

PATENTED



Materials

Component	Material
Pump casing	Cast iron GJL 200 EN 1561
Impeller	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Motor jacket	
Jacket cover	
Handle	Polypropylene (with frame in AISI 304)
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Mechanical seal	Ceramic alumina/Carbon/NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Construction

Single-impeller submersible pumps, with free-flow (vortex) impeller with vertical threaded delivery port.

Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

For domestic or industrial waste water, dirty water with solids up to 40 mm grain size, for liquids which are compatible with the pump materials.

For draining rooms or emptying tanks.

Extraction of water from ponds, streams or pits and for rainwater collection.

Operating conditions

Liquid temperature up to 35° C.

pH value: 6-11.

Maximum immersion depth: 5 m.

Minimum immersion depth: 200 mm.

Continuous duty (with submerged motor).

Motor

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

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

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

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

GQSM: single-phase 230 V $\pm 10\%$,
with float switch and thermal protector.

Incorporated capacitor.

Cable: H07RN-F, 3G1 mm², length 10 m, with plug
CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion)

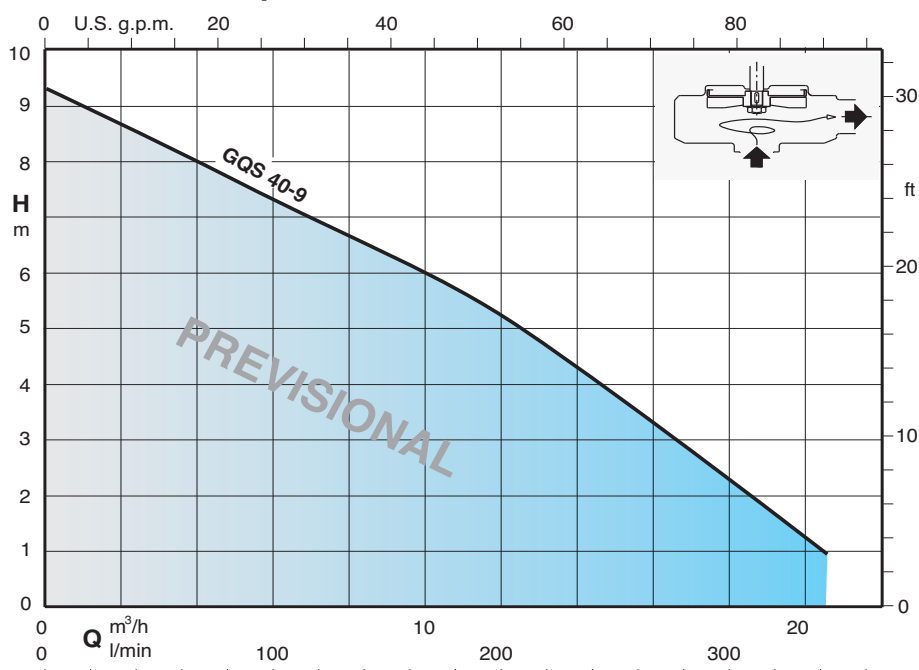
Triple impregnation humidity-proof dry winding.

Constructed in accordance with: EN 60034-1;
EN 60335-1, EN 60335-2-41.

Other features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Other mechanical seal.
- Cable length 20 m.
- 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			P ₁	P ₂		Q ^{m³/h}	0	1,5	3	6	9	12	15	18	21	24	27	30	33
	A	A		A	μf	Vc	kW	kW	HP		l/min	0	25	50	100	150	200	250	300	350	400	450	500
GQS 40-9	2,8	1,6	GQSM 40-9	4,5	20	450	0,95	0,45	0,6	H m	9,3	8,8	8,3	7,3	6,3	5,2	3,8	2,3	0,9	-	-	-	-

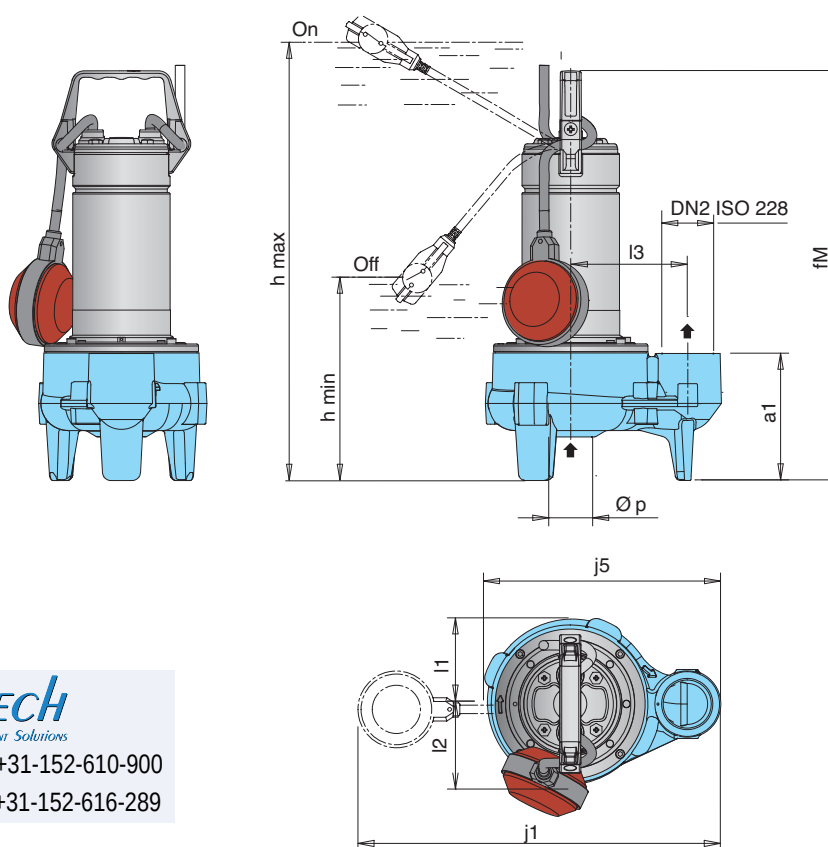
P₁ Max. power input.

P₂ Rated motor power output.

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

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

Dimensions and weights



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TYPE	DN	a1	fM	l1	l2	l3	j5	Ø p	j1	mm		kg (1)	
										h max	h min	GQS	GQSM
GQS(M) 40-9	G 1 1/2	120	385	78	81	110	222	40	410	460	200	10,5	10,5

1) With cable length: 10 m