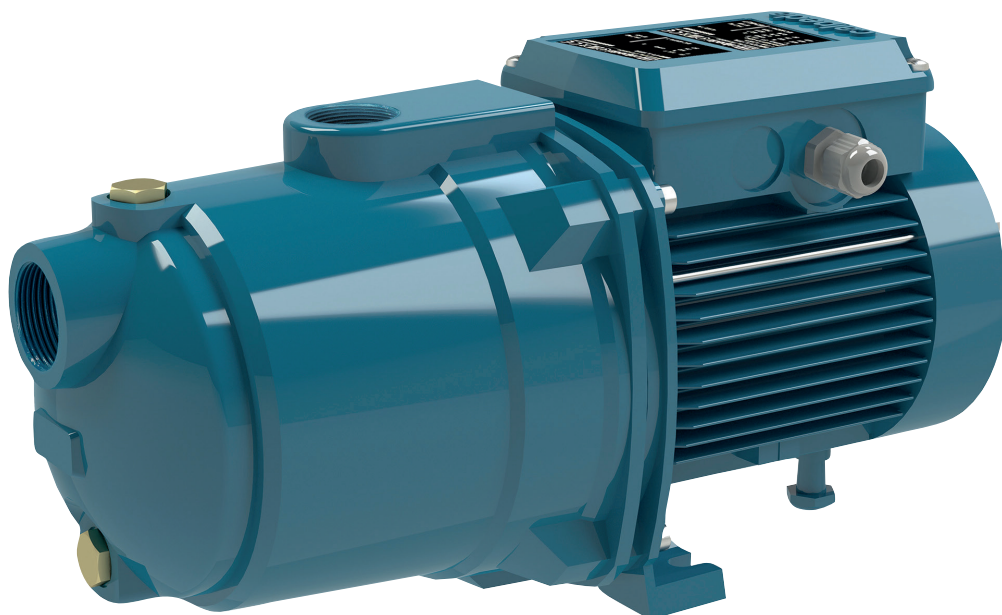
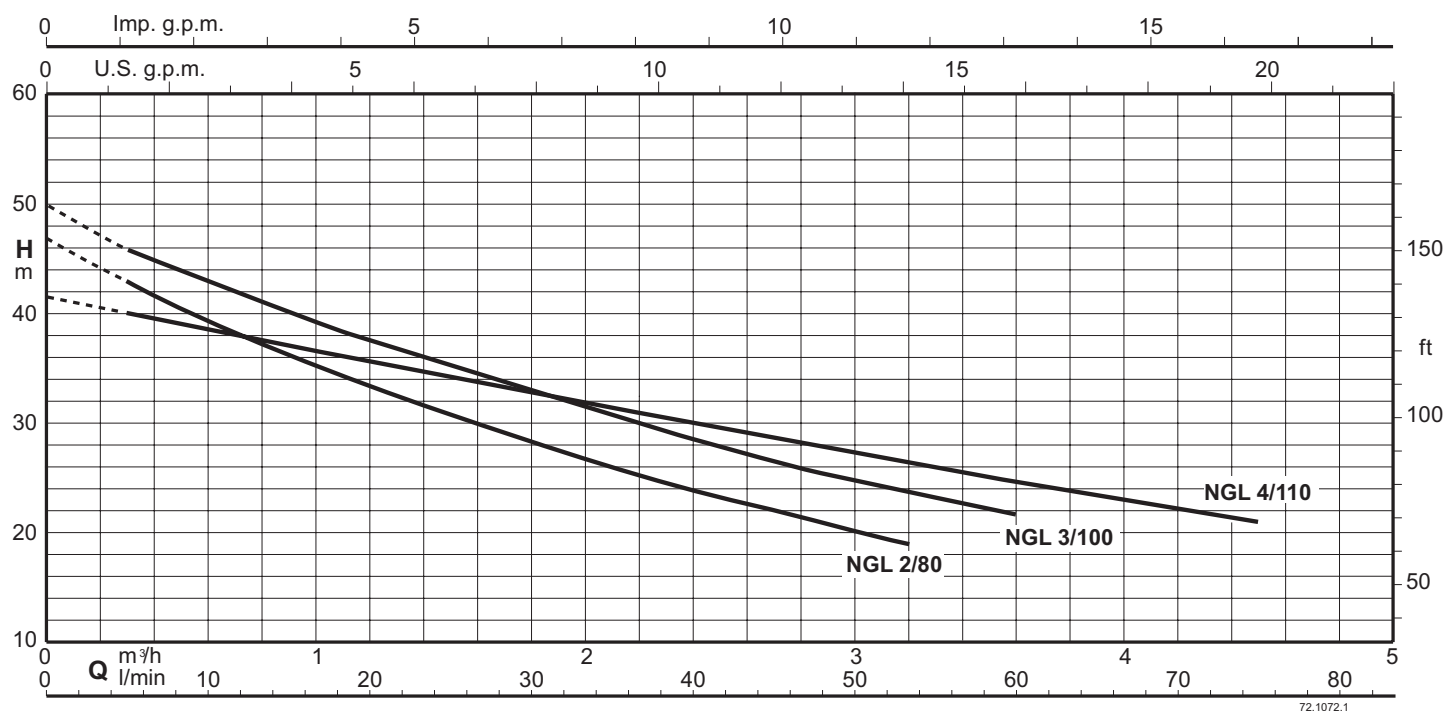


