



Technical Catalogue



# SD Series

Electric Submersible Pump

## Introduction

The motor and pump body of SD, SK, SP submersible electrical pump series are tightly coupled through the designed casing pipe shaft, and a suction filter is installed between the pump and the motor to effectively isolate the impurities in the liquid. The whole component is submerged in the liquid with the pump, which can prevent the cavitation of the pump. The centrifugal force generated by the motor rotating the impeller of the pump drives the fluid to push from the underground to the surface. pump mainly consists of ground components and underground components. The ground components include control cabinet, cable, transformer, etc., and the underground components include pipelines, pumps and other attached ground components, which extend to the bottom of the well through the transmission pipeline. The motor part of submersible electrical pump is usually installed under the hydraulic press. Three different materials are provided for selection according to different working conditions.

## Pump material

SD series-All pump flow components are high quality plastic material and Oil-filled motor. Size: 3" 4"  
 SK series-Pump impeller is high quality plastic material and diffuser is stainless steel and PC material. Size: 4"  
 SP series-All pump flow components are stainless steel 304 and SS316 could be customized. Size: 4" 6" 8" 10"

## Ambient temperature

If the ambient temperature exceeds the 40 °C or the pump is installed at an altitude exceeding 1000 m, the motor output power P2 will decrease. In such cases, it necessary to use a motor with a higher rated output.

## Pump operating conditions

Pumping liquids which are thin, clean, non-flammable, non-combustible or non-explosive liquids, not containing solid particles or fibers.

Maximum ambient temperature: +40 °C

Maximum altitude above sea level: 1000 m

Maximum depth: 70m

## Motor

Enclosure class: IP68

Insulation class: F

Voltage: 3x220-240/380-415V

1x220-240V

available with single-phase motors(0.37kW-2.2kW)

## Liquid temperature °C

Normal temperature pump: -15°C to +70°C

Hot temperature pump: -15°C to +105°C

## Performance curves

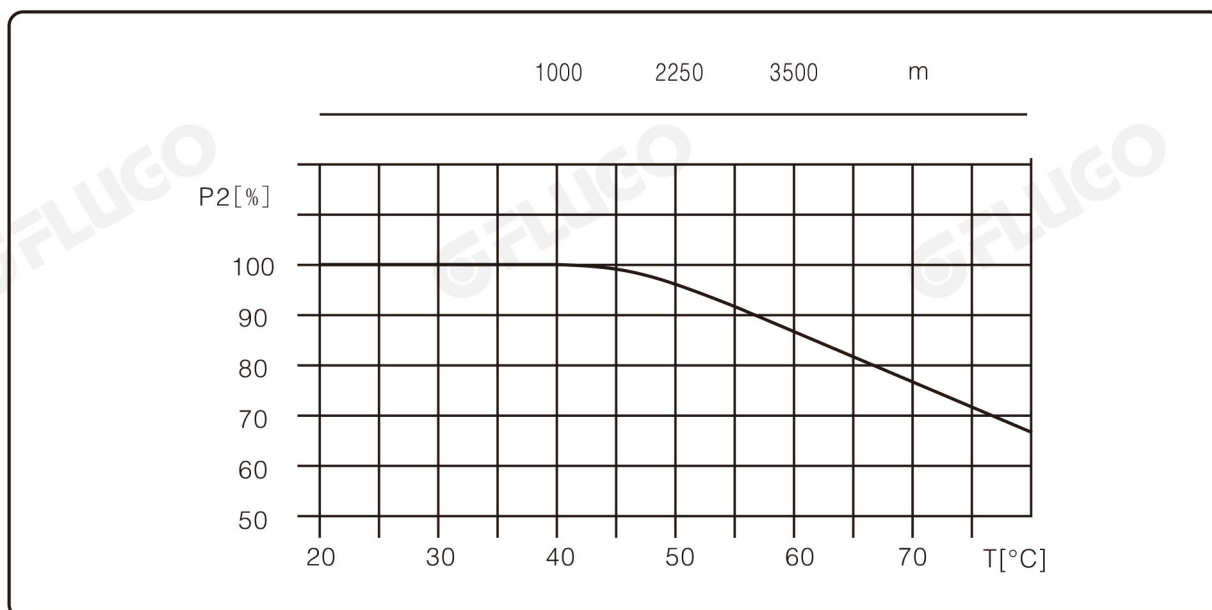
The motors used for the measurements are based on 2900rpm or 2950 rom

Tolerances to ISO 9906

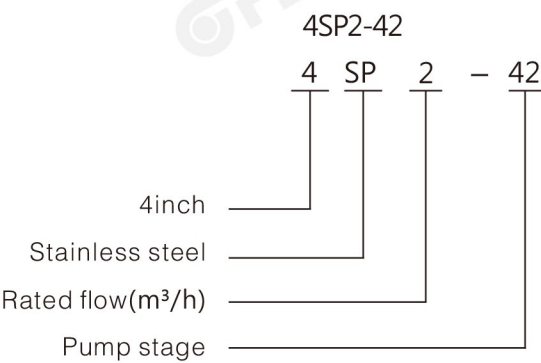
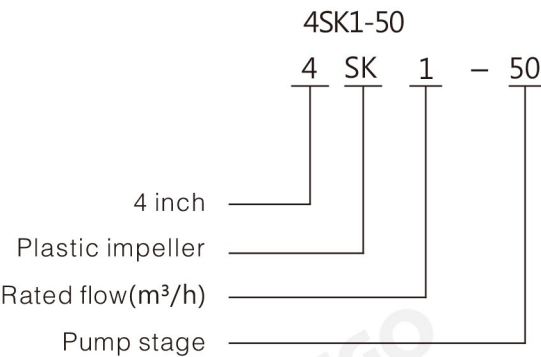
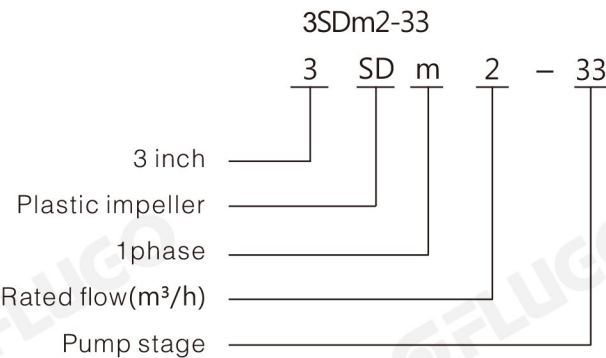
Measurements have been made with airless water at a temperature of 20 °C

The curves apply to the following kinematic viscosity: = 1 mm<sup>2</sup>/s

Select a best efficiency of the pump which is operating within the bold curve of the pump performance.



Model specification



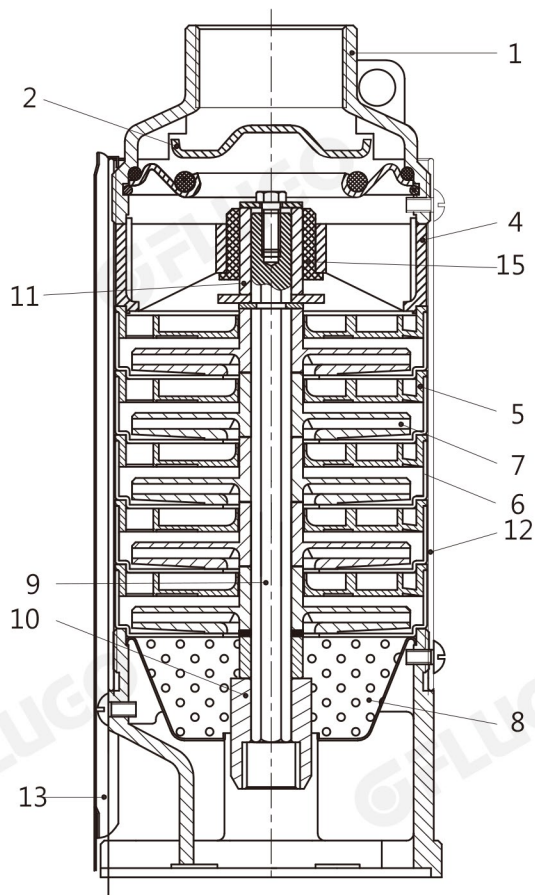
Applications

Groundwater pumping

- Residential water
- Wells pumping
- Municipal water
- Industrial water
- Water villa
- Water supply system
- Municipal water supply
- The system pressure
- Pipeline pressurization
- Spray irrigation system
- The air conditioning system
- Fire protection system
- Cooling circulation system

SD

ELECTRIC SUBMERSIBLE PUMP



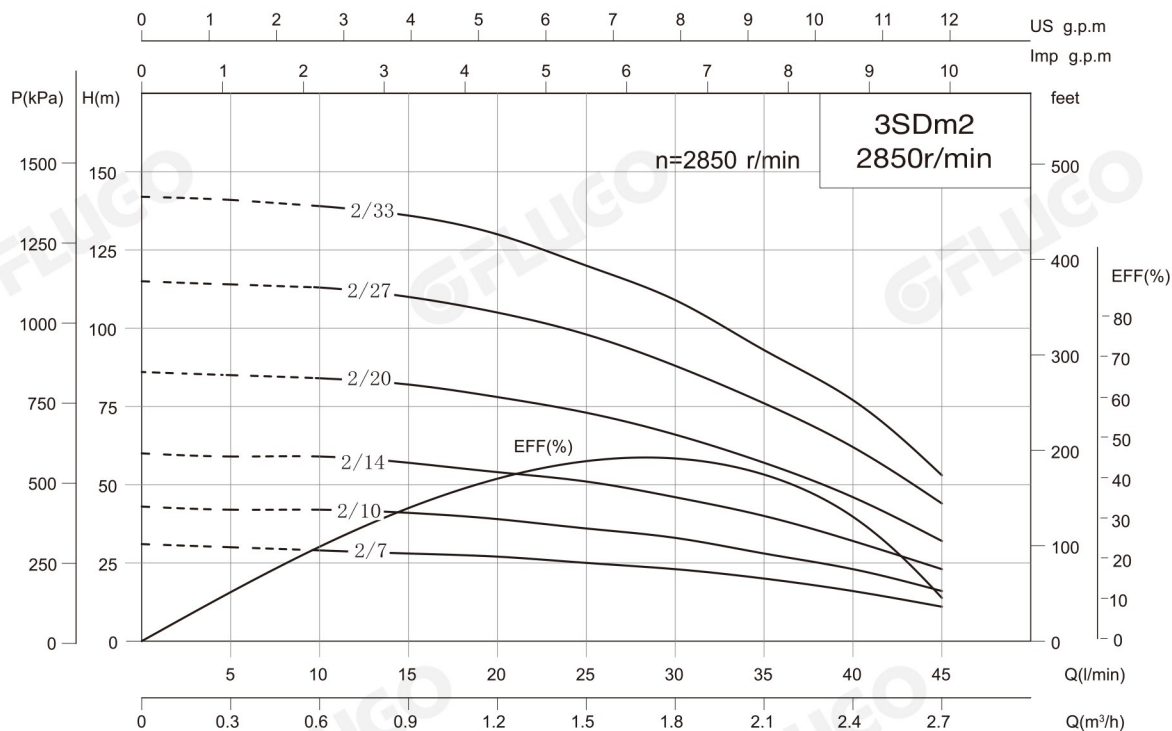
SD series material

| No. | Component         | Material                     |
|-----|-------------------|------------------------------|
| 1   | Discharge chamber | Brass/Cating/Stainless steel |
| 2   | Check valve       | PC                           |
| 4   | Top diffuser      | PC                           |
| 5   | Diffuser          | PC                           |
| 6   | Guide vanes       | PC                           |
| 7   | Impeller          | POM                          |
| 8   | Strainer          | Stainless steel              |
| 9   | Pumpshaft         | Stainless steel              |
| 10  | Coupling          | Stainless steel              |
| 11  | Sleeve            | Stainless steel              |
| 12  | Cylinder          | Stainless steel              |
| 13  | Cable guard       | Stainless steel              |
| 15  | Bearing           | Polyurethane                 |

