

GXR, GXV

Submersible Pumps
in stainless steel



Construction

Single-impeller submersible pumps in chrome-nickel stainless steel, with vertical delivery port.

GXR: with open impeller.

GXV: with free-flow (vortex) impeller.

Motor cooled by the pumped water passing between the motor jacket and the external jacket.

Double shaft seal with oil chamber.

Applications

GXR: - For clean water containing solids up to 10 mm grain size.
- For draining rooms or emptying tanks.
- Extraction of water from ponds, streams or pits and for rainwater collection.
- For irrigation purposes.

GXV: - For clean or slightly dirty water, containing solids up to 25 mm grain size.

- Particularly suitable for liquids with a high solid content.

For outdoor use a power supply cable of not less than 10 m should be used in accordance with: EN 60 335-2-41.

Operating conditions

Liquid temperature up to 50° C.

Maximum immersion depth: 5 m.

Minimum water level with float: GXR = 70 mm, GXV = 130 mm.

Minimum water level manual operation: GXR = 15 mm, GXV = 30 mm.

Continuous duty.

Materials

| Component | Material |
|--------------------------------------------------------------------|------------------------------------------------|
| Pump casing Strainer Impeller Motor jacket Pump jacket | Chrome-nickel steel 1.4301 EN 10088 (AISI 304) |
| Handle | Polypropylene |
| Shaft | Chrome-nickel steel 1.4305 EN 10088 (AISI 303) |
| Mechanical seal | Ceramic alumina/Carbon/NBR |
| Seal lubrication oil | Oil for food/pharmaceutical machinery |

Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).

GXR, GXV: three-phase 230 V $\pm 10\%$;
three-phase 400 V $\pm 10\%$;

GXRM, GXVM: single-phase 230 V,
with float switch and thermal protector.
Incorporated capacitor.

Insulation class F.

Protection IP X8 (for continuous immersion)

Double impregnation humidity-proof dry winding.

Constructed in accordance with: EN 60034-1;

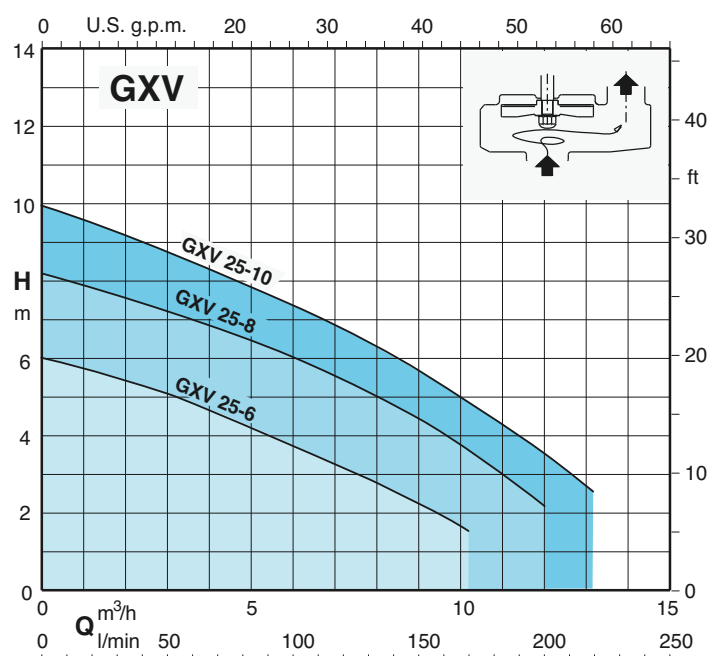
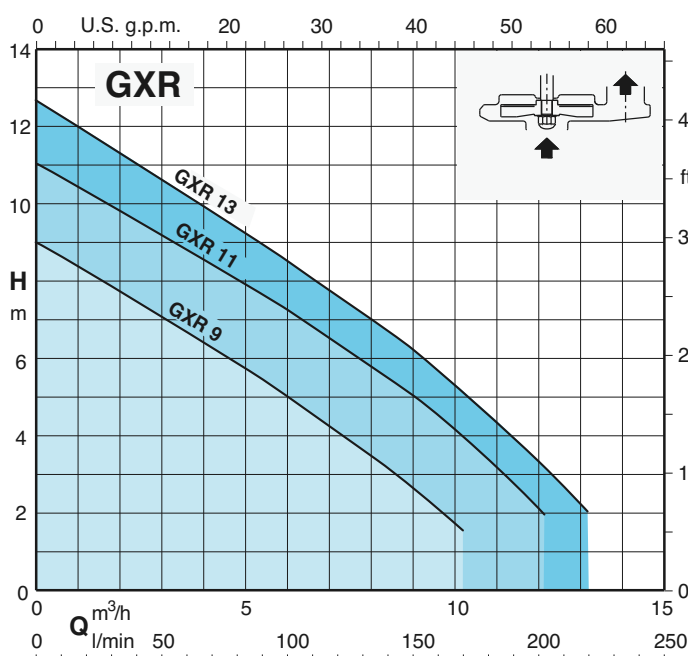
EN 60335-1, EN 60335-2-41.

Other features on request

- Other voltages. - Frequency 60 Hz. - Other mechanical seal. - Cable length 10 m.

- Vertical magnetic float switch. - Motor suitable for operation with frequency converter.

