

# SEWAGE VORTEX SV

submersible pump for  
sewage water



waste water



industrial use

SEWAGE  
VORTEX SV

**Max Head** 12 - 15m

**Max Flow** 16 - 70m<sup>3</sup>/h

**Motor Power** 0.75 - 4Kw

**Discharge size** 40 - 80



## KEY ADVANTAGES OF A VORTEX SV PUMP

### APPLICATION

Vortex SV series pumps are suitable for pumping drainage water and waste water. With 40 up to 80 mm spherical clearance. They are used for various applications in public and private sector, trade and industry.

### INSTALLATION

Permanent or transportable. Model with float switch control for automatic pump operation, depending on liquid level in the sump.

### MATERIALS

Double seals, lip seals and reinforced SIC-SIC mechanical seal. Motor casing, pump body and open impeller in cast iron, 420 stainless steel shaft.

### PUMPED LIQUID

Clear water and drainage water, sewage containing soft solids. Max. liquid temperature: 35°C.

### MOTOR

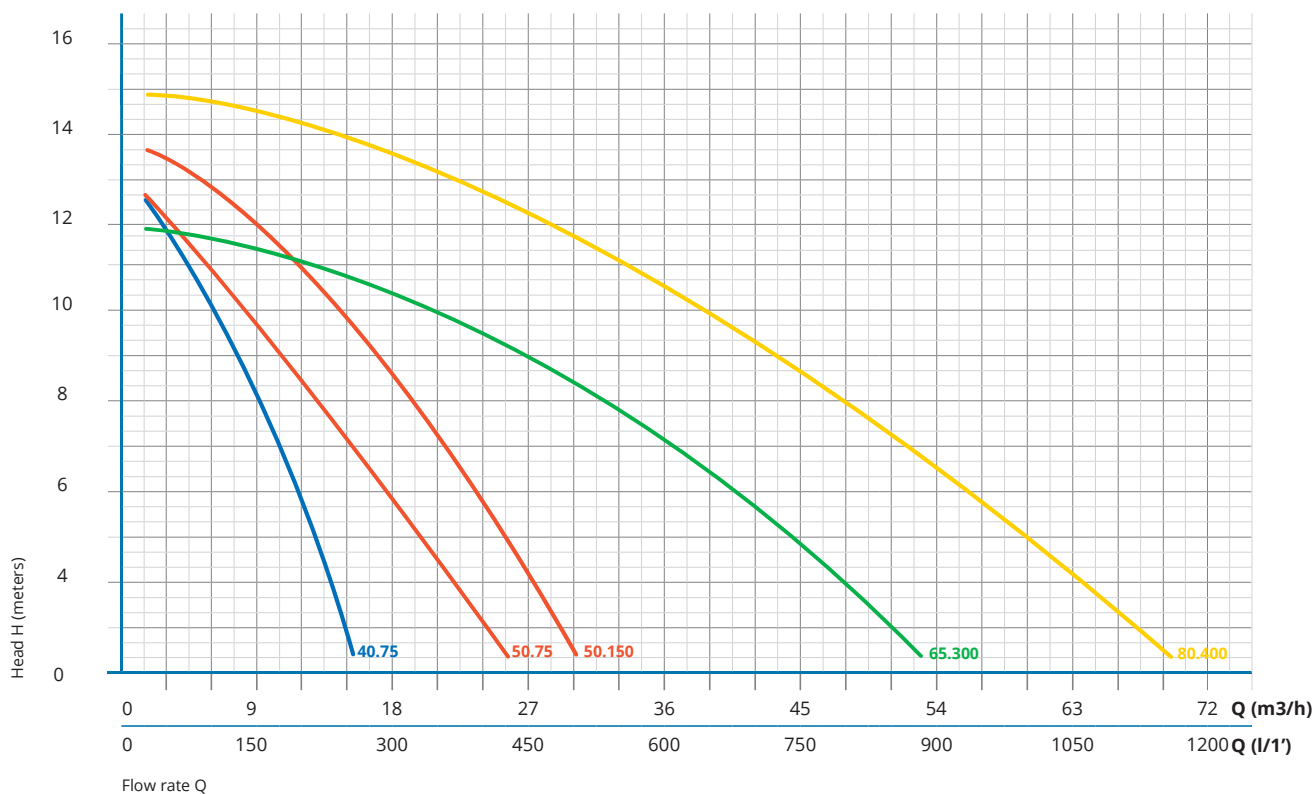
Fully submersible, pressure tight electric motor. Stainless steel motor- and pump housing. Insulation class F. Motor protection IP 68. Thermal sensors imbedded in the motor winding.

### FEATURES

Power cable: 10 m neoprene.  
Immersion depth of 10 m.  
Ideal for installation with guide rail.

