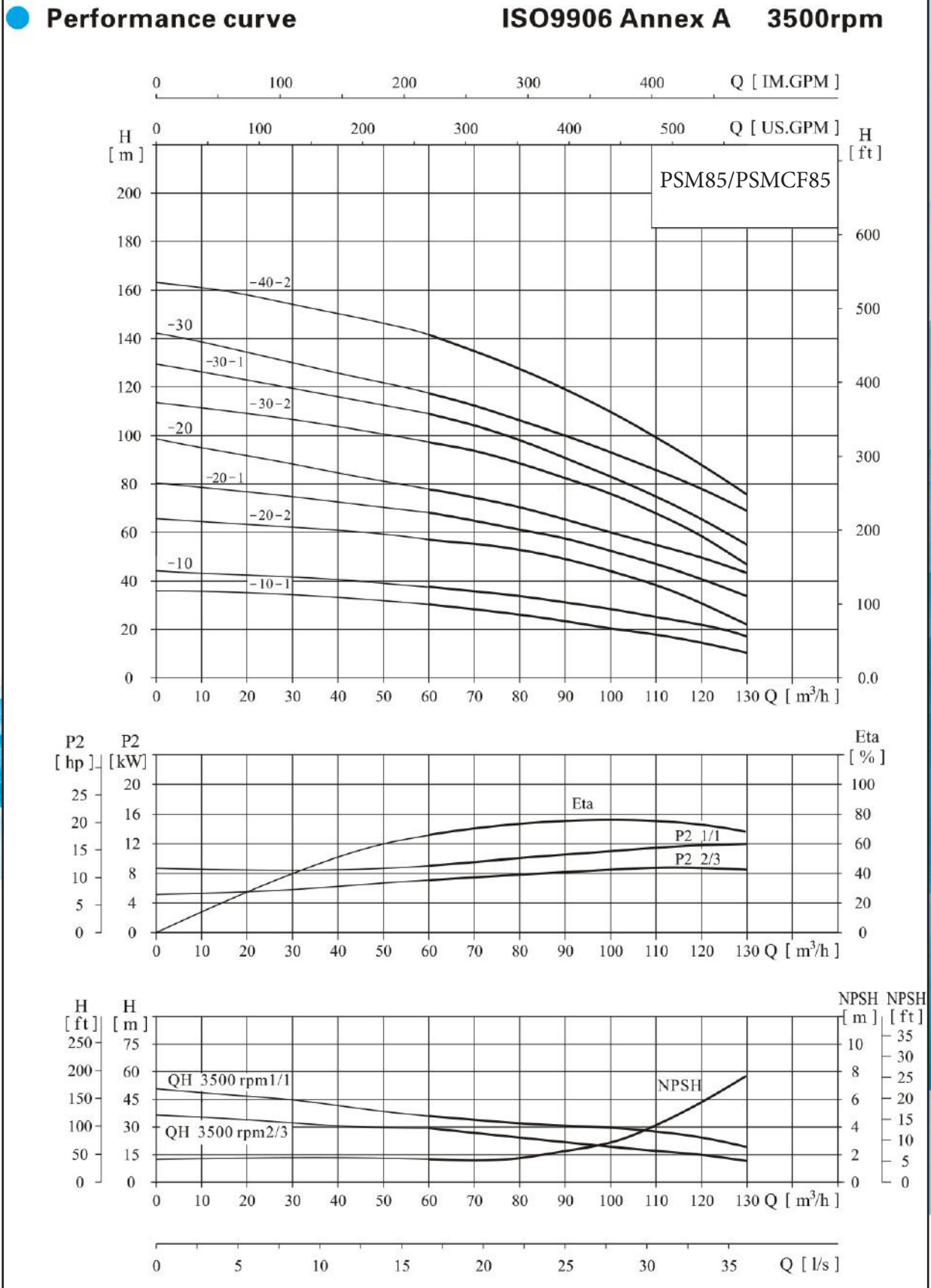
● Installation sketch



● Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|-------------------|-----------|------|-------|------|-----|----------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| 10-1 | 561 | 430 | 991 | 260 | 208 | 109 | |
| 10 | 671 | 490 | 1161 | 330 | 255 | 177 | |
| 20-2 | 754 | 490 | 1244 | 330 | 255 | 187 | |
| P S M 65 | 20 | 754 | 1344 | 360 | 285 | 248 | |
| | 30-2 | 836 | 590 | 1426 | 360 | 285 | 252 |
| | 30 | 836 | 660 | 1496 | 400 | 310 | 313 |
| | 40-2 | 919 | 660 | 1579 | 400 | 310 | 336 |
| | 40 | 919 | 700 | 1619 | 460 | 340 | 398 |
| | 50-2 | 1001 | 700 | 1701 | 460 | 340 | 402 |

