

-  Sewage
-  Domestic use
-  Civil use
-  Industrial use

※ **Powerful and robust high-efficiency pumps made entirely of stainless steel**



※ **VX-ST constructed entirely from stainless steel, VX-ST submersible pumps offer superior corrosion and abrasion.**

PERFORMANCE RANGE

- Flow rate up to **700 l/min** (42 m³/h)
- Head up to **17 m**

INSTALLATION AND USE

VX-ST stainless steel submersible pumps are designed for sewage drainage in **domestic, civil, and industrial** settings where suspended solids are present in the water, such as sludge-mixed water, groundwater, or surface water.

They are also perfect for pumping out flooded areas like basements, underground parking garages, car wash stations, and emptying septic tanks and sewage systems.

- ※ The hydraulic configuration of the **VORTEX** volute and impeller results from advanced fluid dynamics calculations, delivering superior performance and efficiency for notable energy savings.
- ※ The **VORTEX** impeller can handle solids up to **50 mm** in diameter. Its unique design ensures safe operation against clogging.

INCLUDES

- ※ Power cable length **10 m**
- ※ Float switch (exclusive to single-phase models)

APPLICATION LIMITS

- Depth below water level up to **5 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Suspended solids transfer:
 - up to **Ø 40 mm** for VX /35-ST
 - up to **Ø 50 mm** for VX /50-ST
- **Minimum immersion for continuous service:**
 - **290 mm** for VX 8-ST and VX 10-ST
 - **330 mm** for VX 15-ST
 - **360 mm** for VX 20-ST

AVAILABLE UPON REQUEST

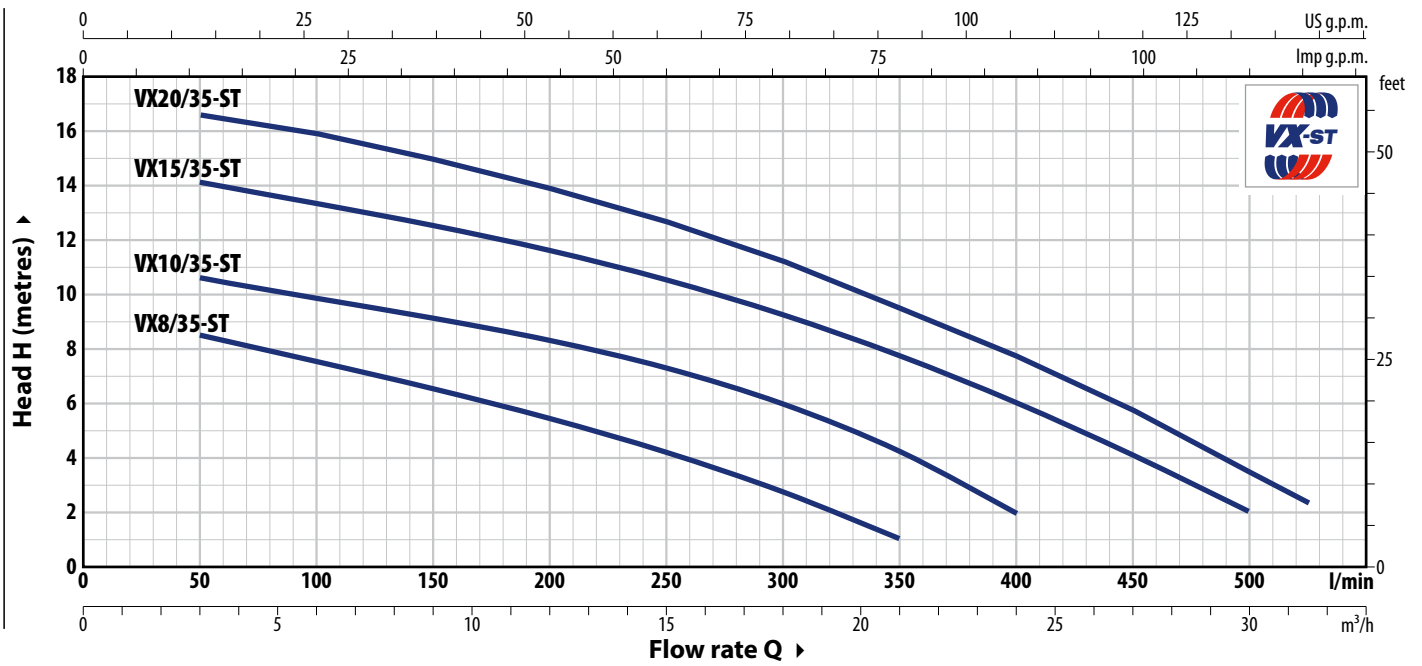
- ※ AISI 316L stainless steel pump shaft
- ※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