## ELECTRIC SUBMERSIBLE PUMP

## 3SDm2

Performance curve (50Hz)

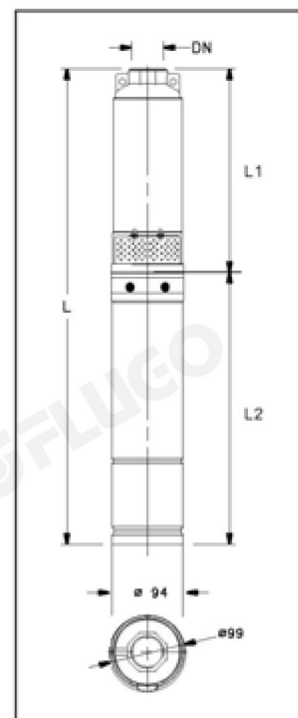


Performance data (50Hz)

| Model     | Power |      | Outlet (inch) | Flow range |     |     |     |     |     |     |     |     |     |     |  |  |
|-----------|-------|------|---------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|           | kW    | Hp   |               | m³/h       | 0   | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 |  |  |
| 1phase    |       |      |               | l/min      | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  |  |  |
| 220V      |       |      |               |            |     |     |     |     |     |     |     |     |     |     |  |  |
| 3SDm 2/7  | 0.18  | 0.25 | 1"            | H(m)       | 30  | 30  | 29  | 29  | 27  | 25  | 23  | 20  | 16  | 11  |  |  |
| 3SDm 2/10 | 0.25  | 0.33 |               |            | 43  | 42  | 42  | 41  | 39  | 36  | 33  | 28  | 23  | 16  |  |  |
| 3SDm 2/14 | 0.37  | 0.5  |               |            | 60  | 59  | 59  | 57  | 54  | 51  | 46  | 40  | 32  | 23  |  |  |
| 3SDm 2/20 | 0.55  | 0.75 |               |            | 86  | 85  | 84  | 82  | 78  | 73  | 66  | 57  | 46  | 32  |  |  |
| 3SDm 2/27 | 0.75  | 1    |               |            | 115 | 114 | 113 | 110 | 105 | 98  | 88  | 76  | 62  | 44  |  |  |
| 3SDm 2/33 | 1.1   | 1.5  |               |            | 142 | 141 | 139 | 136 | 130 | 120 | 109 | 93  | 77  | 53  |  |  |

Installation dimensions and weight (50Hz)

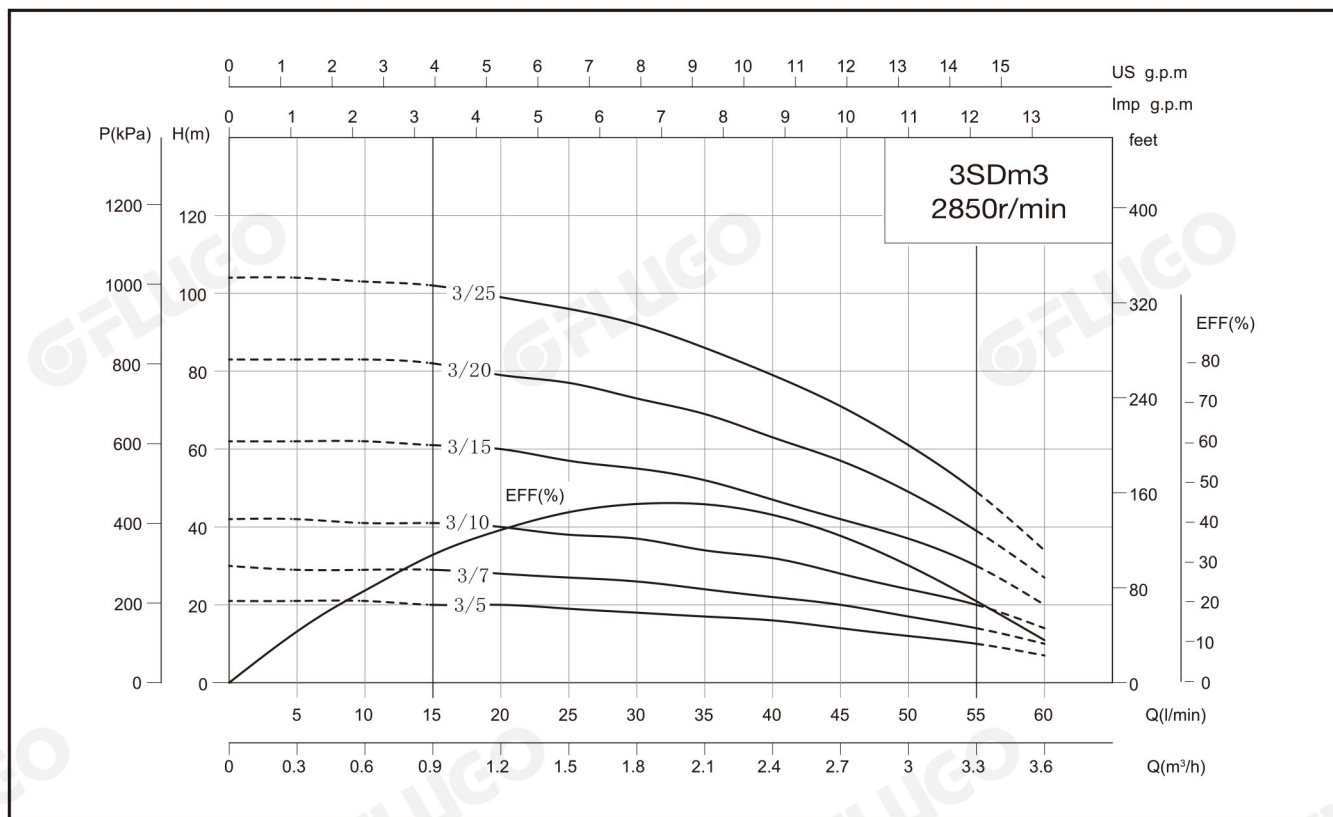
| Model     | Power |      | Outlet (inch) | Dimensions(mm) |           |                  | Weight(kg) |       |               |
|-----------|-------|------|---------------|----------------|-----------|------------------|------------|-------|---------------|
|           | kW    | Hp   |               | Pump(L1)       | Motor(L2) | Electric Pump(L) | Pump       | Motor | Electric Pump |
| 3SDm 2/7  | 0.18  | 0.25 | 1"            | 336            | 291       | 627              | 1.5        | 5     | 6.5           |
| 3SDm 2/10 | 0.25  | 0.33 |               | 402            | 316       | 718              | 2          | 6     | 8             |
| 3SDm 2/14 | 0.37  | 0.5  |               | 522            | 346       | 868              | 2.5        | 7     | 9.5           |
| 3SDm 2/20 | 0.55  | 0.75 |               | 656            | 386       | 1042             | 3.5        | 8     | 11.5          |
| 3SDm 2/27 | 0.75  | 1    |               | 842            | 416       | 1258             | 4.2        | 9.5   | 13.7          |
| 3SDm 2/33 | 1.1   | 1.5  |               | 1006           | 496       | 1502             | 6          | 12    | 18            |



## 3SDm3

## ELECTRIC SUBMERSIBLE PUMP

Performance curve (50Hz)

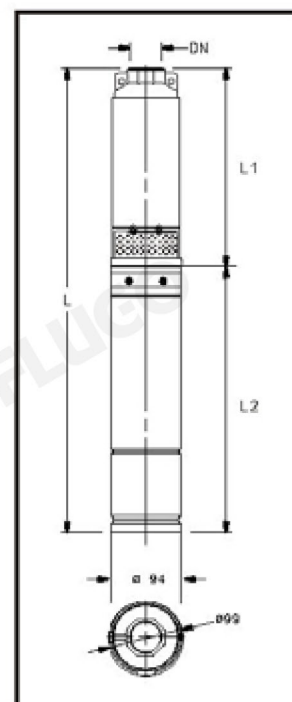


Performance data (50Hz)

| Model     | Power |      | Outlet<br>(inch) | Flow range |     |     |     |     |     |     |     |     |     |     |    |     |     |  |
|-----------|-------|------|------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|--|
| 1phase    | kW    | Hp   |                  | m³/h       | 0   | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3  | 3.3 | 3.6 |  |
| 220V      |       |      |                  | l/min      | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50 | 55  | 60  |  |
| 3SDm 3/5  | 0.18  | 0.25 | 1"               | H(m)       | 21  | 21  | 21  | 20  | 20  | 19  | 18  | 17  | 16  | 14  | 12 | 10  | 7   |  |
| 3SDm 3/7  | 0.25  | 0.33 |                  |            | 30  | 29  | 29  | 29  | 28  | 27  | 26  | 24  | 22  | 10  | 17 | 14  | 10  |  |
| 3SDm 3/10 | 0.37  | 0.5  |                  |            | 41  | 42  | 41  | 41  | 40  | 38  | 37  | 34  | 32  | 28  | 24 | 20  | 14  |  |
| 3SDm 3/15 | 0.55  | 0.75 |                  |            | 62  | 62  | 62  | 61  | 60  | 57  | 55  | 52  | 47  | 42  | 37 | 30  | 20  |  |
| 3SDm 3/20 | 0.75  | 1    |                  |            | 83  | 83  | 83  | 82  | 79  | 77  | 73  | 69  | 63  | 57  | 49 | 39  | 27  |  |
| 3SDm 3/25 | 1.1   | 1.5  |                  |            | 104 | 104 | 103 | 102 | 99  | 96  | 92  | 86  | 79  | 71  | 61 | 49  | 34  |  |

Installation dimensions and weight (50Hz)