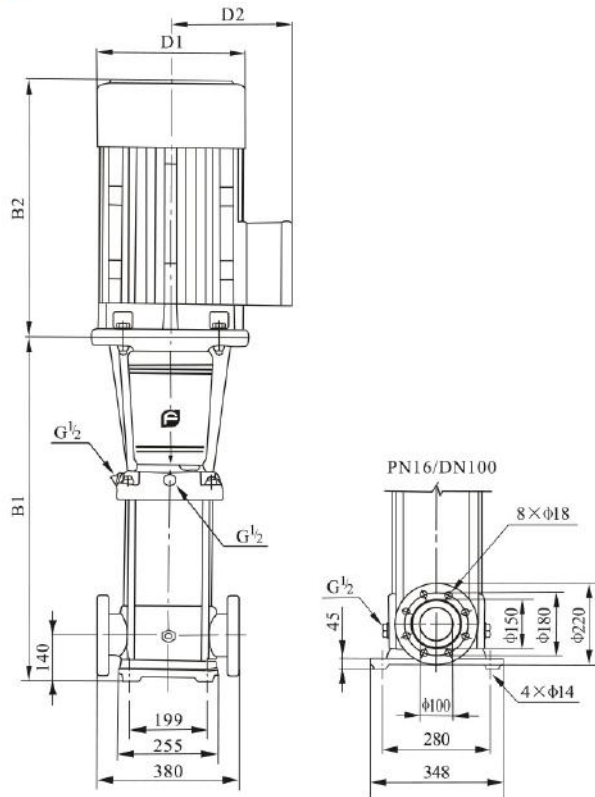
The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.
(For PSM65 series, PN25-40/DN100 standard flange is also available if required)



● Performance table

| Model | Driving motor | | Q (m ³ /h) | 60 | 70 | 80 | 85 | 90 | 100 | 110 | 120 | 130 |
|-------------------|---------------|------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | (kW) | (hp) | | | | | | | | | | |
| P S M 85 | 10-1 | 11 | H (m) | 31 | 27 | 25 | 24 | 23 | 21 | 18 | 14 | 9 |
| | 10 | 15 | | 36 | 35 | 33 | 31 | 30 | 29 | 26 | 23 | 18 |
| | 20-2 | 18.5 | | 59 | 57 | 54 | 51 | 48 | 44 | 39 | 32 | 22 |
| | 20-1 | 22 | | 67 | 65 | 62 | 59 | 57 | 51 | 47 | 41 | 33 |
| | 20 | 30 | | 76 | 73 | 69 | 66 | 64 | 60 | 56 | 52 | 44 |
| | 30-2 | 37 | | 98 | 94 | 88 | 85 | 82 | 75 | 69 | 59 | 46 |
| | 30-1 | 37 | | 108 | 104 | 98 | 94 | 90 | 83 | 78 | 69 | 56 |
| | 30 | 45 | | 116 | 111 | 105 | 102 | 97 | 93 | 88 | 79 | 69 |
| | 40-2 | 45 | | 141 | 135 | 128 | 124 | 118 | 109 | 102 | 89 | 72 |

