

|                 |              |                      |            |
|-----------------|--------------|----------------------|------------|
| <b>Code</b>     | 48SGV96D0A1U | <b>Extra UE Only</b> | No         |
| <b>Family</b>   | VX-ST        | <b>Uses</b>          | Civil      |
| <b>Group</b>    | Sewage Pumps |                      | Household  |
| <b>Typology</b> | Submersible  |                      | Industrial |

## Application limits

|                                    |              |
|------------------------------------|--------------|
| <b>Liquid Type</b>                 | Sewage Water |
| <b>Minimum liquid temperature</b>  | 0 °C         |
| <b>Maximum liquid temperature</b>  | 40 °C        |
| <b>Maximum Chlorine Content</b>    | - ppm        |
| <b>Maximum Sand Content</b>        | - ppm        |
| <b>Manometric suction lift</b>     | 0 m          |
| <b>Maximum immersion depth</b>     | 5.00 m       |
| <b>Maximum Ambient Temperature</b> | - °C         |
| <b>Minimum Ambient Temperature</b> | - °C         |
| <b>Maximum Working Pressure</b>    | - bar        |

## Duty Point

|                           |             |
|---------------------------|-------------|
| <b>Flow rate (actual)</b> | 0.000 l/min |
| <b>Head (actual)</b>      | 0.000 m     |

## Pump nameplate data

|                                 |                |
|---------------------------------|----------------|
| <b>Flow rate</b>                | 50 - 450 l/min |
| <b>Head</b>                     | 7 - 1.5 m      |
| <b>Maximum head</b>             | 7.5 m          |
| <b>Minimum head</b>             | 1.5 m          |
| <b>Minimum Efficiency Index</b> | -              |

## Motor nameplate data

|                           |           |
|---------------------------|-----------|
| <b>Voltage</b>            | 220-240 V |
| <b>Phases</b>             | 1         |
| <b>Frequency</b>          | 50 Hz     |
| <b>Rotation Speed</b>     | 2900 rpm  |
| <b>Rated output power</b> | 0.55 kW   |
| <b>Rated Current</b>      | 4.3 A     |
| <b>Input power P1</b>     | 0.95 kW   |
| <b>Efficiency grade</b>   | Undefined |
| <b>Capacitor</b>          | 20 µF     |
| <b>Capacitor Voltage</b>  | 450 V     |
| <b>Insulation Class</b>   | F         |
| <b>Enclosure class IP</b> | X8        |

## Construction and safety standards

- 10 m long power cable.
- Float switch for single-phase versions.
- EN 60335-1, IEC 60335-1
- EN 60034-1, IEC 60034-1

## Connections

|                                    |              |
|------------------------------------|--------------|
| <b>Type of connection</b>          | Gas threaded |
| <b>Size of suction connection</b>  | -            |
| <b>Size of delivery connection</b> | 2"           |