Characteristic curves $n \approx 2900$ rpm



Performance $n \approx 2900$ rpm

| 3~ | 230V 400V | | 1~ | 230V | Capacitor | | P ₁ | P ₂ | | Q | | | | | | | | | | | |
|---------------|-----------|-----|----------------|------|-----------|-----|----------------|----------------|------|------------|------|------|-------------------|-------|-----|-----|-----|-----|-----|-----|---|
| | A | A | | | A | μf | | Vc | kW | | kW | HP | m ³ /h | l/min | 0 | 1,2 | 3 | 4,5 | 6 | 7,5 | 9 |
| GXR 9 | 1,6 | 0,9 | GXRM 9 | 2,5 | 8 | 450 | 0,5 | 0,25 | 0,33 | H m | 9 | 8,3 | 7 | 6 | 4,8 | 3,6 | 2,5 | 1,7 | | | |
| GXR 11 | 2,3 | 1,3 | GXRM 11 | 3,5 | 12,5 | 450 | 0,7 | 0,37 | 0,5 | | 11 | 10,4 | 9,5 | 8,5 | 7,5 | 6,5 | 5,3 | 4,2 | 2,2 | | |
| GXR 13 | 2,8 | 1,6 | GXRM 13 | 4,5 | 16 | 450 | 0,95 | 0,45 | 0,6 | | 12,7 | 11,7 | 10,7 | 9,7 | 8,5 | 7,3 | 6,3 | 5,2 | 3,2 | 2 | |

| 3~ | 230V 400V | | 1~ | 230V | Capacitor | | P ₁ | P ₂ | | Q | | | | | | | | | | | |
|------------------|-----------|-----|-------------------|------|-----------|-----|----------------|----------------|------|------------|-----|-----|-------------------|-------|-----|-----|-----|-----|-----|-----|---|
| | A | A | | | A | μf | | Vc | kW | | kW | HP | m ³ /h | l/min | 0 | 1,2 | 3 | 4,5 | 6 | 7,5 | 9 |
| GXV 25-6 | 1,6 | 0,9 | GXVM 25-6 | 2,5 | 8 | 450 | 0,5 | 0,25 | 0,33 | H m | 6 | 5,7 | 5,2 | 4,5 | 3,8 | 3 | 2,2 | 1,5 | | | |
| GXV 25-8 | 2,3 | 1,3 | GXVM 25-8 | 3,5 | 12,5 | 450 | 0,7 | 0,37 | 0,5 | | 8,2 | 7,8 | 7,2 | 6,7 | 6,1 | 5,4 | 4,5 | 3,6 | 2,2 | | |
| GXV 25-10 | 2,8 | 1,6 | GXVM 25-10 | 4,5 | 16 | 450 | 0,95 | 0,45 | 0,6 | | 10 | 9,5 | 8,7 | 8 | 7,3 | 6,5 | 5,7 | 4,9 | 3,7 | 2,6 | |

P₁ Max. power input.

P₂ Rated motor power output.

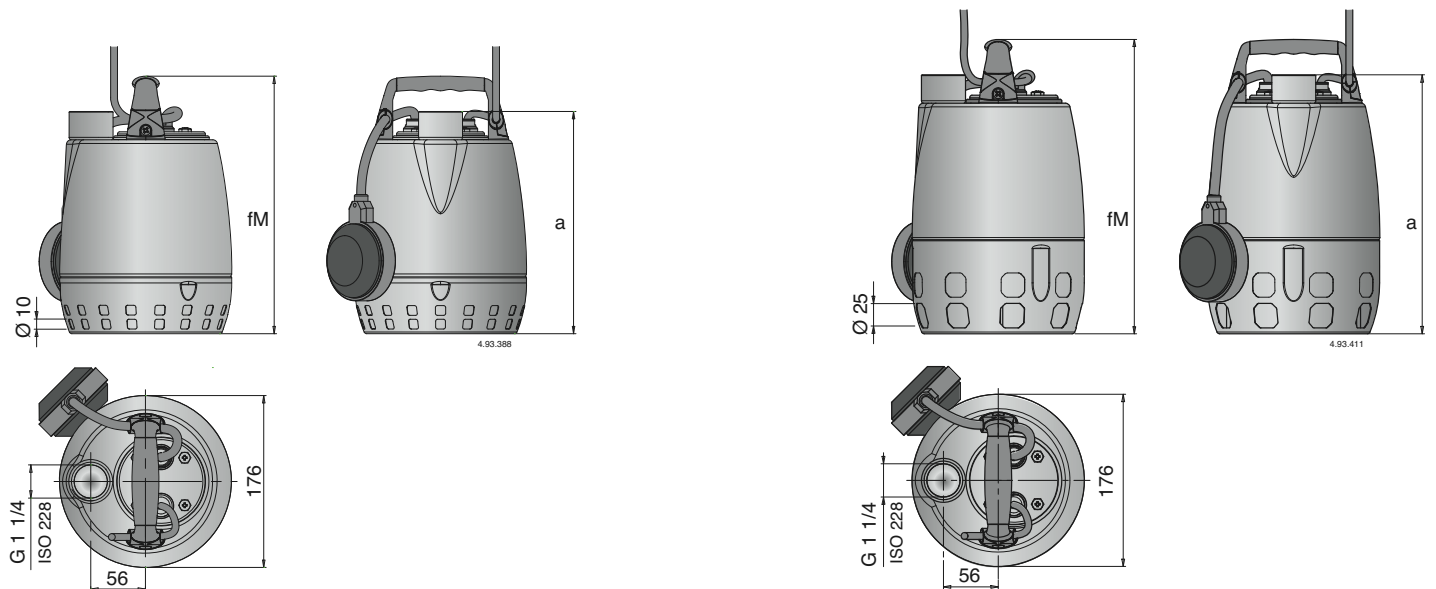
Density $\rho = 1000$ kg/m³.

Kinematic viscosity $\nu = \max 20$ mm²/sec.

