



SPC TRADING COMPANY

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Vertical Pumps

VERTICAL PUMPS

Application

SPV, SPVF 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. SPV type is applicable to conveying-corrosive liquid, While SPVF 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 type: -15°C~+70°C

Hot water type: +70°C~+120°C

Ambient temperature: up to +40°C

Altitude: up to 1000m

Pump

SPV, SPVF 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 in-and outlet section with tie-bar 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.

Electric motor

Full-enclose air-blast two-pole standard motor

Protection class: IP55

Insulation class: F

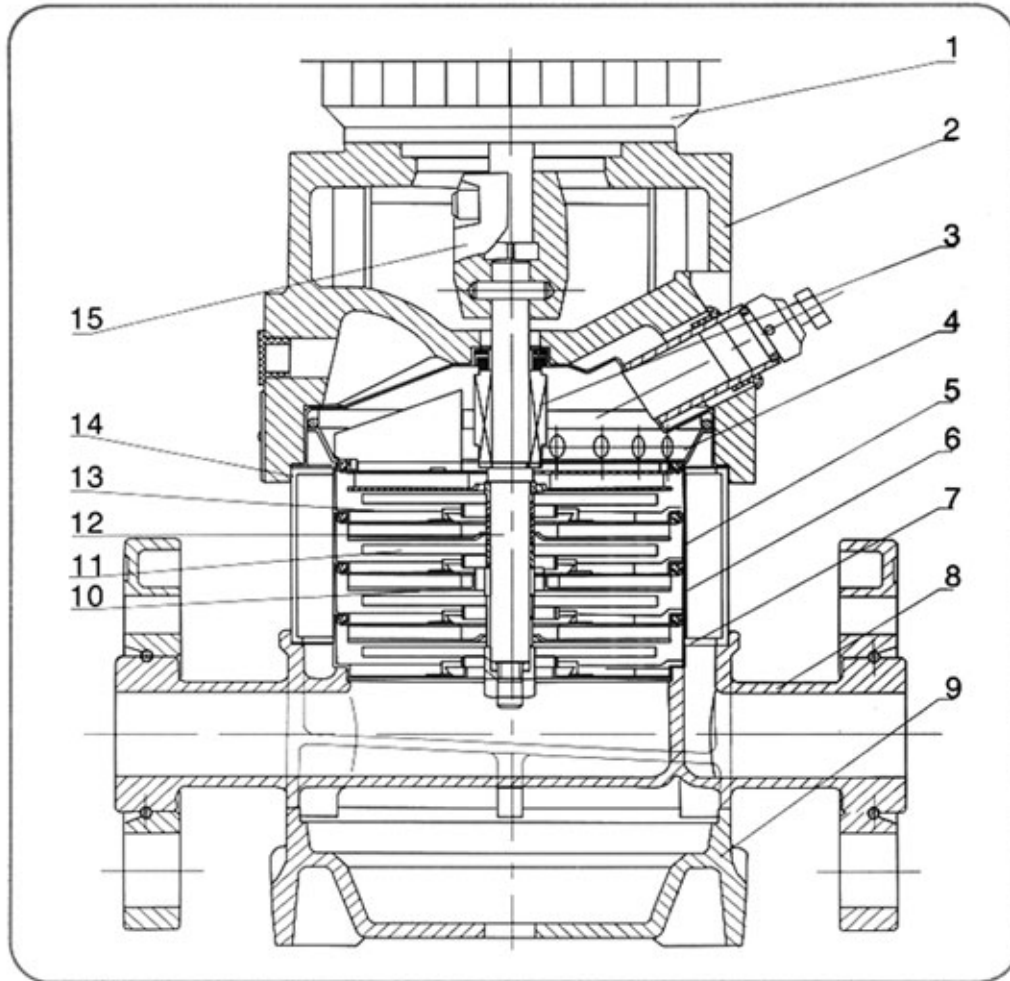
Standard voltage, 50HZ: 1X220-230/240V

3X200-220/346-380V

3X220-240/380-415V

3X380-415V

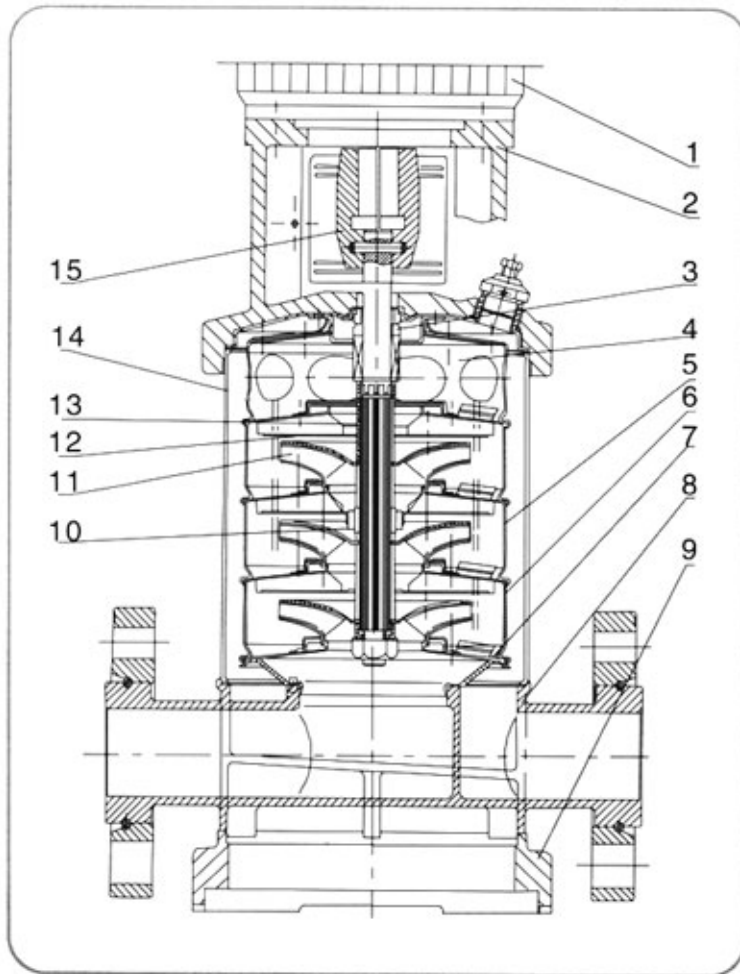
截面图 Section drawing SPV, SPVF2,4



材料 Material SPV, SPVF2,4

| 序号NO. | 名称/Name | 材料/Material | AISI/ASTM | 序号NO. | 名称/Name | 材料/Material | AISI/ASTM |
|-------|---------------------------------|------------------------|-----------|-------|-------------------------------------|---------------------------------|-----------|
| 1 | 电机 Electric motor | | | 9 | 底座Base frame | 铸铁Cast iron | ASTM25B |
| 2 | 电机座 Electric motor fram | 铸铁Cast iron | ASTM25B | 10 | 轴承Bearing | 硬质合金 Hard alloy | YG8 |
| 3 | 机械密封 Mechanical seal | | | 11 | 叶轮Impeller | 不锈钢 Stainless steel | AISI304 |
| 4 | 出口导流器 Outlet Inducer | 不锈钢 Stainless steel | AISI304 | 12 | 轴Shaft | 不锈钢 Stainless steel | AISI316 |