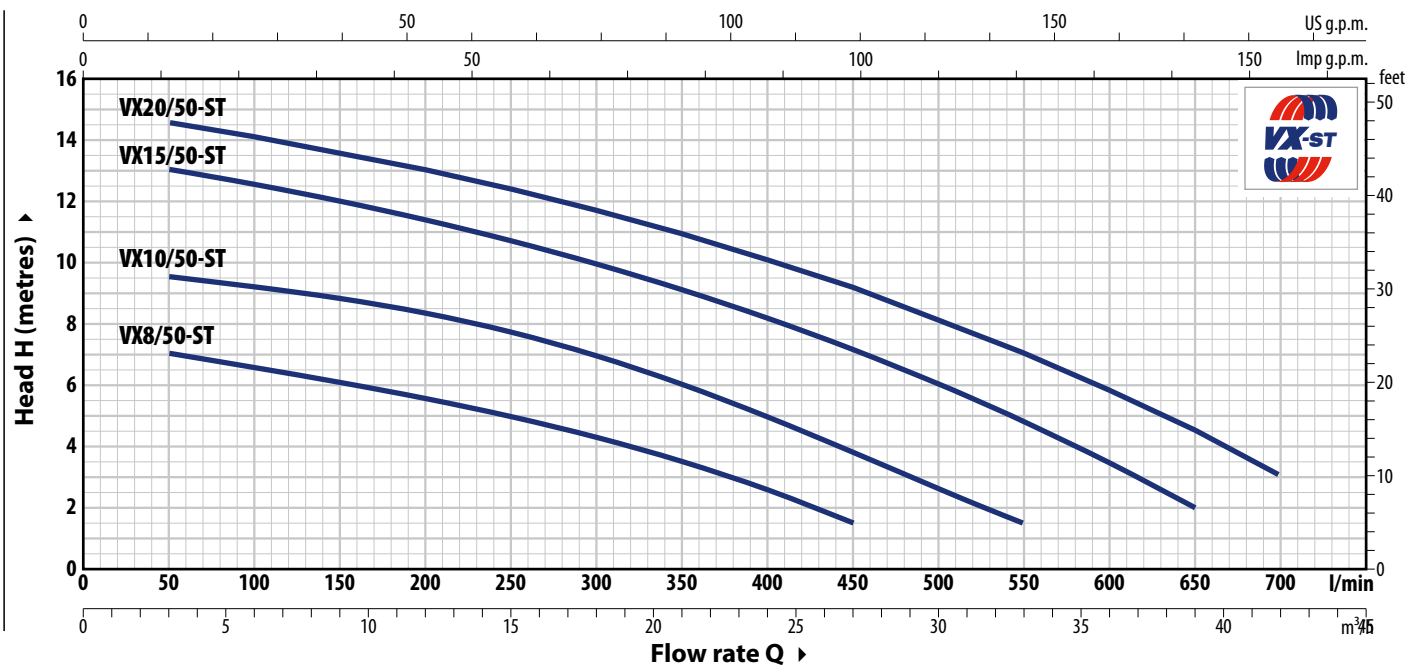
- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



| TYPE | | POWER (P ₂) | | Q | H metres | | | | | | | | | | | | | |
|--------------|-------------|-------------------------|------|-------|-------------------|------|------|------|-----|-----|-----|-----|-----|-----|------|--|--|--|
| Single-phase | Three-phase | kW | HP | | m ³ /h | 0 | 3 | 6 | 12 | 18 | 21 | 24 | 27 | 30 | 31.5 | | | |
| | | | | l/min | 0 | 50 | 100 | 200 | 300 | 350 | 400 | 450 | 500 | 525 | | | | |
| VXm 8/35 -ST | VX 8/35 -ST | 0.55 | 0.75 | | 9.5 | 8.5 | 7.5 | 5.4 | 2.7 | 1 | | | | | | | | |
| VXm 10/35-ST | VX 10/35-ST | 0.75 | 1 | | 11.5 | 10.5 | 10 | 8.3 | 6 | 4 | 2 | | | | | | | |
| VXm 15/35-ST | VX 15/35-ST | 1.1 | 1.5 | | 15 | 14 | 13.5 | 11.7 | 9.2 | 7.7 | 6 | 4 | 2 | | | | | |
| VXm 20/35-ST | VX 20/35-ST | 1.5 | 2 | | 17 | 16.5 | 16 | 14 | 11 | 9.5 | 7.7 | 5.7 | 3.5 | 2.5 | | | | |