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

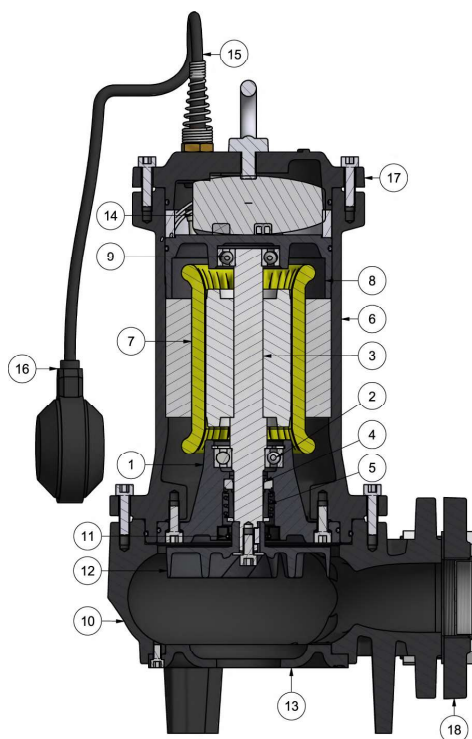
50 Hz



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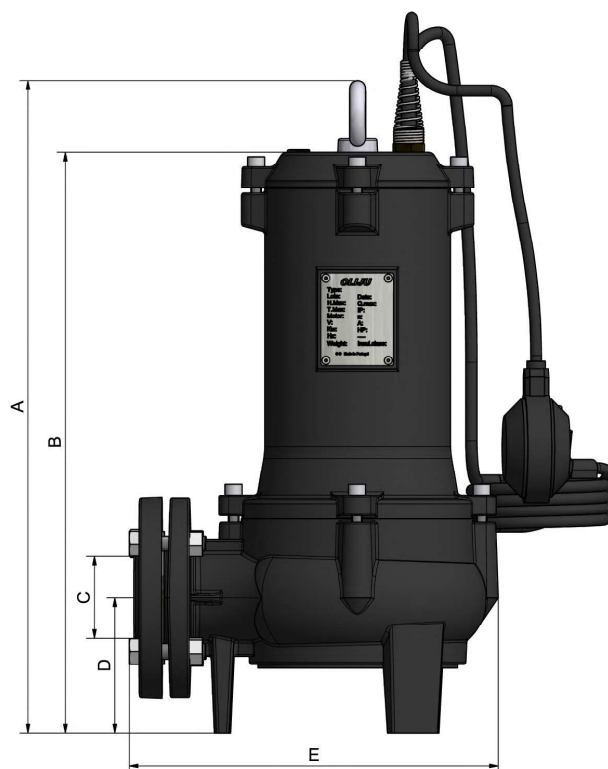
| TYPE      | POWER | MOTOR   |          |         | PORT | Q m³/h     | 0  | 6     | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 36   | 48  | 54  | 66  |
|-----------|-------|---------|----------|---------|------|------------|----|-------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
|           | kW    | 1~<br>A | 1~<br>µF | 3~<br>A |      |            | DN | l/min | 0    | 100  | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500 | 600 | 800 |
| SV 40.75  | 0,75  | 4,8     | 20       | 1,4     | 40   | H - meters | 13 | 10    | 7,8  | 5,3  | 2,4  |      |      |      |      |      |      |     |     |     |
| SV 50.75  |       | 7,2     |          | 2,8     | 50   |            | 13 | 10,9  | 9,6  | 8,2  | 6,7  | 5,1  | 3,4  | 1,5  |      |      |      |     |     |     |
| SV 50.150 | 1,5   | 8,6     | 40       | 3       |      |            | 14 | 12,9  | 12,1 | 11,1 | 9,8  | 8,4  | 6,7  | 4,8  | 2,8  | 0,5  |      |     |     |     |
| SV 65.300 | 3     | -       | -        | 4,8     | 65   |            | 12 | 11,8  | 11,6 | 11,3 | 10,9 | 10,5 | 10,1 | 9,5  | 8,9  | 8,3  | 6,7  | 2,9 | 0,6 |     |
| SV 80.400 | 4     | -       | -        | 8,8     | 80   |            | 15 | 14,7  | 14,4 | 14,2 | 13,9 | 13,5 | 13,1 | 12,7 | 12,2 | 11,7 | 10,6 | 7,9 | 6,3 | 2,6 |

## COMPONENTS AND MATERIALS



| POS | COMPONENT              | MATERIALS                             |
|-----|------------------------|---------------------------------------|
| 1   | Rotor Support          | Cast Iron                             |
| 2   | Bearing                | Steel                                 |
| 3   | Rotor / Shaft          | Steel and Aluminium / Stainless Steel |
| 4   | Mechanical Seal Fixe   | Nitrile Rubber / Ceramics             |
| 5   | Mechanical Seal Mobile | Graphite Steel                        |
| 6   | Motor Casing           | Cast Iron                             |
| 7   | Stator                 | -                                     |
| 8   | Top Engine Support     | Cast Iron                             |
| 9   | Bearing                | Steel                                 |
| 10  | Body Pump              | Cast Iron                             |
| 11  | Lip Seals              | Nitrile Rubber                        |
| 12  | Impeller               | Cast Iron                             |
| 13  | Bottom Cover           | Cast Iron                             |
| 14  | Condenser              | -                                     |
| 15  | Power Cable            | Neoprene                              |
| 16  | Float                  | Neoprene / Plastic                    |
| 17  | Top Cover              | Cast Iron                             |
| 18  | Flange                 | Cast Iron                             |

## DIMENSIONS AND WEIGHT



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| TYPE             | DIMENSIONS (mm) |       |     |       |     | WEIGHT<br>Kg |
|------------------|-----------------|-------|-----|-------|-----|--------------|
|                  | A               | B     | C   | D     | E   |              |
| <b>SV 40.75</b>  | 443             | 391   | 1"½ | 84    | 226 | 22           |
| <b>SV 50.75</b>  | 466             | 413   | 2"½ | 98    | 230 | 23           |
| <b>SV 50.150</b> | 492,5           | 438,5 |     | 102   | 278 | 34           |
| <b>SV 65.300</b> | 536             | 481   | 2"½ | 127   | 315 | 45           |
| <b>SV 80.400</b> | 598             | 548   | 3"  | 150,7 | 338 | 60           |