



We Make The Difference

WDROO SERIES
WF, WX,
WG, WV

50Hz

**Submersible
sewage pump**

hydroo[®]



PRESENTATION

HYDROO has set up a worldwide distribution network with key partners and is providing value to pump engineers and end users. We have an extensive pump portfolio with high-end solutions for many applications, including water-supply booster sets, fire-fighting equipment, borehole, HVAC, drainage and sewage, utilities, irrigation, desalination and RO equipment, and OEM integration, among many others. We provide solutions for all markets for 50 Hz and 60 Hz, including customized versions.

HYDROO has a factory in Palol de Revardit (Catalonia- Spain). It's been sized to guarantee our reliable, long-term, personalized manner and offer the best service to all our customers. We provide a wide range of products in an extremely short delivery time, thanks to our Lean manufacturing processes and our qualified professional and enthusiastic team.

Our commitment to ethics and legislation in relation to third parties is compiled in a public document of principles. The document has been agreed upon by the entire Hydroo team and its implementation is being coordinated by a committee to ensure the compliance and strengthening of the corporate culture in the whole company.

The expansion of Hydroo is based on excellence in operations and a successful business relationship with partners. Therefore, we face a strong growth in the target market. We are fully audited by SGS for ISO9001 and ISO14000 standards annually.

At HYDROO, we are committed to providing excellent service to our valued pump partners.

WF, WX, WG, WV

Submersible
sewage pump

Applications

Raw water
Municipal and industrial
waster water
Rain water
Sewage works
General industrial services

Description

Robust and reliable submersible pumps for waste water applications. Pumps with double and multiple channel impellers. Auto-coupling devices and hard pipe elbows available on request for all the models.

Performance range

Capacity: Q up to 1100 m³/h

Head: H up to 66 m

Temperature: T up to 40 °C

Speed: n 2900/1450 rpm

Power: P2 up to 75 kW

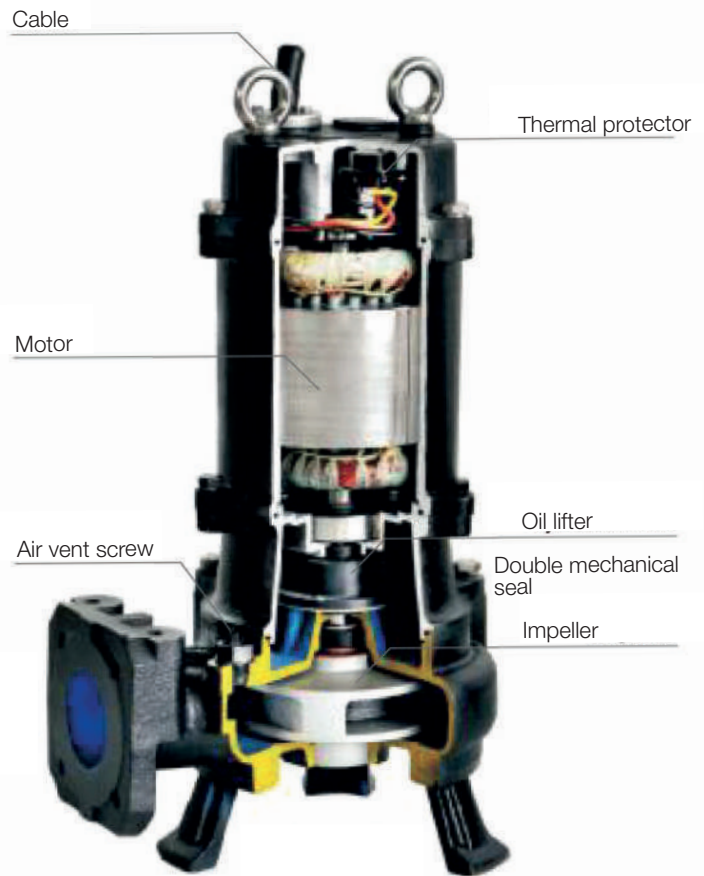
Standard material

WF: Cast iron

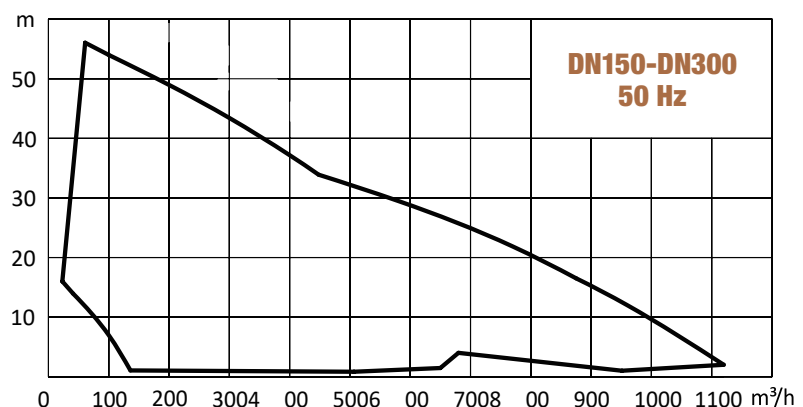
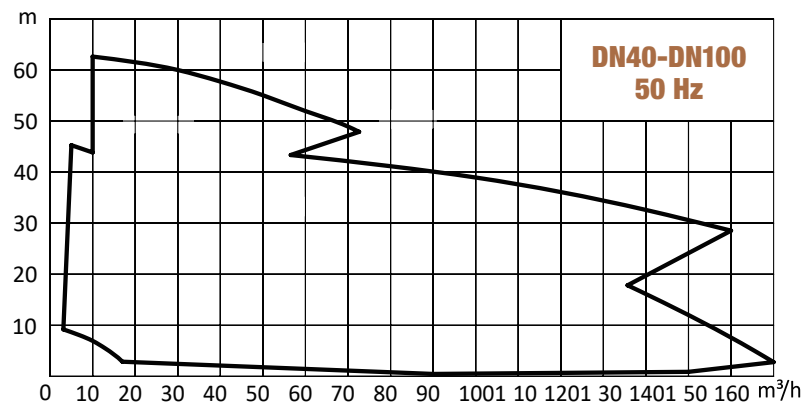
WX: AISI304 Stainless Steel

Other materials on demand

Section drawing



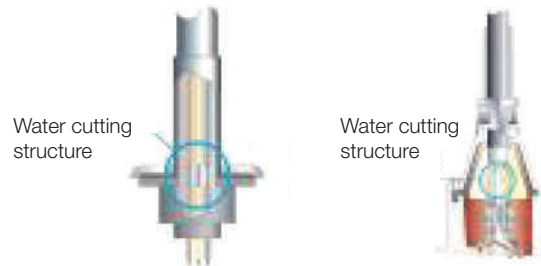
Performance scope



Summary

WDROO series are submersible robust compact sewage pumps for the most demanding applications in Waste Water Treatment Plants. Strongest points of the series are::

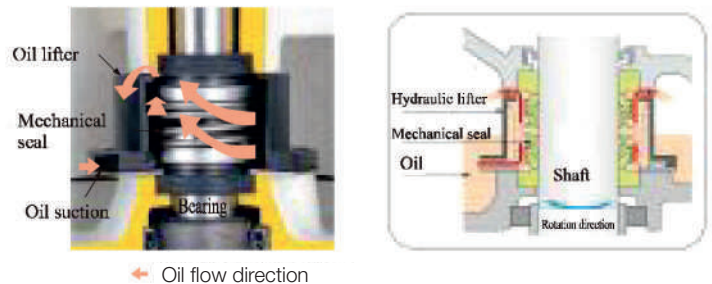
1. The special cable connection design prevent water leakage into the motor even in case of cable break.



2. The motor casing has been designed with a protection IP68 and winding class F, complying with UL778 requirements. It is a robust motor for S1 and S2 operation mode and easy cooling with minimum immersion depth. Thermal protection is included to avoid any motor abnormal working condition.



3. The motor casing has been designed with a protection IP68 and winding class F, complying with UL778 requirements. It is a robust motor for S1 and S2 operation mode and easy cooling with minimum immersion depth. Thermal protection is included to avoid any motor abnormal working condition.



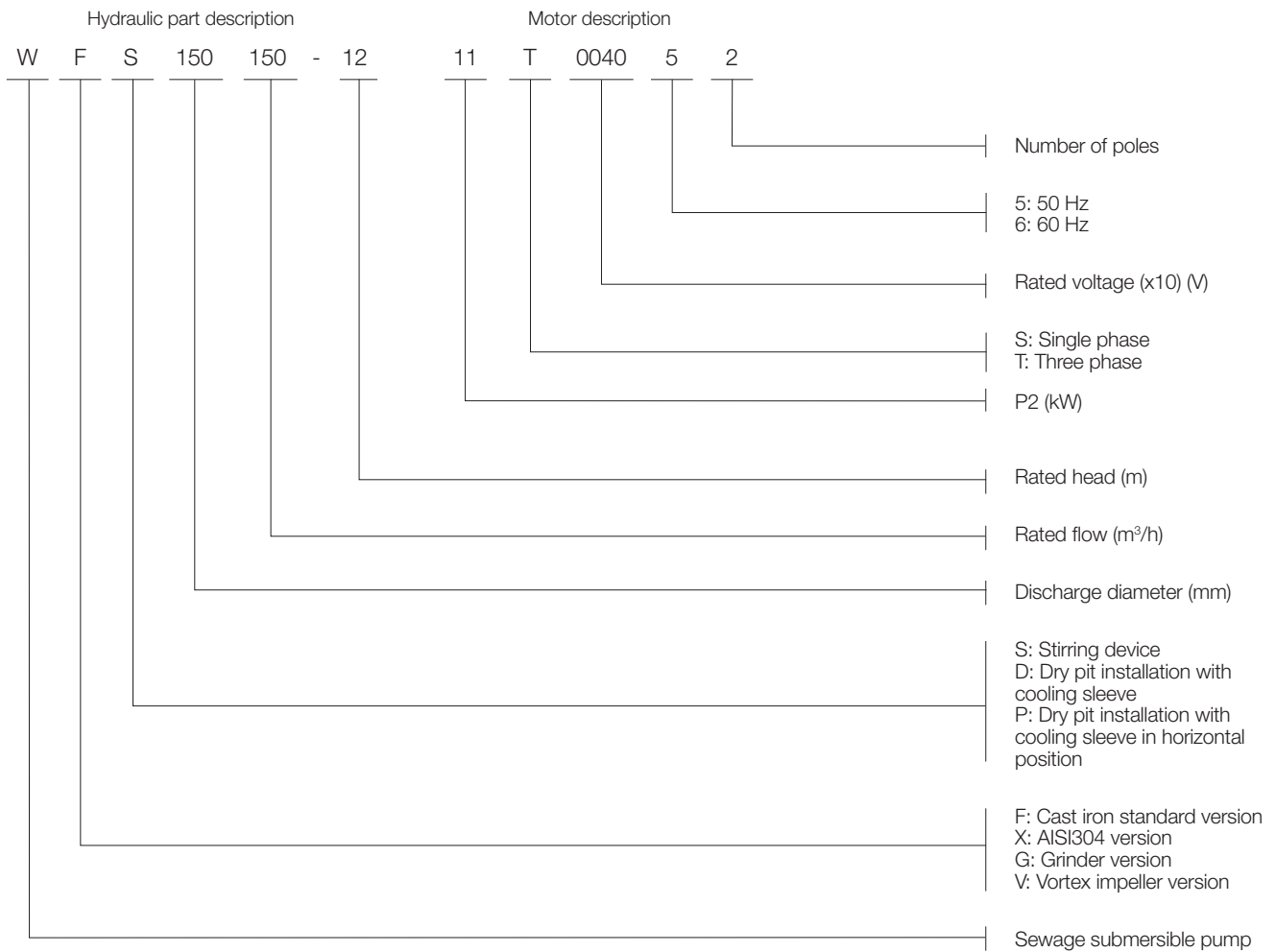
4. Pump casing includes an automatic vent valve that enables the pump an automatic air relief during pump operation.



5. High efficiency impellers for WF and WX models, with closed or semi-closed design to avoid clogging. Simetric channel impeller desing allows a reliable dynamic balance, reduces vibration even with aged impellers and stable running with a result of long service and energy savings. Stirring device available on demand to ease suction of solids.



Definition of model



Service Conditions

Frequency: 50Hz

Voltage: 1x220-230/240V
3x200-220/346-380V
3x200-220/346-380V
3x380-415V

Liquid temperature: <40 °C

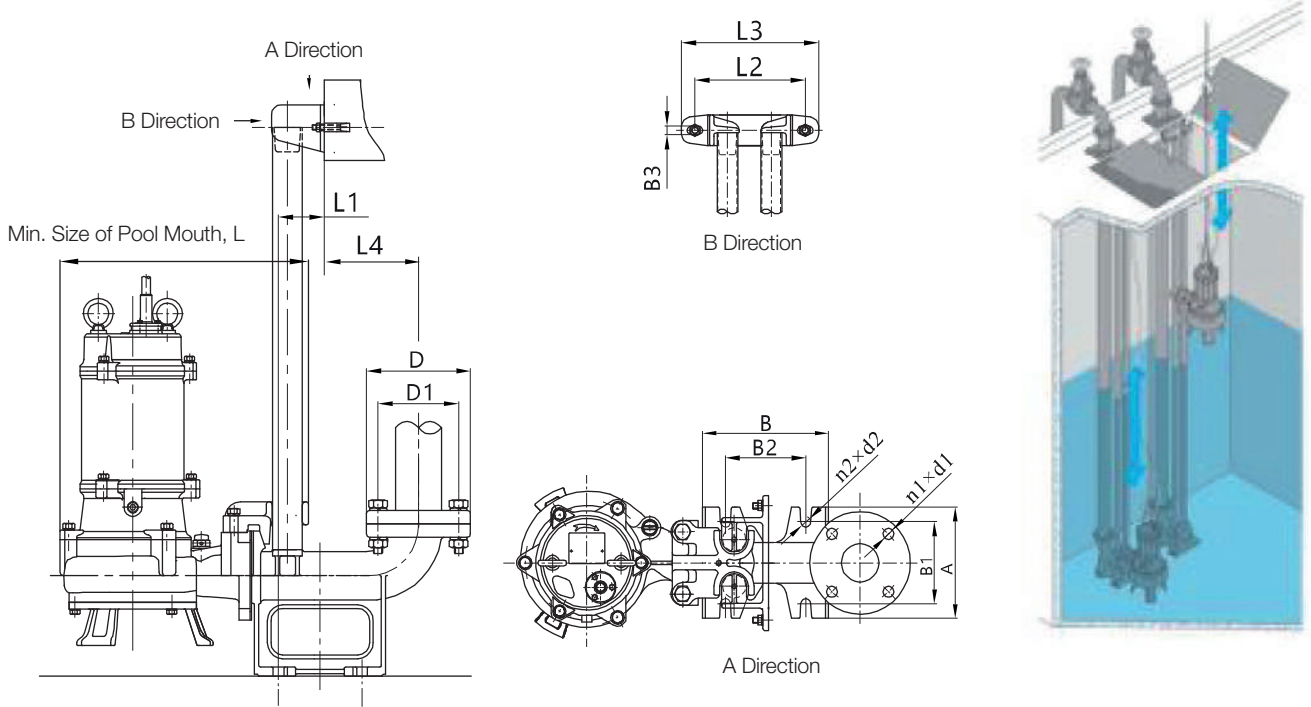
Liquid: solid concentrate ≤ 2%, PH value 4-10, density < 1200kg/m³

Max diameter of the solid must be less than or equal to the limit value.