Tolerances according to UNI EN ISO 9906:2012

| Pump type | Power supply cable | | | | Float switch | |
|---------------------------------|--------------------|------------------------|--------|-----------------|----------------|---------------------|
| | Cable material | Section | Length | Plug CEE 7(VII) | Cable material | Section |
| GXRM 9 GXVM 25-6 | H05RN-F | 3G0,75 mm ² | 5 m | YES | H07RN-F | 3G1 mm ² |
| GXRM 11, 13 GXVM 25-8, 25-10 | H07RN-F | 3G1 mm ² | 5 m | YES | H07RN-F | 3G1 mm ² |
| GXR 9 GXV 25-6 | H05RN-F | 4G0,75 mm ² | 5 m | NO | NO | - |
| GXR 11, 13 GXV 25-8, 25-10 | H07RN-F | 4G1 mm ² | 5 m | NO | NO | - |

Dimensions and weights



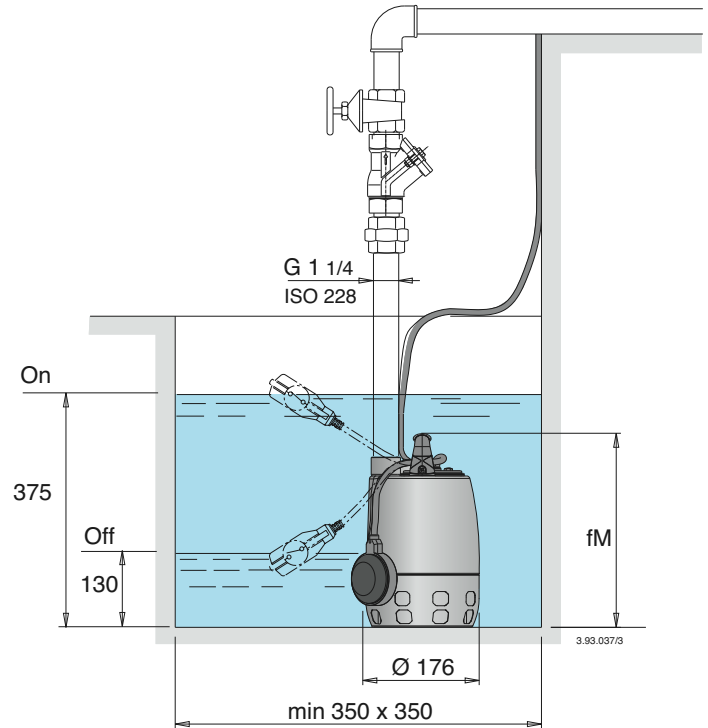
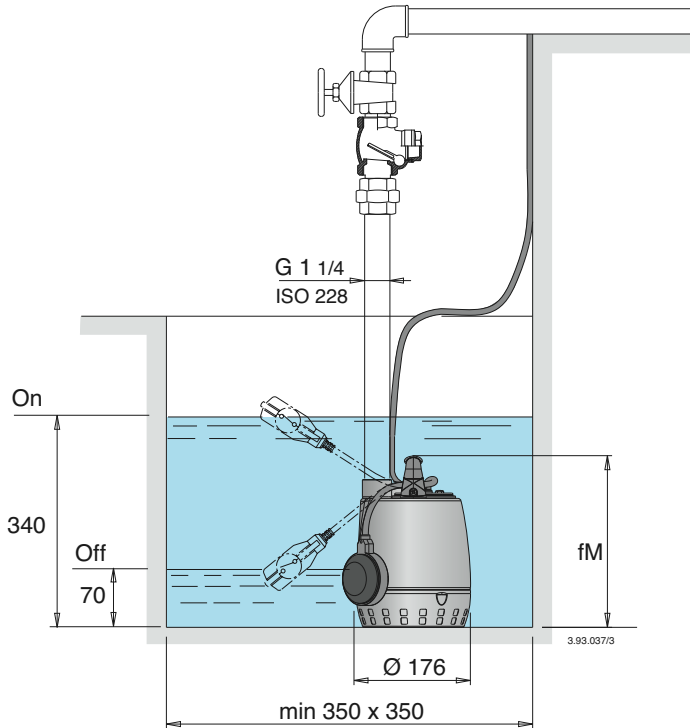
| TYPE | Dimensions mm | | (1) kg | |
|-------------------------|---------------|-----|--------|------|
| | fM | a | GXR | GXRM |
| GXR 9 - GXRM 9 | 265 | 230 | 5 | 5,2 |
| GXR 11 - GXRM 11 | 300 | 265 | 6,2 | 6,5 |
| GXR 13 - GXRM 13 | 300 | 265 | 6,7 | 7,2 |

(1) With cable length: 5 m

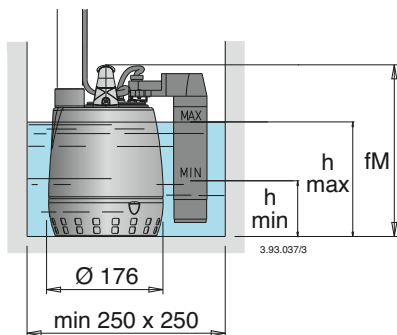
| TYPE | Dimensions mm | | (1) kg | |
|-------------------------------|---------------|-----|--------|------|
| | fM | a | GXV | GXVM |
| GXV 25-6 - GXVM 25-6 | 302 | 267 | 5,1 | 5,3 |
| GXV 25-8 - GXVM 25-8 | 337 | 302 | 6,3 | 6,6 |
| GXV 25-10 - GXVM 25-10 | 337 | 302 | 6,8 | 7,3 |