| 5 | 带轴承座导流器 Bearing fram Inducer | 不锈钢 Stainless steel | AISI304 | 13 | 叶轮隔套 Impeller separating sleeve | 不锈钢 Stainless steel | AISI304 |
| 6 | 导流器 Inducer | 不锈钢 Stainless steel | AISI304 | 14 | 耐压筒 Pressure- resistant cylinder | 不锈钢 Stainless steel | AISI304 |
| 7 | 进口导流器 Inlet Inducer | 不锈钢 Stainless steel | AISI304 | 15 | 联轴器Coupling | 粉末冶金 Powder froth metallargy | |
| 8 | 泵座 Pump frame | 不锈钢 Stainless steel | AISI304 | | 橡胶零件 Rubber parts | FPM | |

截面图 Section drawing SPV, SPVF8, 16

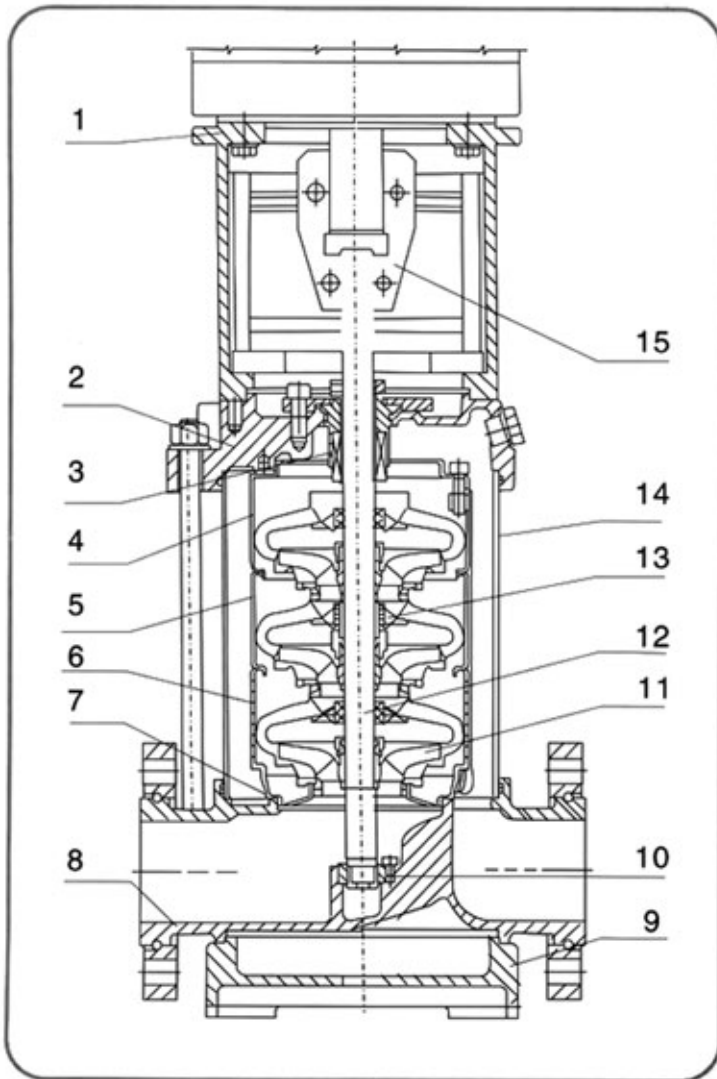


材料 Material SPV, SPVF8, 16

| 序号NO. | 名称/Name | 材料/Material | AISI/ASTM |
|-------|---------------------------------|------------------------------|-----------|
| 1 | 电机 Electric motor | | |
| 2 | 电机座 Electric motor fram | 铸铁 Cast iron | ASTM25B |
| 3 | 机械密封 Mechanical seal | | |
| 4 | 出口导流器 Outlet Inducer | 不锈钢 Stainless steel | AISI304 |
| 5 | 带轴承座导流器 Bearing fram Inducer | 不锈钢 Stainless steel | AISI304 |
| 6 | 导流器 Inducer | 不锈钢 Stainless steel | AISI304 |
| 7 | 进口导流器 Inlet Inducer | 不锈钢 Stainless steel | AISI304 |
| 8 | 泵座 Pump frame | 不锈钢 Stainless steel | AISI304 |
| 9 | 底座 Base frame | 铸铁 Cast iron | ASTM25B |
| 10 | 轴承 Bearing | 硬质合金 Hard alloy | |
| 11 | 叶轮 Impeller | 不锈钢 Stainless steel | AISI304 |
| 12 | 轴 Shaft | 不锈钢 Stainless steel | AISI316 |
| 13 | 叶轮隔套 Impeller separating sleeve | 不锈钢 Stainless steel | AISI304 |
| 14 | 耐压筒 Pressure-resistant cylinder | 不锈钢 Stainless steel | AISI304 |
| 15 | 联轴器 Coupling | 粉末冶金 Powder froth metallargy | |
| | 橡胶零件 Rubber parts | FPM | |

