Sewage

Civil use

Industrial use

## ※ Submersible pumps 4 poles (1750 $min^{-1}$)

### PERFORMANCE RANGE

- Flow rate up to **2800 l/min** (168 $m^3$/h)
- Head up to **16.5 m**

### INSTALLATION AND USE

The **MC4** series is constructed from thick stainless steel and cast iron, offering exceptional robustness, abrasion resistance, and durability. Equipped with a **TWO-CHANNEL** impeller, the pumps are designed to **drain liquids containing suspended solids and short fibers, as well as sewage**, sludge-mixed water, groundwater, and surface water.
They are suitable for a wide range of applications, including apartment buildings, public facilities, industries, parking facilities, washing areas.

### ELECTRIC MOTOR

※ **The electric motor is safeguarded by a special three-phase thermal protector, situated within the motor, which activates in case of overheating or abnormal power consumption.**

### INCLUDES

※ Power cable length **10 m**

### APPLICATION LIMITS

- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 55 mm**
- **Minimum immersion for continuous service: 550 mm**

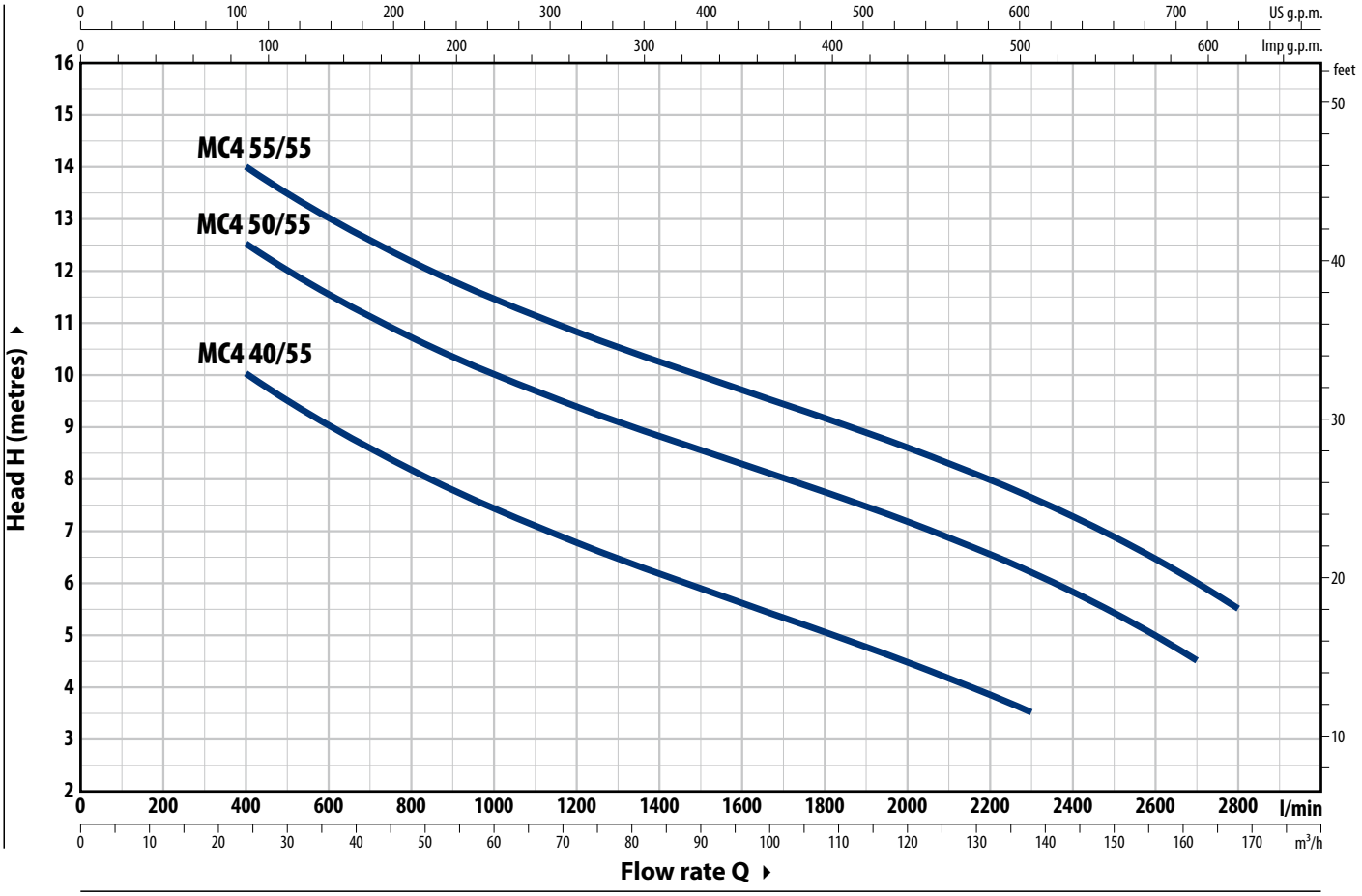
### AVAILABLE UPON REQUEST

※ Pumps equipped with internal probes that detect the presence of water in the oil chamber

### PATENTS - TRADE MARKS - MODELS

- Registered Community Model No. 003863158-0004

## CURVES AND PERFORMANCE DATA – n= 1750 min$^{-1}$ 60 Hz




| TYPE | POWER (P2) | | Q | m³/h | 0 | 24 | 48 | 72 | 96 | 108 | 120 | 138 | 150 | 162 | 168 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Three-phase | kW | HP | | l/min | **0** | **400** | **800** | **1200** | **1600** | **1800** | **2000** | **2300** | **2500** | **2700** | **2800** |
| **MC4 40/55** | 3 | 4 | | | 12.5 | 10 | 8.2 | 6.8 | 5.6 | 5 | 4.5 | 3.5 | | | |
| **MC4 50/55** | 3.7 | 5 | **H** | m | 15 | 12.5 | 10.7 | 9.4 | 8.3 | 7.7 | 7.2 | 6.2 | 5.4 | 4.5 | |
| **MC4 55/55** | 4 | 5.5 | | | 16.5 | 14 | 12.2 | 10.8 | 9.7 | 9.2 | 8.6 | 7.6 | 6.9 | 6 | 5.5 |

**Q** = Flow rate **H** = Total manometric head

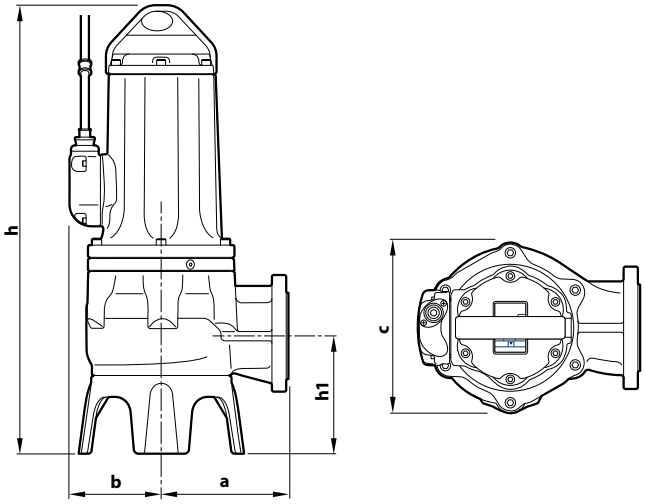
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