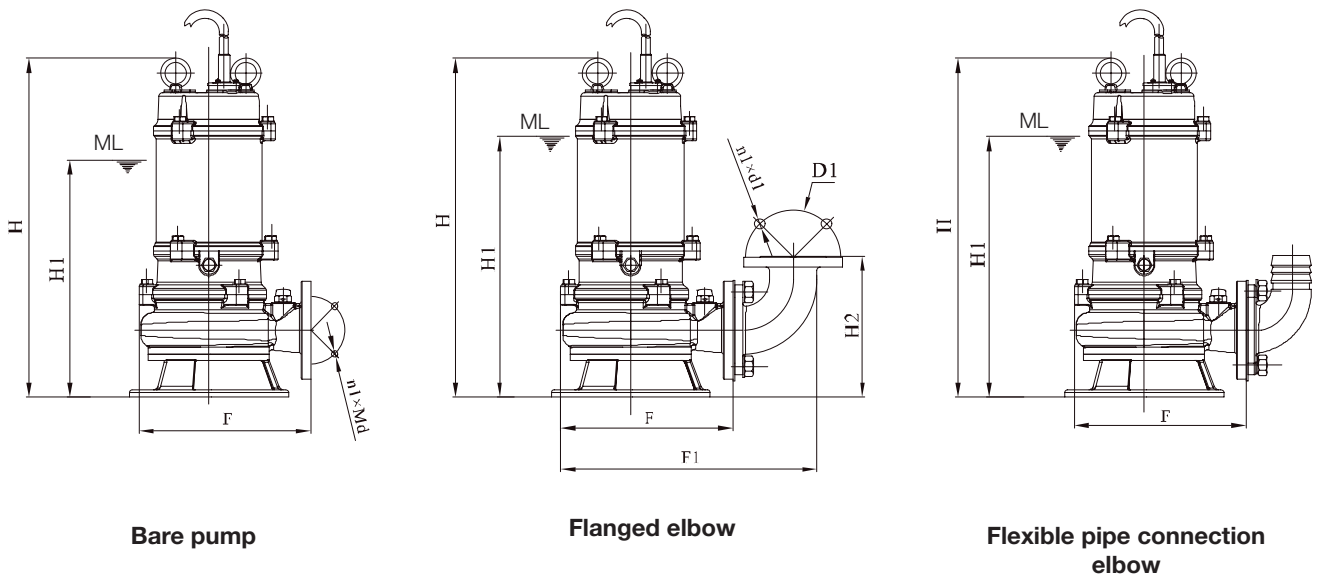


Installation types

Fixed auto Coupling Device Installation



Movable Installation



Coupling device and flange dimensions

| N° | Diameter | Flange connection size PN6 | | | | Coupling base dimension (mm) | | | | | | L | L1 | L2 | L3 | L4 |
|----|----------|----------------------------|-----|---------|--------|------------------------------|-----|-----|-----|--------|--------|------|-----|-----|-----|-----|
| | | D | D1 | n1xd1 | n1xMd | A | B | B1 | B2 | B3 | n2xd2 | | | | | |
| 1 | DN40 | 130 | 100 | 4- ø14 | 4-M12 | 140 | 149 | 100 | 95 | 2- ø14 | 4- ø18 | 400 | 73 | 185 | 230 | 57 |
| 2 | DN50 | 140 | 110 | 4- ø14 | 4-M12 | 160 | 200 | 120 | 120 | 2- ø14 | 4- ø18 | 400 | 60 | 185 | 230 | 175 |
| 3 | DN65 | 160 | 130 | 4- ø14 | 4-M12 | 190 | 220 | 140 | 140 | 2- ø14 | 4- ø18 | 415 | 75 | 195 | 230 | 130 |
| 4 | DN80 | 190 | 150 | 4- ø18 | 4-M16 | 220 | 250 | 170 | 170 | 2- ø14 | 4- ø18 | 415 | 75 | 195 | 230 | 165 |
| 5 | DN100 | 210 | 170 | 4- ø18 | 4-M16 | 250 | 290 | 200 | 200 | 2- ø15 | 4- ø18 | 480 | 114 | 245 | 300 | 176 |
| 6 | DN150 | 265 | 225 | 8- ø18 | 8-M16 | 400 | 410 | 300 | 300 | 3- ø15 | 4- ø24 | 925 | 190 | 260 | 380 | 190 |
| 7 | DN200 | 320 | 280 | 8- ø19 | 8-M16 | 400 | 450 | 300 | 350 | 3- ø15 | 4- ø24 | 1048 | 200 | 260 | 380 | 229 |
| 8 | DN250 | 375 | 335 | 12- ø19 | 12-M16 | 460 | 560 | 360 | 430 | 3- ø15 | 4- ø24 | 1205 | 200 | 280 | 380 | 300 |
| 9 | DN300 | 440 | 395 | 12- ø23 | 12-M20 | 600 | 630 | 500 | 470 | 3- ø18 | 4- ø28 | 1078 | 270 | 400 | 700 | 300 |

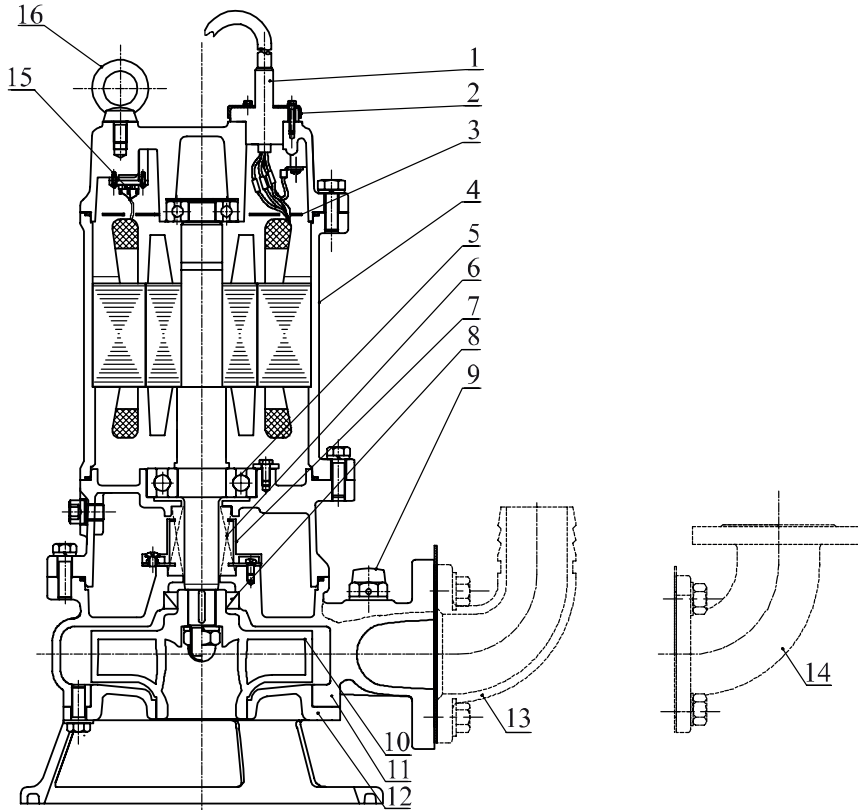
Dimensions

unit:mm (Except inch)

| Diameter | DN40 | DN50 | DN65 | DN80 | DN100 | DN150 | DN200 | DN250 | DN300 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|-----------|-------------------|
| Guide rod tap pipe/ Seamless steel pipe | 1"/33X3.0 | | 1-1/4"/42X3.0 | | 2"/60X3.25 | 1-1/2"/48X3.25 | | | 2-1/2"/75X4 |
| Guide rod length | Pit depth -245 | Pit depth -285 | Pit depth -300 | Pit depth -320 | Pit depth -365 | Pit depth -100 | | | Pit depth -150 |
| Quantity of expansion bolt and specification | 2-M10X120 | | | | 2-M12X125 | | | 2-M16X150 | |
| Quantity of bolt and specification | 4-M16X250 | | | | | 4-M20X300 | | | 4-M24X350 |
| Footer bolt hole size | 80X80X300 | | | | | 100X100X350 | | | 120X120X400 |
| Dia. of soft pipe | 1-1/2"/40 | 2"/50 | 2-1/2"/65 | 3"/80 | 4"/100 | 6"/150 | 8"/200 | 10"/250 | 12"/300 |

WF Sewage Submersible Pump

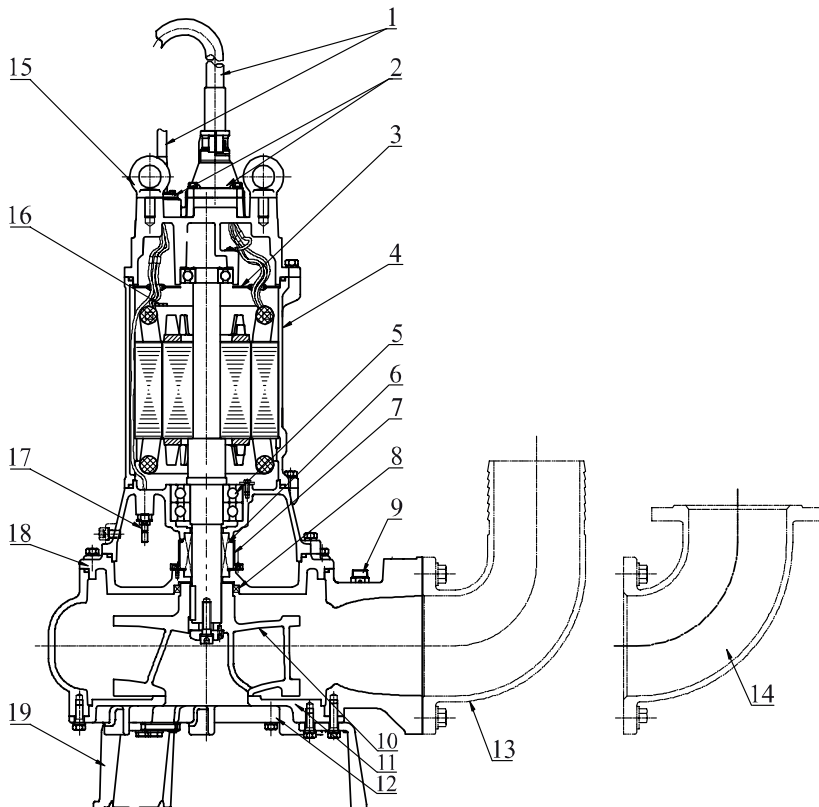
2-pole model sectional drawing



| N° | Part | Material |
|----|-------------------|-----------------------|
| 1 | Cable | NBR |
| 2 | Cable gland | |
| 3 | Threading plate | |
| 4 | Motor | |
| 5 | Bearing | Cast Iron |
| 6 | Mechanical seal | C/SIC |
| 7 | Oil lifter | |
| 8 | Oil seal | NBR |
| 9 | Air vent plug | Polymeric |
| 10 | Impeller | ASTM25B |
| 11 | Casing | ASTM25B |
| 12 | Suction cover | EN1561 EN-GJL-200 |
| 13 | Suction cover | EN1561 EN- GJL-200 |
| 14 | Elbow (optional) | ASTM25B |
| 15 | Thermal protector | |
| 16 | Eye bolt | |

4-pole model sectional drawing

2.2kW~15kW

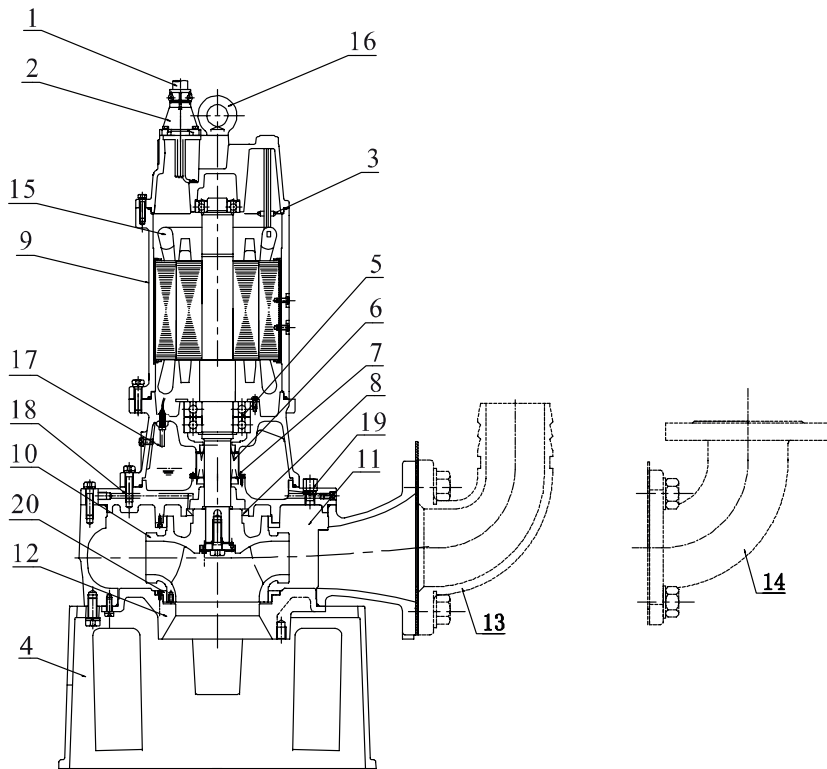


| N° | Part | Material |
|----|--------------------|----------------------|
| 1 | Cable | NBR |
| 2 | Cable gland | |
| 3 | Threading plate | |
| 4 | Motor | |
| 5 | Bearing | |
| 6 | Mechanical seal | C/SIC |
| 7 | Oil lifter | |
| 8 | Oil seal | NBR |
| 9 | Air vent plug | Polymeric |
| 10 | Impeller | ASTM25B |
| 11 | Casing | ASTM25B |
| 12 | Suction cover | EN1561 EN-GJL-200 |
| 13 | Elbow (optional) | ASTM25B |
| 14 | Elbow (optional) | |
| 15 | Eye bolt | |
| 16 | Thermal | |
| 17 | Leakage sensor bar | |
| 18 | Casing cover | ASTM25B |
| 19 | Base bracket | |

WF Sewage Submersible Pump

4-pole model sectional drawing

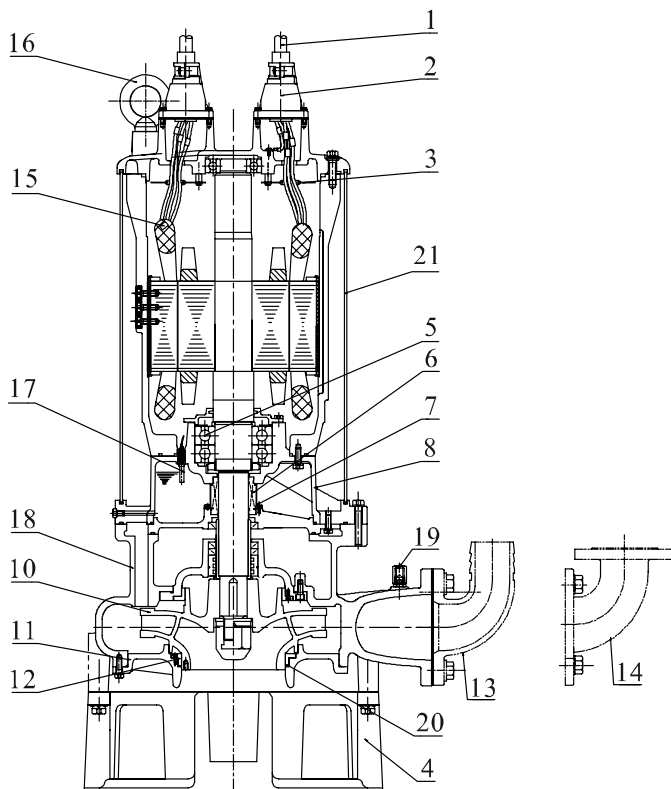
18.5kW~45kW



| N° | Part | Material |
|----|--------------------|--------------|
| 1 | Cable | ASTM25B |
| 2 | Cable gland | Q235 |
| 3 | Threading plate | ASTM80-55-06 |
| 4 | Filter cover | |
| 5 | Bearing | C/SIC |
| 6 | Mechanical seal | |
| 7 | Oil lifter | NBR |
| 8 | Oil seal | NBR |
| 9 | Base | Polymeric |
| 10 | Impeller | ASTM25B |
| 11 | Casing | ASTM25B |
| 12 | Suction cover | ASTM25B |
| 13 | Elbow (optional) | ASTM25B |
| 14 | Elbow (optional) | ASTM25B |
| 15 | Thermal protector | |
| 16 | Eye bolt | |
| 17 | Leakage sensor bar | ASTM25B |
| 18 | Casing cover | |
| 19 | Air vent plug | AISI304 |
| 20 | Wear ring | ASTM25B |
| 21 | Isolated cover | Carbon steel |