截面图 Section drawing SPV, SPVF 32

材料 Material SPV, SPVF 32

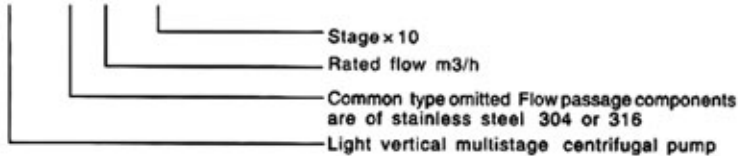


| 序号NO. | 名称/Name | 材料/Material | AISI/ASTM |
|-------|------------------------------------|---------------------------------|-----------|
| 1 | 电机座 Electric motor fram | 铸铁Cast iron | ASTM25B |
| 3 | 机械密封 Mechanical seal | | |
| 4 | 出口导流器 Outlet Inducer | 不锈钢 Stainless steel | AISI304 |
| 5 | 带轴承座导流器 Bearing fram Inducer | 不锈钢 Stainless steel | AISI304 |
| 6 | 导流器 Inducer | 不锈钢 Stainless steel | AISI304 |
| 7 | 进口导流器 Inlet Inducer | 不锈钢 Stainless steel | AISI304 |
| 9 | 底座Base framex | 铸铁Cast iron | ASTM25B |
| 10 | 下轴承 Bottom bearing | 碳化钨 Tungsten carbide | |
| 11 | 叶轮Impeller | 不锈钢 Stainless steel | AISI304 |
| 12 | 轴Shaft | 不锈钢 Stainless steel | AISI316 |
| 13 | 中间轴套Intermediate- shaft sleeve | 不锈钢 Stainless steel | AISI304 |
| 14 | 耐压筒Pressure- resistant cylinder | 不锈钢 Stainless steel | AISI304 |
| 15 | 联轴器Coupling | 粉末冶金 Powder froth metallurgy | |
| | 橡胶零件Rubber parts | FPM | |
| SPVF | | | |
| 2 | 泵端座 Pump head frame | 不锈钢 Stainless steel | AISI304 |
| 8 | 泵座 Pump frame | 不锈钢 Stainless steel | AISI304 |

型号含义 Definition of Model

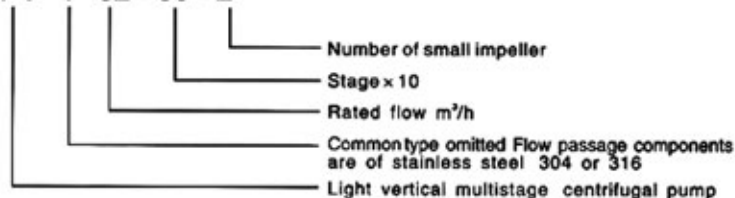
SPV/SPVF2,4,8,16

SPV F 8 - 20

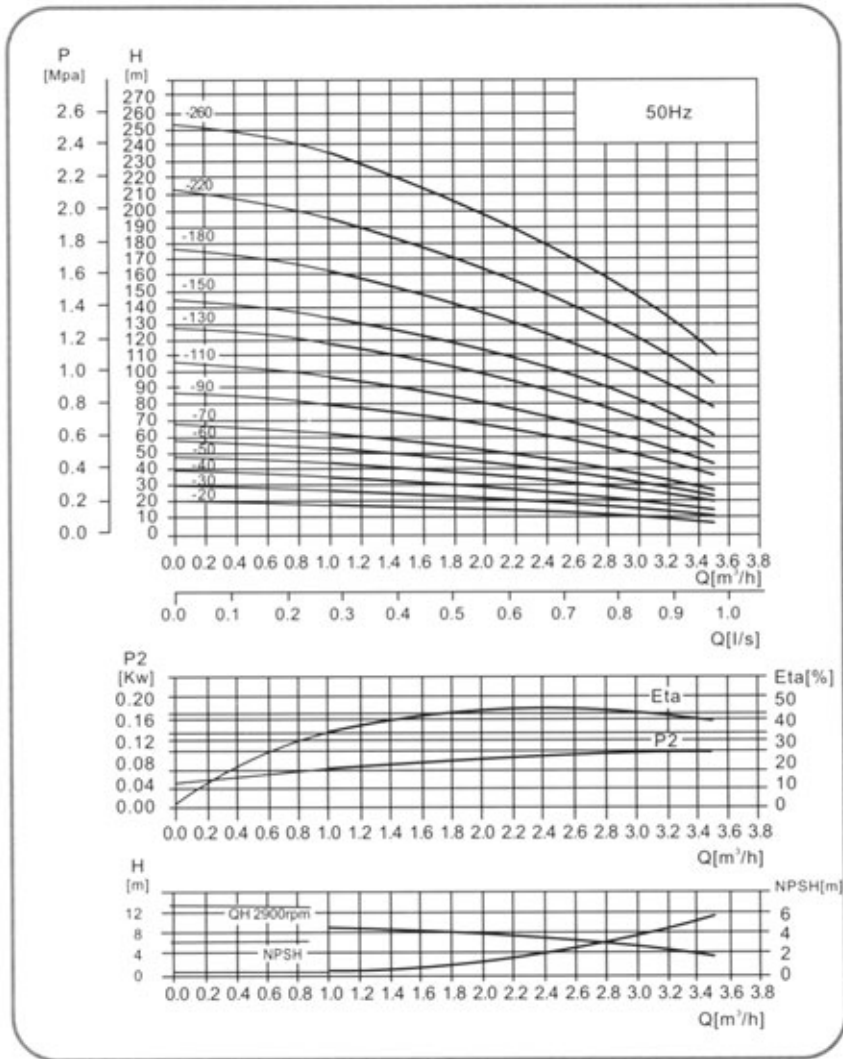
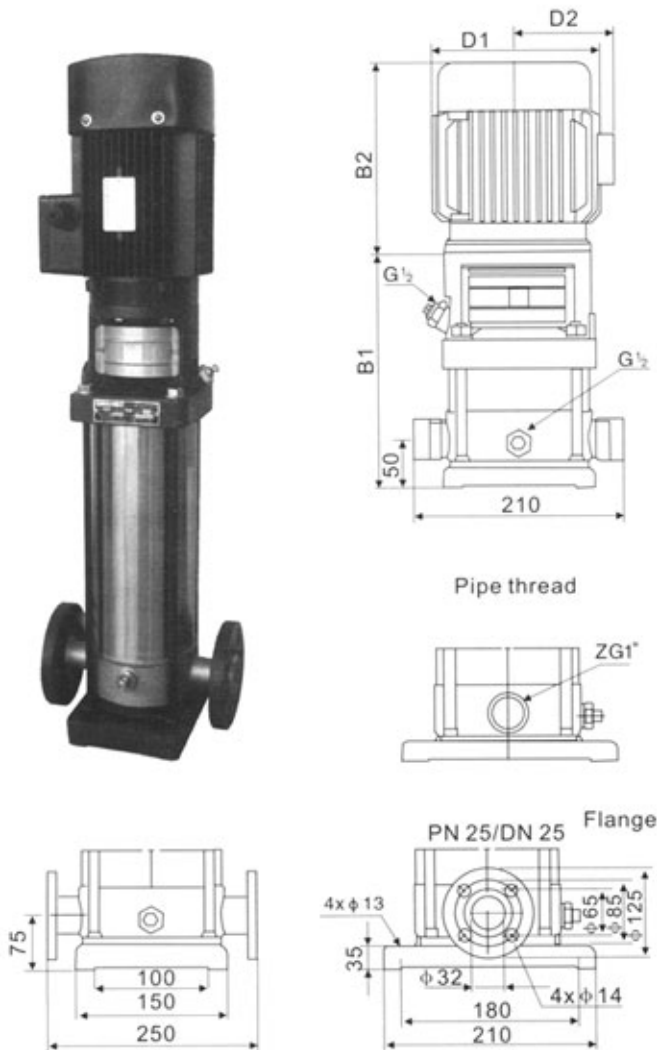