## ABSORPTION

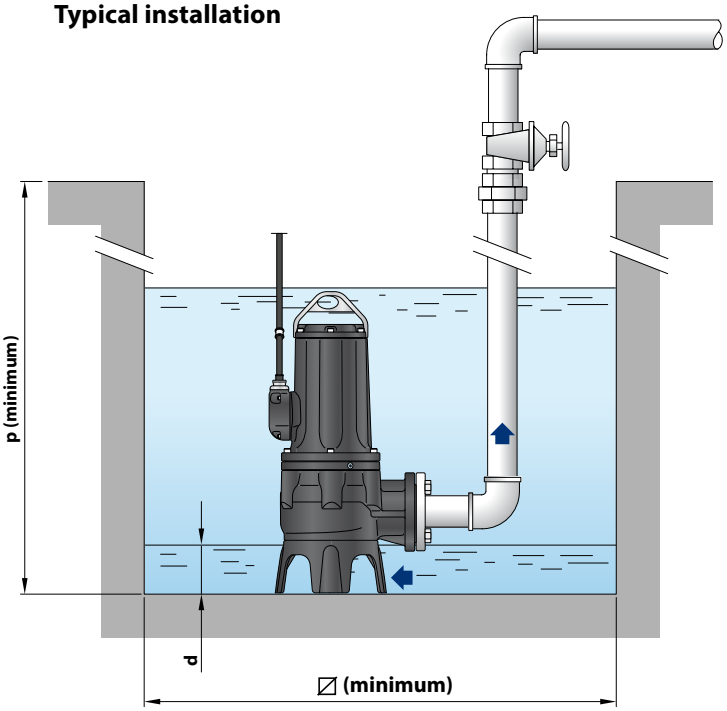
| TYPE Three-phase | VOLTAGE 380 V |
|---|---|
| **MC4-40/55** | 6.0 A |
| **MC4-50/55** | 7.9 A |
| **MC4-55/55** | 8.8 A |

| TYPE Three-phase | VOLTAGE 440 V |
|---|---|
| **MC4-40/55** | 5.2 A |
| **MC4-50/55** | 6.8 A |
| **MC4-55/55** | 7.7 A |

## DIMENSIONS AND WEIGHT

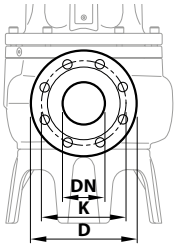



**Typical installation**




| TYPE Three-phase | Passage of solid bodies | DIMENSIONS mm a | b | c | h | h1 | d | p | ⍁ | kg 3~ |
|---|---|---|---|---|---|---|---|---|---|---|
| MC4-40/55 | Ø 55 mm | 248 | 165 | 320 | 792 | 228 | 140 | 1000 | 1000 | 125.2 |
| MC4-50/55 | | | | | | | | | | 133.0 |
| MC4-55/55 | | | | | | | | | | 136.0 |

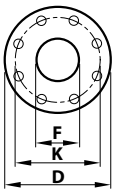
## PORT FLANGE




| TYPE Three-phase | FLANGE DN | K mm | D mm | HOLES N° | HOLES Ø (mm) |
|---|---|---|---|---|---|
| MC4-40/55 | 80 (PN10) | 160 | 200 | 8 | 18 |
| MC4-50/55 | | | | | |
| MC4-55/55 | | | | | |

## COUNTERFLANGE

(CAN BE ORDERED SEPARATELY)




| TYPE Three-phase | FLANGE DN | F | K mm | D mm | HOLES N° | HOLES Ø (mm) |
|---|---|---|---|---|---|---|
| MC4-40/55 | 80 | 3" | 160 | 200 | 8 | 18 |
| MC4-50/55 | | | | | | |
| MC4-55/55 | | | | | | |

## PALLET CAPACITY

| TYPE Three-phase | GROUPAGE n. pumps |
|---|---|
| MC4-40/55 | 4 |
| MC4-50/55 | 4 |
| MC4-55/55 | 4 |

## MATERIALS AND COMPONENTS

| | | |
|---|---|---|
| 1 | **Pump body** | Cast iron with cataphoresis treatment |
| 2 | **Base** | Cast iron with cataphoresis treatment |
| 3 | **Impeller** | TWO-CHANNEL cast iron type with cataphoresis treatment |
| 4 | **Motor holder** | Cast iron with cataphoresis treatment |
| 5 | **Motor cover** | Cast iron with cataphoresis treatment |
| 6 | **Motor shaft** | Stainless steel **AISI 431** |

**7 Double mechanical seal with interposed oil chamber**

| Seal | Shaft | Location | Materials |
|---|---|---|---|
| **MG91-40D** | Ø 40 mm | Motor side | Silicon carbide / Graphite / NBR |
| | | Pump side | Silicon carbide/Silicon carbide/NBR |