4-pole model sectional drawing

55kW~75kW



WF Sewage Submersible Pump

Technical parameters and dimensions (2-pole)

| Model | Size (mm) | Q (m ³ /h) | H (m) | n (rpm) | P2 (kW) | V (V) | I (A) | Max. limit solid D. (mm) | W (kg) | Dimension (mm) | | | | | |
|------------|-----------|-----------------------|-------|---------|---------|-------|-------|--------------------------|--------|----------------|-----|-----|-----|-----|-------|
| | | | | | | | | | | H | H1 | H2 | F | F1 | H3 |
| WF40-12-10 | 40 | 12 | 10 | 2850 | 0.75 | 380 | 1.8 | 15 | 21.5 | 415 | 285 | 203 | 222 | 333 | 93 |
| WF40-8-15 | 40 | 8 | 15 | 2850 | 1.1 | 380 | 2.6 | 15 | 21.5 | 415 | 285 | 203 | 222 | 333 | 93 |
| WF40-15-8 | 40 | 15 | 8 | 2850 | 1.1 | 380 | 2.6 | 20 | 25.5 | 440 | 300 | 214 | 244 | 337 | 93 |
| WF40-15-13 | 40 | 15 | 13 | 2850 | 1.1 | 380 | 2.6 | 15 | 23.5 | 440 | 305 | 214 | 245 | 337 | 93 |
| WF40-12-18 | 40 | 12 | 18 | 2880 | 1.5 | 380 | 3.3 | 20 | 33 | 470 | 330 | 215 | 271 | 382 | 104.5 |
| WF50-10-7 | 50 | 10 | 7 | 2850 | 0.55 | 380 | 1.3 | 15 | 21.5 | 415 | 285 | 203 | 222 | 333 | 93 |
| WF50-12-10 | 50 | 12 | 10 | 2850 | 0.75 | 380 | 1.8 | 15 | 21.5 | 415 | 285 | 203 | 222 | 333 | 93 |
| WF50-8-15 | 50 | 8 | 15 | 2850 | 1.1 | 380 | 2.6 | 20 | 25.5 | 440 | 300 | 214 | 244 | 337 | 104 |
| WF50-10-13 | 50 | 10 | 13 | 2850 | 1.1 | 380 | 2.6 | 20 | 25.5 | 440 | 300 | 214 | 244 | 337 | 104 |
| WF50-15-8 | 50 | 15 | 8 | 2850 | 1.1 | 380 | 2.6 | 20 | 25.5 | 440 | 300 | 214 | 244 | 337 | 93 |
| WF50-15-13 | 50 | 15 | 13 | 2850 | 1.1 | 380 | 2.6 | 15 | 23.5 | 440 | 305 | 214 | 245 | 337 | 93 |
| WF50-10-15 | 50 | 10 | 15 | 2880 | 1.5 | 380 | 3.3 | 20 | 33 | 475 | 310 | 216 | 270 | 363 | 106.5 |
| WF50-10-18 | 50 | 10 | 18 | 2880 | 1.5 | 380 | 3.3 | 20 | 33 | 475 | 310 | 216 | 270 | 363 | 140 |
| WF50-12-12 | 50 | 12 | 12 | 2880 | 1.5 | 380 | 3.3 | 20 | 33 | 475 | 310 | 216 | 270 | 363 | 106.5 |
| WF50-15-10 | 50 | 15 | 10 | 2880 | 1.5 | 380 | 3.3 | 20 | 33 | 475 | 310 | 216 | 270 | 363 | 106.5 |
| WF50-15-15 | 50 | 15 | 15 | 2880 | 1.5 | 380 | 3.3 | 20 | 33 | 475 | 310 | 216 | 270 | 363 | 106.5 |
| WF50-9-22 | 50 | 9 | 22 | 2880 | 2.2 | 380 | 4.6 | 22 | 37.5 | 475 | 310 | 216 | 270 | 363 | 106.5 |
| WF50-15-18 | 50 | 15 | 18 | 2880 | 2.2 | 380 | 4.6 | 22 | 37.5 | 510 | 320 | 216 | 279 | 373 | 106.5 |
| WF50-15-20 | 50 | 15 | 20 | 2880 | 2.2 | 380 | 4.6 | 22 | 37.5 | 510 | 320 | 216 | 279 | 373 | 106.5 |
| WF50-20-15 | 50 | 20 | 15 | 2880 | 2.2 | 380 | 4.6 | 22 | 37.5 | 510 | 320 | 216 | 279 | 373 | 106.5 |
| WF50-25-10 | 50 | 25 | 10 | 2880 | 2.2 | 380 | 4.6 | 22 | 37.5 | 510 | 320 | 216 | 279 | 373 | 106.5 |
| WF50-15-25 | 50 | 15 | 25 | 2840 | 3 | 380 | 6.1 | 25.5 | 44 | 540 | 335 | 218 | 279 | 372 | 108 |
| WF50-15-27 | 50 | 15 | 27 | 2840 | 3 | 380 | 6.1 | 25.5 | 44 | 540 | 335 | 218 | 279 | 372 | 108 |
| WF50-25-20 | 50 | 25 | 20 | 2840 | 3 | 380 | 6.1 | 25.5 | 44 | 540 | 335 | 218 | 279 | 372 | 108 |
| WF50-15-32 | 50 | 15 | 32 | 2840 | 4 | 380 | 7.7 | 25.5 | 49.5 | 557 | 351 | 221 | 321 | 414 | 111 |
| WF50-15-40 | 50 | 15 | 40 | 2940 | 5.5 | 380 | 10.8 | 19.5 | 84 | 790 | 450 | 221 | 321 | 414 | 118.5 |
| WF50-20-30 | 50 | 20 | 30 | 2940 | 5.5 | 380 | 10.8 | 19.5 | 84 | 790 | 450 | 221 | 321 | 414 | 118.5 |
| WF50-25-25 | 50 | 25 | 25 | 2940 | 5.5 | 380 | 10.8 | 19.5 | 84 | 790 | 450 | 221 | 321 | 414 | 122 |
| WF50-20-40 | 50 | 20 | 40 | 2940 | 7.5 | 380 | 14.3 | 19.5 | 92 | 787 | 500 | 221 | 321 | 414 | 124 |
| WF50-25-35 | 50 | 25 | 35 | 2940 | 7.5 | 380 | 14.3 | 19.5 | 927 | 787 | 500 | 221 | 321 | 414 | 124 |
| WF65-15-10 | 65 | 15 | 10 | 2850 | 1.1 | 380 | 2.6 | 23 | 27 | 440 | 300 | 214 | 246 | 363 | 104 |
| WF65-25-10 | 65 | 25 | 10 | 2850 | 1.5 | 380 | 3.3 | 28 | 30 | 480 | 340 | 160 | 283 | 418 | 110 |
| WF65-25-14 | 65 | 25 | 14 | 2880 | 2.2 | 380 | 4.6 | 24 | 40.5 | 526 | 340 | 235 | 287 | 404 | 115.5 |
| WF65-35-7 | 65 | 35 | 7 | 2880 | 2.2 | 380 | 4.6 | 24 | 40.5 | 526 | 340 | 235 | 287 | 404 | 115.5 |
| WF65-25-15 | 65 | 25 | 15 | 2840 | 3 | 380 | 6.1 | 25.5 | 46 | 542 | 336 | 229 | 275 | 392 | 106.5 |
| WF65-25-18 | 65 | 25 | 18 | 2840 | 3 | 380 | 6.1 | 25.5 | 46 | 542 | 336 | 229 | 275 | 392 | 106.5 |

WF Sewage Submersible Pump

Technical parameters and dimensions (2-pole)

| Model | Size (mm) | Q (m ³ /h) | H (m) | n (rpm) | P2 (kW) | V (V) | I (A) | Max. limit solid D. (mm) | W (kg) | Dimension (mm) | | | | | |
|--------------|-----------|-----------------------|-------|---------|---------|-------|-------|--------------------------|--------|----------------|-----|-----|-----|-----|-------|
| | | | | | | | | | | H | H1 | H2 | F | F1 | H3 |
| WF65-37-13 | 65 | 37 | 13 | 2840 | 3 | 380 | 6.1 | 25.5 | 46 | 542 | 336 | 229 | 275 | 392 | 106.5 |
| WF65-40-10 | 65 | 40 | 10 | 2840 | 3 | 380 | 6.1 | 25.5 | 46 | 542 | 336 | 229 | 275 | 392 | 106.5 |
| WF65-20-25 | 65 | 20 | 25 | 2840 | 4 | 380 | 7.7 | 26 | 52 | 563 | 357 | 235 | 320 | 437 | 114.5 |
| WF65-20-27 | 65 | 20 | 27 | 2840 | 4 | 380 | 7.7 | 26 | 52 | 563 | 357 | 235 | 320 | 437 | 114.5 |
| WF65-25-31 | 65 | 25 | 31 | 2940 | 5.5 | 380 | 10.8 | 17.5 | 86 | 793 | 450 | 236 | 314 | 431 | 129.5 |
| WF65-30-25 | 65 | 30 | 25 | 2940 | 5.5 | 380 | 10.8 | 17.5 | 86 | 796 | 450 | 236 | 314 | 431 | 129.5 |
| WF65-20-60 | 65 | 20 | 60 | 2930 | 11 | 380 | 21.7 | 22 | 95 | 877 | 600 | 284 | 362 | 520 | 191 |
| WF65-40-50 | 65 | 40 | 50 | 2930 | 11 | 380 | 21.7 | 22 | 95 | 877 | 600 | 284 | 362 | 520 | 191 |
| WF65-50-55 | 6 | 50 | 55 | 2930 | 15 | 380 | 29.1 | 22 | 95 | 877 | 600 | 284 | 362 | 520 | 191 |
| WF80-40-8 | 80 | 40 | 8 | 2880 | 2.2 | 380 | 4.6 | 26.5 | 42.5 | 545 | 370 | 256 | 296 | 431 | 120.5 |
| WF80-40-10 | 80 | 40 | 10 | 2880 | 2.2 | 380 | 4.6 | 26.5 | 42.5 | 545 | 370 | 256 | 296 | 431 | 120.5 |
| WF80-45-9 | 80 | 45 | 9 | 2880 | 2.2 | 380 | 4.6 | 26.5 | 42.5 | 545 | 370 | 256 | 296 | 431 | 120.5 |
| WF80-35-13 | 80 | 35 | 3 | 2840 | 3 | 380 | 6.1 | 34.5 | 47 | 565 | 360 | 256 | 300 | 436 | 120.5 |
| WF80-40-15 | 80 | 40 | 15 | 2840 | 4 | 380 | 7.7 | 26 | 51 | 563 | 357 | 250 | 318 | 454 | 114.5 |
| WF80-40-22 | 80 | 40 | 22 | 2940 | 5.5 | 380 | 10.8 | 17.5 | 85.5 | 793 | 450 | 251 | 310 | 447 | 129.5 |
| WF80-40-30 | 80 | 40 | 30 | 2940 | 7.5 | 380 | 14.3 | 17.5 | 92 | 790 | 500 | 251 | 310 | 447 | 130 |
| WF80-50-25 | 80 | 50 | 25 | 2940 | 7.5 | 380 | 14.3 | 17.5 | 92 | 790 | 500 | 251 | 310 | 447 | 130 |
| WF80-48-38 | 80 | 48 | 38 | 2930 | 11 | 380 | 21.7 | 22 | 134.5 | 924 | 610 | 317 | 410 | 557 | 181.5 |
| WF100-50-7 | 100 | 50 | 7 | 2880 | 2.2 | 380 | 4.6 | 45 | 48 | 522 | 400 | 170 | 323 | 472 | 120.5 |
| WF100-60-9 | 100 | 60 | 9 | 2840 | 3 | 380 | 6.1 | 40 | 50 | 564 | 420 | 190 | 311 | 460 | 120.5 |
| WF100-50-12 | 100 | 50 | 12 | 2840 | 4 | 380 | 7.7 | 34.5 | 53.5 | 607 | 400 | 292 | 337 | 492 | 142 |
| WF100-65-15 | 100 | 65 | 15 | 2940 | 5.5 | 380 | 10.8 | 35.5 | 89 | 835 | 500 | 292 | 337 | 492 | 145 |
| WF100-60-17 | 100 | 65 | 18 | 2940 | 5.5 | 380 | 10.8 | 35.5 | 89 | 835 | 500 | 292 | 337 | 492 | 145 |
| WF100-70-14 | 100 | 70 | 14 | 2940 | 5.5 | 380 | 10.8 | 35.5 | 89 | 835 | 500 | 292 | 337 | 492 | 145 |
| WF100-45-22 | 100 | 45 | 22 | 2940 | 7.5 | 380 | 14.3 | 32.5 | 98 | 835 | 500 | 297 | 365 | 519 | 147 |
| WF100-65-20 | 100 | 65 | 20 | 2940 | 7.5 | 380 | 14.3 | 32.5 | 98 | 835 | 500 | 297 | 365 | 519 | 147 |
| WF100-80-15 | 100 | 80 | 15 | 2940 | 7.5 | 380 | 14.3 | 32.5 | 98 | 835 | 500 | 297 | 365 | 519 | 147 |
| WF100-100-15 | 100 | 100 | 15 | 2940 | 7.5 | 380 | 14.3 | 32.5 | 98 | 835 | 500 | 297 | 365 | 519 | 147 |
| WF100-80-25 | 100 | 80 | 25 | 2930 | 11 | 380 | 21.7 | 25 | 128 | 906 | 620 | 344 | 388 | 577 | 194 |
| WF100-100-30 | 100 | 100 | 30 | 2930 | 15 | 380 | 29.1 | 27.5 | 136 | 906 | 620 | 344 | 388 | 577 | 194 |
| WF150-100-7 | 150 | 100 | 7 | 2940 | 5.5 | 380 | 10.8 | 31 | 102 | 850 | 510 | 365 | 398 | 650 | 157.5 |
| WF150-100-10 | 150 | 100 | 10 | 2940 | 5.5 | 380 | 10.8 | 31 | 102 | 850 | 510 | 365 | 398 | 650 | 157.5 |
| WF150-100-17 | 150 | 100 | 17 | 2940 | 7.5 | 380 | 14.3 | 31 | 109 | 850 | 510 | 365 | 398 | 650 | 157.5 |
| WF150-150-10 | 150 | 150 | 10 | 2940 | 7.5 | 380 | 14.3 | 30 | 105 | 909 | 670 | 425 | 398 | 660 | 214.5 |
| WF150-120-25 | 150 | 120 | 25 | 2930 | 15 | 380 | 29.1 | 40 | 145 | 955 | 680 | 425 | 398 | 660 | 214.5 |