SPV/SPVF32

SPV F 32 - 80 - 2



Performance cure



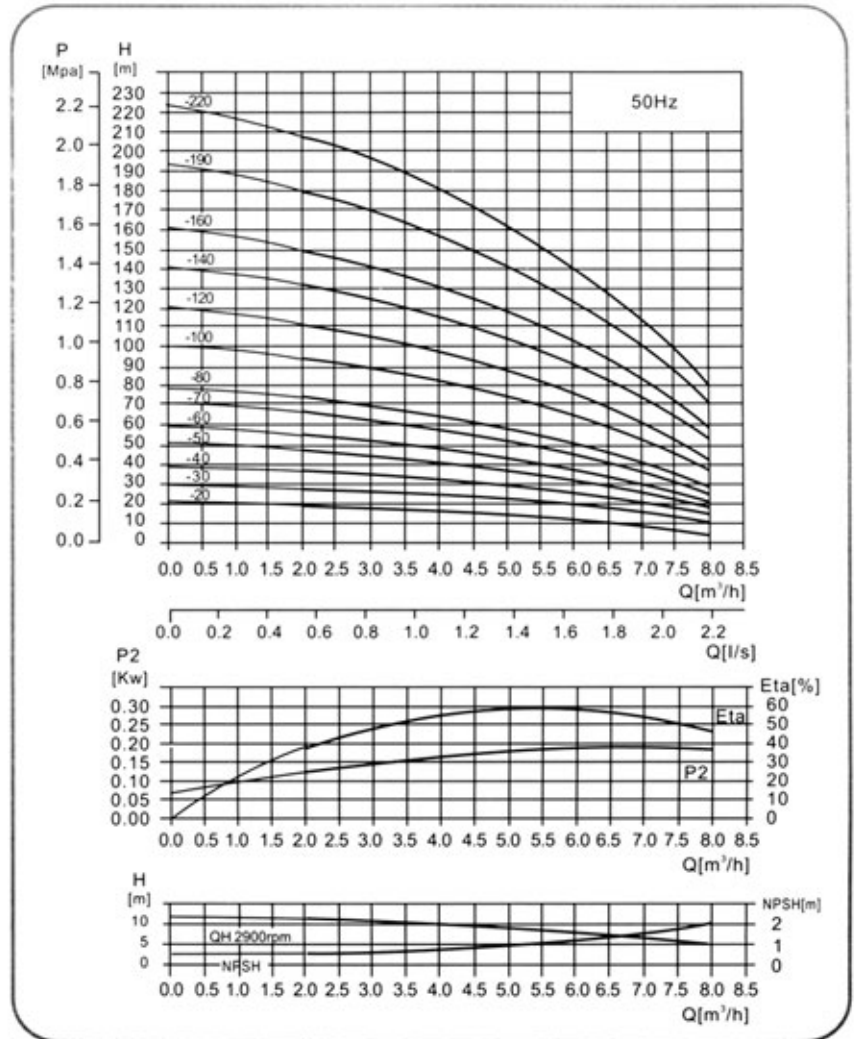
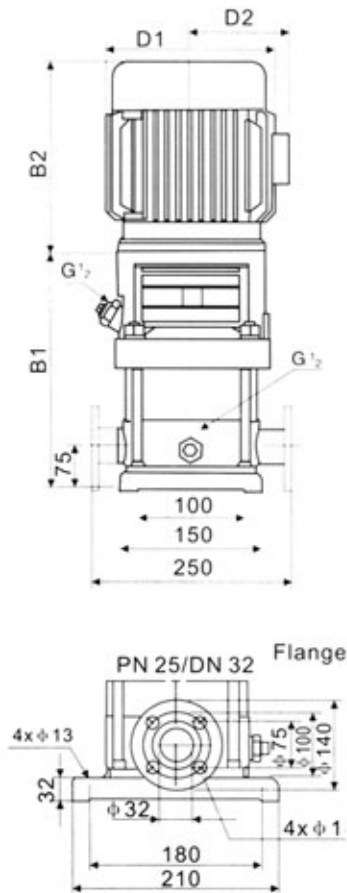
Performance table

Size and weight :

| Model | Driving motor (KW) | Q (m³/h) | H (m) | | | | | | |
|----------|--------------------|----------|-------|-----|-----|-----|-----|-----|-----|
| | | | 1 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 |
| SPV2-20 | 0.37 | 18 | 17 | 16 | 15 | 13 | 12 | 10 | 8 |
| SPV2-30 | 0.37 | 27 | 26 | 24 | 22 | 20 | 18 | 15 | 12 |
| SPV2-40 | 0.55 | 36 | 35 | 33 | 30 | 26 | 24 | 20 | 16 |
| SPV2-50 | 0.55 | 45 | 43 | 40 | 37 | 33 | 30 | 24 | 20 |
| SPV2-60 | 0.75 | 53 | 52 | 50 | 45 | 40 | 36 | 30 | 24 |
| SPV2-70 | 0.75 | 63 | 61 | 57 | 52 | 47 | 41 | 35 | 28 |
| SPV2-80 | 1.1 | 80 | 78 | 73 | 67 | 61 | 54 | 45 | 37 |
| SPV2-110 | 1.1 | 98 | 95 | 89 | 82 | 73 | 64 | 54 | 44 |
| SPV2-130 | 1.5 | 116 | 114 | 106 | 98 | 89 | 78 | 65 | 52 |
| SPV2-150 | 1.5 | 134 | 130 | 123 | 112 | 100 | 90 | 73 | 60 |
| SPV2-180 | 2.2 | 161 | 157 | 148 | 136 | 121 | 108 | 91 | 76 |
| SPV2-220 | 2.2 | 197 | 192 | 180 | 165 | 148 | 130 | 110 | 90 |
| SPV2-260 | 3.0 | 232 | 228 | 214 | 198 | 179 | 158 | 130 | 110 |