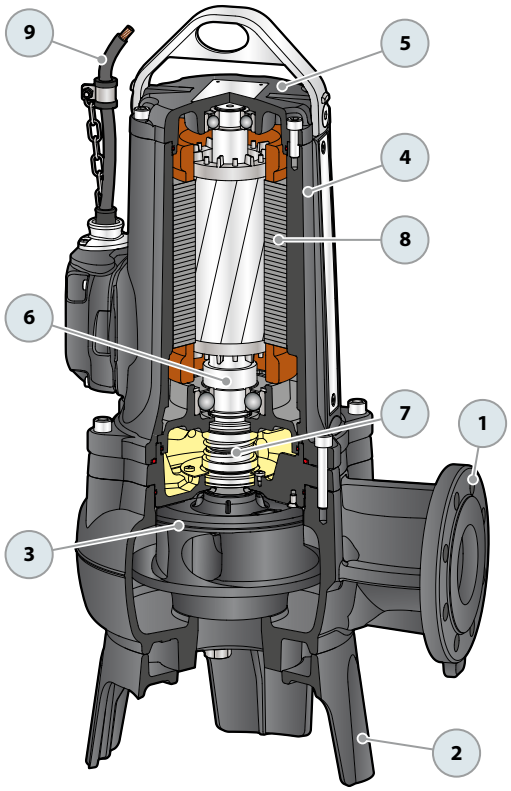
**8 Electric motor**

Three-phase 380 V - 60 Hz or 440 V - 60 Hz
with winding integrated thermal motor protection

– Insulation: class F
– Protection rating: IP X8

**9 Power cord**

※ 10 metres 'H07 RN-F' type



# SEWAGE LIFTING SYSTEM VXC4 - MC4

## VERSION WITH VERTICAL DELIVERY AND 2" GUIDE TUBES

| | | |
|---|---|---|
| For **VXC4** | Code ASSPVXC4V | DN **4"** |
| For **MC4** | Code ASSPMC4V | DN **3"** |

**※ Kit consisting of:**

Coupling foot complete with counterflange

Slide rail with screws and gasket

Support for guide tubes

## ACCESSORIES AVAILABLE FOR ORDER

### RUNNING GUIDE

| | |
|---|---|
| ※ For VXC4 | Code ASSFL100 |
| ※ For MC4 | Code ASSFL080 |

Complete with screws and seals

### INTERMEDIATE GUIDE TUBE SUPPORT

| | |
|---|---|
| ※ For guide tubes Ø 2" | Code 859SV349INTFA |

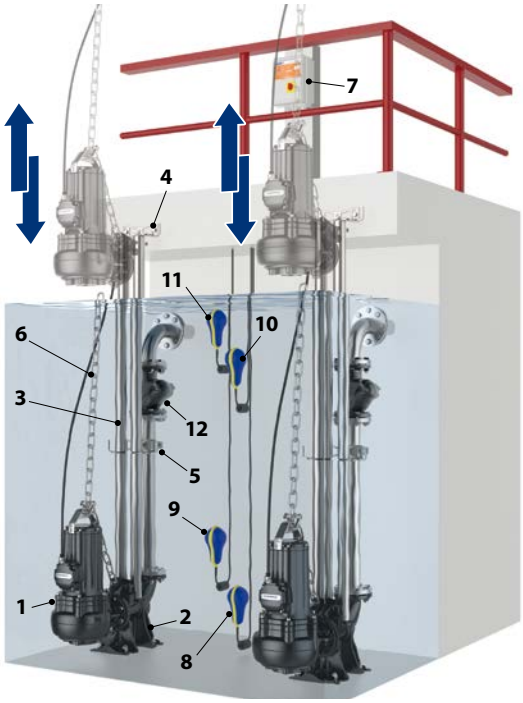
**For reasons of stability, interpose a support every 3 metres (recommended)**

