



Construction

Submersible pumps with high power grinder, with horizontal flanged and threaded delivery port (DN 32 PN 6 - G 1 1/2). Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

Suitable for pumping waste water containing long filamentous, paper and textile materials and organics.

They are particularly suitable for use in domestic, residential and industrial installations.

Solid passage Ø 6 mm

Operating conditions

Liquid temperature up to 35° C.

Maximum immersion depth: 5 m.

Minimum immersion depth: 300 mm.

Continuous duty (with submerged motor).

Motor

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

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

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

GQGM: single-phase 230 V $\pm 10\%$,

with float switch, thermal protection and control box with starting capacitors.

Cable: H07RN8-F, 4G1 mm² (4G1,5 mm² for GQGM 6-25), length 10 m.

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.

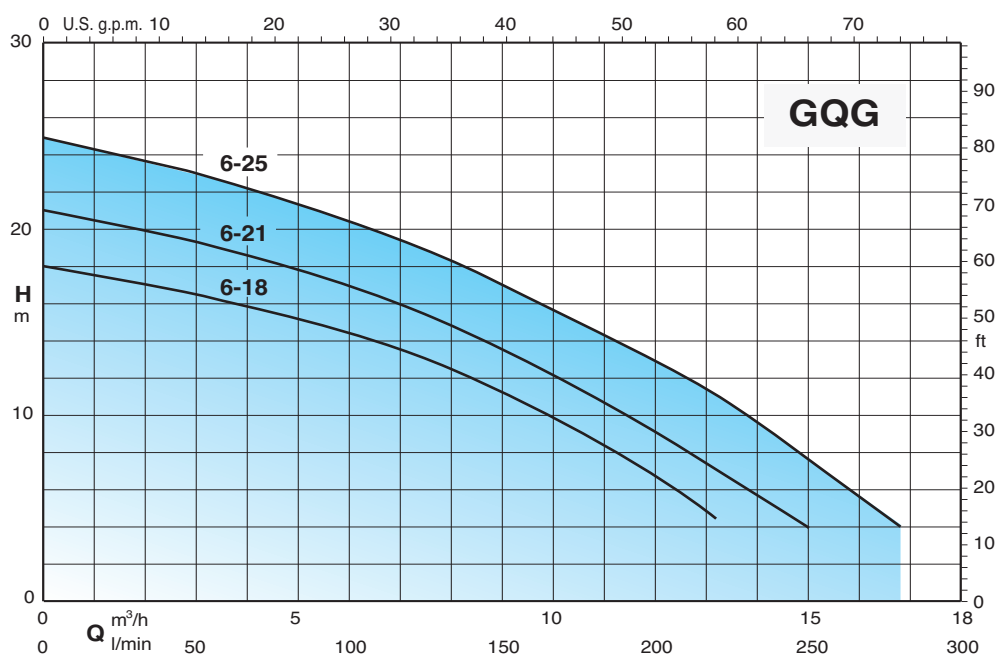
Materials

Component	Material
Pump casing Impeller Casing cover	Cast iron GJL 200 EN 1561
Rotating cutting blade Fixed cutting blade	Nickel-Molybdenum steel 1.4125 EN 10088 (AISI 440C)
Motor jacket Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene (with frame in AISI 304)
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Mechanical seal: upper lower	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 20 m.
- Vertical magnetic float switch.
- Three-phase pumps with incorporated float switch.

Characteristic curves $n \approx 2900$ rpm



Performance n ≈ 2900 rpm

3~	230V 400V		1~	230V		Capacitor	P ₁	P ₂		Q								
	A	A		A	µf	Vc	kW	kW	HP		0	3	6	9	12	13,2	15	16,8
GQG 6-18	4	2,3	GQGM 6-18	7	30+80	450	1,3	0,9	1,2		m ³ /h	0	3	6	9	12	13,2	15
GQG 6-21	4,8	2,8	GQGM 6-21	7,5	30+80	450	1,5	1,1	1,5		l/min	0	50	100	150	200	220	250
GQG 6-25	6,6	3,8	GQGM 6-25	9,5	30+80	450	2	1,5	2		H _m	18	16,5	14,5	11,2	6,5	4,5	
												21	19,2	17	13,5	9	7	4
												25	23	20,5	17	13	11	7,8