| Model | Size (mm) | | | | | Weight (kg) |
|----------|-----------|-----|-------|-----|-----|-------------|
| | B1 | B2 | B1+B2 | D1 | D2 | |
| SPV2-20 | 220 | 210 | 430 | 148 | 117 | 20 |
| SPV2-30 | 238 | 210 | 448 | 148 | 117 | 20 |
| SPV2-40 | 256 | 210 | 466 | 148 | 117 | 20 |
| SPV2-50 | 274 | 210 | 484 | 148 | 117 | 20 |
| SPV2-60 | 297 | 245 | 542 | 170 | 142 | 25 |
| SPV2-70 | 315 | 245 | 560 | 170 | 142 | 25 |
| SPV2-80 | 351 | 245 | 596 | 170 | 142 | 30 |
| SPV2-110 | 387 | 245 | 632 | 170 | 142 | 30 |
| SPV2-130 | 440 | 290 | 730 | 190 | 155 | 35 |
| SPV2-150 | 476 | 290 | 766 | 190 | 155 | 35 |
| SPV2-180 | 530 | 290 | 820 | 190 | 155 | 40 |
| SPV2-220 | 602 | 290 | 892 | 190 | 155 | 45 |
| SPV2-260 | 682 | 315 | 997 | 197 | 165 | 50 |

Performance cure



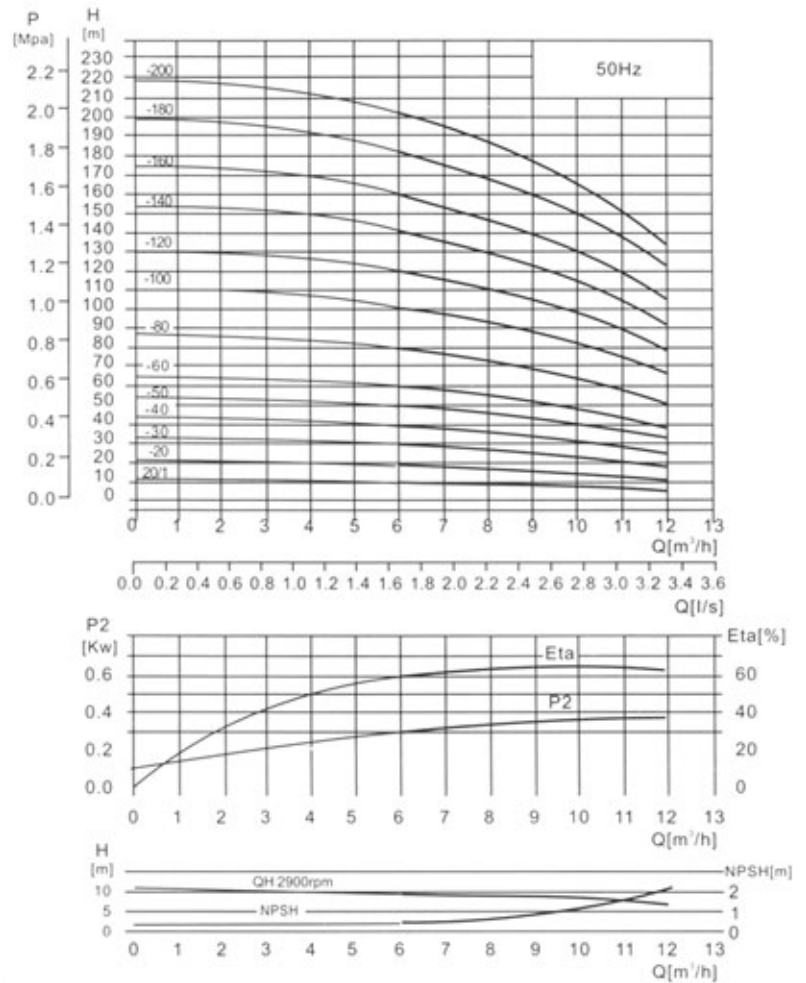
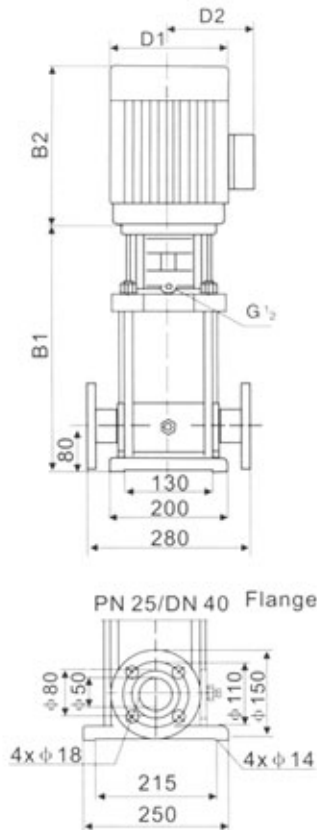
Performance table

| Model | Driving motor (KW) | Q (m³/h) | H (m) | | | | | | | |
|----------|--------------------|----------|-------|-----|-----|-----|-----|-----|-----|-----|
| | | | 1.5 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 |
| SPV4-20 | 0.37 | | 19 | 18 | 17 | 15 | 13 | 10 | 8 | 6 |
| SPV4-30 | 0.55 | | 28 | 27 | 26 | 24 | 20 | 18 | 13 | 10 |
| SPV4-40 | 0.75 | | 38 | 36 | 34 | 32 | 27 | 24 | 19 | 13 |
| SPV4-50 | 1.1 | | 47 | 45 | 43 | 40 | 34 | 31 | 23 | 17 |
| SPV4-60 | 1.1 | | 56 | 54 | 52 | 48 | 41 | 37 | 28 | 20 |
| SPV4-70 | 1.5 | | 66 | 63 | 61 | 56 | 48 | 43 | 33 | 24 |
| SPV4-80 | 1.5 | | 74 | 72 | 70 | 64 | 55 | 50 | 38 | 27 |
| SPV4-100 | 2.2 | | 96 | 90 | 87 | 81 | 71 | 62 | 48 | 34 |
| SPV4-120 | 2.2 | | 114 | 108 | 104 | 95 | 85 | 75 | 58 | 41 |
| SPV4-140 | 3.0 | | 136 | 126 | 122 | 112 | 101 | 89 | 68 | 48 |
| SPV4-160 | 3.0 | | 152 | 144 | 140 | 129 | 115 | 101 | 78 | 55 |
| SPV4-190 | 4.0 | | 183 | 171 | 168 | 153 | 137 | 122 | 93 | 67 |
| SPV4-220 | 4.0 | | 211 | 200 | 192 | 178 | 160 | 138 | 108 | 79 |