● Installation sketch

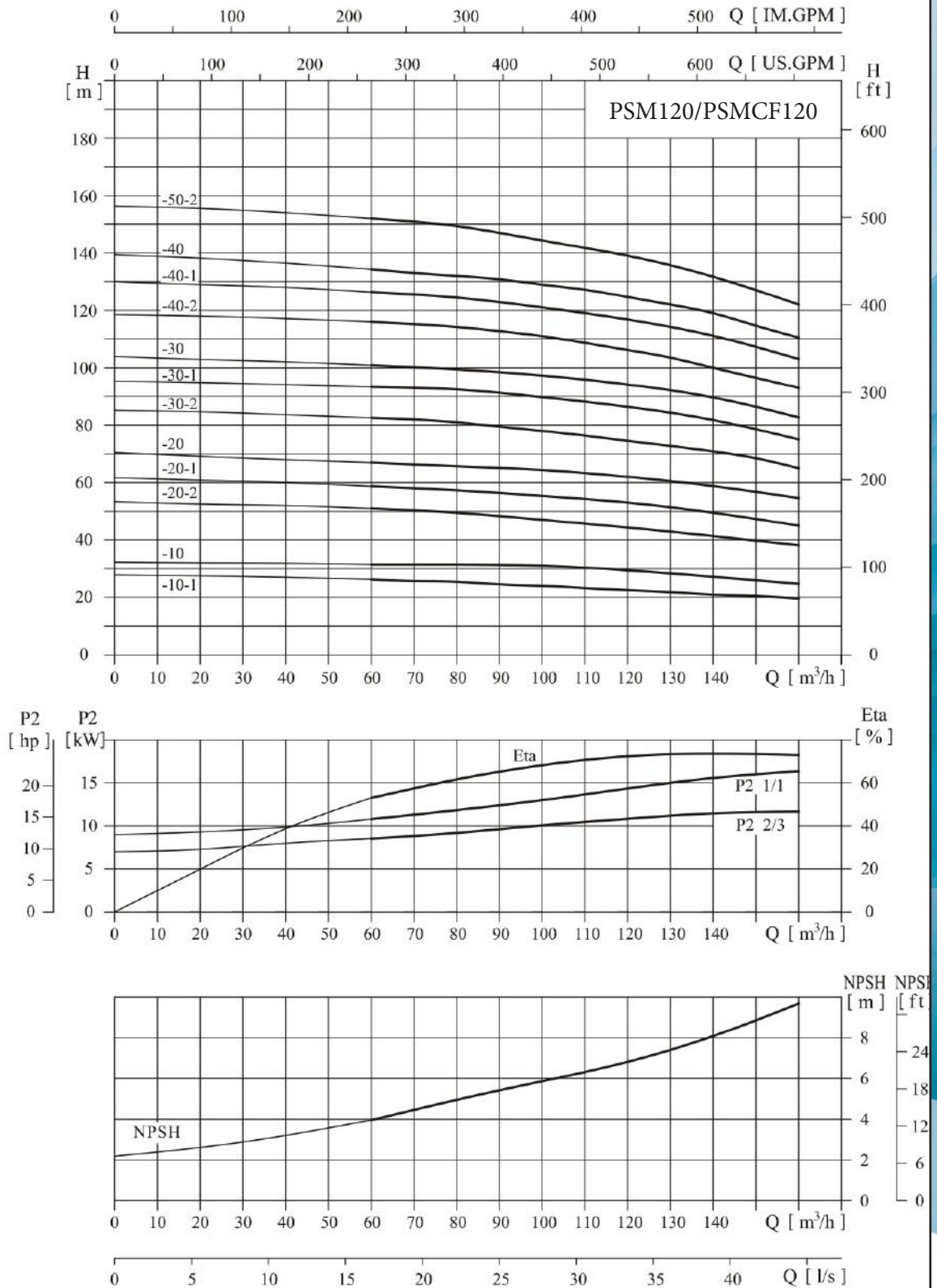


● Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|-------------------|-----------|-----|-------|------|-----|----------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| 10-1 | 571 | 490 | 1061 | 330 | 255 | 177 | |
| 10 | 571 | 490 | 1061 | 330 | 255 | 188 | |
| 20-2 | 773 | 550 | 1323 | 330 | 255 | 211 | |
| P S M 85 | 20-1 | 773 | 590 | 1363 | 360 | 285 | 248 |
| | 20 | 773 | 660 | 1433 | 400 | 310 | 304 |
| 30-2 | 865 | 660 | 1525 | 400 | 310 | 330 | |
| 30-1 | 865 | 660 | 1525 | 400 | 310 | 330 | |
| 30 | 865 | 700 | 1565 | 460 | 340 | 392 | |
| 40-2 | 957 | 700 | 1657 | 460 | 340 | 396 | |

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.
(For PSM85 series, PN25-40/DN100 standard flange is also available if required)