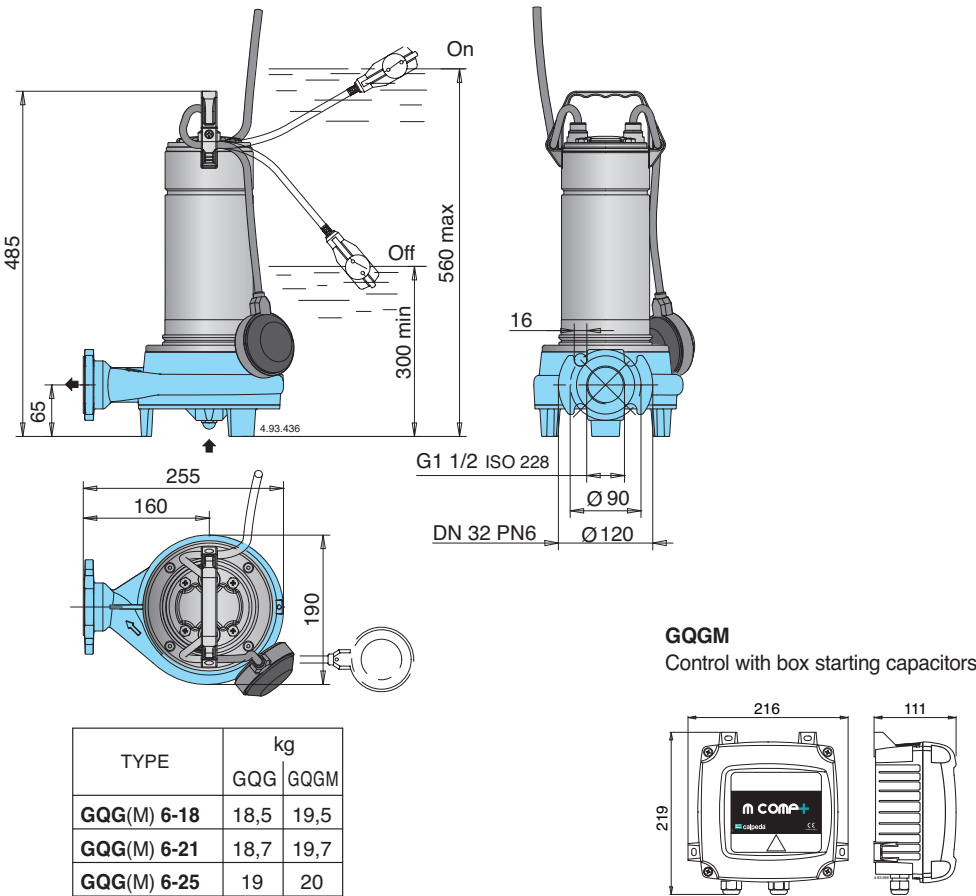
P1 Max. power input.

P2 Rated motor power output.

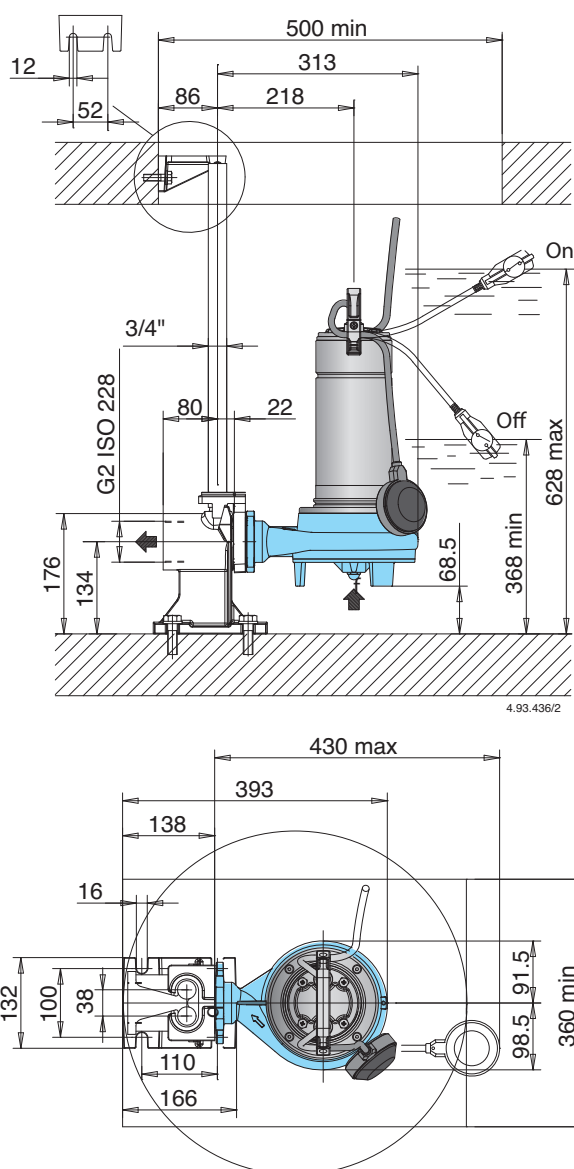
Density ρ = 1000 kg/m³.

Kinematic viscosity ν = max 20 mm²/sec.

Dimensions and weights



Installation example



Features

PATENTED