Coverage chart $n \approx 2800$ rpm

Self-priming jet pumps



Construction

Close-coupled self-priming shallow-well pump with built-in ejector.

Applications

- For drawing water out of a well.
- For lifting water containing air or other gases.
- For increasing water pressure from flooded suction applications.
- For increasing network pressure (follow local regulations).
- For garden use.
- For washing with a jet of water.

Operating conditions

- Liquid temperature: 0 °C to +35 °C.
- Ambient temperature up to +40 °C.
- Maximum permissible pressure in the pump casing: 8 bar.
- Continuous duty.

Motor

- 2-pole induction motor, 50 Hz (n ≈ 2800 1/min).
- NGL:** three-phase 230/400 V ± 10%.
- NGLM:** single-phase 230 V ± 10%, with thermal protector.
- Capacitor inside the terminal box.
- Insulation class F.
- Protection IP54
- IE2 efficiency class for single-phase motors.**
- IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).**
- Constructed in accordance with EN 60034-1.
- EN 60335-1, EN 60335-2-41.

Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Brass impeller.

Designation

- NGLM 2/80
- NGL = Series
- M = Single-phase version (no indication: three-phase)
- 2 = Progressive type number
- 80 = Nominal power P1

Materials

Components	Material
Pump casing	Cast iron GJL 200 EN 1561
Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Impeller	Noryl PPO-GF20
Wear ring impeller-diffuser	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Diffuser	Noryl PPO-GF20
Ejector	Noryl PPO-GF20
Shaft	Steel 1.4104 EN 10088 (AISI 430F)
Mechanical seal	Carbon - Ceramic - NBR