(1) With cable length: 5 m

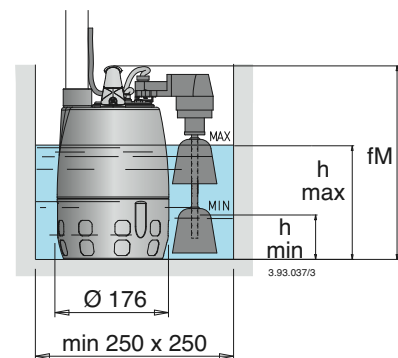
Installation examples



Installation examples with vertical magnetic float switch



| TYPE | mm | | |
|------------------|-----|-------|-------|
| | fM | h min | h max |
| GXR 9 GF | 265 | 100 | 190 |
| GXR 11 GF | 300 | 135 | 225 |
| GXR 13 GF | 300 | 135 | 225 |



| TYPE | mm | | |
|-----------------------|-----|-------|-------|
| | fM | h min | h max |
| GXVM 25-6 GFA | 302 | 70 | 150 |
| GXVM 25-8 GFA | 337 | 70 | 185 |
| GXVM 25-10 GFA | 337 | 70 | 185 |

Features

PATENTED

G 1 1/4 vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump.

Handle in polypropylene.

Minimum dimension and high levels of performance, for use in many different applications, head up to 12,7 m and flow rates up to 220 liters/min.

Easy inspection of the capacitor area.

Easy adjustment of the float switch: to allow the adjustment of start/stop pump levels.

Shaft in chrome-nickel stainless steel.

Motor cooled by the pumped water passing between the motor jacket and the external jacket.

Ceramic stainless steel shaft sleeve.

Oil chamber.

Suction strainer with a double row of holes, for extra safety against clogging. GXR: it allows the passage of solids up to 10 mm.

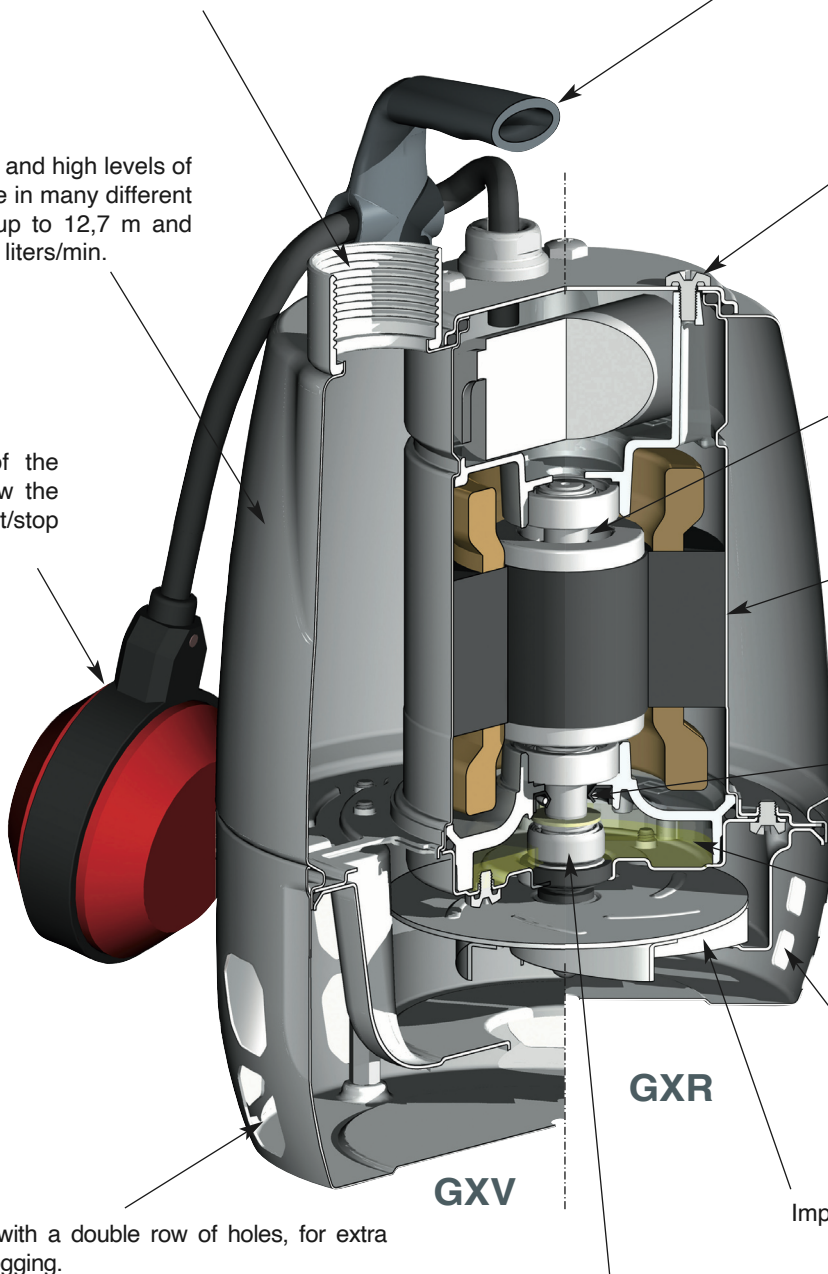
GXR

Impeller in chrome-nickel stainless steel.

GXV

Suction strainer with a double row of holes, for extra safety against clogging. GXV: it allows the passage of solids up to 25 mm.

The double shaft seal with oil chamber separates the motor from the water and provides further protection against accidental operation when dry.