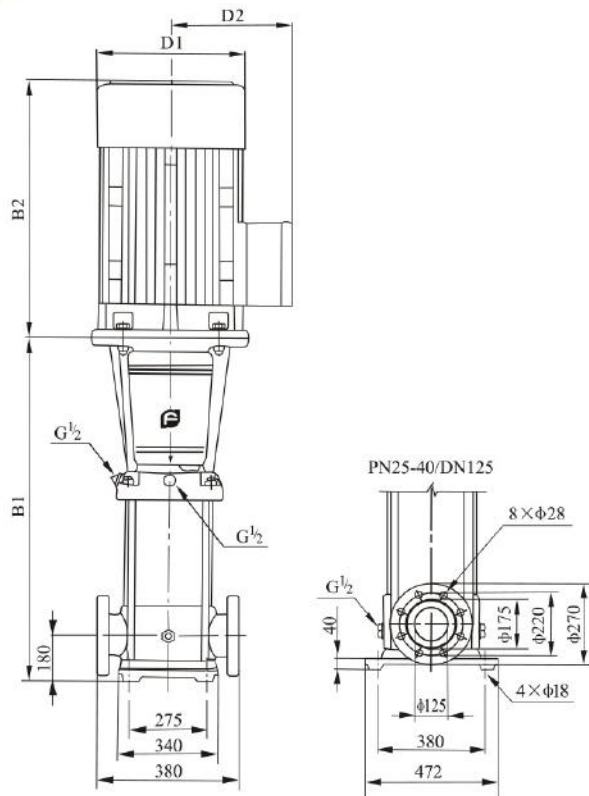
● Performance curve **ISO9906 Annex A 3540rpm**



Performance table

| Model | Driving motor | | Q (m ³ /h) | H (m) | | | | | | | | | | |
|--------------------|---------------|------|--------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | (kW) | (hp) | | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| P S M 120 | -10-1 | 15 | 20 | 26.5 | 26 | 25 | 24.5 | 23.8 | 23 | 22.5 | 21.5 | 21.3 | 21 | 20 |
| | -10 | 18.5 | 25 | 30.8 | 30.7 | 30.7 | 30.5 | 30.3 | 29.5 | 28.8 | 27.6 | 26.4 | 25.4 | 24.4 |
| | -20-2 | 30 | 40 | 51.5 | 50.5 | 49.5 | 47.5 | 46 | 45.5 | 44.8 | 43 | 41 | 39.7 | 38.5 |
| | -20-1 | 30 | 40 | 58.3 | 58 | 57.3 | 56 | 54.7 | 54 | 53 | 51.5 | 50 | 47.4 | 45 |
| | -20 | 37 | 50 | 66.3 | 66 | 65.7 | 65 | 64.4 | 63 | 62 | 60.7 | 59.6 | 57 | 54.6 |
| | -30-2 | 45 | 60 | 83 | 82 | 81 | 79.5 | 78 | 76 | 74.5 | 73.5 | 71 | 68.5 | 65 |
| | -30-1 | 45 | 60 | 91.3 | 91 | 90.4 | 89 | 87.7 | 86 | 84.4 | 82 | 80 | 76.7 | 73.3 |
| | -30 | 55 | 75 | 100.3 | 100 | 99.4 | 98.3 | 97.3 | 95.5 | 94 | 92 | 90 | 86.3 | 82.7 |
| | -40-2 | 75 | 100 | 116 | 115.5 | 114 | 113 | 111 | 109 | 105.5 | 104 | 100 | 97 | 93 |
| | -40-1 | 75 | 100 | 126 | 125.4 | 124.6 | 122.6 | 120.6 | 118.5 | 116.5 | 114 | 111.3 | 107 | 103 |
| | -40 | 75 | 100 | 134 | 133 | 132 | 131 | 129.5 | 127.5 | 125 | 122 | 119 | 114.5 | 109.5 |
| | -50-2 | 75 | 100 | 152 | 151 | 149.7 | 147 | 144 | 141.5 | 139 | 135.5 | 132 | 127 | 122 |

