

GXR Submersible Pumps in stainless steel



Materials

Component	Material
Pump casing	Chrome-nickel steel AISI 304
Strainer	Chrome-nickel steel AISI 304
Impeller	Chrome-nickel steel AISI 304
Motor jacket	Chrome-nickel steel AISI 304
Pump jacket	Chrome-nickel steel AISI 304
Handle	Polypropylene
Shaft	Chrome-nickel steel AISI 303
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. - Vertical magnetic float switch.

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.

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.

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.

Motor

2-pole induction motor, 50 Hz (n = 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.

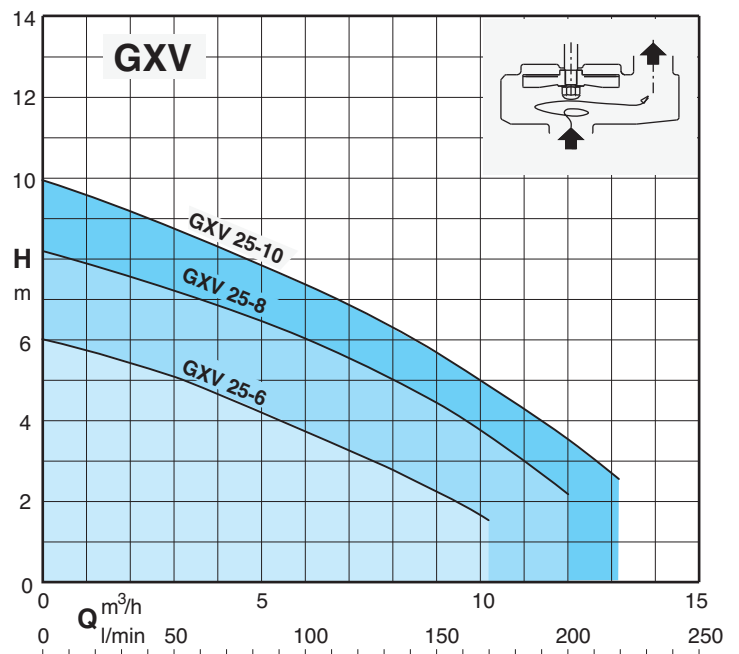
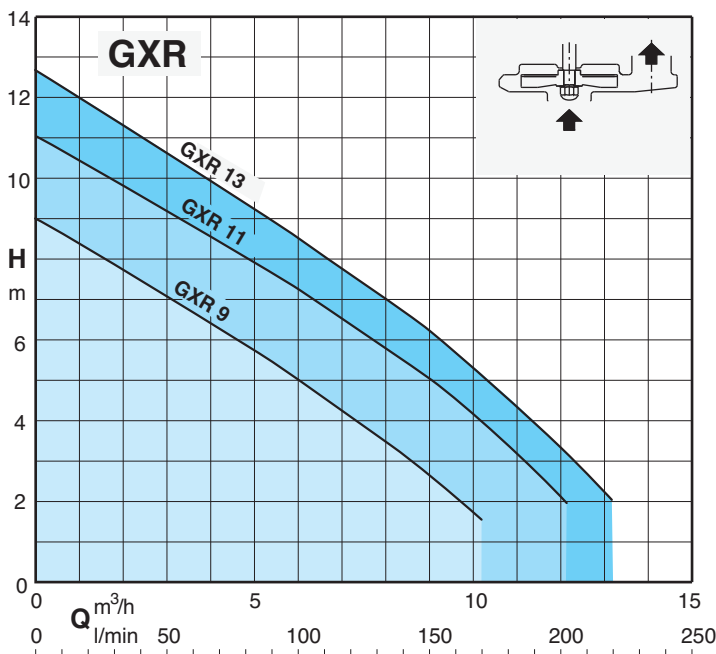
Protection IP X8 (for continuous immersion)

Double impregnation humidity-proof dry winding.