Performance n ≈ 2800 rpm

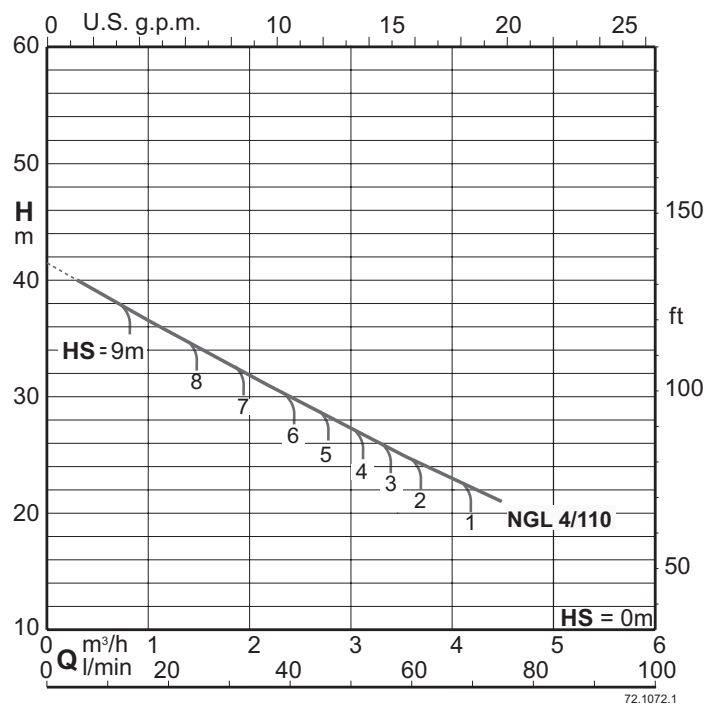
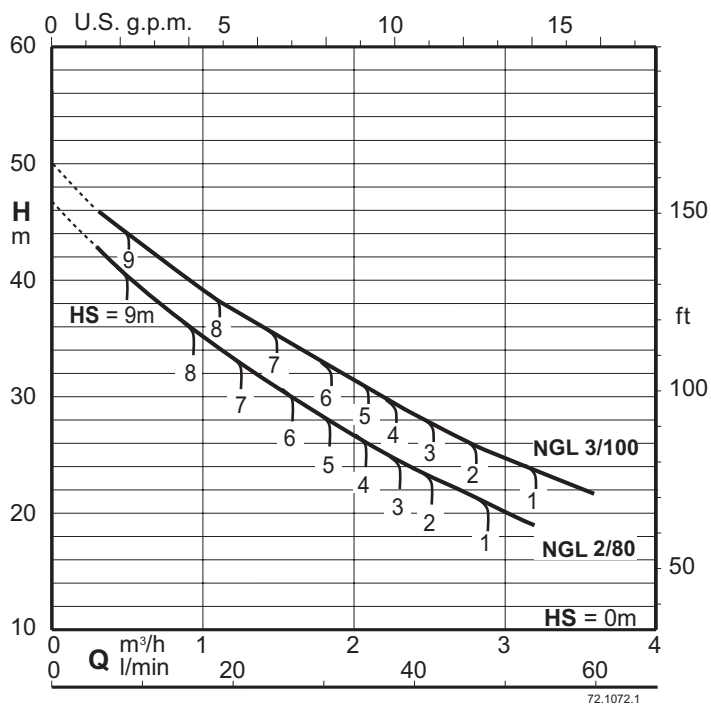
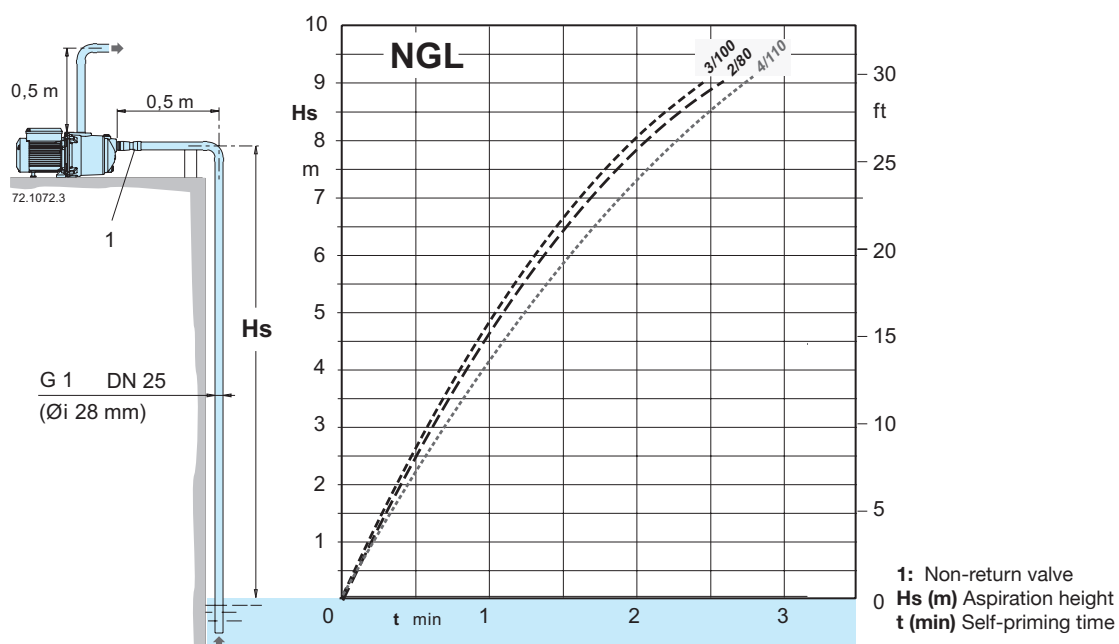
Three-phase