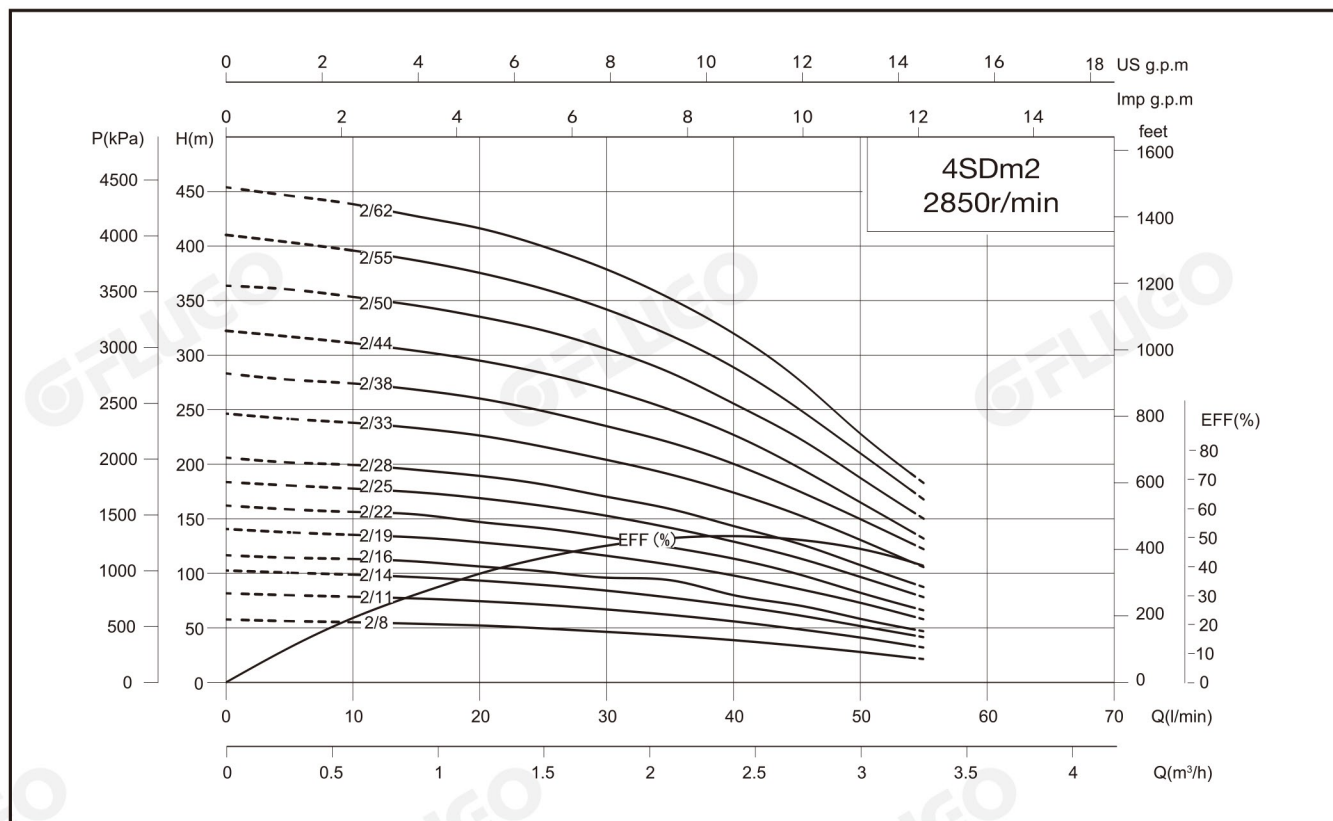
| Model     | Power |      | Outlet<br>(inch) | Dimensions(mm) |           |                  | Weight(kg) |       |               |
|-----------|-------|------|------------------|----------------|-----------|------------------|------------|-------|---------------|
|           | kW    | Hp   |                  | Pump(L1)       | Motor(L2) | Electric Pump(L) | Pump       | Motor | Electric Pump |
| 3SDm 3/5  | 0.18  | 0.25 | 1"               | 307            | 291       | 598              | 1.2        | 5     | 6.5           |
| 3SDm 3/7  | 0.25  | 0.33 |                  | 356            | 316       | 672              | 1.5        | 6     | 7.5           |
| 3SDm 3/10 | 0.37  | 0.5  |                  | 431            | 346       | 777              | 2          | 7     | 9             |
| 3SDm 3/15 | 0.55  | 0.75 |                  | 586            | 386       | 972              | 2.5        | 8     | 10.5          |
| 3SDm 3/20 | 0.75  | 1    |                  | 711            | 416       | 1127             | 3.5        | 9.5   | 13            |
| 3SDm 3/25 | 1.1   | 1.5  |                  | 866            | 496       | 1362             | 4          | 12    | 16            |



## ELECTRIC SUBMERSIBLE PUMP

## 4SDm2

Performance curve (50Hz)

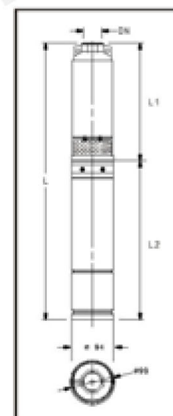


Performance data (50Hz)

| Model    |         | Power |      | Flow range    |     |      |     |     |     |     |     |     |     |     |     |         | Head range<br>(m) | Outlet<br>(inch) |
|----------|---------|-------|------|---------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-------------------|------------------|
| 1phase   | 3phase  | kW    | Hp   | m³/h<br>l/min | 0   | 0.3  | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3   | 3.3     |                   |                  |
| 220V     | 380V    |       |      |               |     | H(m) | 0   | 5   | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45      | 50                | 55               |
| 4SDm2/8  | -       | 0.37  | 0.5  | 58            | 56  |      | 55  | 54  | 52  | 50  | 46  | 43  | 38  | 34  | 27  | 21      | 55~22             |                  |
| 4SDm2/11 | -       | 0.55  | 0.75 | 82            | 80  |      | 79  | 77  | 74  | 71  | 67  | 62  | 56  | 49  | 41  | 32      | 77~34             |                  |
| 4SDm2/14 | 4SD2/14 | 0.75  | 1    | 102           | 100 |      | 99  | 97  | 93  | 89  | 84  | 82  | 70  | 62  | 51  | 41      | 99~43             |                  |
| 4SDm2/16 | 4SD2/16 | 0.75  | 1    | 117           | 114 |      | 113 | 111 | 106 | 102 | 96  | 94  | 80  | 71  | 58  | 47      | 113~49            |                  |
| 4SDm2/19 | 4SD2/19 | 1.1   | 1.5  | 140           | 137 |      | 135 | 133 | 127 | 122 | 115 | 107 | 98  | 86  | 71  | 57      | 135~60            |                  |
| 4SDm2/22 | 4SD2/22 | 1.1   | 1.5  | 162           | 159 |      | 156 | 154 | 147 | 141 | 133 | 124 | 113 | 100 | 82  | 66      | 156~69            |                  |
| 4SDm2/25 | 4SD2/25 | 1.5   | 2    | 184           | 180 |      | 178 | 174 | 169 | 162 | 152 | 142 | 128 | 114 | 96  | 78      | 178~81            |                  |
| 4SDm2/28 | 4SD2/28 | 1.5   | 2    | 206           | 202 |      | 199 | 195 | 189 | 181 | 170 | 159 | 143 | 128 | 108 | 87      | 199~91            |                  |
| 4SDm2/33 | 4SD2/33 | 2.2   | 3    | 246           | 241 |      | 238 | 233 | 226 | 216 | 204 | 191 | 174 | 153 | 130 | 106     | 238~110           |                  |
| 4SDm2/38 | 4SD2/38 | 2.2   | 3    | 283           | 278 |      | 274 | 268 | 260 | 249 | 235 | 220 | 200 | 176 | 150 | 122     | 274~127           |                  |
| -        | 4SD2/44 | 3     | 4    | 320           | 317 |      | 311 | 304 | 295 | 284 | 269 | 250 | 225 | 198 | 165 | 132     | 311~137           |                  |
| -        | 4SD2/50 | 3     | 4    | 364           | 360 |      | 353 | 345 | 335 | 323 | 306 | 284 | 256 | 225 | 188 | 150     | 353~156           |                  |
| -        | 4SD2/55 | 4     | 5.5  | 410           | 403 |      | 396 | 386 | 370 | 361 | 342 | 318 | 289 | 232 | 206 | 165     | 396~175           |                  |
| -        | 4SD2/62 | 4     | 5.5  | 454           | 446 | 438  | 427 | 416 | 400 | 379 | 352 | 320 | 279 | 228 | 183 | 438~190 |                   |                  |

Installation dimensions and weight (50Hz)

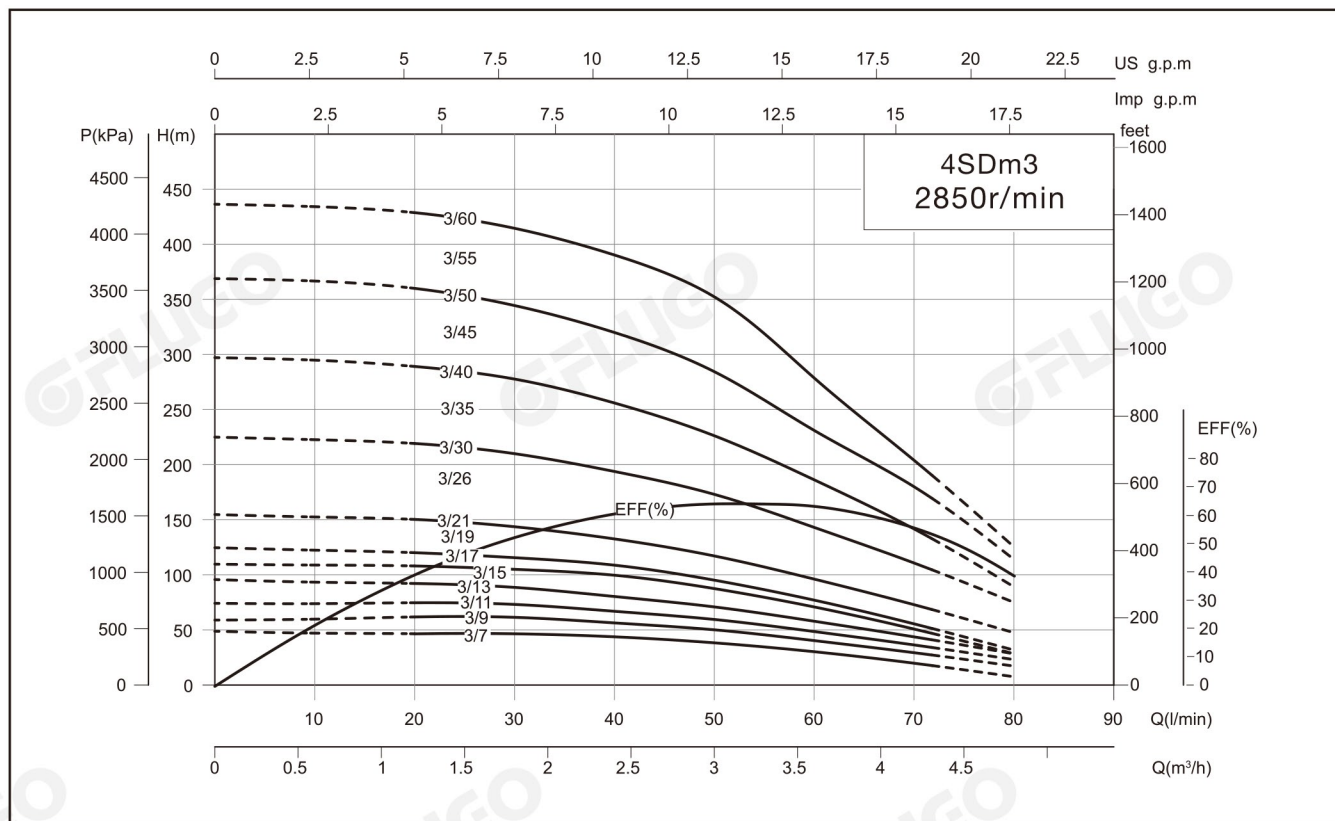
| Model   | Power |      | Outlet (inch) | Dimensions(mm) |           |                  | Weight(kg) |       |               |
|---------|-------|------|---------------|----------------|-----------|------------------|------------|-------|---------------|
|         | kW    | Hp   |               | Pump(L1)       | Motor(L2) | Electric Pump(L) | Pump       | Motor | Electric Pump |
| 4SD2/8  | 0.37  | 0.5  | 1.25"         | 402            | 324       | 726              | 3          | 9     | 12            |
| 4SD2/11 | 0.55  | 0.75 |               | 478            | 344       | 822              | 32         | 9.8   | 13            |
| 4SD2/14 | 0.75  | 1    |               | 554            | 369       | 923              | 3.6        | 11    | 14.6          |
| 4SD2/16 | 0.75  | 1    |               | 605            | 369       | 974              | 4          | 11    | 15            |
| 4SD2/19 | 1.1   | 1.5  |               | 712            | 404       | 1116             | 46         | 13    | 17.6          |
| 4SD2/22 | 1.1   | 1.5  |               | 819            | 404       | 1223             | 5.2        | 13    | 18.2          |
| 4SD2/25 | 1.5   | 2    |               | 895            | 449       | 1344             | 5.8        | 15    | 20.8          |
| 4SD2/28 | 1.5   | 2    |               | 971            | 449       | 1420             | 6.4        | 15    | 21.4          |
| 4SD2/33 | 2.2   | 3    |               | 1128           | 539       | 1667             | 7.4        | 17    | 24.4          |
| 4SD2/38 | 2.2   | 3    |               | 1255           | 539       | 1794             | 86         | 17    | 25.6          |
| 4SD2/44 | 3     | 4    |               | 1470           | 557       | 2027             | 9.8        | 17.6  | 27.4          |
| 4SD2/50 | 3     | 4    |               | 1621           | 557       | 2178             | 11         | 17.6  | 28.6          |
| 4SD2/55 | 4     | 5.5  |               | 1780           | 637       | 2417             | 12.2       | 20.7  | 32.9          |
| 4SD2/62 | 4     | 5.5  |               | 1988           | 637       | 2625             | 14         | 20.7  | 34.7          |