Constructed in accordance with: EN 60034-1;

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

Characteristic curves n = 2900 rpm



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Performance $n = 2900 \text{ rpm}$

3~			230V 400V		1~		230V		Capacitor	P ₁	P ₂		Q	m³/h	0	1,2	3	4,5	6	7,5	9	10,2	12	13,2
		A	A		A	µf	Vc	kW	kW	HP		l/min		0	20	50	75	100	125	150	170	200	220	
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 m³/h l/min	0	1,2	3	4,5	6	7,5	9	10,2	12	13,2
	A	A		A	µf	Vc	kW	kW	HP			0	20	50	75	100	125	150	170	200	220
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.

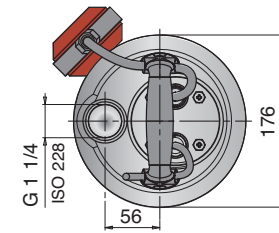
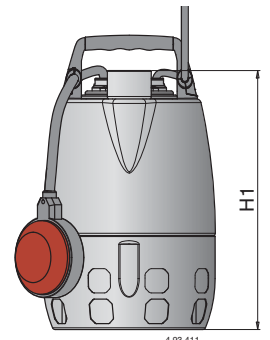
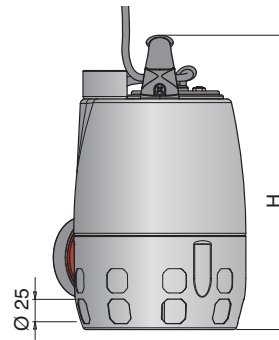
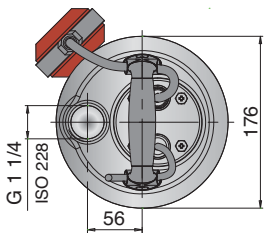
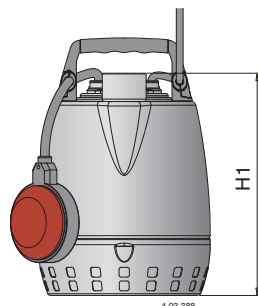
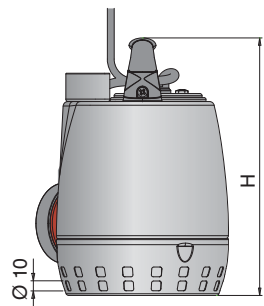
Density $\rho = 1000 \text{ kg/m}^3$.

Kinematic viscosity $\nu = \max 20 \text{ mm}^2/\text{sec}$.

Tolerances according to ISO 9906, annex A.