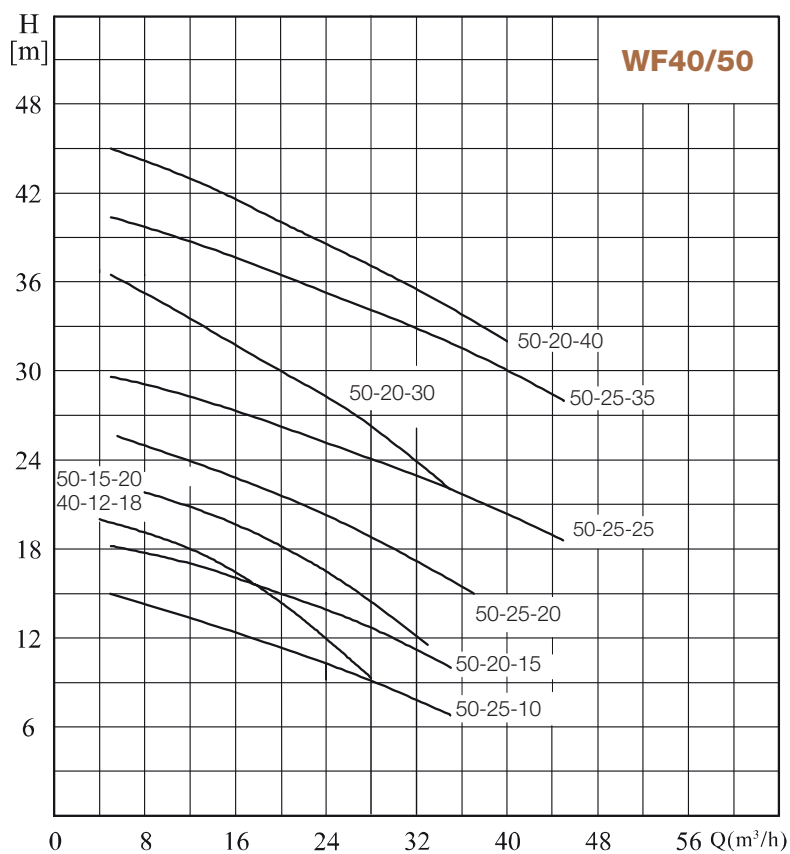
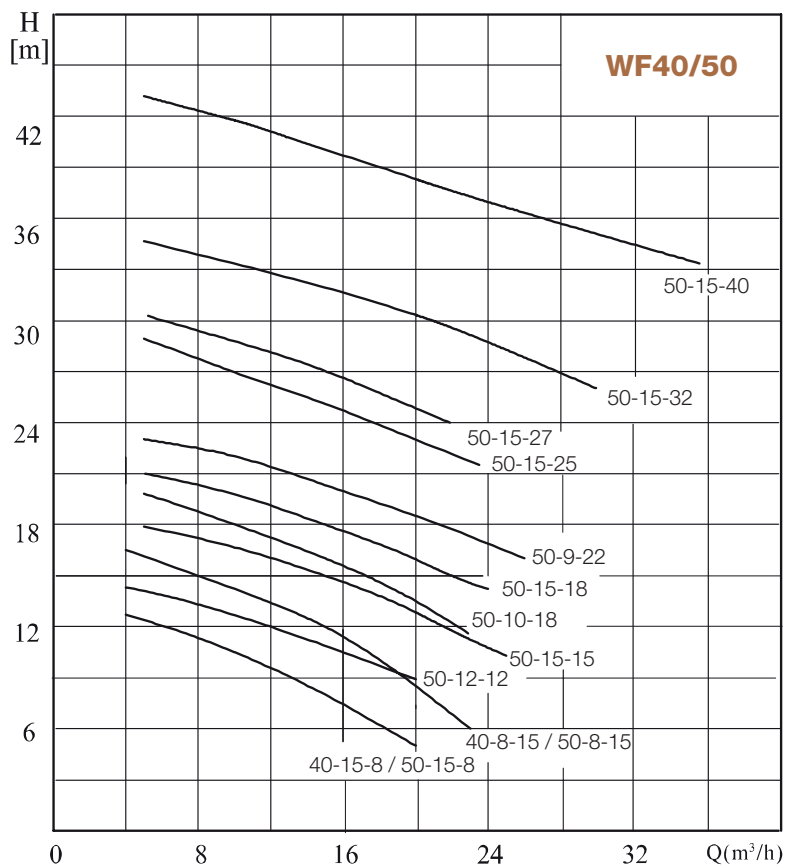
WF Sewage Submersible Pump

Technical parameters and dimensions (4-pole)

| Model | Size (mm) | Q (m ³ /h) | H (m) | n (rpm) | P2 (kW) | V (V) | I (A) | Max. limit solid D. (mm) | W (kg) | Dimension (mm) | | | | | |
|--------------|-----------|-----------------------|-------|---------|---------|--------|-------|--------------------------|--------|----------------|------|-----|-----|------|-------|
| | | | | | | | | | | H | H1 | H2 | F | F1 | H3 |
| WF80-36-10 | 80 | 36 | 10 | 1413 | 2.2 | 380 | 5.5 | 50 | 56 | 643 | 460 | 301 | 363 | 510 | 168.5 |
| WF80-36-12 | 80 | 36 | 12 | 1413 | 2.2 | 380 | 5.5 | 50 | 56 | 643 | 460 | 301 | 363 | 510 | 168.5 |
| WF80-36-16 | 80 | 36 | 16 | 1413 | 4 | 380 | 8.4 | 35 | 53.5 | 692 | 555 | 301 | 375 | 580 | 168.5 |
| WF80-60-11 | 80 | 60 | 11 | 1413 | 4 | 380 | 8.4 | 55 | 53.5 | 716 | 357 | 250 | 370 | 454 | 173.5 |
| WF100-60-17 | 100 | 60 | 17 | 1437 | 5.5 | 380 | 11.5 | 40 | 132 | 908 | 670 | 432 | 453 | 714 | 2722 |
| WF100-60-20 | 100 | 60 | 20 | 1450 | 7.5 | 380 | 16.6 | 40 | 145 | 929 | 690 | 369 | 454 | 687 | 222 |
| WF100-80-35 | 100 | 80 | 35 | 1460 | 18.5 | 380 | 36.9 | 27.5 | 305 | 1208 | 800 | 439 | 603 | 836 | 289 |
| WF100-100-35 | 100 | 100 | 35 | 1460 | 22 | 380 | 43.1 | 35 | 310 | 1208 | 800 | 439 | 603 | 836 | 289 |
| WF100-100-39 | 100 | 100 | 39 | 1460 | 22 | 380 | 43.1 | 35 | 310 | 1208 | 800 | 439 | 603 | 836 | 289 |
| WF150-240-7 | 150 | 240 | 7 | 1450 | 7.5 | 380 | 16.6 | 70 | 126 | 1085 | 845 | 510 | 548 | 841 | 335 |
| WF150-150-15 | 150 | 150 | 16 | 1440 | 11 | 380 | 22.9 | 52 | 216 | 1097 | 750 | 535 | 575 | 825 | 325 |
| WF150-150-20 | 150 | 150 | 20 | 1440 | 15 | 380 | 30.6 | 57 | 237 | 1167 | 800 | 535 | 572 | 822 | 325 |
| WF150-150-24 | 150 | 150 | 24 | 1460 | 18.5 | 380 | 36.9 | 45 | 292 | 1080 | 1030 | 530 | 620 | 820 | 320 |
| WF150-180-20 | 150 | 180 | 20 | 1460 | 18.5 | 380 | 36.9 | 45 | 292 | 1080 | 1030 | 530 | 620 | 820 | 320 |
| WF150-200-15 | 150 | 200 | 16 | 1460 | 18.5 | 380 | 36.9 | 45 | 292 | 1080 | 1030 | 530 | 620 | 820 | 320 |
| WF150-250-14 | 150 | 250 | 14 | 1460 | 18.5 | 380 | 36.9 | 45 | 292 | 1080 | 1030 | 530 | 620 | 820 | 320 |
| WF150-150-27 | 150 | 150 | 27 | 1460 | 22 | 380 | 43.1 | 60 | 320 | 1281 | 880 | 530 | 575 | 900 | 320 |
| WF150-270-16 | 150 | 270 | 16 | 1460 | 22 | 380 | 43.1 | 65 | 690 | 1273 | 860 | 530 | 575 | 900 | 320.5 |
| WF150-200-28 | 150 | 200 | 28 | 1450 | 30 | 380 | 57.4 | 60 | 710 | 1513 | 1200 | 673 | 620 | 900 | 350 |
| WF150-150-35 | 150 | 150 | 35 | 1470 | 37 | 380 | 71.9 | 65 | 700 | 1567 | 1200 | 671 | 765 | 1025 | 461 |
| WF150-200-35 | 150 | 200 | 35 | 1470 | 37 | 380 | 71.9 | 65 | 685 | 1567 | 1200 | 671 | 765 | 1025 | 350 |
| WF150-270-40 | 150 | 270 | 40 | 1480 | 55 | 380 | 106 | 50 | 845 | 1663 | 1300 | 596 | 811 | 1138 | 386.5 |
| WF200-270-10 | 200 | 270 | 10 | 1440 | 11 | 380 | 22.9 | 50 | 850 | 1113 | 760 | 530 | 568 | 890 | 335 |
| WF200-300-12 | 200 | 300 | 12 | 1460 | 18.5 | 380 | 36.9 | 63 | 320 | 1281 | 880 | 530 | 575 | 900 | 335.5 |
| WF200-270-16 | 200 | 270 | 16 | 1460 | 22 | 380 | 43.1 | 64 | 550 | 1281 | 880 | 530 | 575 | 900 | 335.5 |
| WF200-300-15 | 200 | 300 | 15 | 1450 | 22 | 380 | 43.1 | 60 | 680 | 1281 | 880 | 530 | 575 | 900 | 335.5 |
| WF200-400-10 | 200 | 400 | 10 | 1450 | 22 | 380 | 43.1 | 65 | 690 | 1281 | 880 | 530 | 575 | 900 | 335.5 |
| WF200-250-22 | 200 | 250 | 22 | 1450 | 30 | 380 | 57.4 | 60 | 710 | 1513 | 1200 | 673 | 620 | 900 | 463 |
| WF200-360-17 | 200 | 360 | 17 | 1450 | 30 | 380 | 57.4 | 65 | 700 | 1513 | 1200 | 673 | 620 | 900 | 463 |
| WF200-270-28 | 200 | 270 | 28 | 1470 | 37 | 380 | 71.9 | 50 | 930 | 1590 | 1200 | 673 | 813 | 1140 | 463 |
| WF200-400-25 | 200 | 400 | 25 | 1470 | 45 | 380 | 87 | 40 | 850 | 1663 | 1300 | 650 | 811 | 1236 | 432.5 |
| WF200-250-40 | 200 | 250 | 40 | 1480 | 55 | 380 | 106 | 40 | 850 | 1663 | 1300 | 650 | 811 | 1236 | 386 |
| WF200-400-30 | 200 | 400 | 30 | 1480 | 55 | 380 | 106 | 40 | 850 | 1663 | 1300 | 650 | 811 | 1236 | 386 |
| WF200-350-40 | 200 | 350 | 40 | 1480 | 75 | 380 | 142 | 40 | 919 | 1663 | 1300 | 650 | 811 | 1236 | 386 |
| WF250-400-15 | 250 | 400 | 15 | 1460 | 30 | 380 | 57.4 | 45 | 485 | 1517 | 1250 | 750 | 815 | 1235 | 490 |
| WF250-600-9 | 250 | 600 | 9 | 1460 | 30 | 380 | 57.4 | 45 | 485 | 1517 | 1250 | 750 | 815 | 1235 | 490 |
| WF250-420-22 | 250 | 420 | 22 | 1470 | 37 | 380 | 71.9 | 62 | 550 | 1594 | 1200 | 750 | 820 | 1240 | 490 |
| WF250-600-12 | 250 | 600 | 12 | 1470 | 37 | 380 | 71.9 | 62 | 550 | 1594 | 1200 | 750 | 820 | 1240 | 490 |
| WF250-360-28 | 250 | 360 | 28 | 1470 | 45 | 380 | 87 | 45 | 685 | 1556 | 1200 | 695 | 829 | 1256 | 432.5 |
| WF250-600-28 | 250 | 600 | 28 | 1480 | 75 | 380 | 142 | 60 | 930 | 1663 | 1300 | 740 | 895 | 1380 | 430 |
| WF300-800-8 | 300 | 800 | 8 | 1450 | 37 | 380 | 75 | 60 | 650 | 1400 | 1150 | 779 | 800 | 1200 | 514 |
| WF300-500-15 | 300 | 500 | 15 | 1450 | 37 | 380 | 75 | 60 | 650 | 1400 | 1150 | 779 | 800 | 1200 | 514 |
| WF300-600-18 | 300 | 600 | 18 | 1470 | 457 | 45 380 | 87 | 60 | 690 | 1605 | 1250 | 825 | 881 | 1306 | 514 |
| WF300-800-12 | 300 | 800 | 12 | 1470 | 45 | 380 | 87 | 60 | 690 | 1605 | 1250 | 825 | 881 | 1306 | 514 |
| WF300-600-20 | 300 | 600 | 20 | 1450 | 55 | 380 | 106 | 55 | 865 | 1680 | 1120 | 775 | 870 | 1270 | 466.5 |
| WF300-800-20 | 300 | 800 | 20 | 1450 | 75 | 380 | 142 | 60 | 956 | 1680 | 1120 | 775 | 870 | 1270 | 466.5 |

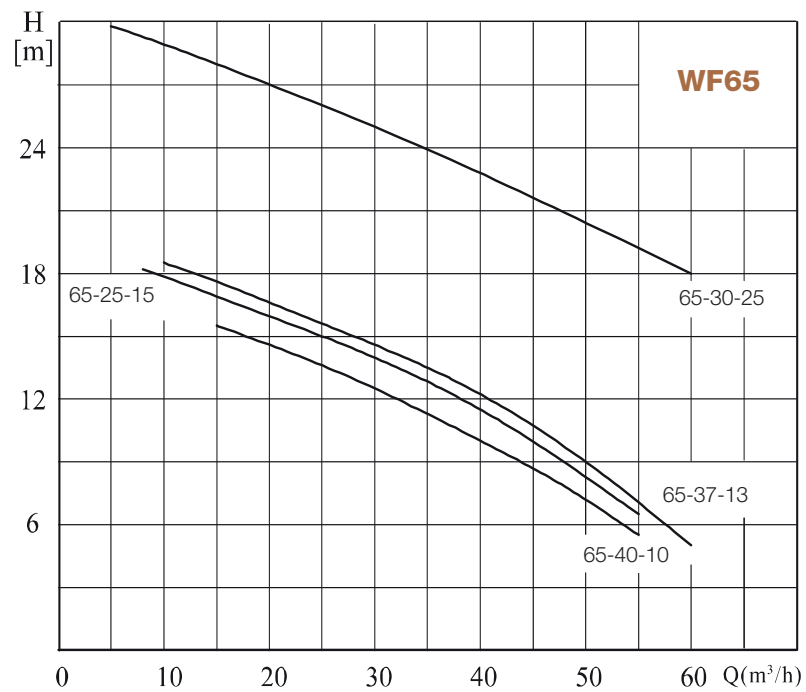
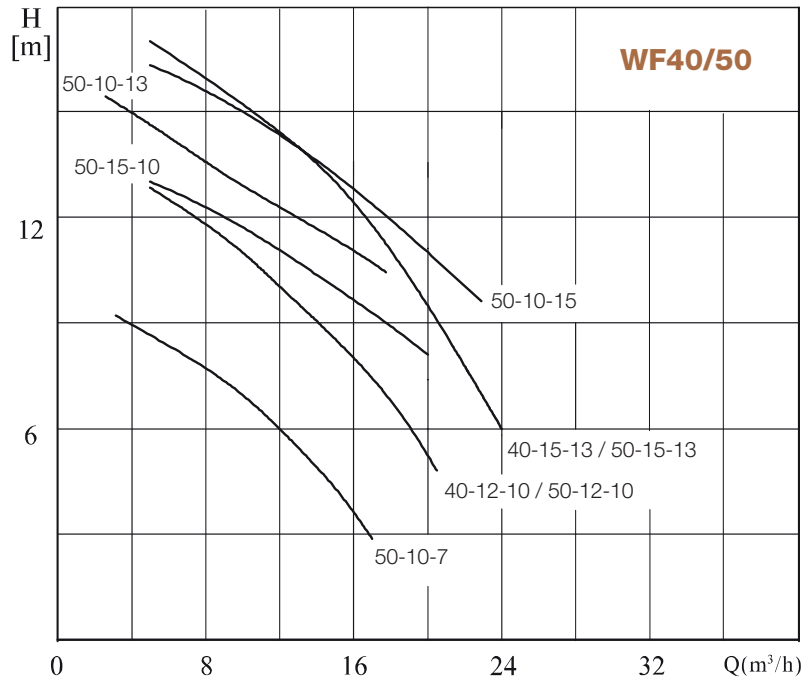
WF Sewage Submersible Pump