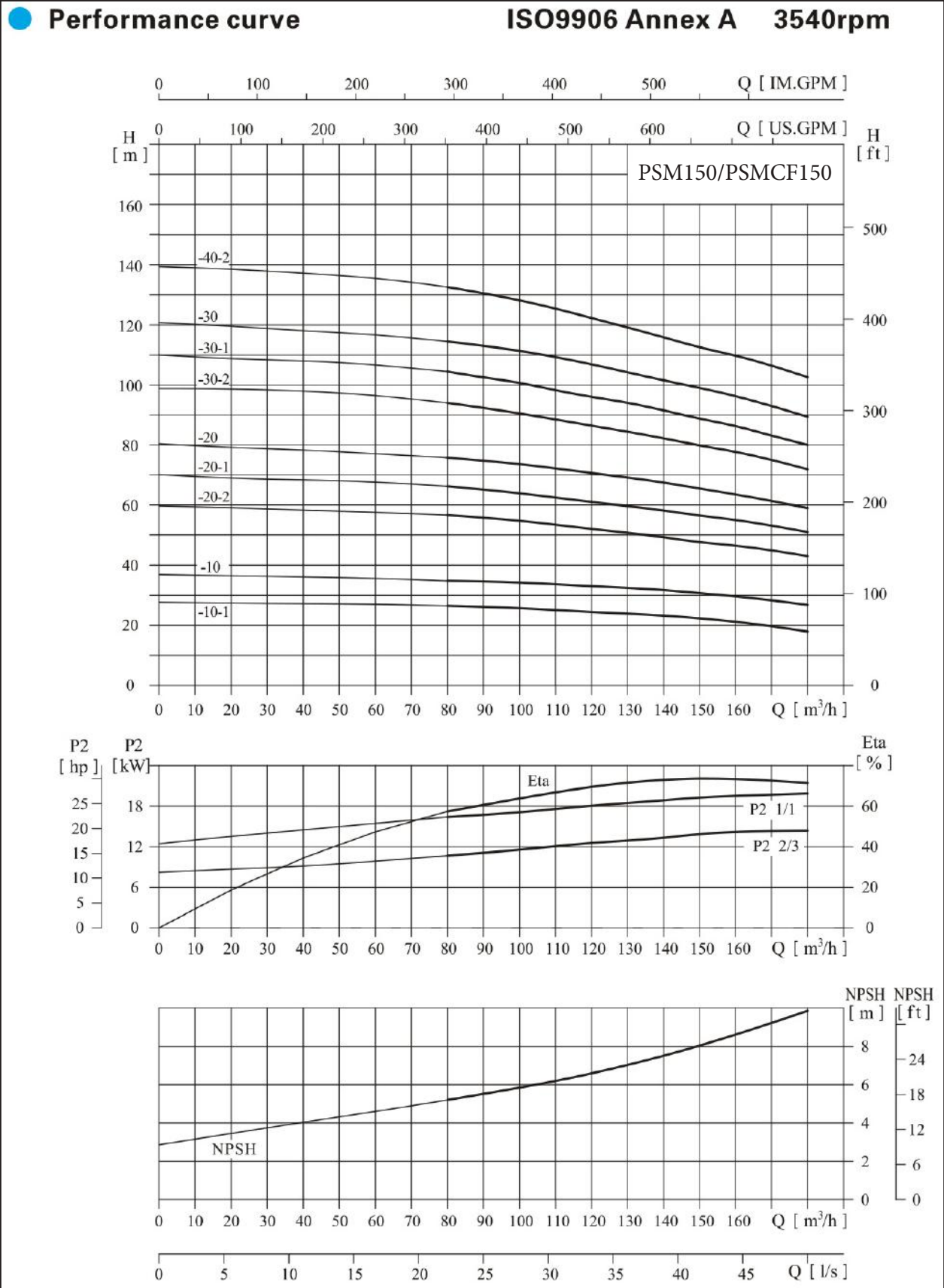
Installation sketch



Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|--------------------|-----------|------|-------|------|-----|-------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 120 | -10-1 | 840 | 490 | 1330 | 330 | 255 | 235 |
| | -10 | 840 | 550 | 1390 | 330 | 255 | 250 |
| | -20-2 | 1000 | 660 | 1660 | 400 | 310 | 350 |
| | -20-1 | 1000 | 660 | 1660 | 400 | 310 | 350 |
| | -20 | 1000 | 660 | 1660 | 400 | 310 | 380 |
| | -30-2 | 1160 | 700 | 1860 | 460 | 340 | 445 |
| | -30-1 | 1160 | 700 | 1860 | 460 | 340 | 445 |
| | -30 | 1190 | 770 | 1960 | 510 | 370 | 545 |
| | -40-2 | 1350 | 845 | 2195 | 580 | 410 | 675 |
| | -40-1 | 1350 | 845 | 2195 | 580 | 410 | 675 |
| | -40 | 1350 | 845 | 2195 | 580 | 410 | 675 |
| | -50-2 | 1510 | 845 | 2355 | 580 | 410 | 690 |