## 4SDm3

## ELECTRIC SUBMERSIBLE PUMP

Performance curve (50Hz)

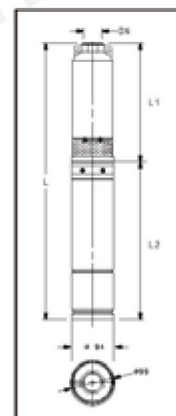


Performance data (50Hz)

| Model          |                | Power |      | Flow range    |     |     |     |     |     |     |     |     |     | Head range<br>(m) | Outlet<br>(inch) |
|----------------|----------------|-------|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|------------------|
| 1phase<br>220V | 3phase<br>380V | kW    | Hp   | m³/h<br>l/min | 0   | 0.6 | 1.2 | 1.8 | 2.4 | 3   | 3.6 | 4.2 | 4.8 |                   |                  |
| 4SDm3/7        | -              | 0.37  | 0.5  | H(m)          | 0   | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 47~25             | 1.25"            |
| 4SDm3/9        | -              | 0.55  | 0.75 |               | 49  | 48  | 47  | 44  | 40  | 35  | 28  | 23  | 12  | 63~35             |                  |
| 4SDm3/11       | 4SD3/11        | 0.75  | 1    |               | 65  | 64  | 63  | 60  | 55  | 48  | 40  | 30  | 19  | 78~43             |                  |
| 4SDm3/13       | 4SD3/13        | 0.75  | 1    |               | 81  | 79  | 78  | 75  | 68  | 60  | 49  | 37  | 24  | 92~51             |                  |
| 4SDm3/15       | 4SD3/15        | 1.1   | 1.5  |               | 96  | 93  | 92  | 89  | 80  | 71  | 58  | 44  | 28  | 106~59            |                  |
| 4SDm3/17       | 4SD3/17        | 1.1   | 1.5  |               | 110 | 108 | 106 | 102 | 96  | 84  | 68  | 49  | 28  | 120~67            |                  |
| 4SDm3/19       | 4SD3/19        | 1.5   | 2    |               | 125 | 122 | 120 | 116 | 109 | 95  | 77  | 56  | 32  | 136~77            |                  |
| 4SDm3/21       | 4SD3/21        | 1.5   | 2    |               | 140 | 138 | 136 | 130 | 120 | 106 | 87  | 66  | 43  | 150~85            |                  |
| 4SDm3/26       | 4SD3/26        | 2.2   | 3    |               | 155 | 153 | 150 | 144 | 133 | 117 | 96  | 73  | 48  | 170~111           |                  |
| 4SDm3/30       | 4SD3/30        | 2.2   | 3    |               | 195 | 193 | 190 | 182 | 168 | 150 | 124 | 96  | 65  | 190~127           |                  |
| -              | 4SD3/35        | 3     | 4    |               | 225 | 223 | 219 | 210 | 194 | 173 | 143 | 111 | 75  | 219~127           |                  |
| -              | 4SD3/40        | 3     | 4    |               | 260 | 258 | 253 | 243 | 224 | 198 | 163 | 124 | 78  | 253~144           |                  |
| -              | 4SD3/45        | 4     | 5.5  |               | 297 | 295 | 289 | 278 | 256 | 226 | 186 | 142 | 89  | 289~165           |                  |
| -              | 4SD3/50        | 4     | 5.5  |               | 332 | 330 | 324 | 310 | 288 | 256 | 208 | 162 | 107 | 324~185           |                  |
| -              | 4SD3/55        | 5.5   | 7.5  |               | 369 | 367 | 360 | 344 | 320 | 284 | 231 | 180 | 114 | 360~206           |                  |
| -              | 4SD3/60        | 7.5   | 10   |               | 400 | 398 | 393 | 380 | 355 | 323 | 250 | 187 | 115 | 393~219           |                  |
| -              | -              | -     | -    |               | 436 | 434 | 429 | 415 | 387 | 352 | 273 | 204 | 125 | 429~241           |                  |

Installation dimensions and weight (50Hz)

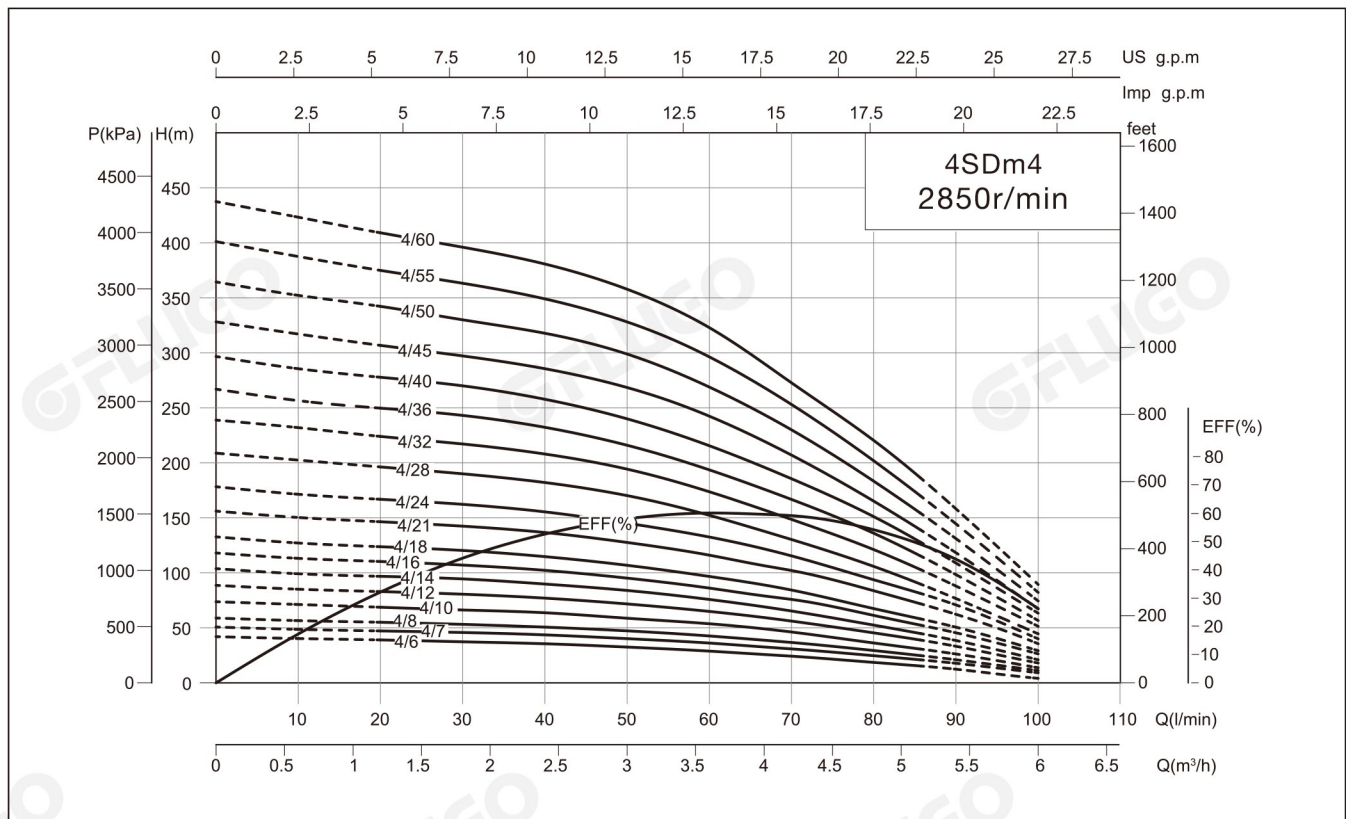
| Model   | Power |      | Outlet<br>(inch) | Dimensions(mm) |           |                  | Weight(kg) |       |               |
|---------|-------|------|------------------|----------------|-----------|------------------|------------|-------|---------------|
|         | kW    | Hp   |                  | Pump(L1)       | Motor(L2) | Electric Pump(L) | Pump       | Motor | Electric Pump |
| 4SD3/7  | 0.37  | 0.5  | 1.25"            | 386            | 324       | 710              | 3.2        | 9     | 12.2          |
| 4SD3/9  | 0.55  | 0.75 |                  | 440            | 344       | 784              | 3.6        | 9.8   | 13.4          |
| 4SD3/11 | 0.75  | 1    |                  | 492            | 369       | 861              | 4.1        | 11    | 15.1          |
| 4SD3/13 | 0.75  | 1    |                  | 546            | 369       | 915              | 4.5        | 11    | 15.5          |
| 4SD3/15 | 1.1   | 1.5  |                  | 631            | 404       | 1035             | 4.9        | 13    | 17.9          |
| 4SD3/17 | 1.1   | 1.5  |                  | 684            | 404       | 1088             | 5.3        | 13    | 18.3          |
| 4SD3/19 | 1.5   | 2    |                  | 738            | 449       | 1187             | 6          | 15    | 21            |
| 4SD3/21 | 1.5   | 2    |                  | 823            | 449       | 1272             | 6.5        | 15    | 21.5          |
| 4SD3/26 | 2.2   | 3    |                  | 956            | 539       | 1495             | 7.8        | 17    | 24.8          |
| 4SD3/30 | 2.2   | 3    |                  | 1063           | 539       | 1602             | 8.6        | 17    | 25.6          |
| 4SD3/35 | 3     | 4    |                  | 1228           | 557       | 1785             | 9.8        | 17.6  | 27.4          |
| 4SD3/40 | 3     | 4    |                  | 1362           | 557       | 1919             | 11         | 17.6  | 28.6          |
| 4SD3/45 | 4     | 5.5  |                  | 1527           | 637       | 2164             | 12.3       | 20.7  | 33            |
| 4SD3/50 | 4     | 5.5  |                  | 1660           | 637       | 2297             | 13.5       | 20.7  | 34.2          |
| 4SD3/55 | 5.5   | 7.5  |                  | 1825           | 712       | 2537             | 14.7       | 25.7  | 40.4          |
| 4SD3/60 | 7.5   | 10   |                  | 1958           | 847       | 2805             | 16         | 32.3  | 48.3          |