Performance curve



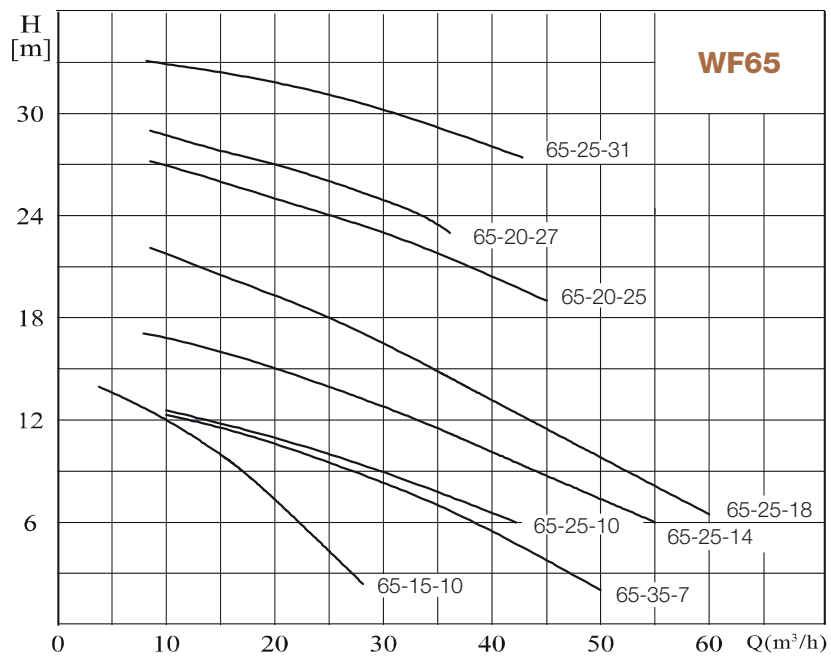
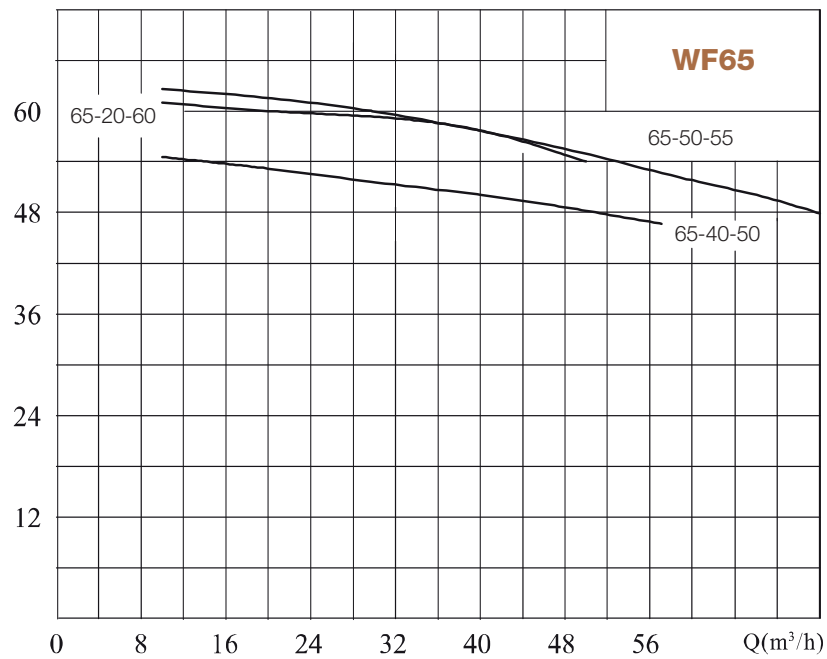
WF Sewage Submersible Pump

Performance curve



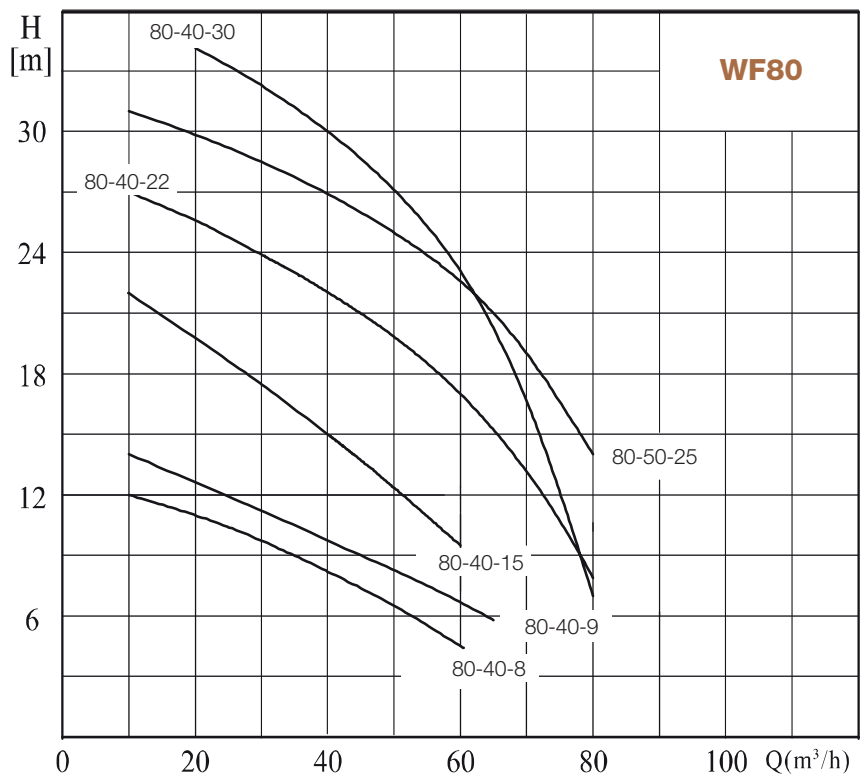
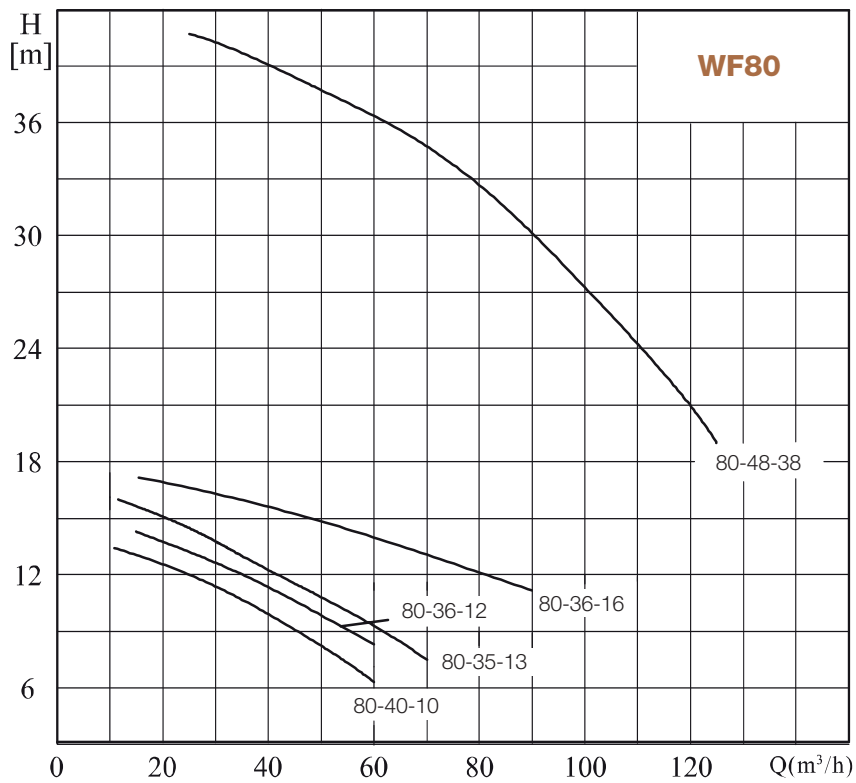
WF Sewage Submersible Pump

Performance curve



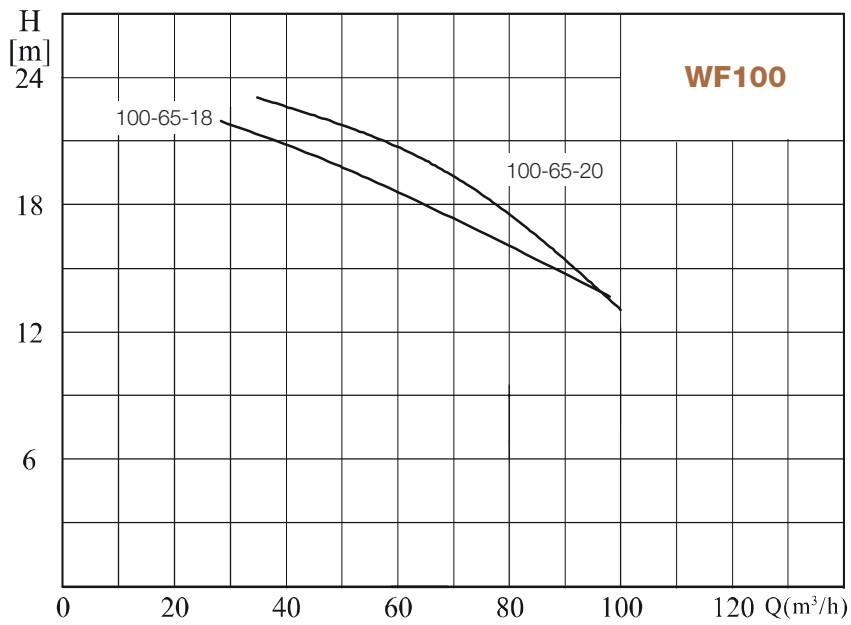
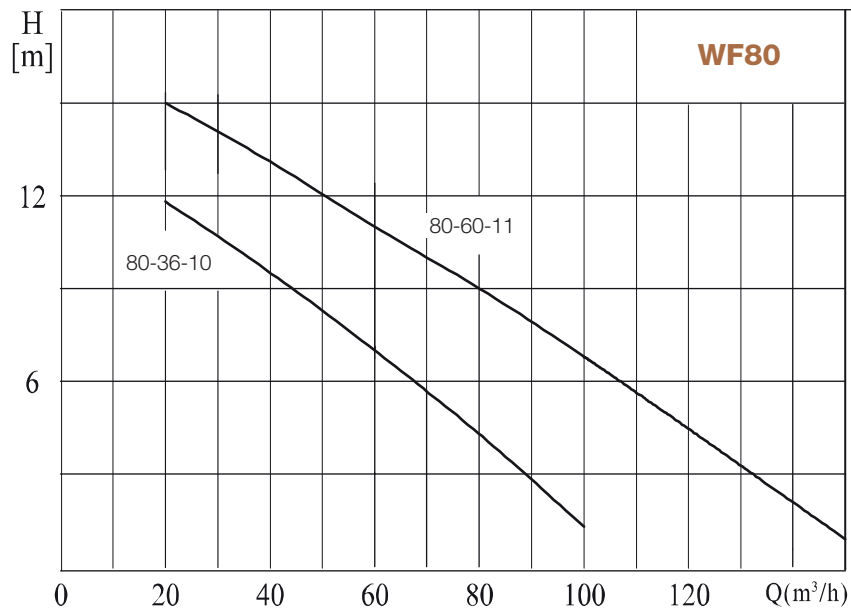
WF Sewage Submersible Pump

Performance curve



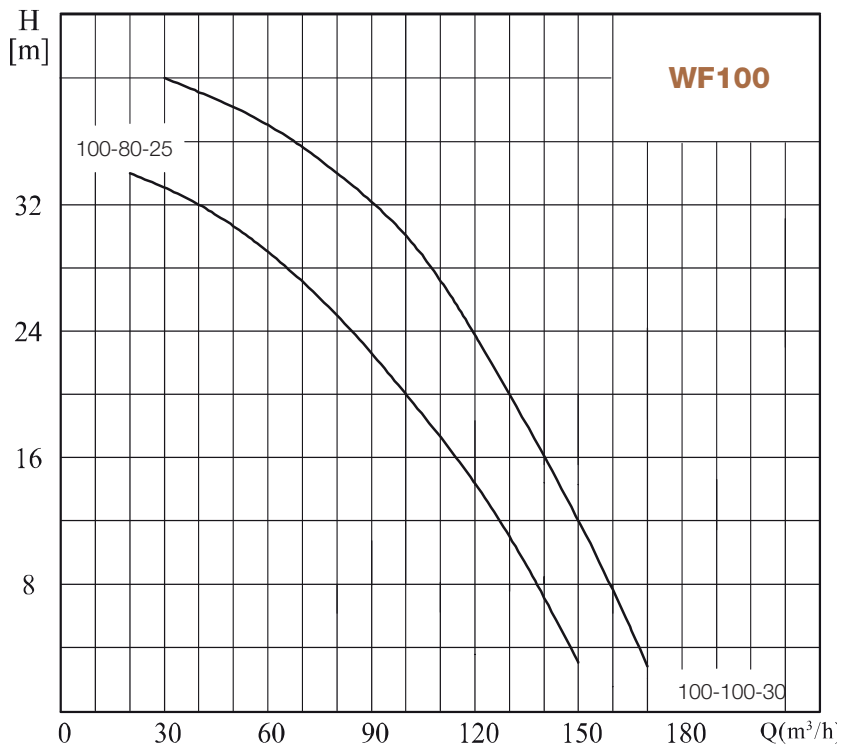
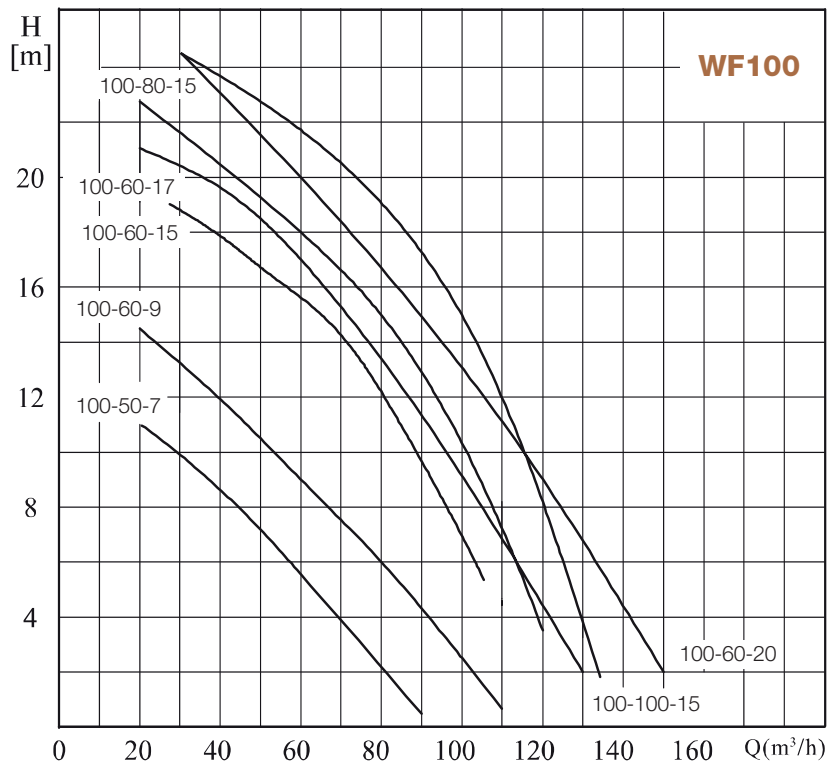
WF Sewage Submersible Pump