GXR 12

Submersible Pumps
in stainless steel



Materials

| Component | Material |
|--------------------------------------------------------------------|------------------------------------------------|
| Pump casing Strainer Impeller Motor jacket Pump jacket | Chrome-nickel steel 1.4301 EN 10088 (AISI 304) |
| Handle | Polypropylene (with frame in AISI 304) |
| Shaft | Chrome-nickel steel 1.4301 EN 10088 (AISI 304) |
| Mechanical seal: upper lower | Ceramic alumina/Carbon/NBR |
| Seal lubrication oil | Oil for food/pharmaceutical machinery |

Construction

Single-impeller submersible pumps in chrome-nickel stainless steel, with vertical delivery port.

GXR: with open impeller.

Motor cooled by the pumped water passing between the motor jacket and the external jacket.

Double shaft seal with oil chamber.

Applications

- For clean water containing solids up to 12 mm grain size.
- For draining rooms or emptying tanks.
- Extraction of water from ponds, streams or pits and for rainwater collection.
- For irrigation purposes.

For outdoor use a power supply cable of not less than 10 m should be used in accordance with: EN 60335-2-41.

Operating conditions

Liquid temperature up to 40° C.

Maximum immersion depth: 5 m.

Minimum water level with float: 70 mm,.

Minimum water level manual operation: 15 mm.

Continuous duty.

Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).

GXR: three-phase 230 V $\pm 10\%$;

three-phase 400 V $\pm 10\%$;

Cable: H07RN-F, 4G1 mm², length 10 m, without plug.

GXRm: single-phase 230 V,

with float switch and thermal protector.

Incorporated capacitor.

Cable: H07RN-F, 3G1 mm² (3G1,5 mm² for 1,1 kW, 3G2,5 mm² for 1,5 kW), length 10 m, with plug CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion)

Double impregnation humidity-proof dry winding.

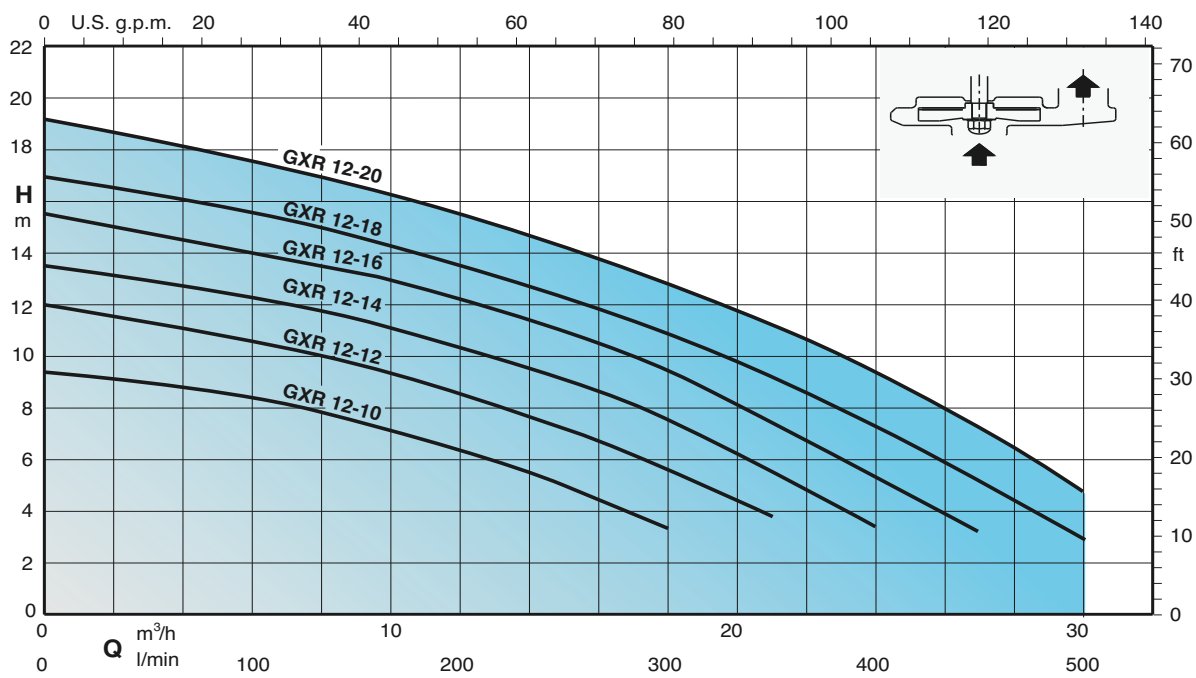
Constructed in accordance with: EN 60034-1;

EN 60335-1, EN 60335-2-41.

Other features on request

- Other voltages. - Frequency 60 Hz.
- Other mechanical seal. - Cable length 20 m.
- Vertical magnetic float switch.
- Motor suitable for operation with frequency converter.
- Three-phase pumps with incorporated float switch.