Size and weight

| Model | Size (mm) | | | | | Weight (kg) |
|----------|-----------|-----|-------|-----|-----|-------------|
| | B1 | B2 | B1+B2 | D1 | D2 | |
| SPV4-20 | 238 | 210 | 448 | 148 | 117 | 20 |
| SPV4-30 | 265 | 210 | 475 | 148 | 117 | 20 |
| SPV4-40 | 297 | 245 | 542 | 170 | 142 | 20 |
| SPV4-50 | 324 | 245 | 569 | 170 | 142 | 25 |
| SPV4-60 | 351 | 245 | 596 | 170 | 142 | 25 |
| SPV4-70 | 395 | 290 | 685 | 190 | 155 | 30 |
| SPV4-80 | 422 | 290 | 712 | 190 | 155 | 30 |
| SPV4-100 | 476 | 290 | 766 | 190 | 155 | 30 |
| SPV4-120 | 530 | 290 | 820 | 190 | 155 | 35 |
| SPV4-140 | 592 | 315 | 907 | 197 | 165 | 35 |
| SPV4-160 | 646 | 315 | 961 | 197 | 165 | 40 |
| SPV4-190 | 727 | 335 | 1062 | 230 | 188 | 45 |
| SPV4-220 | 808 | 335 | 1143 | 230 | 188 | 50 |

Performance curve

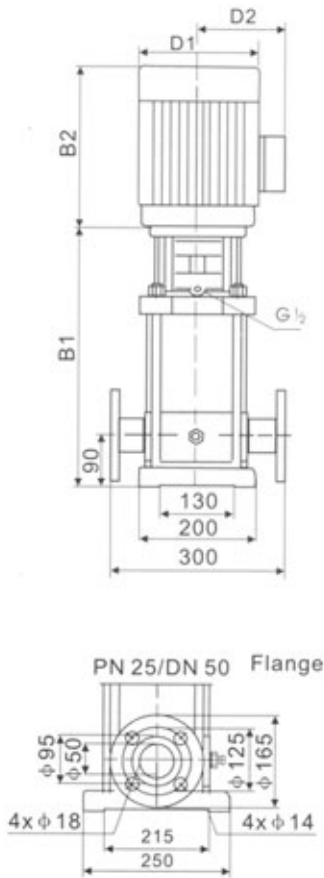


Performance table

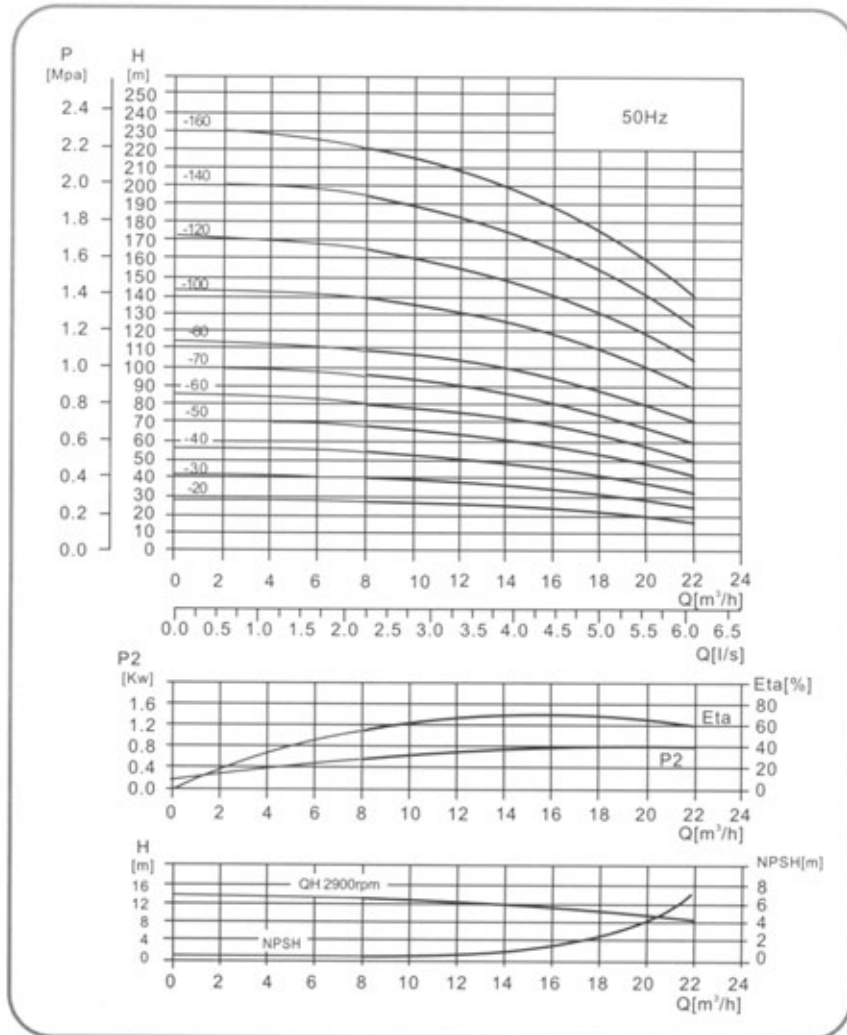
| Model | Driving motor (KW) | Q (m ³ /h) | H (m) | | | | | | | | | |
|-----------|--------------------|-----------------------|-------|------|-----|-----|-----|-----|-----|----|--|--|
| | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| SPV8-20/1 | 0.75 | 10 | 9.5 | 9.3 | 9 | 8.5 | 8 | 7 | 6 | | | |
| SPV8-20 | 0.75 | 20 | 19.5 | 19 | 18 | 17 | 16 | 14 | 13 | | | |
| SPV8-30 | 1.1 | 30 | 29.5 | 28.5 | 27 | 25 | 24 | 21 | 19 | | | |
| SPV8-40 | 1.5 | 41 | 39.5 | 38 | 36 | 34 | 32 | 28 | 26 | | | |
| SPV8-50 | 2.2 | 52 | 50 | 48 | 45 | 42 | 40 | 36 | 32 | | | |
| SPV8-60 | 2.2 | 62 | 60 | 57 | 54 | 51 | 48 | 43 | 39 | | | |
| SPV8-80 | 3.0 | 83 | 80 | 77 | 73 | 69 | 65 | 58 | 52 | | | |
| SPV8-100 | 4.0 | 104 | 100 | 97 | 92 | 87 | 81 | 73 | 65 | | | |
| SPV8-120 | 4.0 | 124 | 120 | 116 | 111 | 104 | 92 | 87 | 78 | | | |
| SPV8-140 | 5.5 | 145 | 141 | 136 | 130 | 122 | 113 | 102 | 92 | | | |
| SPV8-160 | 5.5 | 166 | 161 | 156 | 148 | 139 | 130 | 118 | 106 | | | |
| SPV8-160 | 7.5 | 187 | 182 | 175 | 167 | 157 | 146 | 134 | 120 | | | |
| SPV8-200 | 7.5 | 208 | 202 | 195 | 186 | 175 | 163 | 150 | 135 | | | |