Performance curve



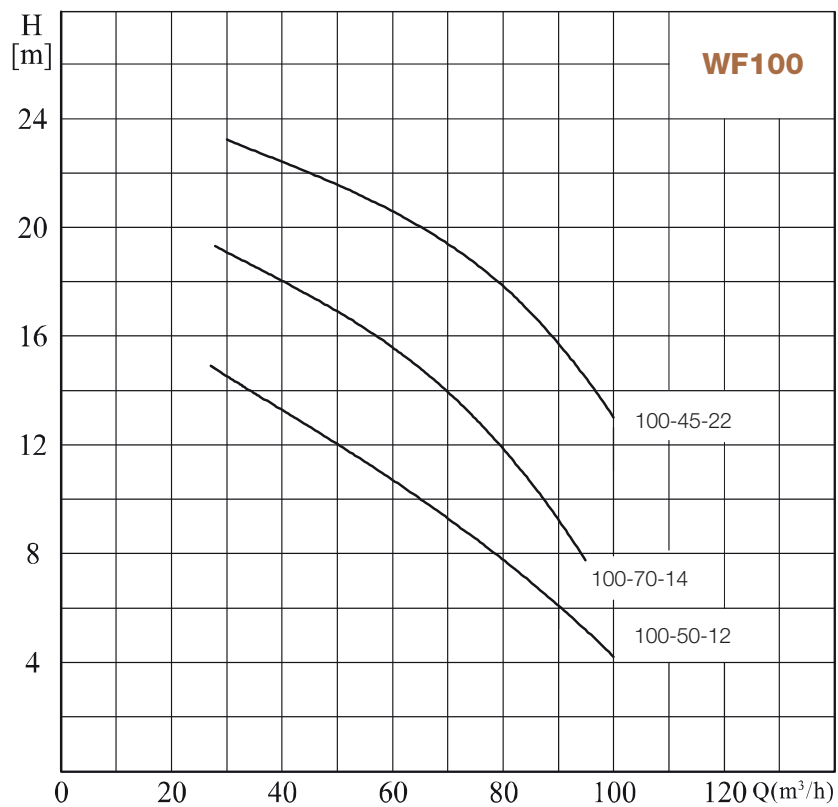
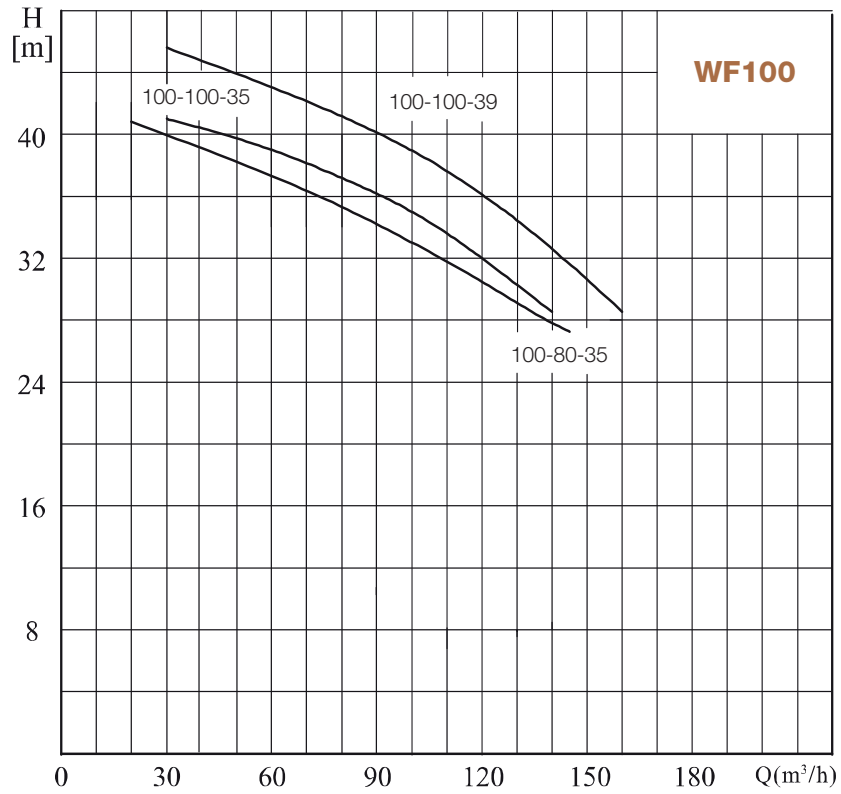
WF Sewage Submersible Pump

Performance curve



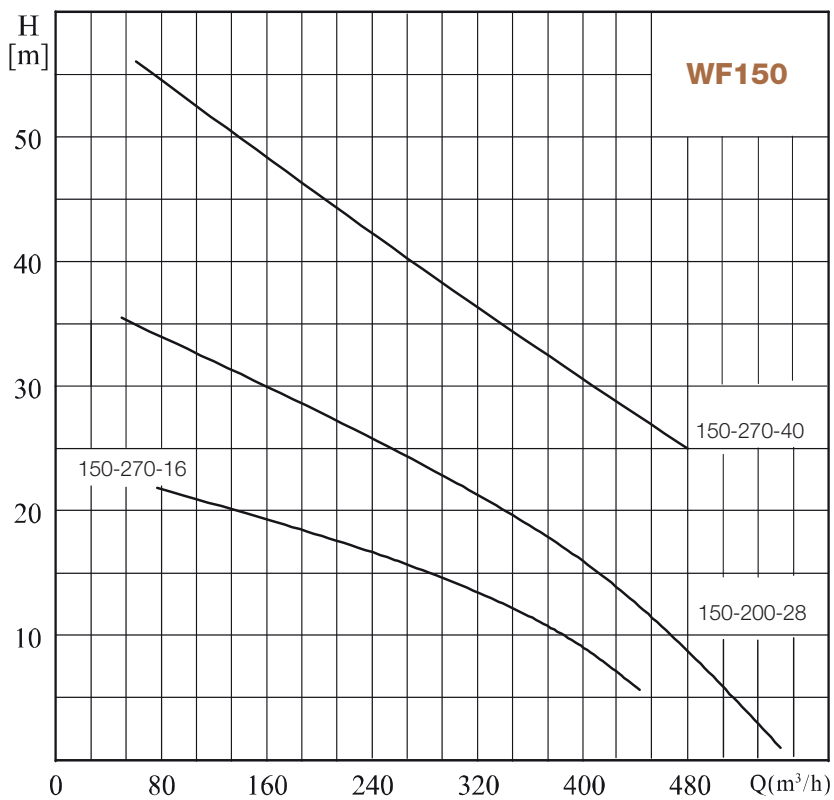
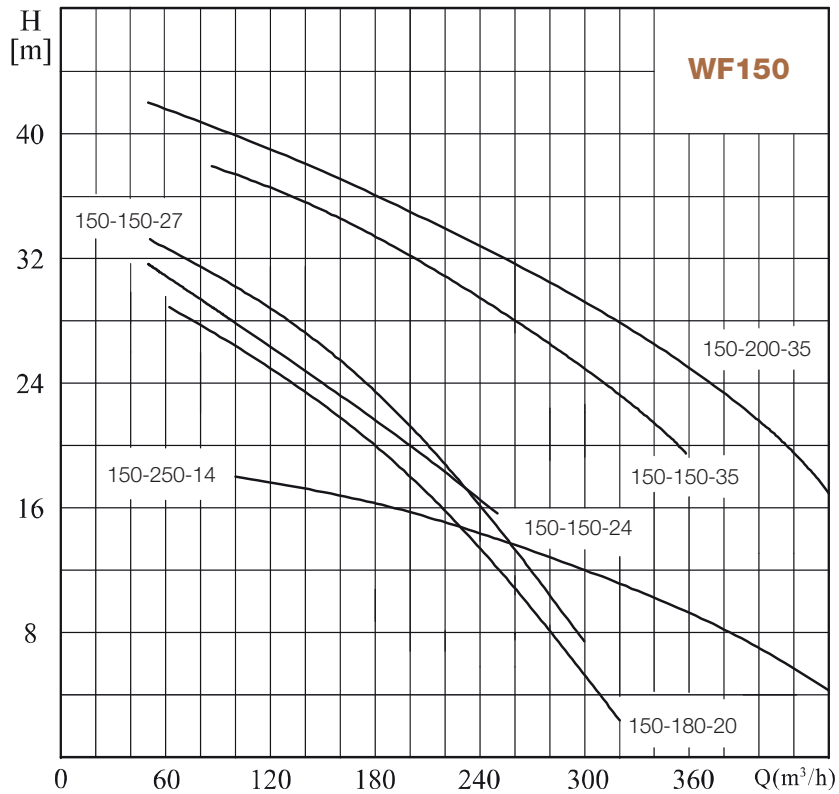
WF Sewage Submersible Pump

Performance curve



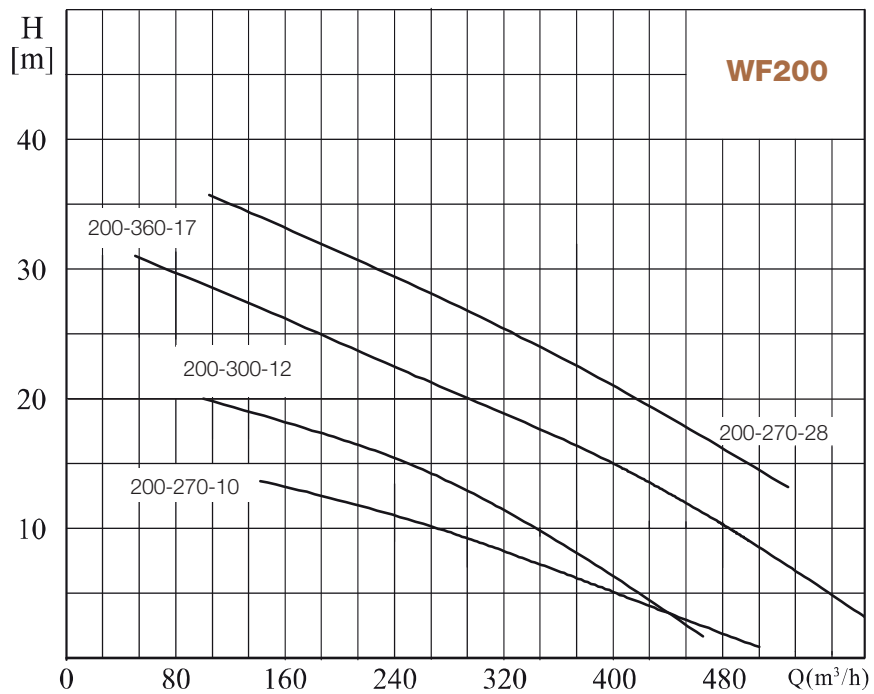
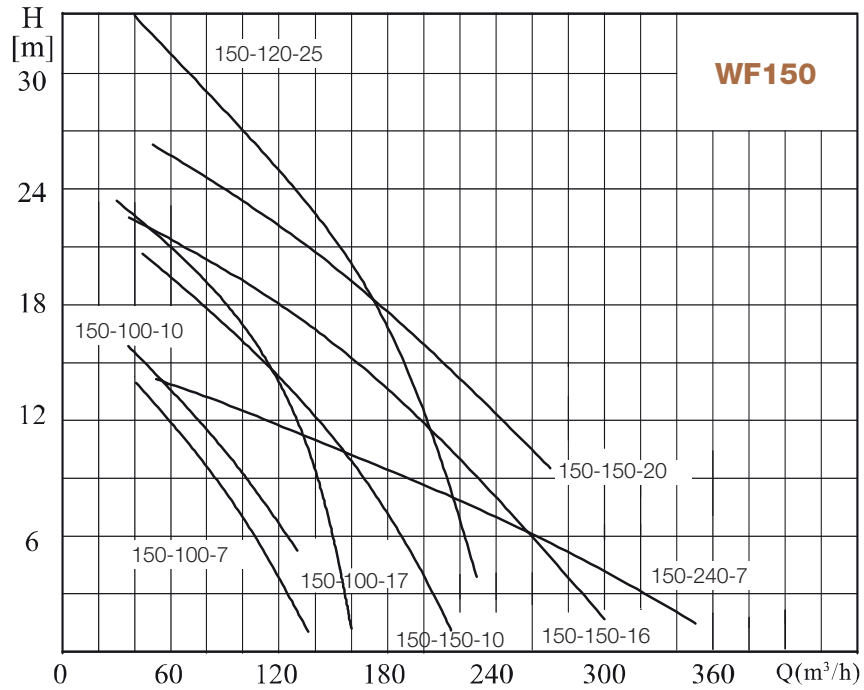
WF Sewage Submersible Pump