| TYPE | | POWER (P ₂) | | Q | H metres | | | | | | | | | | | | | |
|--------------|-------------|-------------------------|------|-------|-------------------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|----|--|
| Single-phase | Three-phase | kW | HP | | m ³ /h | 0 | 3 | 6 | 12 | 18 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | |
| | | | | l/min | 0 | 50 | 100 | 200 | 300 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | | |
| VXm 8/50 -ST | VX 8/50 -ST | 0.55 | 0.75 | | 7.5 | 7 | 6.6 | 5.7 | 4.2 | 2.5 | 1.5 | | | | | | | |
| VXm 10/50-ST | VX 10/50-ST | 0.75 | 1 | | 10 | 9.5 | 9.2 | 8.5 | 7 | 5 | 3.8 | 2.7 | 1.5 | | | | | |
| VXm 15/50-ST | VX 15/50-ST | 1.1 | 1.5 | | 13.5 | 13 | 12.5 | 11.5 | 10 | 8 | 7 | 6 | 4.7 | 3.3 | 2 | | | |
| VXm 20/50-ST | VX 20/50-ST | 1.5 | 2 | | 15 | 14.5 | 14 | 13 | 11.7 | 10 | 9 | 8.2 | 7 | 5.8 | 4.5 | 3 | | |

Q = Flow rate H = Total manometric head

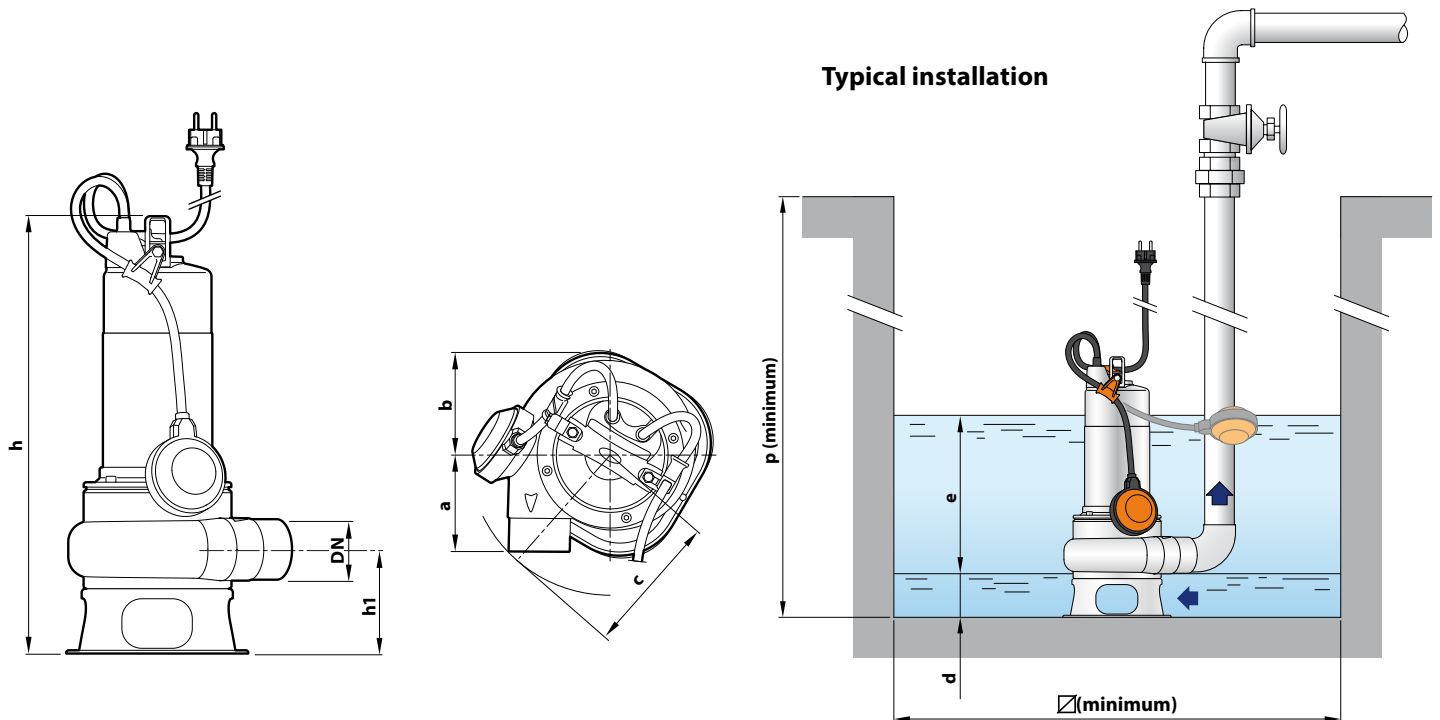
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