Size and weight

| Model | Size (mm) | | | | | Weight (kg) |
|-----------|-----------|-----|-------|-----|-----|-------------|
| | B1 | B2 | B1+B2 | D1 | D2 | |
| SPV8-20/1 | 350 | 245 | 595 | 170 | 142 | 25 |
| SPV8-20 | 350 | 245 | 595 | 170 | 142 | 25 |
| SPV8-30 | 380 | 245 | 625 | 170 | 142 | 30 |
| SPV8-40 | 420 | 290 | 710 | 190 | 155 | 30 |
| SPV8-50 | 450 | 290 | 740 | 190 | 155 | 40 |
| SPV8-60 | 480 | 290 | 770 | 190 | 155 | 40 |
| SPV8-80 | 550 | 315 | 865 | 197 | 165 | 45 |
| SPV8-100 | 610 | 335 | 945 | 230 | 188 | 55 |
| SPV8-120 | 670 | 335 | 1005 | 230 | 188 | 55 |
| SPV8-140 | 750 | 430 | 1180 | 260 | 208 | 80 |
| SPV8-160 | 810 | 430 | 1240 | 260 | 208 | 80 |
| SPV8-160 | 870 | 430 | 1300 | 260 | 208 | 90 |
| SPV8-200 | 930 | 430 | 1360 | 260 | 208 | 90 |



Performance curve

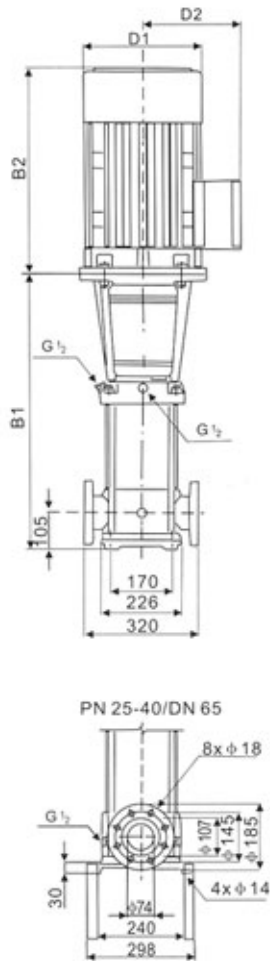


Performance table

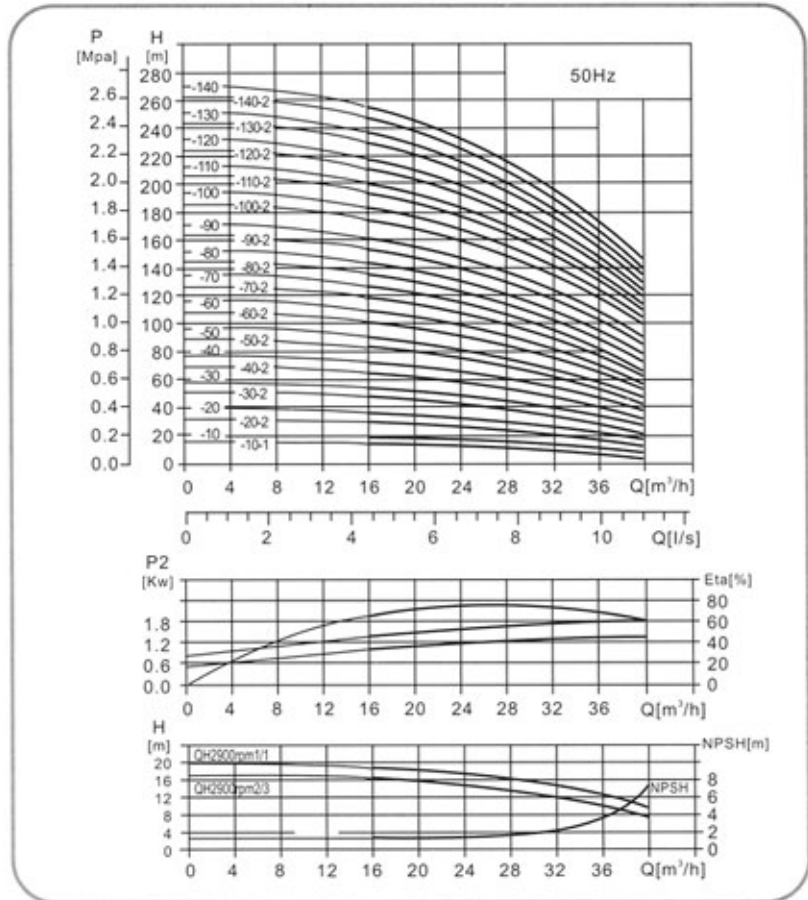
| Model | (KW) Driving motor | Q (m³/h) | H (m) | | | | | | | |
|-----------|-----------------------|-------------|----------|-----|-----|-----|-----|-----|-----|-----|
| | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
| SPV16-20 | 2.2 | | 27 | 26 | 25 | 24 | 22 | 21 | 19 | 16 |
| SPV16-30 | 3.0 | | 41 | 40 | 38 | 37 | 34 | 32 | 26 | 25 |
| SPV16-40 | 4.0 | | 54 | 53 | 52 | 49 | 46 | 43 | 38 | 34 |
| SPV16-50 | 5.5 | | 68 | 67 | 65 | 62 | 58 | 54 | 48 | 43 |
| SPV16-60 | 5.5 | | 82 | 80 | 78 | 74 | 70 | 64 | 58 | 52 |
| SPV16-70 | 7.5 | | 96 | 95 | 91 | 87 | 82 | 76 | 68 | 61 |
| SPV16-80 | 7.5 | | 110 | 108 | 104 | 99 | 94 | 86 | 77 | 70 |
| SPV16-100 | 11 | | 138 | 136 | 131 | 125 | 118 | 109 | 97 | 87 |
| SPV16-120 | 11 | | 166 | 162 | 157 | 150 | 141 | 130 | 116 | 105 |
| SPV16-140 | 15 | | 194 | 190 | 184 | 175 | 166 | 152 | 136 | 122 |
| SPV16-160 | 15 | | 222 | 217 | 210 | 200 | 189 | 174 | 156 | 140 |