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

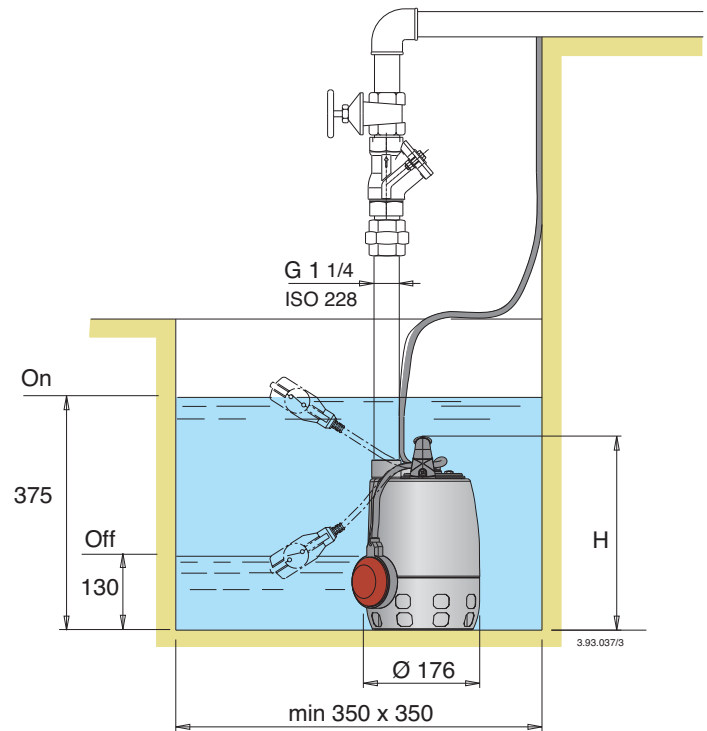
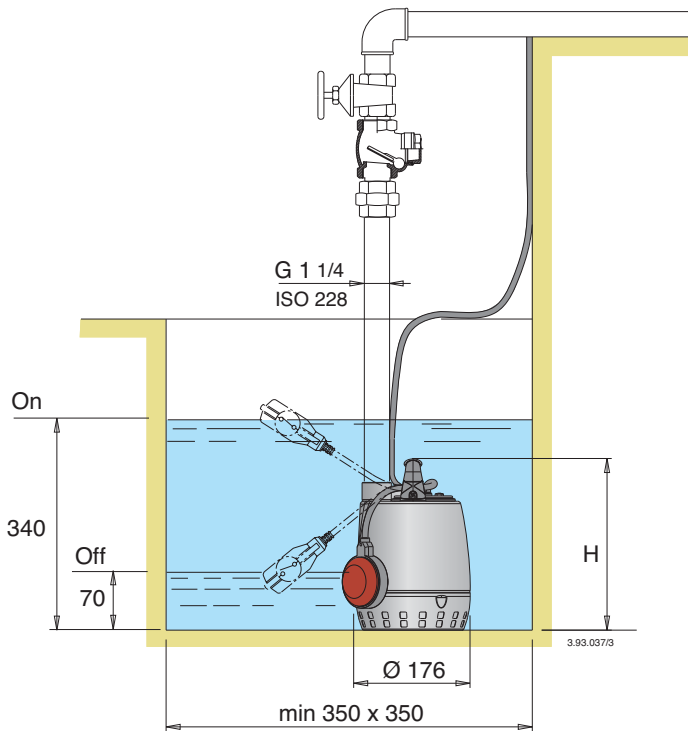
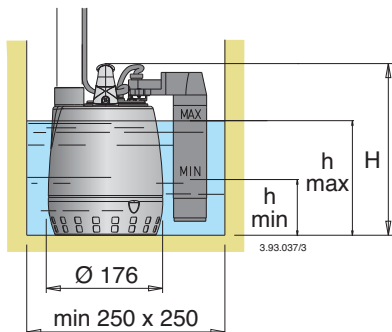


TYPE	Dimensions mm		(1) kg	
	H	H1	GXR	GXRM
GXR 9 - GXRM 9	265	230	5	5,2
GXR 11 - GXRM 11	300	265	6,2	6,5
GXR 13 - GXRM 13	300	265	6,7	7,2

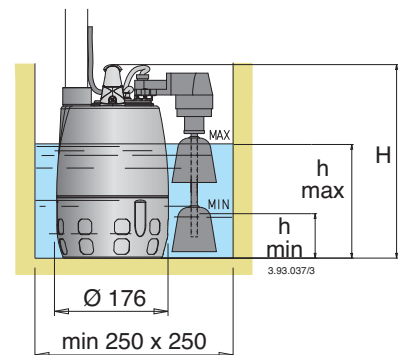
(1) With cable length: 5 m

TYPE	Dimensions mm		(1) kg	
	H	H1	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		
	H	h min	h max
GXR 9 GF	265	100	190
GXR 11 GF	300	135	225
GXR 13 GF	300	135	225



TYPE	mm		
	H	h min	h max
GXV 25-6 GF	302	60	150
GXV 25-8 GF	337	60	185
GXV 25-10 GF	337	60	185

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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.

Easy inspection of the capacitor area

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.

Impeller in chrome-nickel stainless steel.

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

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. GXV: it allows the passage of solids up to 25 mm.