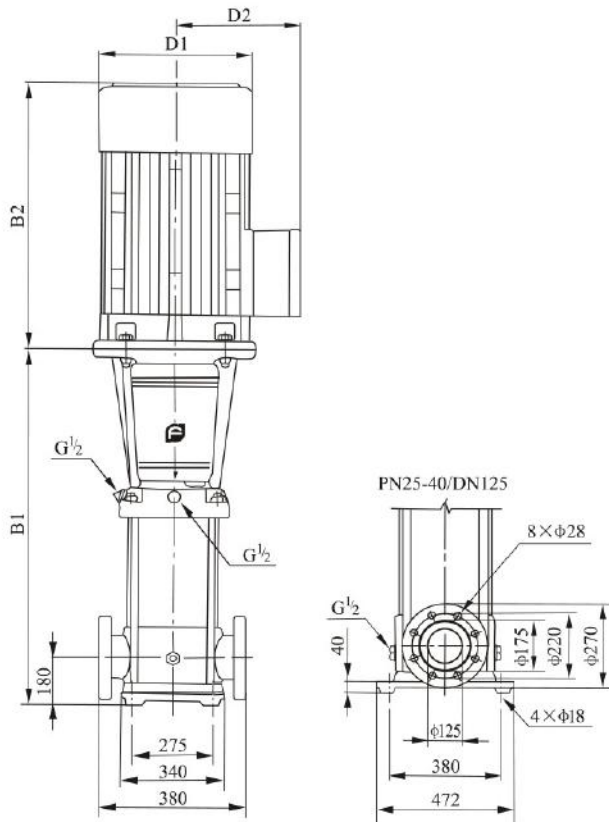
The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.



Performance table

| Model | Driving motor | | Q (m ³ /h) | H (m) | | | | | | | | | | | |
|--------------------|---------------|------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|--|
| | (kW) | (hp) | | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | |
| P S M 150 | 10-1 | 15 | 20 | 26.5 | 26 | 25.7 | 25 | 24.3 | 23.8 | 23.2 | 22.3 | 21.2 | 19.5 | 18 | |
| | 10 | 22 | 30 | 35 | 34.5 | 34 | 33.6 | 33 | 32.3 | 31.7 | 30.7 | 29.6 | 28 | 27 | |
| | 20-2 | 30 | 40 | 57 | 55.5 | 53 | 52 | 51.3 | 50 | 49 | 48 | 47 | 45 | 43 | |
| | 20-1 | 37 | 50 | 67 | 65 | 63.5 | 62 | 61 | 60 | 58.5 | 56 | 55 | 53 | 51 | |
| | 20 | 45 | 60 | 75.5 | 74.5 | 73.6 | 72 | 70.4 | 69 | 67.5 | 65.5 | 63.5 | 61 | 59 | |
| | 30-2 | 55 | 75 | 94 | 92 | 90.5 | 88.4 | 86.4 | 83.8 | 81 | 80 | 78 | 75.3 | 72.5 | |
| | 30-1 | 75 | 100 | 104 | 102.5 | 100 | 98 | 96 | 94 | 92 | 89 | 87 | 84 | 80 | |
| | 30 | 75 | 100 | 114.4 | 113 | 111.3 | 109 | 106.5 | 104 | 101.5 | 99 | 96 | 93 | 89.4 | |
| | 40-2 | 75 | 100 | 133 | 130.3 | 127.6 | 124.6 | 121.7 | 118.3 | 115 | 112.5 | 110 | 106.3 | 102.5 | |