| TYPE | VOLTAGE |
|---------------------|--------------|
| Single-phase | 230 V |
| VXm 8/35 -ST | 4.3 A |
| VXm 10/35 -ST | 5.5 A |
| VXm 15/35 -ST | 7.0 A |
| VXm 20/35 -ST | 9.6 A |
| VXm 8/50 -ST | 4.3 A |
| VXm 10/50 -ST | 5.5 A |
| VXm 15/50 -ST | 7.0 A |
| VXm 20/50 -ST | 9.6 A |

| TYPE | VOLTAGE |
|--------------------|--------------|
| Three-phase | 400 V |
| VX 8/35 -ST | 1.6 A |
| VX 10/35 -ST | 2.2 A |
| VX 15/35 -ST | 2.7 A |
| VX 20/35 -ST | 3.7 A |
| VX 8/50 -ST | 1.6 A |
| VX 10/50 -ST | 2.2 A |
| VX 15/50 -ST | 2.7 A |
| VX 20/50 -ST | 3.7 A |

DIMENSIONS AND WEIGHT



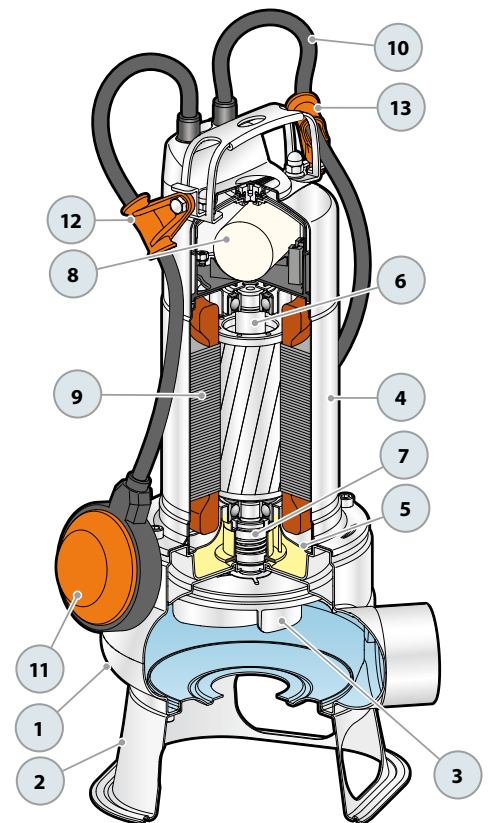
| TYPE | | PORT DN | Passage of solid bodies | DIMENSIONS mm | | | | | | | | | | kg | |
|---------------|--------------|------------|----------------------------|---------------|----|-----|-----|-----|----|------------|-----|-----|------|------|--|
| Single-phase | Three-phase | | | a | b | c | h | h1 | d | e | p | ∅ | 1~ | 3~ | |
| VXm 8/35 -ST | VX 8/35 -ST | 1½" | ∅ 40 mm | 95 | 96 | 140 | 424 | 106 | 55 | adjustable | 500 | 500 | 11.2 | 10.1 | |
| VXm 10/35 -ST | VX 10/35 -ST | | | | | | 439 | | | | | | 12.7 | 11.5 | |
| VXm 15/35 -ST | VX 15/35 -ST | | | | | | 472 | | | | | | 15.5 | 13.9 | |
| VXm 20/35 -ST | VX 20/35 -ST | | | | | | 502 | | | | | | 17.7 | 15.5 | |
| VXm 8/50 -ST | VX 8/50 -ST | 2" | ∅ 50 mm | 102 | 96 | 145 | 435 | 107 | 60 | adjustable | 500 | 500 | 11.4 | 10.3 | |
| VXm 10/50 -ST | VX 10/50 -ST | | | | | | 450 | | | | | | 12.9 | 11.7 | |
| VXm 15/50 -ST | VX 15/50 -ST | | | | | | 483 | | | | | | 15.7 | 14.1 | |
| VXm 20/50 -ST | VX 20/50 -ST | | | | | | 513 | | | | | | 17.9 | 15.7 | |