Characteristic curves $n \approx 2900$ rpm



Performance $n \approx 2900$ rpm

| 3~ | 230V 400V | | 1~ | 230V Capacitor | | | P1 | | | P2 | | Q m ³ /h l/min | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
|------------------|-----------|-----|-------------------|----------------|---------|-----|------|------|------|------------|------|---------------------------------|------|------|------|------|------|------|-----|-----|-----|----|----|
| | A | A | | A | μ f | Vc | kW | kW | HP | 0 | 50 | | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | |
| GXR 12-10 | 2,6 | 1,5 | GXRM 12-10 | 4 | 12,5 | 450 | 0,85 | 0,45 | 0,6 | H m | 9,3 | 9 | 8,3 | 7,5 | 6,3 | 5 | 3,3 | - | - | - | - | | |
| GXR 12-12 | 3,3 | 1,9 | GXRM 12-12 | 5,2 | 16 | 450 | 1,1 | 0,55 | 0,75 | | 12 | 11,3 | 10,6 | 9,6 | 8,5 | 7,2 | 5,6 | 3,7 | - | - | - | | |
| GXR 12-14 | 3,8 | 2,2 | GXRM 12-14 | 6 | 20 | 450 | 1,3 | 0,75 | 1 | | 13,5 | 13 | 12,2 | 11,4 | 10,4 | 9 | 7,5 | 5,6 | 3,3 | - | - | | |
| GXR 12-16 | 4,8 | 2,8 | GXRM 12-16 | 7,4 | 25 | 450 | 1,6 | 0,9 | 1,2 | | 15,5 | 14,7 | 14 | 13,2 | 12,2 | 11 | 9,4 | 7,5 | 5,4 | 3,2 | - | | |
| GXR 12-18 | 5,8 | 3,3 | GXRM 12-18 | 9,5 | 30 | 450 | 2 | 1,1 | 1,5 | | 17 | 16,3 | 15,5 | 14,6 | 13,5 | 12,3 | 10,8 | 9,2 | 7,3 | 5,2 | 3 | | |
| GXR 12-20 | 6,9 | 4 | GXRM 12-20 | 13 | 35 | 450 | 2,2 | 1,5 | 2 | | 19,2 | 18,4 | 17,5 | 16,5 | 15,5 | 14,2 | 12,8 | 11,2 | 9,3 | 7,2 | 4,7 | | |

P1 Max. power input.

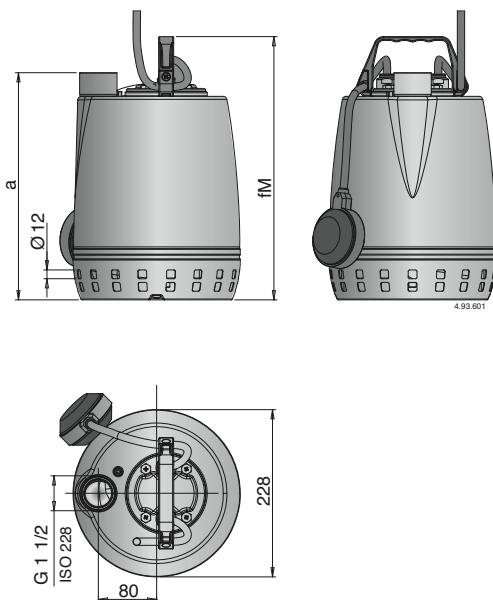
P2 Rated motor power output.

Density $\rho = 1000$ kg/m³.

Kinematic viscosity $\nu = \max 20$ mm²/sec.

Tolerances according to UNI EN ISO 9906:2012

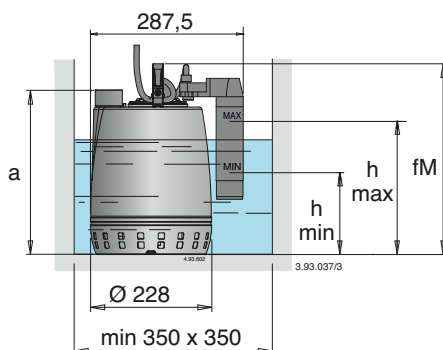
Dimensions and weights



| TYPE | mm | | kg ⁽¹⁾ | |
|-------------------------------|-----|-----|-------------------|------|
| | fM | a | GXR | GXRM |
| GXR 12-10 - GXRM 12-10 | 360 | 310 | 10,3 | 11,3 |
| GXR 12-12 - GXRM 12-12 | 375 | 325 | 11,5 | 12,5 |
| GXR 12-14 - GXRM 12-14 | 400 | 350 | 13 | 14 |
| GXR 12-16 - GXRM 12-16 | 400 | 350 | 13,6 | 14,6 |
| GXR 12-18 - GXRM 12-18 | 420 | 370 | 14,4 | 15,9 |
| GXR 12-20 - GXRM 12-20 | 450 | 400 | 16 | 17,5 |

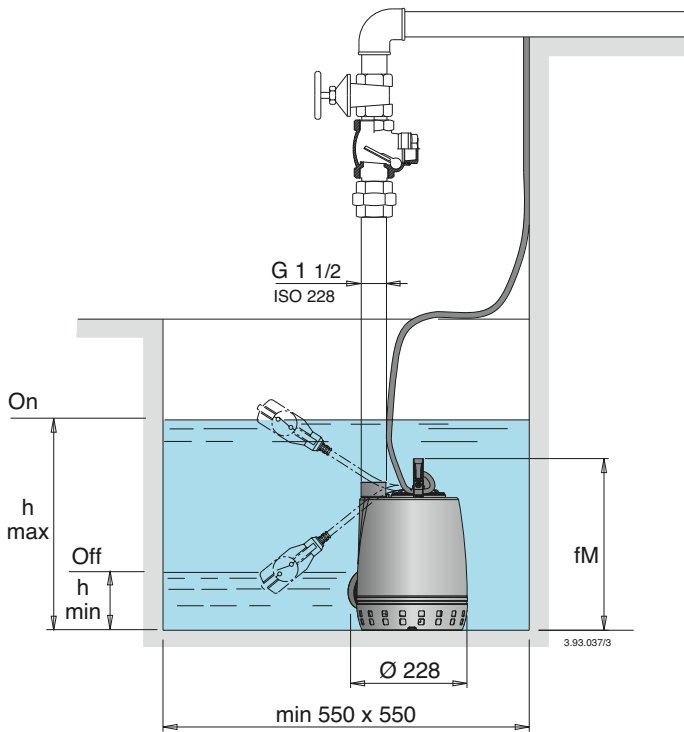
⁽¹⁾ With cable length: 10 m

Installation examples with vertical magnetic float switch



| TYPE | mm | | | |
|----------------------|-----|-----|-------|-------|
| | fM | a | h min | h max |
| GXRM 12-10 GF | 360 | 310 | 180 | 270 |
| GXRM 12-12 GF | 375 | 325 | 195 | 285 |
| GXRM 12-14 GF | 400 | 350 | 220 | 310 |
| GXRM 12-16 GF | 400 | 350 | 220 | 310 |