Installation sketch



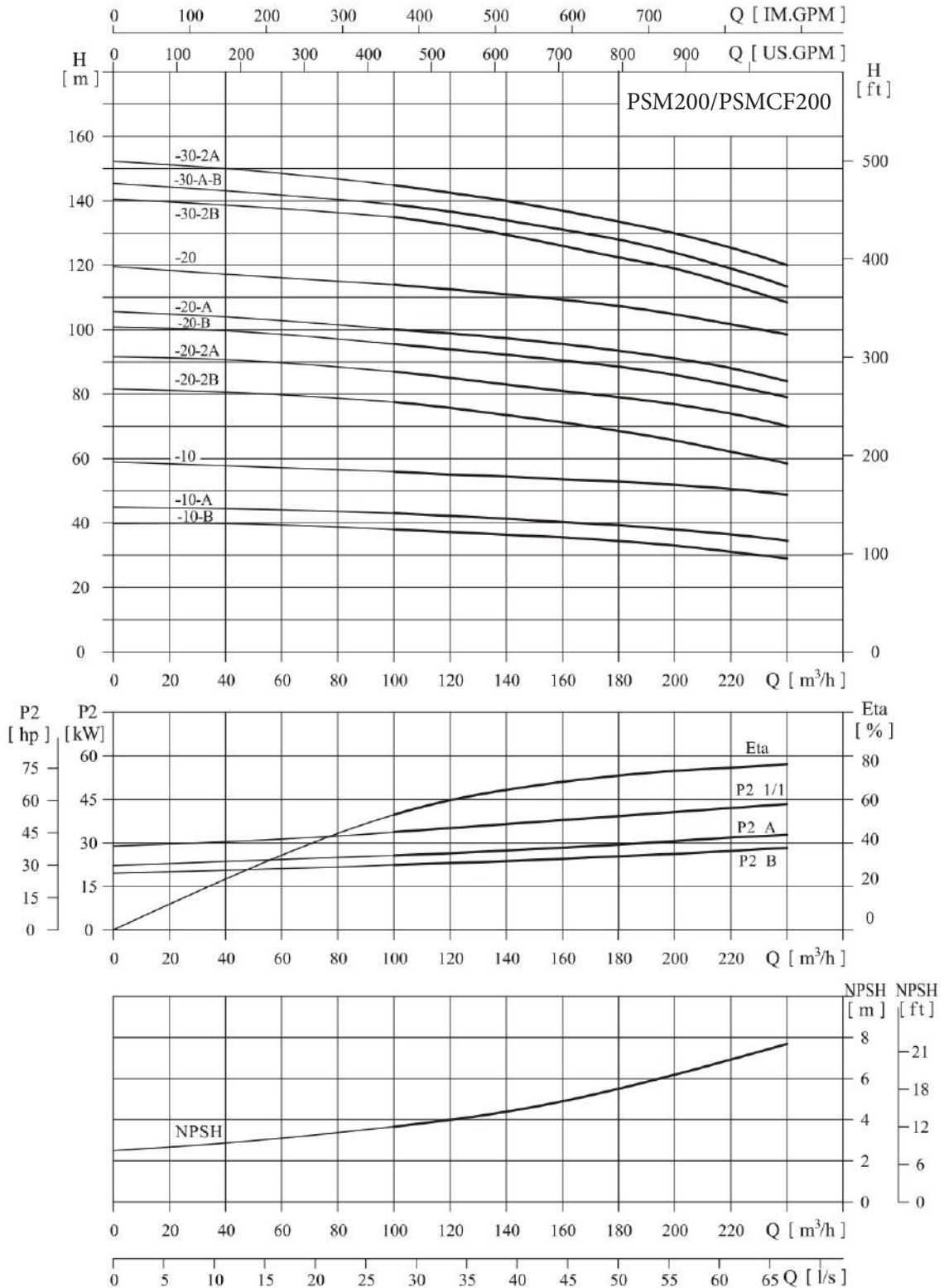
Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|--------------------|-----------|------|-------|------|-----|-------------|-----|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| P S M 150 | 10-1 | 840 | 490 | 1330 | 330 | 255 | 235 |
| | 10 | 840 | 590 | 1430 | 360 | 285 | 280 |
| | 20-2 | 1000 | 660 | 1660 | 400 | 310 | 360 |
| | 20-1 | 1000 | 660 | 1660 | 400 | 310 | 380 |
| | 20 | 1000 | 700 | 1700 | 460 | 340 | 435 |
| | 30-2 | 1190 | 770 | 1960 | 510 | 370 | 545 |
| | 30-1 | 1190 | 845 | 2035 | 580 | 410 | 665 |
| | 30 | 1190 | 845 | 2035 | 580 | 410 | 665 |
| | 40-2 | 1350 | 845 | 2195 | 580 | 410 | 680 |

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.