PALLET CAPACITY

| TYPE | | NO. OF PUMPS |
|---------------|--------------|--------------|
| Single-phase | Three-phase | |
| VXm 8/35 -ST | VX 8/35 -ST | 45 |
| VXm 10/35 -ST | VX 10/35 -ST | 45 |
| VXm 15/35 -ST | VX 15/35 -ST | 30 |
| VXm 20/35 -ST | VX 20/35 -ST | 30 |
| VXm 8/50 -ST | VX 8/50 -ST | 45 |
| VXm 10/50 -ST | VX 10/50 -ST | 45 |
| VXm 15/50 -ST | VX 15/50 -ST | 30 |
| VXm 20/50 -ST | VX 20/50 -ST | 30 |

MATERIALS AND COMPONENTS

| | | | |
|--|--|-------------------------|---|
| 1 Pump body | AISI 304 stainless steel with ISO 228/1 threaded port | | |
| 2 Base | Stainless steel AISI 304 | | |
| 3 Impeller | VORTEX type in AISI 304 stainless steel | | |
| 4 Motor sleeve | Stainless steel AISI 304 | | |
| 5 Motor cover | Stainless steel AISI 304 Cast iron with cataphoresis treatment for VX 15-20 ST | | |
| 6 Motor shaft | Stainless steel AISI 431 | | |
| 7 Double mechanical seal in oil chamber | | | |
| Seal | Shaft | Location | Materials |
| MG1-14D SIC | Ø 14 mm | Motor side Pump side | Silicon carbide / Graphite / NBR Silicon carbide/Silicon carbide/NBR |
| 8 Capacitor (exclusive to single-phase models) | | | |
| 9 Electric motor | | | |
| VXm-ST: single-phase 230 V - 50 Hz with winding integrated thermal motor protection | | | |
| VX-ST: three-phase 400 V - 50 Hz | | | |
| - Insulation: class F | | | |
| - Protection rating: IP X8 | | | |
| 10 Power cord | | | |
| Power cable encapsulated with epoxy resin both in the grommet area and where the conductors exit the sheath, for absolute insulation against moisture and water. | | | |
| Type 'H07 RN-F' (Schuko plug exclusive to single-phase models) | | | |
| ※ Standard length 10 metres | | | |
| 11 Float switch (exclusive to single-phase models) | | | |
| 12 Tilting device for the float cable (exclusive to single-phase models) Patent No. IT0001428923 | | | |
| 13 Power cable strain relief Patent No. EP2313658 | | | |



SEWAGE LIFTING SYSTEM KIT VX-ST - BC-ST

VERSION WITH HORIZONTAL DELIVERY AND 3/4" GUIDE PIPES

| | | |
|----------------------------------|-----------------|--------------|
| For VX /35-ST | CODE ASSPVX35ST | DN 2" |
| For VX /50-ST , BC /50-ST | CODE ASSPVX50ST | DN 2" |

※ Kit consisting of:



Coupling foot



Solids rail with ring nut and seal



Support for guide tubes



VERSION WITH VERTICAL DELIVERY AND 3/4" GUIDE PIPES

| | | |
|---------------------------------|------------------|---------------|
| For VX /35-ST | CODE ASSPVX35STV | DN 2½" |
| For VX /50-ST, BC /50-ST | CODE ASSPVX50STV | DN 2½" |

※ Kit consisting of:



Coupling foot complete with counterflange



Solids rail with ring nut and seal



Support for guide tubes



● ACCESSORIES AVAILABLE FOR ORDER

RUNNING GUIDE

| | |
|------------------------------------|---------------|
| ※ For VX /35-ST | CODE ASSFL005 |
| ※ For VX /50-ST , BC /50-ST | CODE ASSFL006 |

Complete with ring nut and gasket

GUIDE TUBE SUPPORT

| | |
|---------------------------|--------------------|
| ※ For Ø 3/4 " guide tubes | CODE 859SV340INTFA |
|---------------------------|--------------------|

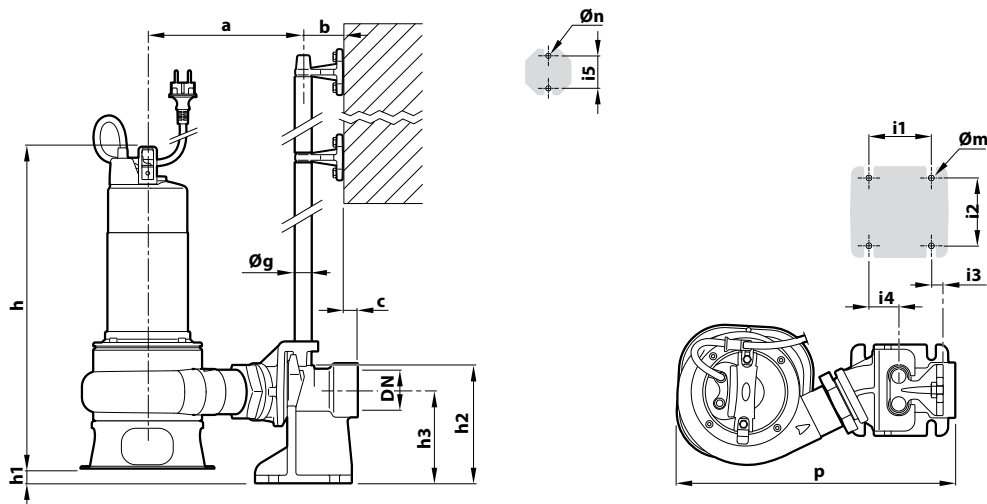
To ensure stability, insert a support every 2 metres along the guide tube

GUIDE TUBE (AISI 304 stainless steel)

| | |
|------------------------------|-------------------|
| ※ 2 metres Ø 3/4" guide tube | CODE 54SARTG0052F |
| ※ 3 metres Ø 3/4" guide tube | CODE 54SARTG0053F |
| ※ 6 metres Ø 3/4" guide tube | CODE 54SARTG0056F |

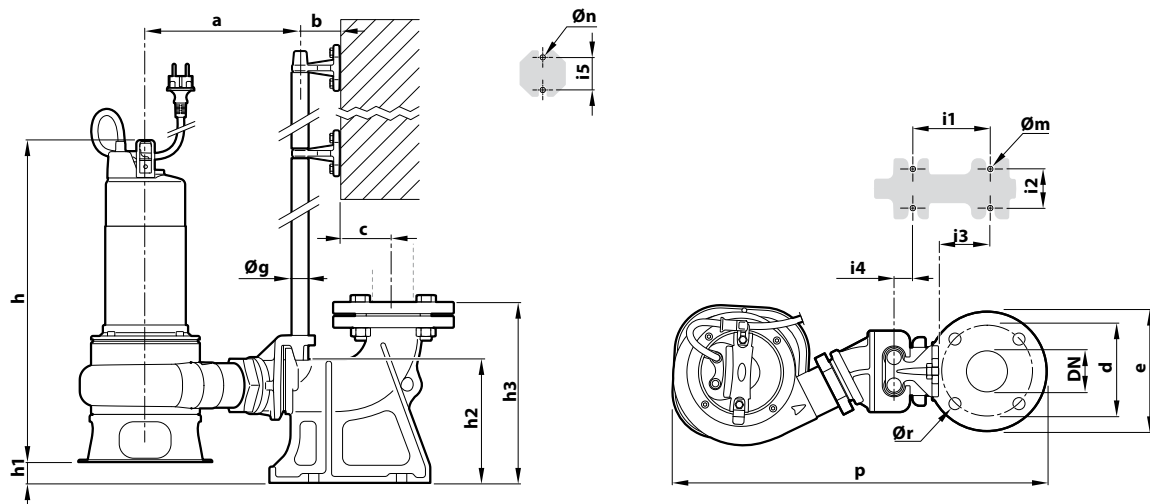


DIMENSIONS (Version with horizontal outlet)