Installation examples



| TYPE | mm | | |
|------------------------|-----|-------|-------|
| | fM | h min | h max |
| GXR 12-10 - GXRM 12-10 | 360 | 175 | 435 |
| GXR 12-12 - GXRM 12-12 | 375 | 190 | 450 |
| GXR 12-14 - GXRM 12-14 | 400 | 215 | 475 |
| GXR 12-16 - GXRM 12-16 | 400 | 215 | 475 |
| GXR 12-18 - GXRM 12-18 | 420 | 235 | 495 |
| GXR 12-20 - GXRM 12-20 | 450 | 265 | 525 |

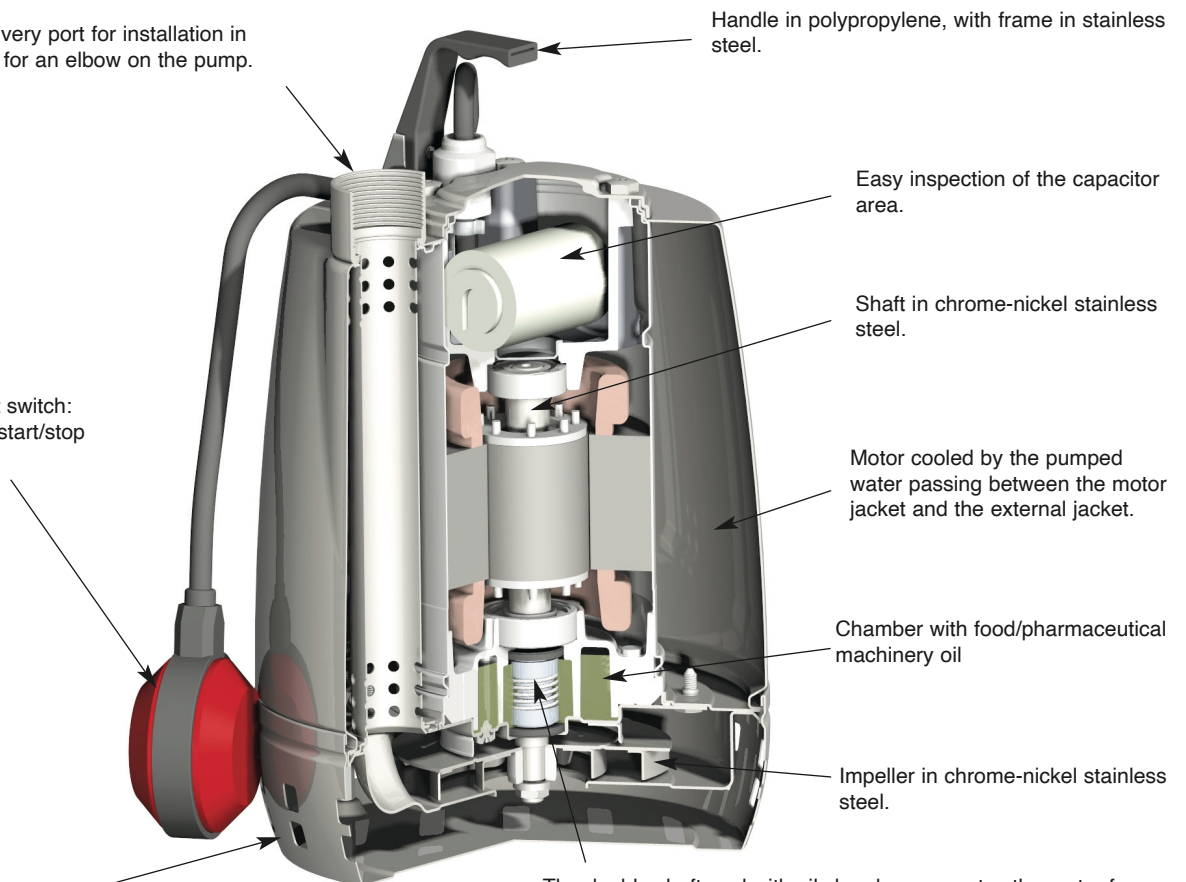
Features

PATENTED

G 1 1/2 vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump.

Easy adjustment of the float switch: to allow the adjustment of start/stop pump levels.

Suction strainer with a double row of holes, for extra safety against clogging with the passage of solids up to 12 mm grain size.





Construction

Single-impeller submersible pumps in chrom-nickel-molybdenum stainless steel **AISI 316L**, with vertical delivery port.

GXVL: with free-flow (vortex) impeller.

Motor cooled by the pumped water passing between the motor jacket and the external jacket.

Double shaft seal with oil chamber.

Applications

For clean or slightly dirty water, containing solids up to 25 mm grain size.

Particularly suitable for liquids with a high solid content.

For outdoor use a power supply cable of not less than 10 m should be used in accordance with: EN 60 335-2-41.