					Q = Flow										
					m³/h	0	0,3	1	2	2,4	3	3,2	3,6	4	4,5
Model	230V	400V	P2		l/min		5	16,6	33,3	40	50	53.3	60	66,6	75
	A		kW	HP	H (m) = Total head										
NGL 2/80/A	2,8	1,6	0,55	0,75		46,8	43	35,2	26,7	23,9	20,2	19,1	-	-	-
NGL 3/100	3	1,7	0,65	0,9		50	45,9	39,4	31,3	28,5	24,8	23,7	21,7	-	-
NGL 4/110	3,7	2,2	0,75	1		41,6	40	36,6	31,9	30	27,3	26,4	24,6	23	21,1

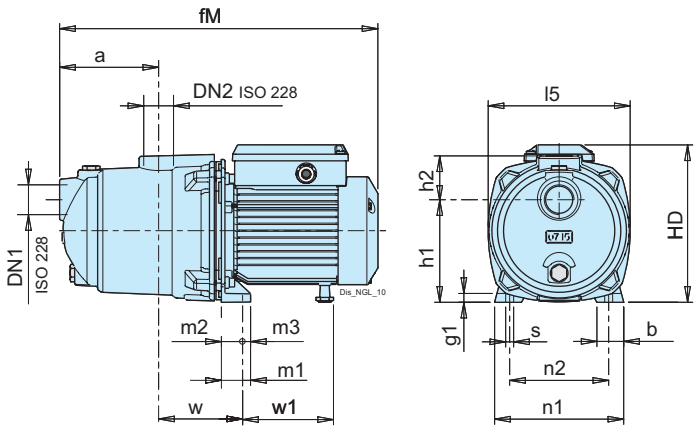
Single-phase

					Q = Flow										
					m³/h	0	0,3	1	2	2,4	3	3,2	3,6	4	4,5
Model	230V	P2		P1	l/min		5	16,6	33,3	40	50	53.3	60	66,6	75
	A	kW	HP	kW	H (m) = Total head										
NGLM 2/80/A	4,5	0,55	0,75	0,78		46,8	43	35,2	26,7	23,9	20,2	19,1	-	-	-
NGLM 3/100	4,5	0,65	0,9	0,89		50	45,9	39,4	31,3	28,5	24,8	23,7	21,7	-	-
NGLM 4/110	5,7	0,75	1	1,01		41,6	40	36,6	31,9	30	27,3	26,4	24,6	23	21,1

- P1:** Maximum power input.
- P2:** Rated motor power output.
- Tolerances according to UNI EN ISO 9906:2012

Characteristic curves for different suction lifts H_s **Self-priming capability**50 Hz ($n \approx 2800$ 1/min), H_2O , $T = 20^\circ C$, $P_a = 1000$ hPa (mbar)

Dimensions and weights



TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l5	m1	m2	m3	n1	n2	s	w	w1	Weight
NGL 2/80/A	G 1	G 1	113	30	388	10	116	61	193	161.00	33	25	8	146	113	9	95	119	11.2
NGL 3/100	G 1	G 1	113	30	388	10	116	61	193	161.00	33	25	8	146	113	9	95	119	11.1
NGL 4/110	G 1	G 1	113	30	388	10	116	61	193	161.00	33	25	8	146	113	9	95	119	13

TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l5	m1	m2	m3	n1	n2	s	w	w1	Weight
NGLM 2/80/A	G 1	G 1	113	30	388	10	116	61	193	161.00	33	25	8	146	113	9	95	119	12.2
NGLM 3/100	G 1	G 1	113	30	388	10	116	61	193	161.00	33	25	8	146	113	9	95	119	12.1
NGLM 4/110	G 1	G 1	113	30	388	10	116	61	193	161.00	33	25	8	146	113	9	95	119	13.1