| TYPE | | Passage of solid bodies mm | PORT DN | DIMENSIONS mm | | | | | | | | | | | | | | | |
|---------------|--------------|-------------------------------|------------|---------------|----|----|-----|-----|----|-----|-----|----|----|----|----|----|----|----|----|
| Single-ph. | Three-ph. | | | a | b | c | p | h | h1 | h2 | h3 | i1 | i2 | i3 | i4 | i5 | Øg | Øm | Øn |
| VXm 8/35 -ST | VX 8/35 -ST | 40 | 2" | 214 | | | 386 | 424 | 24 | | | | | | | | | | |
| VXm 10/35 -ST | VX 10/35 -ST | | | | | | | 439 | | | | | | | | | | | |
| VXm 15/35 -ST | VX 15/35 -ST | | | | | | | 472 | | | | | | | | | | | |
| VXm 20/35 -ST | VX 20/35 -ST | | | | | | | 502 | | | | | | | | | | | |
| VXm 8/50 -ST | VX 8/50 -ST | 50 | 2" | 221 | 61 | 17 | 372 | 435 | 23 | 165 | 130 | 85 | 94 | 16 | 40 | 50 | ¾" | 12 | 11 |
| VXm 10/50 -ST | VX 10/50 -ST | | | | | | | 450 | | | | | | | | | | | |
| VXm 15/50 -ST | VX 15/50 -ST | | | | | | | 483 | | | | | | | | | | | |
| VXm 20/50 -ST | VX 20/50 -ST | | | | | | | 513 | | | | | | | | | | | |
| BCm 10/50 -ST | BC 10/50 -ST | 50 | 2" | | | | | 450 | | | | | | | | | | | |
| BCm 15/50 -ST | BC 15/50 -ST | | | | | | | 483 | | | | | | | | | | | |
| BCm 20/50 -ST | BC 20/50 -ST | | | | | | | 513 | | | | | | | | | | | |

DIMENSIONS (Version with vertical delivery)



| TYPE | | Passage of solid bodies mm | PORT DN | DIMENSIONS mm | | | | | | | | | | | | | | | | | |
|---------------|--------------|-------------------------------|------------|---------------|----|----|-----|-----|-----|----|-----|-----|-----|----|----|----|----|----|----|----|----|
| Single-ph. | Three-ph. | | | a | b | c | d | e | p | h | h1 | h2 | h3 | i1 | i2 | i3 | i4 | i5 | Øg | Øm | Øn |
| VXm 8/35 -ST | VX 8/35 -ST | 40 | 2½" | 207 | | | | 495 | 424 | 22 | | | | | | | | | | | |
| VXm 10/35 -ST | VX 10/35 -ST | | | | | | | | 439 | | | | | | | | | | | | |
| VXm 15/35 -ST | VX 15/35 -ST | | | | | | | | 472 | | | | | | | | | | | | |
| VXm 20/35 -ST | VX 20/35 -ST | | | | | | | | 502 | | | | | | | | | | | | |
| VXm 8/50 -ST | VX 8/50 -ST | 50 | 2½" | 212 | 61 | 52 | 125 | 165 | 435 | 26 | 164 | 215 | 120 | 72 | 62 | 3 | 50 | ¾" | 14 | 11 | 18 |
| VXm 10/50 -ST | VX 10/50 -ST | | | | | | | | 450 | | | | | | | | | | | | |
| VXm 15/50 -ST | VX 15/50 -ST | | | | | | | | 483 | | | | | | | | | | | | |
| VXm 20/50 -ST | VX 20/50 -ST | | | | | | | | 513 | | | | | | | | | | | | |
| BCm 10/50 -ST | BC 10/50 -ST | 50 | 2½" | | | | | | 450 | | | | | | | | | | | | |
| BCm 15/50 -ST | BC 15/50 -ST | | | | | | | | 483 | | | | | | | | | | | | |
| BCm 20/50 -ST | BC 20/50 -ST | | | | | | | | 513 | | | | | | | | | | | | |