## ELECTRIC SUBMERSIBLE PUMP

## 4SDm4

Performance curve (50Hz)

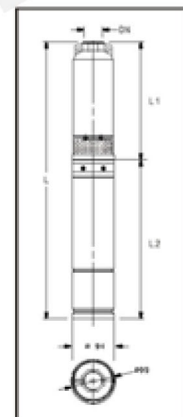


Performance data (50Hz)

| Model          |                | Power |      | Flow range    |     |     |     |     |     |     |     |     |     |     |    | Head range<br>(m) | Outlet<br>(inch) |
|----------------|----------------|-------|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-------------------|------------------|
| 1phase<br>220V | 3phase<br>380V | kW    | Hp   | m³/h<br>l/min | 0   | 0.6 | 1.2 | 1.8 | 2.4 | 3   | 3.6 | 4.2 | 4.8 | 5.4 | 6  |                   |                  |
| 4SDm4/6        | -              | 0.37  | 0.5  | H(m)          | 42  | 40  | 39  | 37  | 35  | 32  | 29  | 24  | 19  | 12  | 4  | 39~15             | 1.25"            |
| 4SDm4/7        | -              | 0.55  | 0.75 |               | 50  | 48  | 47  | 46  | 44  | 40  | 36  | 31  | 25  | 18  | 9  | 47~20             |                  |
| 4SDm4/8        | 4SD4/8         | 0.75  | 1    |               | 59  | 57  | 55  | 53  | 51  | 47  | 43  | 37  | 29  | 21  | 11 | 55~24             |                  |
| 4SDm4/10       | 4SD4/10        | 0.75  | 1    |               | 74  | 71  | 69  | 66  | 64  | 59  | 54  | 46  | 36  | 26  | 14 | 69~30             |                  |
| 4SDm4/12       | 4SD4/12        | 1.1   | 1.5  |               | 89  | 85  | 83  | 81  | 77  | 72  | 65  | 56  | 45  | 33  | 18 | 83~38             |                  |
| 4SDm4/14       | 4SD4/14        | 1.1   | 1.5  |               | 104 | 99  | 97  | 95  | 90  | 84  | 76  | 65  | 53  | 39  | 21 | 97~43             |                  |
| 4SDm4/16       | 4SD4/16        | 1.5   | 2    |               | 118 | 113 | 110 | 107 | 102 | 95  | 86  | 75  | 60  | 45  | 26 | 110~51            |                  |
| 4SDm4/18       | 4SD4/18        | 1.5   | 2    |               | 133 | 127 | 124 | 120 | 115 | 107 | 97  | 84  | 68  | 51  | 29 | 124~57            |                  |
| 4SDm4/21       | 4SD4/21        | 2.2   | 3    |               | 156 | 150 | 146 | 142 | 136 | 127 | 116 | 101 | 82  | 62  | 35 | 146~70            |                  |
| 4SDm4/24       | 4SD4/24        | 2.2   | 3    |               | 178 | 171 | 167 | 162 | 155 | 145 | 133 | 115 | 94  | 71  | 40 | 167~79            |                  |
| -              | 4SD4/28        | 3     | 4    |               | 209 | 203 | 196 | 190 | 182 | 170 | 152 | 130 | 106 | 77  | 45 | 196~87            |                  |
| -              | 4SD4/32        | 3     | 4    |               | 239 | 232 | 224 | 217 | 208 | 194 | 174 | 149 | 121 | 88  | 51 | 224~100           |                  |
| -              | 4SD4/36        | 4     | 5.5  |               | 267 | 257 | 250 | 243 | 232 | 216 | 194 | 167 | 136 | 98  | 57 | 250~112           |                  |
| -              | 4SD4/40        | 4     | 5.5  |               | 297 | 286 | 278 | 270 | 258 | 240 | 216 | 186 | 151 | 109 | 63 | 278~124           |                  |
| -              | 4SD4/45        | 5.5   | 7.5  |               | 328 | 317 | 308 | 297 | 286 | 269 | 242 | 207 | 165 | 118 | 67 | 308~134           |                  |
| -              | 4SD4/50        | 5.5   | 7.5  |               | 364 | 352 | 342 | 330 | 318 | 299 | 269 | 230 | 183 | 131 | 74 | 342~149           |                  |
| -              | 4SD4/55        | 7.5   | 10   |               | 401 | 388 | 375 | 363 | 349 | 328 | 296 | 250 | 202 | 145 | 82 | 375~164           |                  |
| -              | 4SD4/60        | 7.5   | 10   |               | 437 | 423 | 409 | 396 | 381 | 358 | 323 | 273 | 220 | 158 | 89 | 409~180           |                  |

Installation dimensions and weight (50Hz)

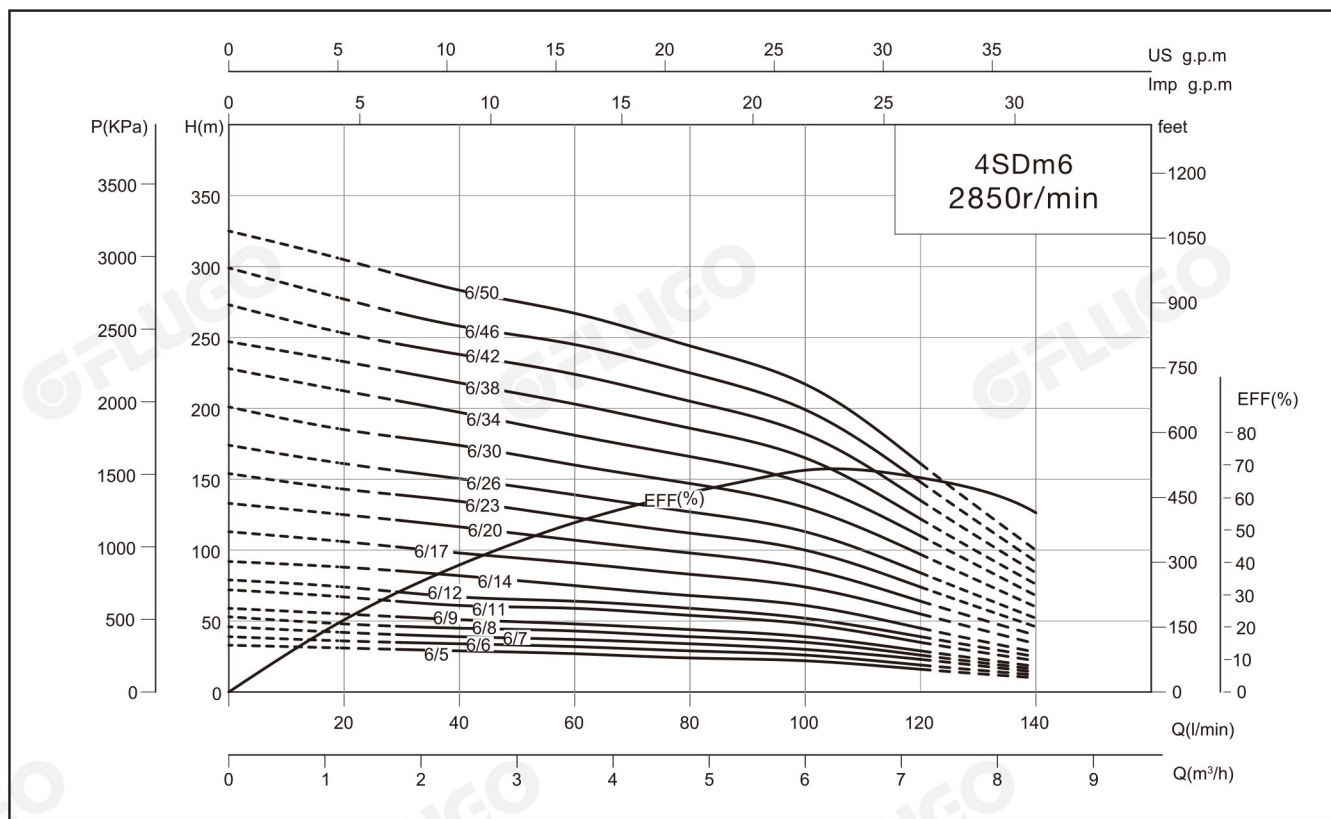
| Model    | Power |      | Outlet<br>(inch) | Dimensions(mm) |           |                  | Weight(kg) |       |               |
|----------|-------|------|------------------|----------------|-----------|------------------|------------|-------|---------------|
|          | kW    | Hp   |                  | Pump(L1)       | Motor(L2) | Electric Pump(L) | Pump       | Motor | Electric Pump |
| 4SDm4/6  | 0.37  | 0.5  | 1.25"            | 374            | 324       | 698              | 3.2        | 9     | 12.2          |
| 4SDm4/7  | 0.55  | 0.75 |                  | 403            | 344       | 747              | 3.5        | 9.8   | 13.3          |
| 4SDm4/8  | 0.75  | 1    |                  | 432            | 369       | 801              | 3.8        | 11    | 14.8          |
| 4SDm4/10 | 0.75  | 1    |                  | 490            | 369       | 859              | 4.4        | 11    | 15.4          |
| 4SDm4/12 | 1.1   | 1.5  |                  | 548            | 404       | 952              | 5          | 13    | 18            |
| 4SDm4/14 | 1.1   | 1.5  |                  | 638            | 404       | 1042             | 5.5        | 13    | 18.5          |
| 4SDm4/16 | 1.5   | 2    |                  | 696            | 449       | 1145             | 6.1        | 15    | 21.1          |
| 4SDm4/18 | 1.5   | 2    |                  | 754            | 449       | 1203             | 6.6        | 15    | 21.6          |
| 4SDm4/21 | 2.2   | 3    |                  | 873            | 539       | 1412             | 7.4        | 17    | 24.4          |
| 4SDm4/24 | 2.2   | 3    |                  | 961            | 539       | 1500             | 8.2        | 17    | 25.2          |
| 4SD4/28  | 3     | 4    |                  | 1105           | 557       | 1662             | 9.2        | 176   | 26.8          |
| 4SD4/32  | 3     | 4    |                  | 1253           | 557       | 1810             | 10.4       | 176   | 28            |
| 4SD4/36  | 4     | 5.5  |                  | 1369           | 637       | 2006             | 11.5       | 207   | 32.2          |
| 4SD4/40  | 4     | 5.5  |                  | 1517           | 637       | 2154             | 12.6       | 20.7  | 33.3          |
| 4SD4/45  | 5.5   | 7.5  |                  | 1662           | 712       | 2374             | 14         | 257   | 39.7          |
| 4SD4/50  | 5.5   | 7.5  |                  | 1839           | 712       | 2551             | 15.5       | 257   | 41.2          |
| 4SD4/55  | 7.5   | 10   |                  | 1985           | 847       | 2832             | 16.8       | 323   | 49.1          |
| 4SD4/60  | 7.5   | 10   |                  | 2162           | 847       | 3009             | 18.3       | 323   | 50.6          |