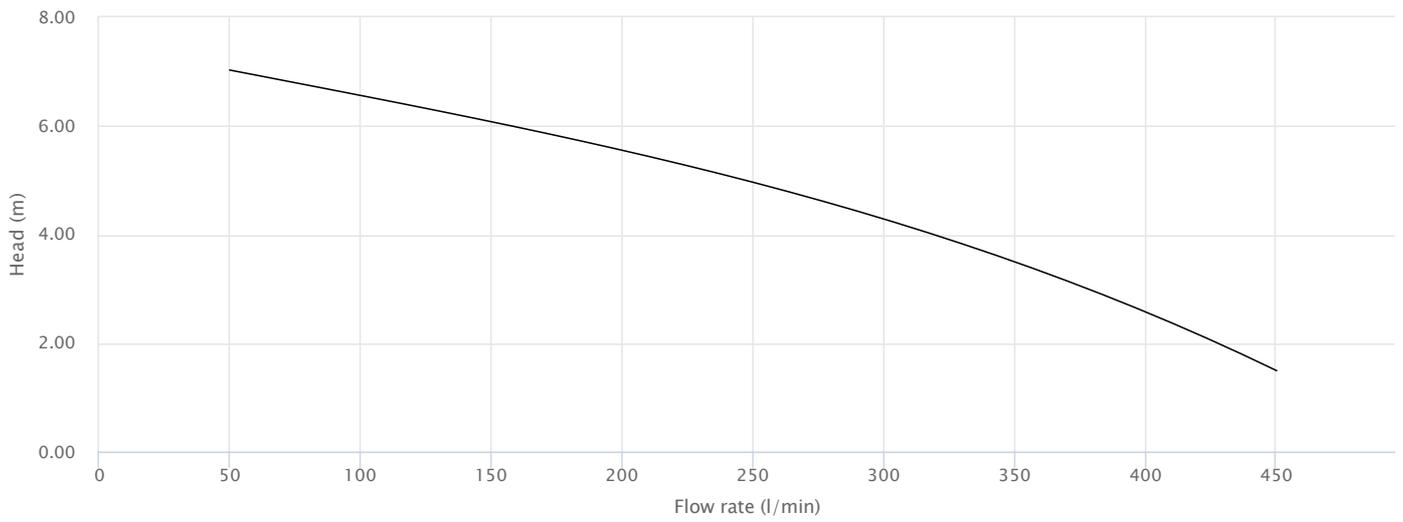
## Input Data

|                                    |                         |
|------------------------------------|-------------------------|
| <b>Rated flow rate (requested)</b> | 0.000 l/min             |
| <b>Rated head (requested)</b>      | 0.000 m                 |
| <b>System geodetic head</b>        | 0.000 m                 |
| <b>System friction losses</b>      | 0.000 m                 |
| <b>NPSH Available</b>              | 0.000 m                 |
| <b>Liquid</b>                      | Water                   |
| <b>Temperature</b>                 | 20 °C                   |
| <b>Density</b>                     | 998.1 kg/m <sup>3</sup> |
| <b>Kinematic Viscosity</b>         | 1.00 mm <sup>2</sup> /s |
| <b>Vapour Pressure</b>             | 2,318 Pa                |

## Other Pump Data

|                                       |          |
|---------------------------------------|----------|
| <b>Max Sound Pressure Level (1 m)</b> | - dBA    |
| <b>Horizontal installation</b>        | No       |
| <b>Solids free passage</b>            | 50.00 mm |

**Performance**



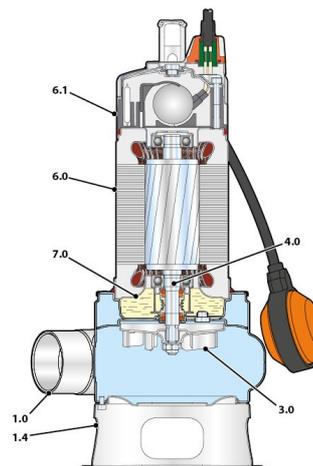
**Construction**

**Bearings**

|                               |         |
|-------------------------------|---------|
| Motor bearing - pump side     | 6203 ZZ |
| Motor bearing - opposite side | 6203 ZZ |

**Shaft Seal**

|                    |                                          |
|--------------------|------------------------------------------|
| Seal Type          | Double mechanical seal in an oil chamber |
| Diameter MS        | 14                                       |
| Stationary Ring MS | Silicon Carbide                          |
| Rotating Ring MS   | Graphite                                 |
| Elastomer MS       | NBR                                      |
| Pump Side Model    | MG1-14D SIC                              |
| Diameter PS        | 14                                       |
| Stationary Ring PS | Silicon Carbide                          |
| Rotating Ring PS   | Silicon Carbide                          |
| Elastomer PS       | NBR                                      |



**Materials**

|                    |                                      |
|--------------------|--------------------------------------|
| 1.0 - Pump casing  | Stainless steel EN 1.4301 (AISI 304) |
| 1.4 - Base         | Stainless steel EN 1.4301 (AISI 304) |
| 2.0 - Cover        | Stainless steel EN 1.4301 (AISI 304) |
| 3.0 - Impeller     | Stainless steel EN 1.4301 (AISI 304) |
| 4.0 - Pump Shaft   | Stainless steel EN 1.4057 (AISI 431) |
| 6.0 - Motor casing | Stainless steel EN 1.4301 (AISI 304) |
| 6.1 - Motor Cover  | Stainless steel EN 1.4301 (AISI 304) |
| 7.0 - Bracket      | Stainless steel EN 1.4301 (AISI 304) |

**Dimensions**

| DN2 | a    | b  | c   | d  | h   | h1  | p   | x   | Kg   |
|-----|------|----|-----|----|-----|-----|-----|-----|------|
|     | [mm] |    |     |    |     |     |     |     |      |
| 2"  | 102  | 96 | 145 | 60 | 435 | 107 | 500 | 500 | 10.5 |

