NGL

Self-Priming Pumps





Materials

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

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.

As pressure boosting pump for central water systems with low pressure (follow local specifications if increasing network pressure).

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.

Suction lift up to 9 m.

Maximum permissible pressure in the pump casing: 8 bar.

Continuous duty.

Motor

2-pole induction motor, 50 Hz (n ≈ 2800 rpm).

NGL: three-phase 230/400 V ± 10%.

NGLM: single-phase 230 V \pm 10%, with thermal protector.

Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

IE2 efficiency class for single-phase motors.

IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).

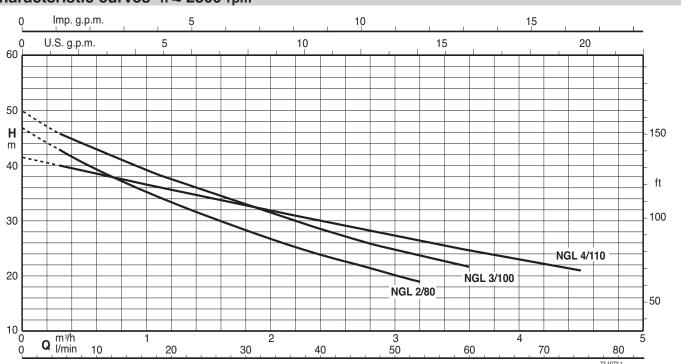
Constructed in accordance with: EN 60034-1; EN 60034-30-1.

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

Special features on request

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

Characteristic curves n ≈ 2800 rpm





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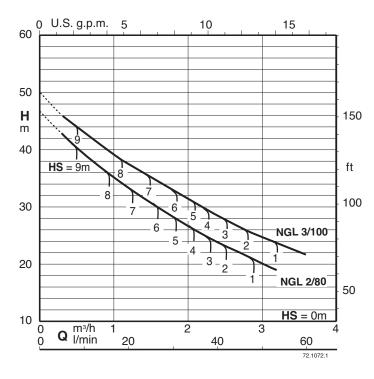
Performance n ≈ 2800 rpm

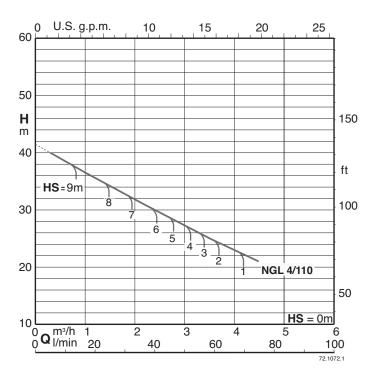
3~	230V	400V	1~	230V	P ₁	F	2	Q m³/h	0	0,3	1	2	2,4	3	3,2	3,6	4	4,5
		Α	Α	Α	kW	kW	HP	l/min	0	5	16,6	33,3	40	50	53,3	60	66,6	75
NGL 2/80/A	2,8	1,6	NGLM 2/80/A	4,2	0,9	0,55	0,75		46,8	43	35,2	26,7	23,9	20,2	19,1			
NGL 3/100	3	1,7	NGLM 3/100	4,5	0,95	0,65	0,9	H m	50	45,9	39,4	31,3	28,5	24,8	23,7	21,7		
NGL 4/110	3,7	2,2	NGLM 4/110	5,4	1	0,75	1		41,6	40	36,6	31,9	30	27,3	26,4	24,6	23	21,1

P₁ Max. power input. P₂ Rated motor power output.

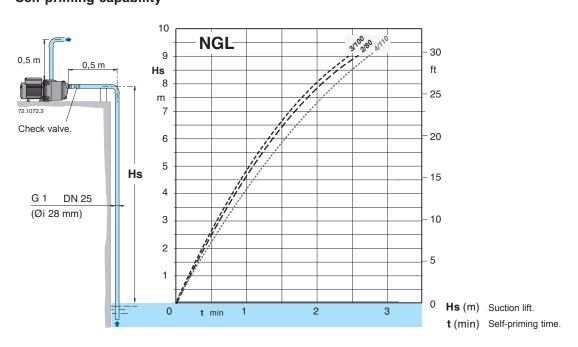
Tolerances according to UNI EN ISO 9906:2012

Characteristic Curves for different suction lifts Hs





Self-priming capability

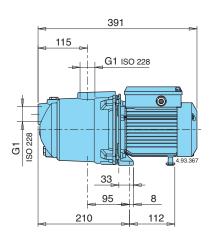


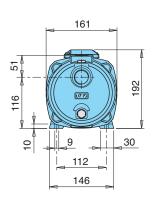


Self-Priming Pumps



Dimensions and weights



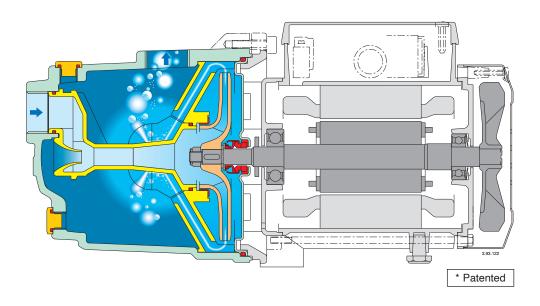


TYPE	Net weight kg						
	NGL	NGLM					
NGL 2/80/A	11,1	12,1					
NGL 3/100	11,1	12,1					
NGL 4/110	13,1	13,1					

Self-Priming Pumps



Features



A different pump with new features

An exclusive diffuser design with flow control device* provides for compact construction, fast self-priming capability and low noise.

Reliable

With new design features the NGL is more robust and forgiving when temporary abnormal operating conditions may exist.

Compact

The NGL is smaller than conventional pumps of a similar type, allowing for installation in restricted spaces and providing for easier retrofit applications.

Safe

Fast air evacuation reduces the risk of air-pockets developing at the mechanical seal preventing the danger of seal failure due to a lack of flushing and cooling.

Better self-priming

The NGL are capable of lifting water from depths of 9 m in less than 3 minutes, offers new possibilities on suction lift applications and provides better trouble free service on normal shallow-well suction lift duties, also with a long suction pipe above the water level.

Low noise

The new diffuser and flow control device* guide the fluid from the impeller into the central part of the pump casing, reducing turbulence and velocity, with effective use of the surrounding liquid in dampening the noise of flow.