## 4SDm6

## ELECTRIC SUBMERSIBLE PUMP

Performance curve (50Hz)

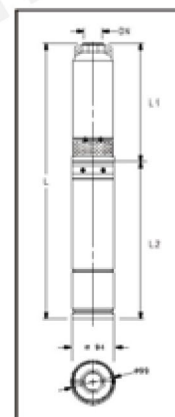


Performance data (50Hz)

| Model          |                | Power |      | Flow range    |     |     |     |     |     |     |     |     | Head range<br>(m) | Outlet<br>(inch) |
|----------------|----------------|-------|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|------------------|
| 1phase<br>220V | 3phase<br>380V | kW    | Hp   | m³/h<br>l/min | 0   | 1.2 | 2.4 | 3.6 | 4.8 | 6   | 7.2 | 8.4 |                   |                  |
| 4SDm6/5        | -              | 0.37  | 0.5  | H(m)          | 0   | 20  | 40  | 60  | 80  | 100 | 120 | 140 | 30 ~ 16           | 1.5"             |
| 4SDm6/6        | -              | 0.55  | 0.75 |               | 33  | 31  | 29  | 27  | 24  | 22  | 16  | 10  | 35 ~ 19           |                  |
| 4SDm6/7        | 4SD6/7         | 0.75  | 1    |               | 39  | 36  | 34  | 32  | 29  | 26  | 19  | 12  | 40 ~ 23           |                  |
| 4SDm6/8        | 4SD6/8         | 0.75  | 1    |               | 46  | 42  | 39  | 37  | 34  | 30  | 23  | 14  | 46 ~ 26           |                  |
| 4SDm6/9        | 4SD6/9         | 1.1   | 1.5  |               | 53  | 48  | 45  | 43  | 39  | 35  | 26  | 16  | 53 ~ 29           |                  |
| 4SDm6/11       | 4SD6/11        | 1.1   | 1.5  |               | 59  | 55  | 51  | 48  | 44  | 39  | 29  | 18  | 64 ~ 35           |                  |
| 4SDm6/12       | 4SD6/12        | 1.5   | 2    |               | 72  | 67  | 61  | 59  | 54  | 48  | 35  | 22  | 70 ~ 39           |                  |
| 4SDm6/14       | 4SD6/14        | 1.5   | 2    |               | 79  | 74  | 67  | 64  | 59  | 52  | 39  | 24  | 85 ~ 45           |                  |
| 4SDm6/17       | 4SD6/17        | 2.2   | 3    |               | 92  | 86  | 78  | 75  | 68  | 61  | 45  | 28  | 102 ~ 55          |                  |
| 4SDm6/20       | 4SD6/20        | 2.2   | 3    |               | 113 | 106 | 98  | 91  | 83  | 74  | 55  | 34  | 121 ~ 64          |                  |
| -              | 4SD6/23        | 3     | 4    |               | 133 | 125 | 113 | 107 | 98  | 87  | 64  | 40  | 139 ~ 74          |                  |
| -              | 4SD6/26        | 3     | 4    |               | 154 | 142 | 132 | 123 | 112 | 100 | 74  | 46  | 156 ~ 84          |                  |
| -              | 4SD6/30        | 4     | 5.5  |               | 174 | 161 | 150 | 139 | 127 | 113 | 84  | 52  | 179 ~ 97          |                  |
| -              | 4SD6/34        | 4     | 5.5  |               | 201 | 185 | 172 | 160 | 147 | 130 | 97  | 60  | 205 ~ 110         |                  |
| -              | 4SD6/38        | 5.5   | 7.5  |               | 228 | 210 | 192 | 181 | 166 | 147 | 110 | 68  | 226 ~ 122         |                  |
| -              | 4SD6/42        | 5.5   | 7.5  |               | 247 | 229 | 220 | 203 | 186 | 165 | 122 | 76  | 245 ~ 135         |                  |
| -              | 4SD6/46        | 7.5   | 10   |               | 273 | 253 | 238 | 224 | 205 | 182 | 135 | 84  | 267 ~ 148         |                  |
| -              | 4SD6/50        | 7.5   | 10   |               | 299 | 280 | 260 | 245 | 225 | 199 | 148 | 92  | 294 ~ 161         |                  |
| -              | -              | -     | -    |               | 325 | 303 | 284 | 267 | 244 | 217 | 161 | 100 | -                 |                  |

Installation dimensions and weight (50Hz)

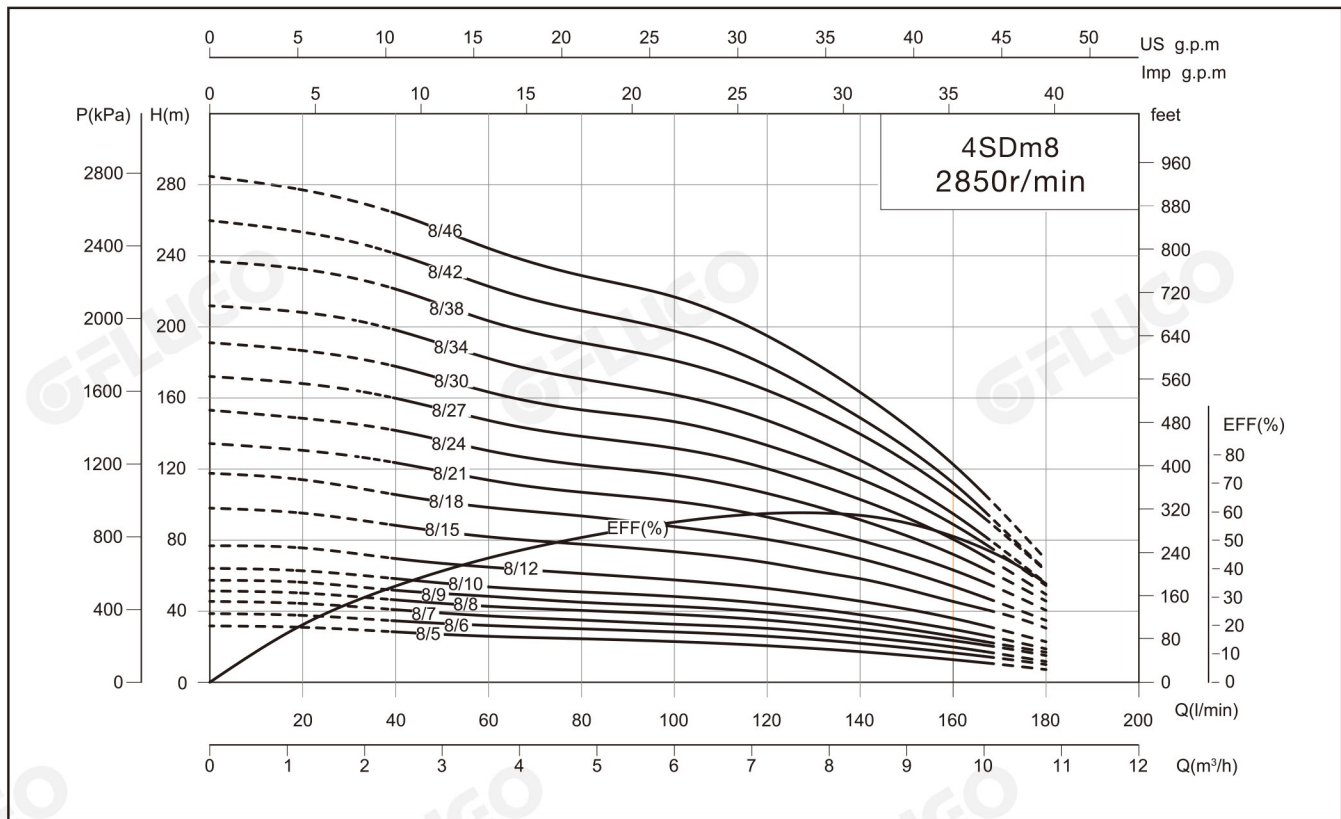
| Model   | Power |      | Outlet<br>(inch) | Dimensions(mm) |           |                  | Weight(kg) |       |               |
|---------|-------|------|------------------|----------------|-----------|------------------|------------|-------|---------------|
|         | kW    | Hp   |                  | Pump(L1)       | Motor(L2) | Electric Pump(L) | Pump       | Motor | Electric Pump |
| 4SD6/5  | 0.37  | 0.5  | 1.5"             | 354            | 324       | 678              | 3.2        | 9     | 122           |
| 4SD6/6  | 0.55  | 0.75 |                  | 385            | 344       | 729              | 3.5        | 9.8   | 133           |
| 4SD6/7  | 0.75  | 1    |                  | 415            | 369       | 784              | 3.8        | 11    | 148           |
| 4SD6/8  | 0.75  | 1    |                  | 446            | 369       | 815              | 4.2        | 11    | 15.2          |
| 4SD6/9  | 1.1   | 1.5  |                  | 477            | 404       | 881              | 4.5        | 13    | 17.5          |
| 4SD6/11 | 1.1   | 1.5  |                  | 538            | 404       | 942              | 5.2        | 13    | 182           |
| 4SD6/12 | 1.5   | 2    |                  | 569            | 449       | 1018             | 5.6        | 15    | 206           |
| 4SD6/14 | 1.5   | 2    |                  | 663            | 449       | 1112             | 6.4        | 15    | 21.4          |
| 4SD6/17 | 2.2   | 3    |                  | 755            | 539       | 1294             | 7.6        | 17    | 246           |
| 4SD6/20 | 2.2   | 3    |                  | 847            | 539       | 1386             | 8.8        | 17    | 258           |
| 4SD6/23 | 3     | 4    |                  | 1005           | 557       | 1562             | 10         | 17.6  | 276           |
| 4SD6/26 | 3     | 4    |                  | 1097           | 557       | 1654             | 11.2       | 17.6  | 288           |
| 4SD6/30 | 4     | 5.5  |                  | 1220           | 637       | 1857             | 12.8       | 20.7  | 335           |
| 4SD6/34 | 4     | 5.5  |                  | 1375           | 637       | 2012             | 14.4       | 20.7  | 35.1          |
| 4SD6/38 | 5.5   | 7.5  |                  | 1531           | 712       | 2243             | 16.2       | 25.7  | 419           |
| 4SD6/42 | 5.5   | 7.5  |                  | 1654           | 712       | 2366             | 17.8       | 25.7  | 435           |
| 4SD6/46 | 7.5   | 10   | 1.5"             | 1809           | 847       | 2656             | 18.6       | 32.3  | 509           |
| 4SD6/50 | 7.5   | 10   |                  | 1932           | 847       | 2779             | 21         | 32.3  | 533           |