Performance curve



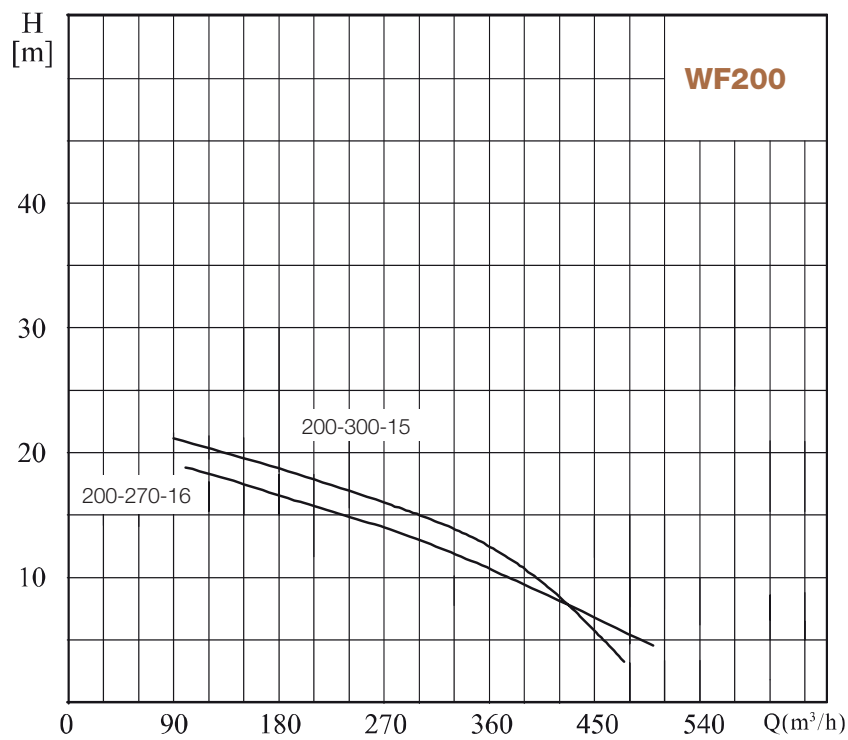
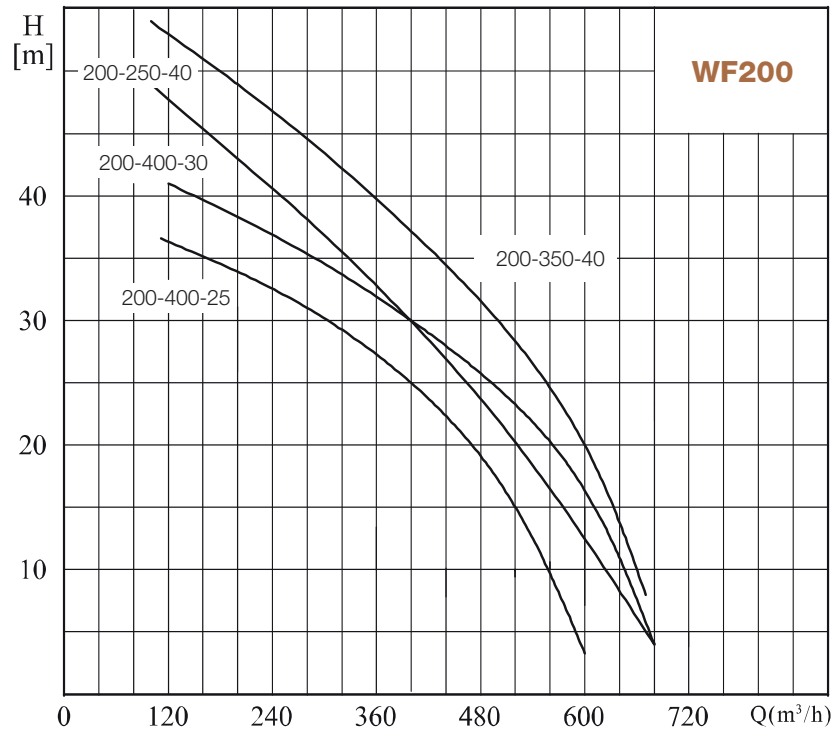
WF Sewage Submersible Pump

Performance curve



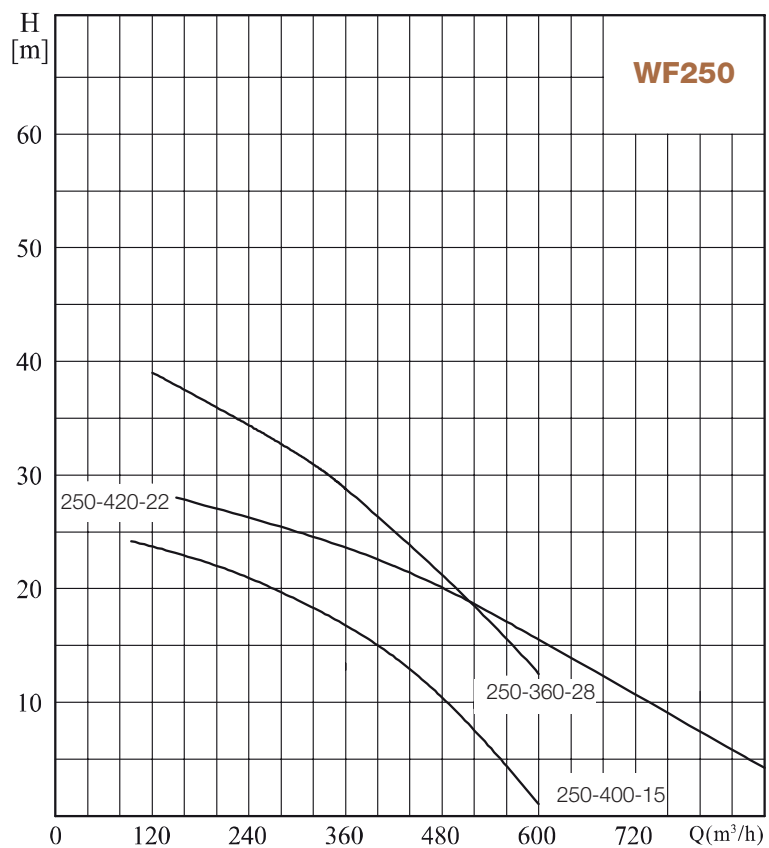
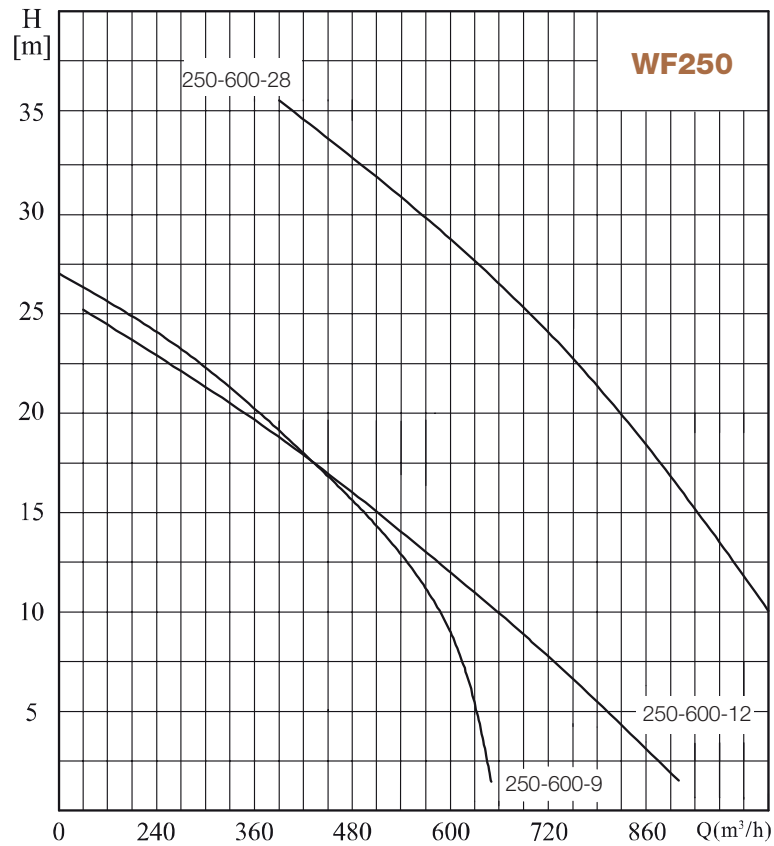
WF Sewage Submersible Pump

Performance curve



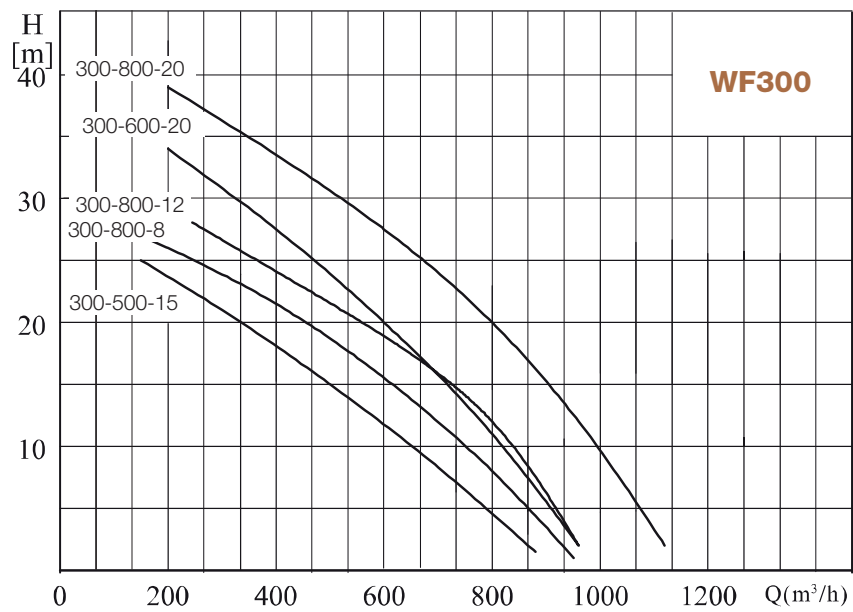
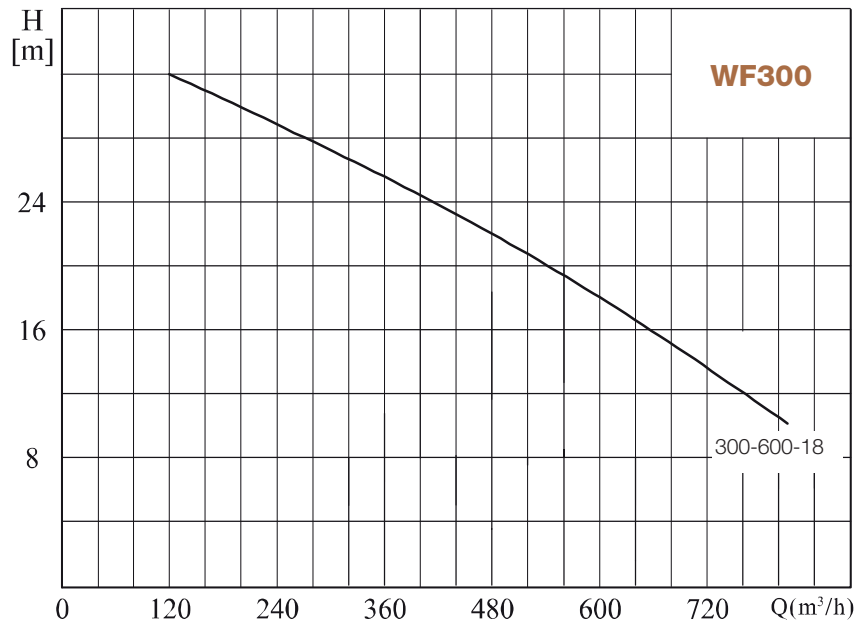
WF Sewage Submersible Pump

Performance curve



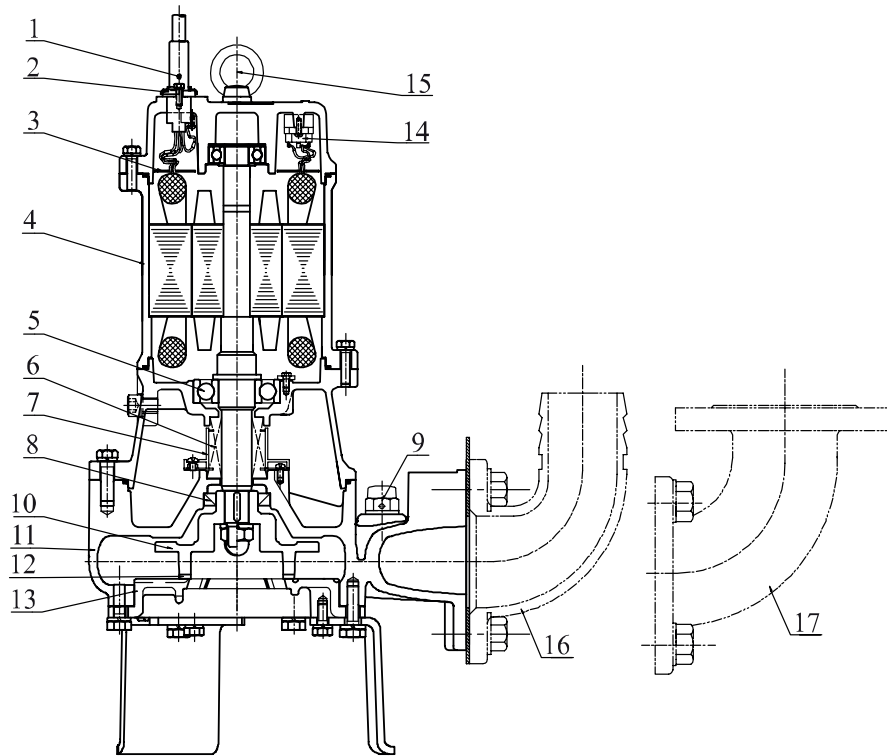
WF Sewage Submersible Pump

Performance curve



WG Grinder Submersible Pump

Model sectional drawing



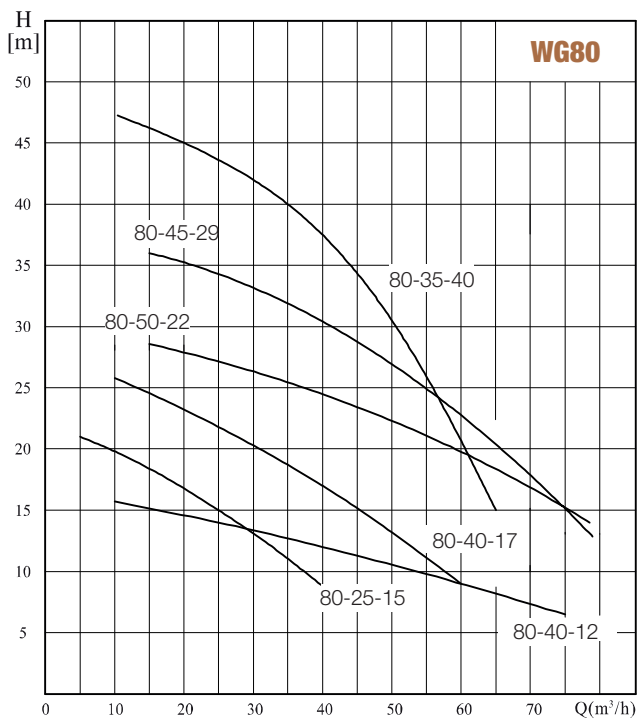
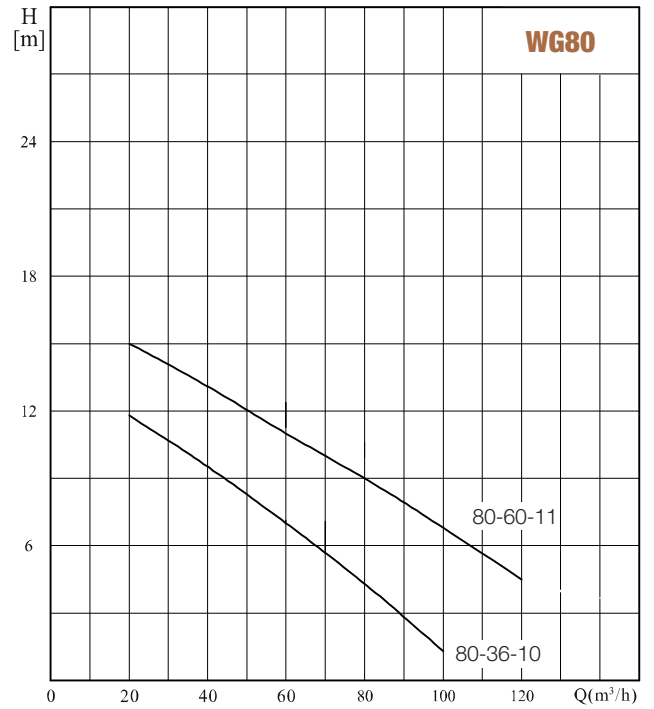
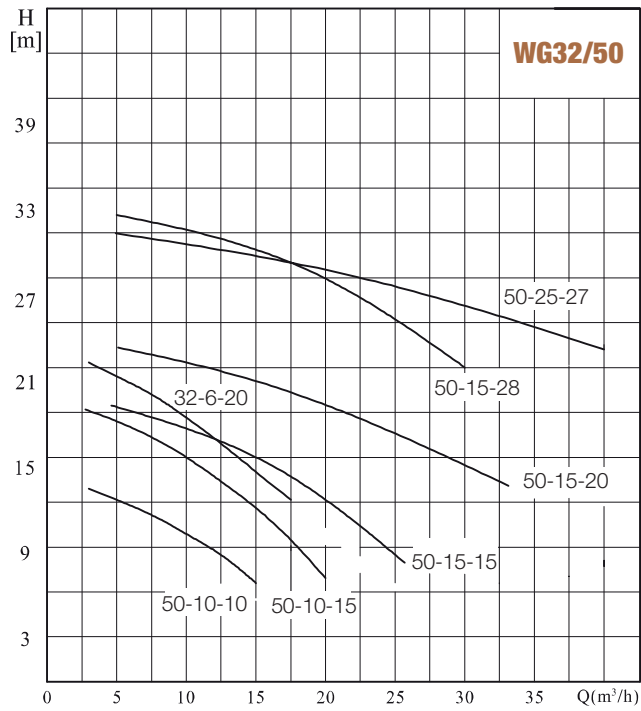
| N° | Part | Material |
|----|-------------------|------------------|
| 1 | Cable | |
| 2 | Cable gland | |
| 3 | Threading plate | |
| 4 | Motor | |
| 5 | Bearing | |
| 6 | Mechanical seal | Graphite |
| 7 | Oil lifter | |
| 8 | Oil seal | NBR |
| 9 | Air vent plug | RESIN |
| 10 | Impeller | ASTM25B |
| 11 | Casing | ASTM25B |
| 12 | Cutting blade | Tungsten carbide |
| 13 | Suction cover | Tungsten carbide |
| 14 | Thermal protector | |
| 15 | Eye bolt | |
| 16 | Elbow (optional) | ASTM25B |
| 17 | Elbow (optional) | ASTM25B |