Size and weight

| Model | Size (mm) | | | | | Weight |
|-----------|-----------|-----|-------|-----|-----|--------|
| | B1 | B2 | B1+B2 | D1 | D2 | |
| SPV16-20 | 400 | 290 | 690 | 190 | 155 | 40 |
| SPV16-30 | 455 | 315 | 770 | 197 | 165 | 50 |
| SPV16-40 | 500 | 335 | 835 | 230 | 188 | 55 |
| SPV16-50 | 565 | 430 | 995 | 260 | 208 | 70 |
| SPV16-60 | 610 | 430 | 1040 | 260 | 208 | 75 |
| SPV16-70 | 655 | 430 | 1085 | 260 | 208 | 80 |
| SPV16-80 | 700 | 430 | 1130 | 260 | 208 | 80 |
| SPV16-100 | 820 | 490 | 1310 | 330 | 255 | 140 |
| SPV16-120 | 910 | 490 | 1400 | 330 | 255 | 145 |
| SPV16-140 | 1000 | 490 | 1490 | 330 | 255 | 160 |
| SPV16-160 | 1090 | 490 | 1580 | 330 | 255 | 165 |



Performance curve



Performance table

| Model | Driving motor (KW) | Q (m³/h) | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
|-------------|--------------------|----------|-----|-----|-----|-----|-----|-----|----|
| SPV32-10-1 | 1.5 | H (m) | 14 | 13 | 12 | 11 | 9 | 7 | 4 |
| SPV32-10 | 2.2 | | 18 | 17 | 15 | 14 | 13 | 11 | 8 |
| SPV32-20-2 | 3.0 | | 29 | 28 | 26 | 23 | 20 | 16 | 11 |
| SPV32-20 | 4.0 | | 36 | 34 | 32 | 29 | 27 | 23 | 18 |
| SPV32-30-2 | 5.5 | | 47 | 44 | 41 | 38 | 33 | 28 | 21 |
| SPV32-30 | 5.5 | | 54 | 51 | 48 | 44 | 40 | 35 | 27 |
| SPV32-40-2 | 7.5 | | 65 | 62 | 58 | 53 | 46 | 40 | 30 |
| SPV32-40 | 7.5 | | 72 | 69 | 65 | 59 | 53 | 47 | 37 |
| SPV32-50-2 | 11 | | 83 | 79 | 74 | 68 | 60 | 52 | 41 |
| SPV32-50 | 11 | | 90 | 86 | 81 | 74 | 67 | 59 | 47 |
| SPV32-60-2 | 11 | | 101 | 97 | 90 | 83 | 74 | 65 | 51 |
| SPV32-60 | 11 | | 108 | 104 | 97 | 90 | 81 | 72 | 57 |
| SPV32-70-2 | 15 | | 119 | 114 | 107 | 98 | 88 | 78 | 60 |
| SPV32-70 | 15 | | 126 | 121 | 113 | 105 | 95 | 85 | 67 |
| SPV32-80-2 | 15 | | 136 | 131 | 123 | 114 | 102 | 90 | 71 |
| SPV32-80 | 15 | | 144 | 138 | 130 | 120 | 109 | 97 | 77 |
| SPV32-90-2 | 18.5 | | 154 | 148 | 140 | 129 | 117 | 102 | 82 |
| SPV32-90 | 18.5 | | 162 | 156 | 147 | 136 | 124 | 109 | 88 |
| SPV32-100-2 | 18.5 | | 175 | 166 | 157 | 146 | 131 | 115 | 91 |
| SPV32-100 | 18.5 | | 182 | 173 | 164 | 152 | 138 | 122 | 98 |
| SPV32-110-2 | 22 | 193 | 184 | 173 | 164 | 146 | 128 | 102 | |
| SPV32-110 | 22 | 200 | 191 | 180 | 168 | 153 | 135 | 109 | |
| SPV32-120-2 | 22 | 211 | 201 | 189 | 178 | 160 | 140 | 113 | |

Size and weight

| Model | (mm)/Size | | | | | (kg) Weight |
|-----------------------|-----------|---------|---------|---------|---------|-------------|
| | B1 | B2 | B1+B2 | D1 | D2 | |
| SPV32-10-1/SPV32-10 | 505 | 290 | 795 | 190 | 155 | 68/71 |
| SPV32-20-2/SPV32-20 | 575 | 315/335 | 890/910 | 197/230 | 165/188 | 78/84 |
| SPV32-30-2/SPV32-30 | 645 | 430 | 1075 | 260 | 208 | 93 |
| SPV32-40-2/SPV32-40 | 715 | 430 | 1145 | 260 | 208 | 102 |
| SPV32-50-2/SPV32-50 | 890 | 490 | 1380 | 330 | 255 | 172 |
| SPV32-60-2/SPV32-60 | 960 | 490 | 1450 | 330 | 255 | 176 |
| SPV32-70-2/SPV32-70 | 1030 | 490 | 1520 | 330 | 255 | 188 |
| SPV32-80-2/SPV32-80 | 1100 | 490 | 1590 | 330 | 255 | 192 |
| SPV32-90-2/SPV32-90 | 1170 | 550 | 1720 | 330 | 255 | 218 |
| SPV32-100-2/SPV32-100 | 1240 | 550 | 1790 | 330 | 255 | 222 |
| SPV32-110-2/SPV32-110 | 1310 | 590 | 1900 | 360 | 285 | 259 |
| SPV32-120-2/SPV32-120 | 1380 | 590 | 1970 | 360 | 285 | 263 |
| SPV32-130-2/SPV32-130 | 1450 | 660 | 2110 | 400 | 310 | 327 |
| SPV32-140-2/SPV32-140 | 1520 | 660 | 2180 | 400 | 310 | 331 |

| Model | Driving motor (KW) | Q (m³/h) | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
|-------------|--------------------|----------|-----|-----|-----|-----|-----|-----|-----|
| SPV32-120 | 22 | H (m) | 218 | 208 | 196 | 184 | 167 | 147 | 120 |
| SPV32-130-2 | 30 | | 230 | 218 | 206 | 193 | 174 | 153 | 124 |
| SPV32-130 | 30 | | 237 | 225 | 213 | 200 | 181 | 160 | 131 |
| SPV32-140-2 | 30 | | 247 | 235 | 222 | 210 | 189 | 165 | 135 |
| SPV-140 | 30 | | 255 | 242 | 229 | 216 | 196 | 172 | 142 |