## ELECTRIC SUBMERSIBLE PUMP

## 4SDm8

Performance curve (50Hz)

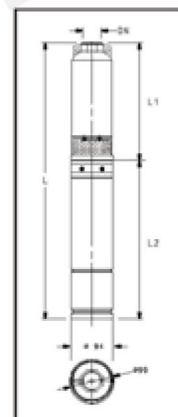


Performance data (50Hz)

| Model    |         | Power |      | Flow range |     |       |     |     |     |     |     |     |     |         | Head range<br>(m) | Outlet<br>(inch) |
|----------|---------|-------|------|------------|-----|-------|-----|-----|-----|-----|-----|-----|-----|---------|-------------------|------------------|
| 1phase   | 3phase  | kW    | Hp   | m³/h       | 0   | 1.2   | 2.4 | 3.6 | 4.8 | 6   | 7.2 | 8.4 | 9.6 | 10.8    |                   |                  |
| 220V     | 380V    |       |      |            |     | l/min | 0   | 20  | 40  | 60  | 80  | 100 | 120 | 140     | 160               | 180              |
| 4SDm8/5  | -       | 0.55  | 0.75 | H(m)       | 32  | 31    | 28  | 26  | 25  | 23  | 21  | 17  | 13  | 7       | 28~11             | 2"               |
| 4SDm8/6  | 4SD8/6  | 0.75  | 1    |            | 39  | 38    | 35  | 32  | 30  | 28  | 26  | 22  | 17  | 10      | 35~15             |                  |
| 4SDm8/7  | 4SD8/7  | 0.75  | 1    |            | 46  | 44    | 41  | 37  | 35  | 33  | 30  | 26  | 20  | 12      | 41~17             |                  |
| 4SDm8/8  | 4SD8/8  | 1.1   | 1.5  |            | 51  | 50    | 46  | 43  | 40  | 38  | 35  | 30  | 23  | 15      | 46~21             |                  |
| 4SDm8/9  | 4SD8/9  | 1.1   | 1.5  |            | 57  | 56    | 52  | 48  | 45  | 43  | 39  | 34  | 26  | 17      | 52~23             |                  |
| 4SDm8/10 | 4SD8/10 | 1.5   | 2    |            | 64  | 63    | 58  | 54  | 51  | 48  | 44  | 38  | 30  | 19      | 58~26             |                  |
| 4SDm8/12 | 4SD8/12 | 1.5   | 2    |            | 77  | 76    | 70  | 65  | 61  | 58  | 53  | 46  | 36  | 23      | 70~32             |                  |
| 4SDm8/15 | 4SD8/15 | 2.2   | 3    |            | 98  | 95    | 88  | 82  | 78  | 73  | 67  | 58  | 45  | 29      | 88~41             |                  |
| 4SDm8/18 | 4SD8/18 | 2.2   | 3    |            | 118 | 114   | 106 | 98  | 94  | 88  | 80  | 70  | 54  | 35      | 106~48            |                  |
| -        | 4SD8/21 | 3     | 4    |            | 134 | 130   | 124 | 114 | 107 | 102 | 93  | 80  | 63  | 40      | 124~56            |                  |
| -        | 4SD8/24 | 3     | 4    |            | 153 | 149   | 142 | 130 | 122 | 117 | 106 | 91  | 72  | 46      | 142~64            |                  |
| -        | 4SD8/27 | 4     | 5.5  |            | 172 | 168   | 160 | 147 | 138 | 132 | 120 | 103 | 80  | 49      | 160~71            |                  |
| -        | 4SD8/30 | 4     | 5.5  |            | 191 | 187   | 178 | 163 | 153 | 147 | 133 | 114 | 89  | 54      | 178~78            |                  |
| -        | 4SD8/34 | 5.5   | 7.5  |            | 212 | 208   | 198 | 182 | 171 | 162 | 147 | 125 | 95  | 56      | 198~83            |                  |
| -        | 4SD8/38 | 5.5   | 7.5  |            | 237 | 232   | 221 | 203 | 191 | 181 | 164 | 140 | 106 | 62      | 221~93            |                  |
| -        | 4SD8/42 | 7.5   | 10   |            | 260 | 253   | 241 | 223 | 209 | 198 | 178 | 149 | 112 | 63      | 241~97            |                  |
| -        | 4SD8/46 | 7.5   | 10   | 285        | 277 | 264   | 244 | 229 | 217 | 195 | 163 | 123 | 69  | 264~106 |                   |                  |

Installation dimensions and weight (50Hz)

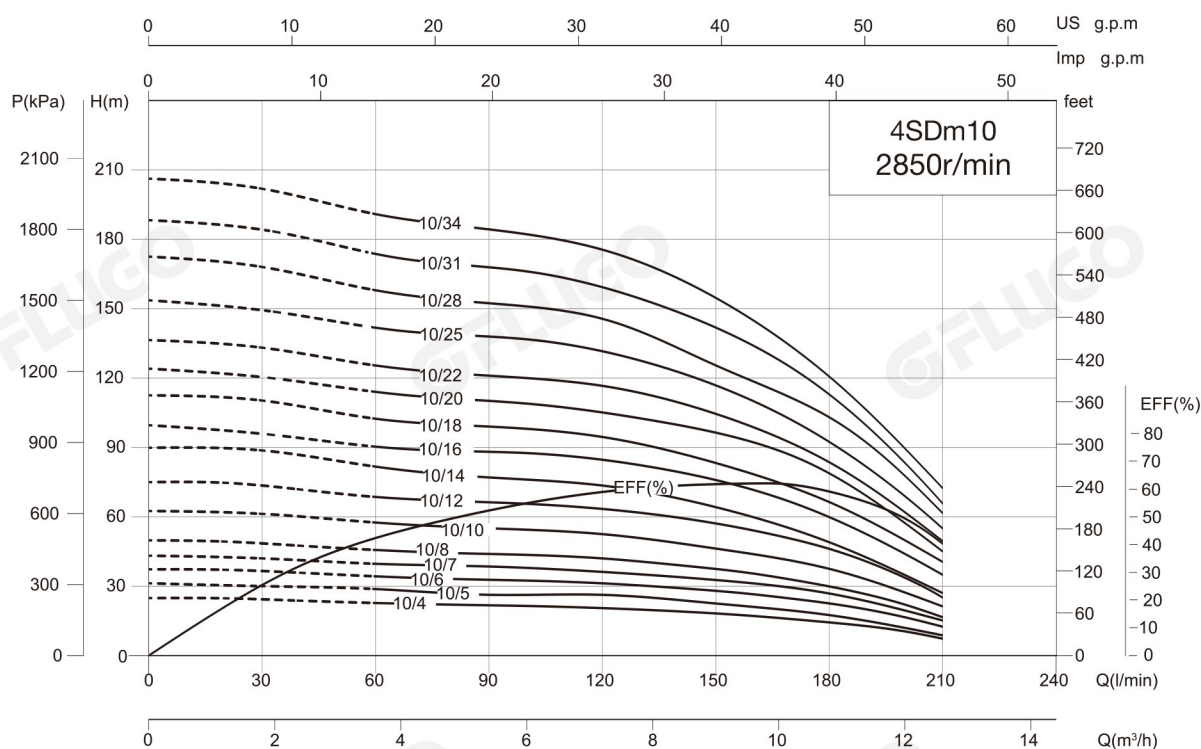
| Model   | Power |      | Outlet (inch) | Dimensions(mm) |           |                  | Weight(kg) |       |               |
|---------|-------|------|---------------|----------------|-----------|------------------|------------|-------|---------------|
|         | kW    | Hp   |               | Pump(L1)       | Motor(L2) | Electric Pump(L) | Pump       | Motor | Electric Pump |
| 4SD8/5  | 0.55  | 0.75 | 2"            | 390            | 344       | 734              | 35         | 9.8   | 133           |
| 4SD8/6  | 0.75  | 1    |               | 429            | 369       | 798              | 38         | 11    | 148           |
| 4SD8/7  | 0.75  | 1    |               | 467            | 369       | 836              | 4.1        | 11    | 15.1          |
| 4SD8/8  | 1.1   | 1.5  |               | 505            | 404       | 909              | 4.4        | 13    | 17.4          |
| 4SD8/9  | 1.1   | 1.5  |               | 543            | 404       | 947              | 4.7        | 13    | 17.7          |
| 4SD8/10 | 1.5   | 2    |               | 581            | 449       | 1030             | 5          | 15    | 20            |
| 4SD8/12 | 1.5   | 2    |               | 657            | 449       | 1106             | 56         | 15    | 20.6          |
| 4SD8/15 | 2.2   | 3    |               | 804            | 539       | 1343             | 6.4        | 17    | 23.4          |
| 4SD8/18 | 2.2   | 3    |               | 919            | 539       | 1458             | 7.3        | 17    | 24.3          |
| 4SD8/21 | 3     | 4    |               | 1099           | 557       | 1656             | 82         | 17.6  | 25.8          |
| 4SD8/24 | 3     | 4    |               | 1213           | 557       | 1770             | 9.1        | 176   | 26.7          |
| 4SD8/27 | 4     | 5.5  |               | 1327           | 637       | 1964             | 10         | 20.7  | 30.7          |
| 4SD8/30 | 4     | 5.5  |               | 1441           | 637       | 2078             | 11         | 20.7  | 31.7          |
| 4SD8/34 | 5.5   | 7.5  |               | 1626           | 712       | 2338             | 12.3       | 25.7  | 38            |
| 4SD8/38 | 5.5   | 7.5  |               | 1811           | 712       | 2523             | 13.5       | 25.7  | 39.2          |
| 4SD8/42 | 7.5   | 10   |               | 1964           | 847       | 2811             | 148        | 323   | 47.1          |
| 4SD8/46 | 7.5   | 10   |               | 2149           | 847       | 2996             | 16         | 323   | 48.3          |



## 4SDm10

## ELECTRIC SUBMERSIBLE PUMP

Performance curve (50Hz)