Technical parameters and dimensions

| Model | Size (mm) | Q (m³/h) | H (m) | n (rpm) | P2 (kW) | V (V) | I (A) | Max. limit solid D. (mm) | W (kg) | Dimension (mm) | | | | | |
|------------|-----------|----------|-------|---------|---------|-------|-------|--------------------------|--------|----------------|-----|-----|-----|-----|-------|
| | | | | | | | | | | H | H1 | H2 | F | F1 | H3 |
| WG50-10-10 | 50 | 10 | 10 | 2850 | 0.75 | 380 | 1.8 | 11 | 21.5 | 415 | 285 | 203 | 222 | 333 | 93 |
| WG50-10-15 | 50 | 10 | 15 | 2850 | 1.1 | 380 | 2.6 | 13 | 22 | 415 | 280 | 201 | 238 | 349 | 93 |
| WG50-15-15 | 50 | 15 | 15 | 2880 | 1.5 | 380 | 3.3 | 23 | 33 | 464 | 320 | 197 | 271 | 382 | 96.5 |
| WG50-15-20 | 50 | 15 | 20 | 2880 | 2.2 | 380 | 4.6 | 12 | 37.5 | 510 | 320 | 216 | 279 | 373 | 107 |
| WG50-15-28 | 50 | 15 | 28 | 2840 | 3 | 380 | 6.1 | 20 | 45 | 540 | 370 | 119 | 294 | 405 | 108.5 |
| WG50-25-27 | 50 | 25 | 27 | 2840 | 4 | 380 | 7.7 | 22 | 50 | 556 | 420 | 221 | 337 | 448 | 111.5 |
| WG80-25-15 | 80 | 25 | 15 | 2880 | 2.2 | 380 | 4.6 | 22 | 45 | 576 | 440 | 291 | 313 | 450 | 156.5 |
| WG80-36-10 | 80 | 36 | 10 | 1413 | 2.2 | 380 | 5.5 | 47 | 65 | 643 | 500 | 308 | 363 | 510 | 168.5 |
| WG80-40-12 | 80 | 40 | 12 | 2840 | 3 | 380 | 6.1 | 22 | 45 | 586 | 450 | 276 | 300 | 44 | 141 |
| WG80-40-17 | 80 | 40 | 17 | 2840 | 4 | 380 | 7.7 | 22 | 48 | 609 | 465 | 292 | 313 | 450 | 156.5 |
| WG80-60-11 | 80 | 60 | 11 | 1413 | 4 | 380 | 8.4 | 65 | 80 | 717 | 570 | 315 | 369 | 515 | 173.5 |
| WG80-50-22 | 80 | 50 | 22 | 2940 | 5.5 | 380 | 10.8 | 23 | 99 | 879 | 570 | 320 | 410 | 546 | 185 |
| WG80-45-29 | 80 | 45 | 29 | 2940 | 7.5 | 380 | 14.3 | 25 | 99 | 879 | 600 | 320 | 410 | 546 | 185 |
| WG80-35-40 | 80 | 35 | 40 | 2930 | 11 | 380 | 21.7 | 25 | 130 | 927 | 600 | 320 | 410 | 559 | 185 |

WG Grinder Submersible Pump

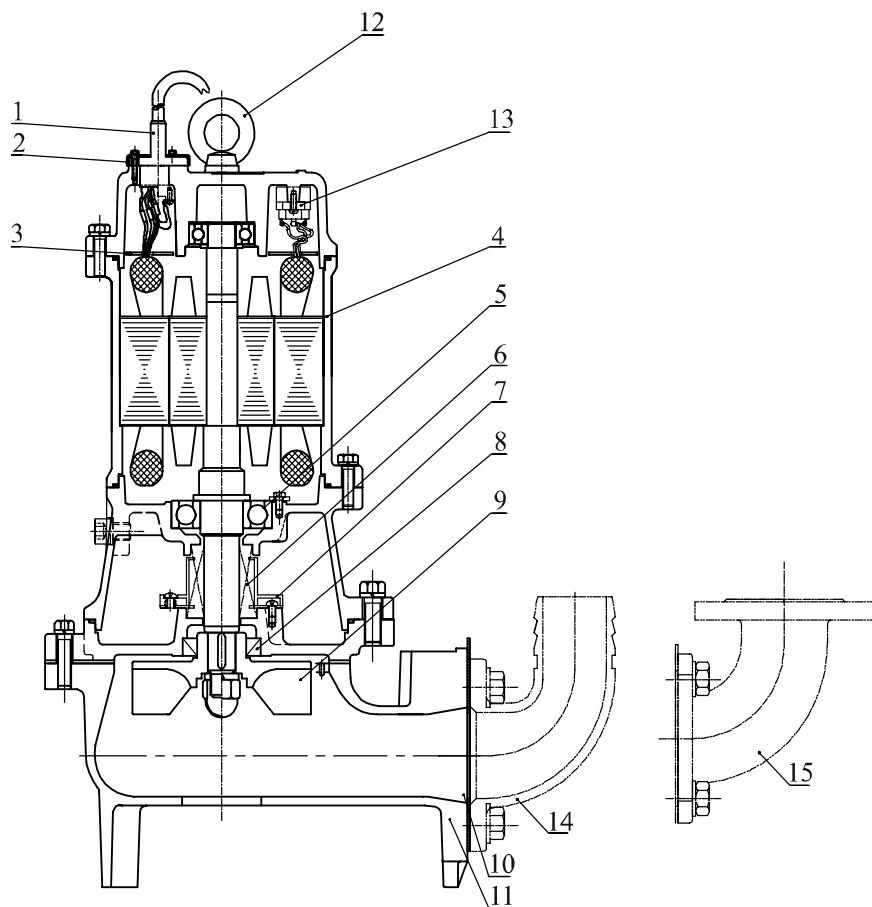
Performance curve



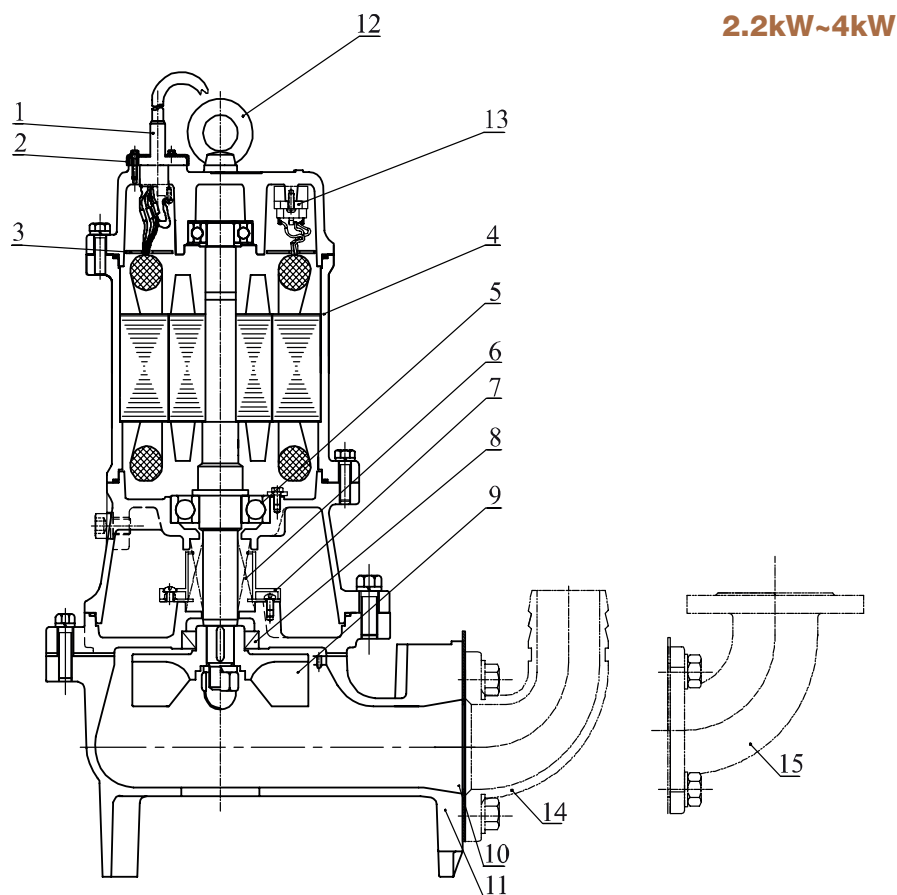
WV Vortex Impeller Submersible Sewage Pump

2-pole model sectional drawing

0.75kW~1.5kW



| N° | Part | Material |
|----|-------------------|----------|
| 1 | Cable | |
| 2 | Cable gland | |
| 3 | Threading plate | |
| 4 | Motor | ASTM25B |
| 5 | Bearing | |
| 6 | Mechanical seal | C/SiC |
| 7 | Oil lifter | |
| 8 | Oil seal | NBR |
| 9 | Impeller | ASTM25B |
| 10 | Casing | ASTM25B |
| 11 | Suction cover | ASTM25B |
| 12 | Eye bolt | |
| 13 | Thermal protector | |
| 14 | Elbow (optional) | ASTM25B |
| 15 | Elbow (optional) | ASTM25B |

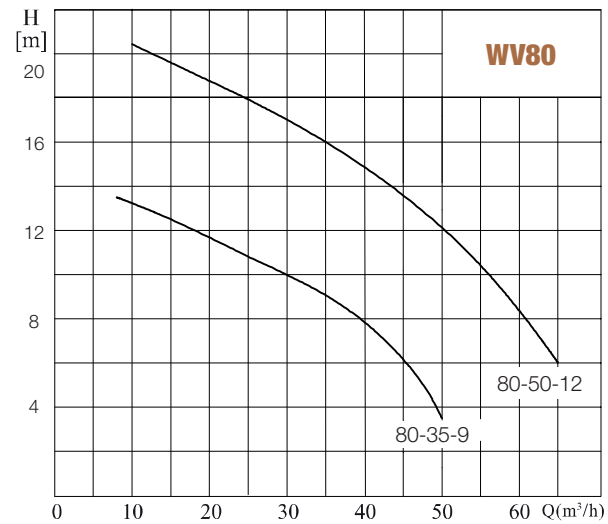
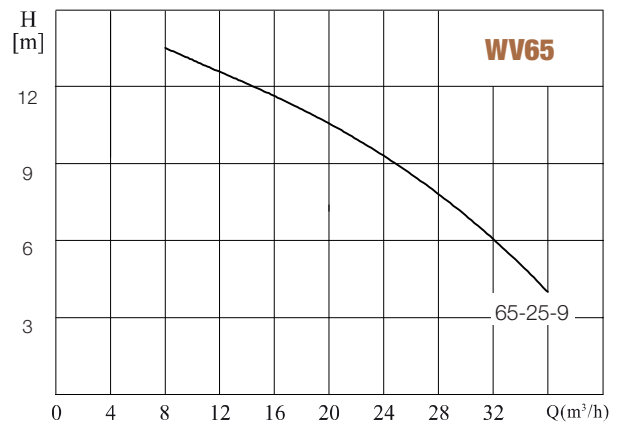
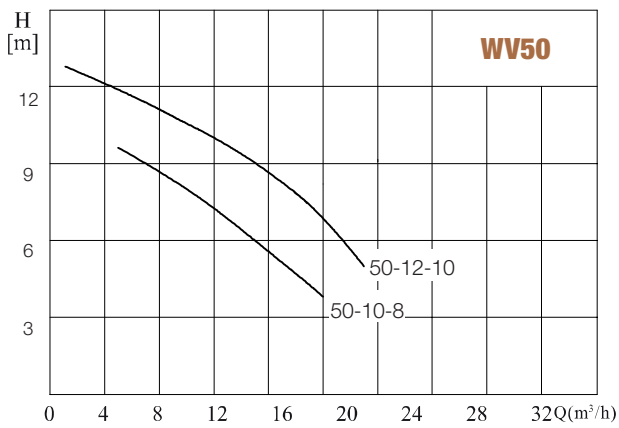


WV Vortex Impeller Submersible Sewage Pump

Technical parameters and dimensions (2-pole)

| Model | Size (mm) | Q (m ³ /h) | H (m) | n (rpm) | P2 (kW) | I (A) | Max. limit solid D. (mm) | W (kg) | Dimension (mm) | | | | | |
|------------|-----------|-----------------------|-------|---------|---------|-------|--------------------------|--------|----------------|-----|-----|-----|-----|----|
| | | | | | | | | | H | H1 | H2 | F | F1 | H3 |
| WV50-10-8 | 50 | 10 | 8 | 2850 | 0.75 | 1.8 | 37 | 23 | 432 | 287 | 177 | 215 | 324 | 77 |
| WV50-12-10 | 50 | 12 | 10 | 2880 | 1.5 | 3.3 | 36 | 31 | 468 | 317 | 182 | 250 | 358 | 82 |
| WV65-25-9 | 65 | 25 | 9 | 2880 | 1.5 | 3.3 | 47 | 36 | 490 | 340 | 204 | 250 | 385 | 87 |
| WV80-35-9 | 80 | 35 | 9 | 2880 | 2.2 | 4.6 | 56 | 50 | 545 | 390 | 227 | 275 | 420 | 90 |
| WV80-50-12 | 80 | 50 | 12 | 2840 | 4 | 7.7 | 56 | 58 | 575 | 415 | 230 | 280 | 427 | 90 |

Performance curve



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