### GUIDE TUBE ( AISI 304 stainless steel)

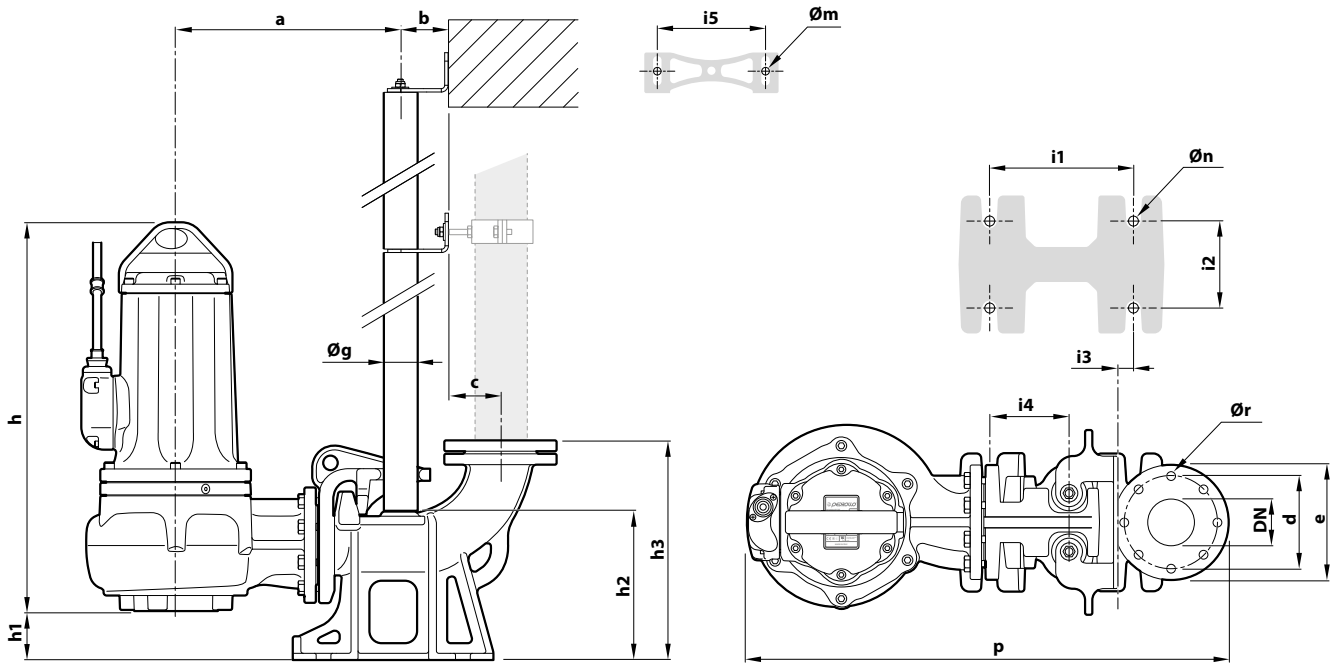
| | |
|---|---|
| ※ 3 metres Ø 2" guide tube | Code 54SARTG0063F |
| ※ 6 metres guide tube Ø 2" | Code 54SARTG0066F |

## Typical installation

1. Water pump
2. Pump Base
3. Guide Rails
4. Upper Guide Rail Support
5. Intermediate Guide Rail Support
6. Lifting chain
7. Control Panel
8. Stop Float Switch
9. Start Float Switch
10. Supplementary pump start float switch
11. Alarm float
12. Check val



## DIMENSIONS




| TYPE | Passage of solid bodies | PORT | DIMENSIONS mm | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Three-phase** | mm | **DN** | a | b | c | d | e | p | h | h1 | h2 | h3 | i1 | i2 | i3 | i4 | i5 | Øg | Øm | Øn | Ør |
| **VXC4-40/100** | | | | | | | | | | | | | | | | | | | | | |
| **VXC4-50/100** | **Ø 100 mm** | **4"** | 376 | 85 | 105 | 180 | 220 | 841 | 695 | 107 | 266 | 426 | 250 | 150 | 34 | 130 | 186 | 2" | 13 | 16 | 18 |
| **VXC4-55/100** | | | | | | | | | | | | | | | | | | | | | |

| TYPE | Passage of solid bodies | PORT | DIMENSIONS mm | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Three-phase** | mm | **DN** | a | b | c | d | e | p | h | h1 | h2 | h3 | i1 | i2 | i3 | i4 | i5 | Øg | Øm | Øn | Ør |
| **MC4-40/55** | | | | | | | | | | | | | | | | | | | | | |
| **MC4-50/55** | **Ø 55 mm** | **3"** | 396 | 85 | 95 | 160 | 200 | 841 | 680 | 92 | 256 | 592 | 250 | 150 | 34 | 130 | 186 | 2" | 13 | 16 | 18 |
| **MC4-55/55** | | | | | | | | | | | | | | | | | | | | | |