● Performance curve

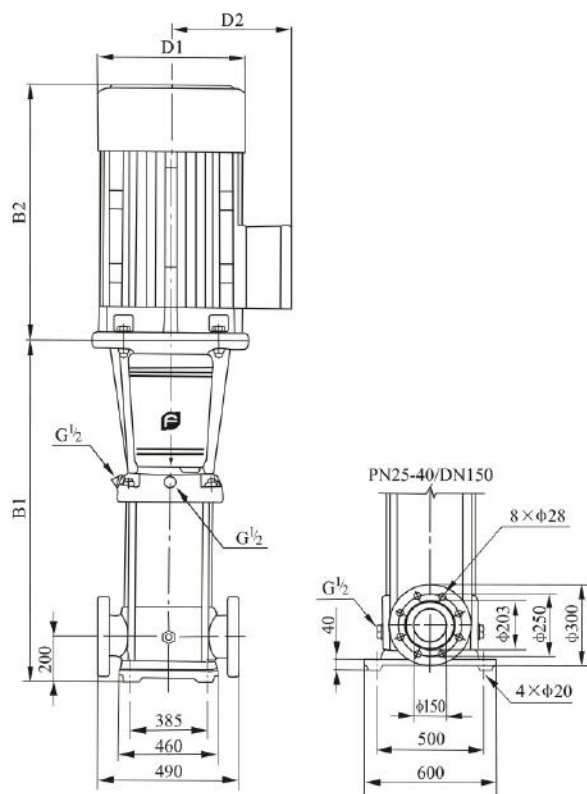
ISO9906 Annex A 3540rpm



● Performance table

| Model | Driving motor | | Q (m ³ /h) | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | |
|--------------------|---------------|------|--------------------------|----------|------|-------|-------|-------|-------|-----|-------|-------|
| | (kW) | (hp) | | | | | | | | | | |
| P S M 200 | -10-B | 30 | 40 | H (m) | 38 | 37 | 36.5 | 35.5 | 34 | 33 | 31 | 29 |
| | -10-A | 37 | 50 | | 43 | 42 | 41.5 | 40 | 39 | 38 | 36.5 | 34.5 |
| | -10 | 45 | 60 | | 56 | 55 | 54.5 | 53.5 | 53 | 52 | 50.5 | 48.5 |
| | -20-2B | 55 | 75 | | 77.5 | 75.5 | 73.5 | 71 | 68.5 | 66 | 62 | 58.5 |
| | -20-2A | 75 | 100 | | 87 | 85 | 83 | 81 | 79 | 77 | 74 | 70 |
| | -20-B | 75 | 100 | | 95.5 | 93.5 | 92.5 | 90.5 | 88.5 | 86 | 82.5 | 79 |
| | -20-A | 90 | 120 | | 100 | 98.5 | 97.5 | 95.5 | 93.5 | 91 | 88 | 84 |
| | -20 | 90 | 120 | | 114 | 112.5 | 111 | 109.5 | 107.5 | 105 | 101.5 | 98.5 |
| | -30-2B | 110 | 150 | | 135 | 132.5 | 129.5 | 126 | 122.5 | 119 | 114 | 108.5 |
| | -30-A-B | 110 | 150 | | 139 | 136.5 | 134 | 131 | 128 | 124 | 119 | 113.5 |
| | -30-2A | 110 | 150 | | 145 | 142.5 | 140 | 137 | 133.5 | 130 | 125.5 | 120 |

● Installation sketch



● Size and weight

| Model | Size (mm) | | | | | Weight (kg) | |
|--------------------|-----------|------|-------|------|-----|----------------|------|
| | B1 | B2 | B1+B2 | D1 | D2 | | |
| 10-B | 907 | 660 | 1567 | 400 | 310 | 403 | |
| 10-A | 907 | 660 | 1567 | 400 | 310 | 426 | |
| 10 | 907 | 700 | 1607 | 450 | 345 | 484 | |
| P S M 200 | 20-2B | 1131 | 770 | 1901 | 540 | 370 | 595 |
| | 20-2A | 1131 | 845 | 1976 | 580 | 410 | 718 |
| | 20-B | 1131 | 845 | 1976 | 580 | 410 | 718 |
| | 20-A | 1131 | 895 | 2026 | 580 | 410 | 787 |
| | 20 | 1131 | 895 | 2026 | 580 | 410 | 787 |
| | 30-2B | 1325 | 1140 | 2465 | 645 | 550 | 1158 |
| 30-A-B | 1325 | 1140 | 2465 | 645 | 550 | 1158 | |
| 30-2A | 1325 | 1140 | 2465 | 645 | 550 | 1158 | |

The overall dimensions of explosion-proof motor is a little different. Pls contact us for details.

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