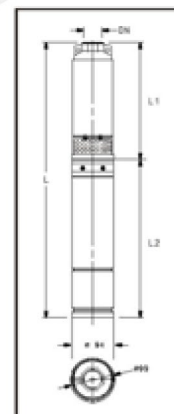


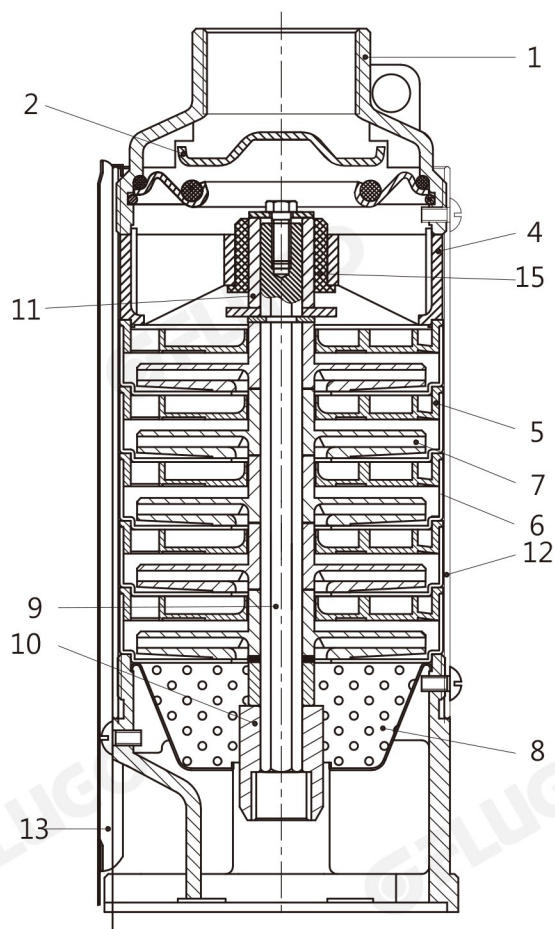
Performance data (50Hz)

| Model     |          | Power |     | Flow range |     |       |     |     |     |     |     |      |        | Head range<br>(m) | Outlet<br>(inch) |
|-----------|----------|-------|-----|------------|-----|-------|-----|-----|-----|-----|-----|------|--------|-------------------|------------------|
| 1phase    | 3phase   | kW    | Hp  | m³/h       | 0   | 1.8   | 3.6 | 5.4 | 7.2 | 9   | 108 | 12.6 |        |                   |                  |
| 220V      | 380V     |       |     |            |     | l/min | 0   | 30  | 60  | 90  | 120 | 150  | 180    | 210               |                  |
| 4SDm10/4  | 4SD10/4  | 0.75  | 1   | H(m)       | 25  | 24    | 23  | 22  | 21  | 18  | 14  | 7    | 23~7   | 2"                |                  |
| 4SDm10/5  | 4SD10/5  | 0.75  | 1   |            | 31  | 30    | 29  | 27  | 26  | 23  | 18  | 9    | 29~9   |                   |                  |
| 4SDm10/6  | 4SD10/6  | 1.1   | 1.5 |            | 37  | 36    | 34  | 33  | 31  | 28  | 23  | 13   | 34~13  |                   |                  |
| 4SDm10/7  | 4SD10/7  | 1.1   | 1.5 |            | 43  | 42    | 40  | 39  | 36  | 33  | 27  | 15   | 40~15  |                   |                  |
| 4SDm10/8  | 4SD10/8  | 1.5   | 2   |            | 50  | 49    | 46  | 44  | 42  | 37  | 30  | 17   | 47~17  |                   |                  |
| 4SDm10/10 | 4SD10/10 | 1.5   | 2   |            | 63  | 61    | 58  | 55  | 53  | 46  | 38  | 21   | 59~21  |                   |                  |
| 4SDm10/12 | 4SD10/12 | 2.2   | 3   |            | 77  | 76    | 70  | 66  | 63  | 55  | 42  | 22   | 70~22  |                   |                  |
| 4SDm10/14 | 4SD10/14 | 2.2   | 3   |            | 90  | 89    | 82  | 77  | 74  | 64  | 49  | 26   | 84~26  |                   |                  |
| -         | 4SD10/16 | 3     | 4   |            | 100 | 98    | 91  | 88  | 84  | 74  | 59  | 36   | 92~36  |                   |                  |
| -         | 4SD10/18 | 3     | 4   |            | 113 | 110   | 102 | 99  | 95  | 83  | 66  | 41   | 105~41 |                   |                  |
| -         | 4SD10/20 | 4     | 5.5 |            | 124 | 121   | 114 | 110 | 106 | 95  | 76  | 45   | 116~45 |                   |                  |
| -         | 4SD10/22 | 4     | 5.5 |            | 136 | 133   | 125 | 121 | 117 | 105 | 84  | 50   | 128~50 |                   |                  |
| -         | 4SD10/25 | 5.5   | 7.5 |            | 154 | 150   | 141 | 136 | 130 | 116 | 92  | 55   | 144~55 |                   |                  |
| -         | 4SD10/28 | 5.5   | 7.5 |            | 172 | 168   | 158 | 152 | 146 | 125 | 103 | 62   | 161~62 |                   |                  |
| -         | 4SD10/31 | 7.5   | 10  |            | 188 | 184   | 174 | 168 | 160 | 141 | 110 | 66   | 177~66 |                   |                  |
| -         | 4SD10/34 | 7.5   | 10  |            | 206 | 202   | 191 | 184 | 175 | 155 | 121 | 72   | 194~72 |                   |                  |

Installation dimensions and weight (50Hz)

| Model    | Power |     | Outlet<br>(inch) | Dimensions(mm) |           |                  | Weight(kg) |       |               |
|----------|-------|-----|------------------|----------------|-----------|------------------|------------|-------|---------------|
|          | kW    | Hp  |                  | Pump(L1)       | Motor(L2) | Electric Pump(L) | Pump       | Motor | Electric Pump |
| 4SD10/4  | 0.75  | 1   | 2"               | 354            | 369       | 723              | 3.2        | 11    | 14.2          |
| 4SD10/5  | 0.75  | 1   |                  | 391            | 369       | 760              | 3.5        | 11    | 14.5          |
| 4SD10/6  | 1.1   | 1.5 |                  | 429            | 404       | 833              | 3.8        | 13    | 16.8          |
| 4SD10/7  | 1.1   | 1.5 |                  | 467            | 404       | 871              | 4.1        | 13    | 17.1          |
| 4SD10/8  | 1.5   | 2   |                  | 505            | 449       | 954              | 4.4        | 15    | 19.4          |
| 4SD10/10 | 1.5   | 2   |                  | 581            | 449       | 1030             | 5          | 15    | 20            |
| 4SD10/12 | 2.2   | 3   |                  | 657            | 539       | 1196             | 5.6        | 17    | 22.6          |
| 4SD10/14 | 2.2   | 3   |                  | 766            | 539       | 1305             | 6.2        | 17    | 23.2          |
| 4SD10/16 | 3     | 4   |                  | 876            | 557       | 1433             | 6.8        | 17.6  | 24.4          |
| 4SD10/18 | 3     | 4   |                  | 952            | 557       | 1509             | 7.4        | 17.6  | 25            |
| 4SD10/20 | 4     | 5.5 |                  | 1060           | 637       | 1697             | 8          | 20.7  | 28.7          |
| 4SD10/22 | 4     | 5.5 |                  | 1137           | 637       | 1774             | 8.6        | 20.7  | 29.3          |
| 4SD10/25 | 5.5   | 7.5 |                  | 1251           | 712       | 1963             | 9.5        | 25.7  | 35.2          |
| 4SD10/28 | 5.5   | 7.5 |                  | 1398           | 712       | 2110             | 10.4       | 25.7  | 36.1          |
| 4SD10/31 | 7.5   | 10  |                  | 1512           | 847       | 2359             | 12         | 32.3  | 44.3          |
| 4SD10/34 | 7.5   | 10  |                  | 1659           | 847       | 2506             | 12.9       | 32.3  | 45.2          |





SD series material

| No. | Component         | Material                     |
|-----|-------------------|------------------------------|
| 1   | Discharge chamber | Brass/Cating/Stainless steel |
| 2   | Check valve       | PC                           |
| 4   | Top diffuser      | PC                           |
| 5   | Diffuser          | PC                           |
| 6   | Guide vanes       | PC                           |
| 7   | Impeller          | POM                          |
| 8   | Strainer          | Stainless steel              |
| 9   | Pumpshaft         | Stainless steel              |
| 10  | Coupling          | Stainless steel              |
| 11  | Sleeve            | Stainless steel              |
| 12  | Cylinder          | Stainless steel              |
| 13  | Cable guard       | Stainless steel              |
| 15  | Bearing           | Polyurethane                 |

### Single-phase Automatic control box

#### Operating conditions

Rated input voltage: AC220V/50Hz-60Hz  
 Rated output power: 0.18~2.2kW  
 Protection class: IP44  
 Working temperature: -25 ~ +55°C  
 Working humidity: 20%~ 90%, no condensing

#### Function description:

Direct on line  
 Over-load protection  
 Manual recovery



CB-01

#### Operating conditions

Rated input voltage: AC220V/50Hz-60Hz  
 Rated output power: 0.18~2.2kW  
 Protection class: IP44  
 Working temperature: -25 ~ +55°C  
 Working humidity: 20%~ 90%, no condensing

#### Function description:

Direct on line  
 Over-load protection  
 Manual recovery



CB-02

#### Operating conditions

Rated input voltage: AC220V/50Hz-60Hz  
 Rated output power: 0.18~2.2kW  
 Protection class: IP44  
 Working temperature: -25 ~ +55°C  
 Working humidity: 20%~ 90%, no condensing

#### Function description:

Direct on line  
 Over load protection  
 Pump stalled protection  
 Dry run protection  
 Under voltage protection  
 Over voltage protection  
 Open phase protection  
 Push button calibration  
 LCD screen locked function under Auto state  
 Pump last five fault record displaying  
 Pump accumulative running time displaying  
 Control and protect universal pump  
 Using water level sensor ,float switch or pressure switch to control pump start and stop  
 Applied for water supply by liquid level control through float switch or liquid probe  
 Applied for water supply by pressure control through pressure switch and pressure tank  
 Applied for drai nage by liquid level control through float switch or liquid probe



CB-03

## ELECTRIC SUBMERSIBLE PUMP

### Three-phase Intelligent control box

#### Operating conditions

Rated input voltage: AC380V/50Hz-60Hz  
 Rated output power: 0.75~18.5kW  
 Protection class: IP44  
 Working temperature: -25 ~ +55°C  
 Working humidity: 20%~ 90%, no condensing

#### Function description:

Direct on line  
 Over load protection  
 Pump stalled protection  
 Dry run protection  
 Under voltage protection  
 Over voltage protection  
 Open phase protection  
 Push button calibration  
 LCD screen locked function under Auto state  
 Pump last five fault record displaying  
 Pump accumulative running time displaying  
 Control and protect universal pump  
 Using water level sensor ,float switch or pressure switch to control pump start and stop  
 Applied for water supply by liquid level control through float switch or liquid probe  
 Applied for water supply by pressure control through pressure switch and pressure tank  
 Applied for drainage by liquid level control through float switch or liquid probe



TB-01

#### Operating conditions

Rated input voltage: AC380V, Three phase 50Hz/ 60Hz  
 Rated output power: 18.5-92kW  
 Protection class: IP54  
 Working temperature: -25~+55°C  
 Working humidity: 20%~90%RH, no condensing

#### Function description:

Direct on line  
 Over load protection  
 Pump stalled protection  
 Dry run protection  
 Under voltage protection  
 Over voltage protection  
 Open phase protection  
 Push button calibration  
 LCD screen locked function under Auto state  
 Pump last five fault record displaying  
 Pump accumulative running time displaying  
 Control and protect universal pump  
 Using water level sensor ,float switch or pressure switch to control pump start and stop  
 Applied for water supply by liquid level control through float switch or liquid probe  
 Applied for water supply by pressure control through pressure switch and pressure tank  
 Applied for drainage by liquid level control through float switch or liquid probe



TB-02



TB-03

Authorized Distributor



SD/SK/SP Series  
Elecetric Submersible Pump