Operating conditions

Liquid temperature up to 50° C.

Maximum immersion depth: 5 m.

Minimum water level with float 130 mm.

Minimum water level manual operation 30 mm.

Continuous duty.

Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).

GXVL: three-phase 230 V $\pm 10\%$;

three-phase 400 V $\pm 10\%$;

Cable: H07RN-F, 4G1 mm², length 5 m, without plug.

GXVLM: single-phase 230 V,

with float switch and thermal protector.

Incorporated capacitor.

Cable: H07RN-F, 3G1 mm², length 5 m, with plug CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion)

Double impregnation humidity-proof dry winding.

Constructed in accordance with: EN 60034-1;

EN 60335-1, EN 60335-2-41.

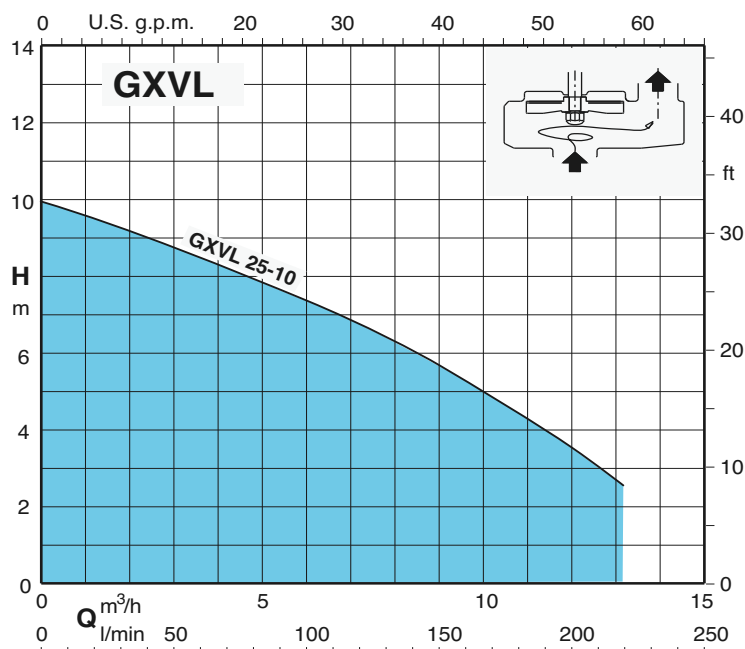
Materials

| Component | Material |
|----------------------|--------------------------------------------|
| Pump casing | Cr-Ni-Mo steel 1.4404 EN 10088 (AISI 316L) |
| Strainer | |
| Impeller | |
| Motor jacket | |
| Pump jacket | |
| Handle | Polypropylene |
| Shaft | Cr-Ni-Mo steel 1.4404 EN 10088 (AISI 316L) |
| Mechanical seal | Ceramic alumina/Carbon/NBR |
| Seal lubrication oil | Oil for food/pharmaceutical machinery |

Other features on request

- Other voltages.
- Frequency 60 Hz.
- Other mechanical seal.
- Cable length 10 m.
- Motor suitable for operation with frequency converter.

Characteristic curves $n \approx 2900$ rpm



Performance $n \approx 2900$ rpm

| 3~ | 230V 400V | | 1~ | 230V Capacitor | | | P ₁ | | | P ₂ | | | Q | | | | | | | | | | |
|-------------------|-----------|-----|--------------------|----------------|---------|-----|----------------|------|-----|-------------------|-------|-----|-----|---|-----|-----|-----|-----|-----|-----|------|----|------|
| | A | A | | A | μ f | Vc | kW | kW | HP | m ³ /h | l/min | H m | | 0 | 1,2 | 3 | 4,5 | 6 | 7,5 | 9 | 10,2 | 12 | 13,2 |
| GXVL 25-10 | 2,8 | 1,6 | GXVLM 25-10 | 4,5 | 16 | 450 | 0,95 | 0,45 | 0,6 | H m | 10 | 9,5 | 8,7 | 8 | 7,3 | 6,5 | 5,7 | 4,9 | 3,7 | 2,6 | | | |

P₁ Max. power input.

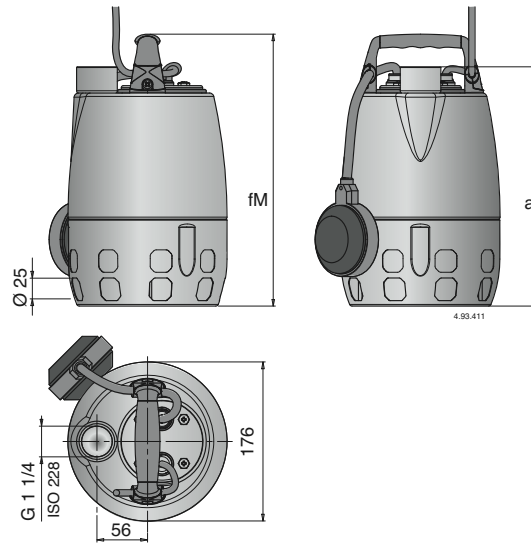
P₂ Rated motor power output.

Density $\rho = 1000$ kg/m³.

Kinematic viscosity $\nu = \max 20$ mm²/sec.

Tolerances according to UNI EN ISO 9906:2012

Dimensions and weights



| TYPE | Dimensions mm | | (1) kg | |
|---------------------------------|---------------|-----|--------|-------|
| | fM | a | GXVL | GXVLM |
| GXVL 25-10 - GXVLM 25-10 | 337 | 302 | 6,8 | 7,3 |

(1) With cable length: 5 m

Installation examples

