



Materials

Component	Material
Pump casing	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Casing cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Impeller	Brass P-Cu Zn 40 Pb 2 UNI 5705
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 jet pump with built-in ejector.

A high-quality pump for domestic water supply. Designed with environmental considerations, featuring a stainless steel casing, brass alloy impeller with minimal use of plastic materials.

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 9,5 m.

Maximum permissible pressure in the pump casing: 8 bar.

Continuous duty.

Motor

2-pole induction motor, 50 Hz (n = 2800 1/min).

NGX: three-phase 230/400 V ± 10%.

NGXM: single-phase 230 V ± 10%, with thermal protector.

Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

Constructed in accordance with: EN 60335-2-41.

A different jet pump with new features

Not just another jet pump.

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 NGX is more robust and forgiving when temporary abnormal operating conditions may exist, where automatic control is not provided for.

Compact

The NGX is up to 40 % smaller than conventional pumps of a similar type, allowing for installation in restricted spaces and providing for easier retrofit applications.

Safe

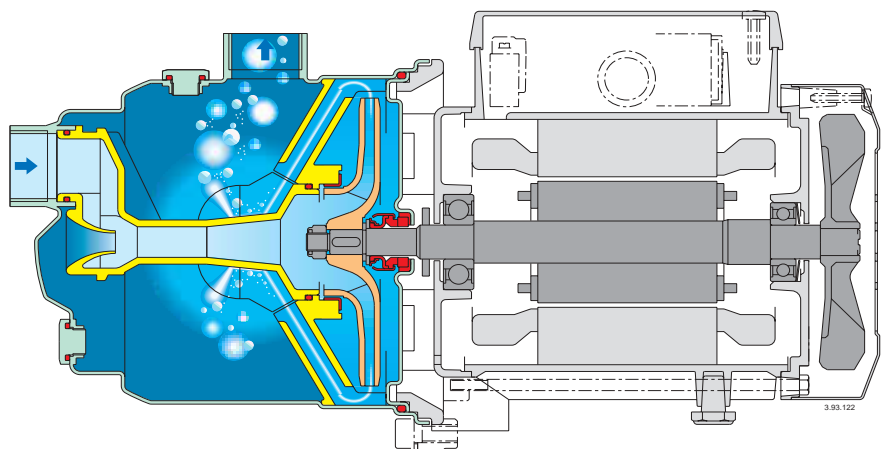
Fast air evacuation reduces the risk of air-pockets developing at the mechanical seal preventing the danger of seal failure due to a lack of flushing and cooling.

Better self-priming

The NGX is capable of lifting water from depths of 9,5 m in less than 2 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.



* Patented and patents pending.

Technical data $n \approx 2800 \text{ rpm}$

	3~ 230V 400V		1~ 230V	P ₁	P ₂	Q	Q							Dimensions			Net weight				
	A	A					A	kW	kW	HP	m ³ /h	0	0,3	1	2	2,4	3	4	5	mm	mm
NGX 2	2,8	1,6	NGXM 2	3,3	0,7	0,45	0,6	0	0	5	16,6	33,3	40	50	66,6	83,3	f	h3	w	NGX	NGXM
NGX 3	2,8	1,6	NGXM 3	4,2	0,9	0,55	0,75	45	40	30	20,5	18					362	176	102	7,5	7,5
NGX 4	3,5	2	NGXM 4	5,4	1	0,75	1	53	48	40	30	27	22			391	188	112	8,7	9,6	
								42	40	36	31	28	25	21	18	391	188	112	9,6	10,6	

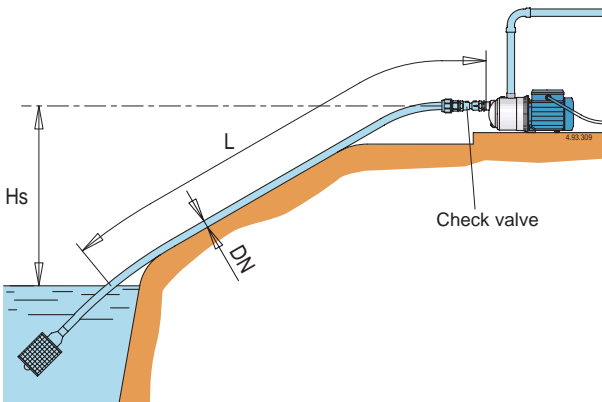
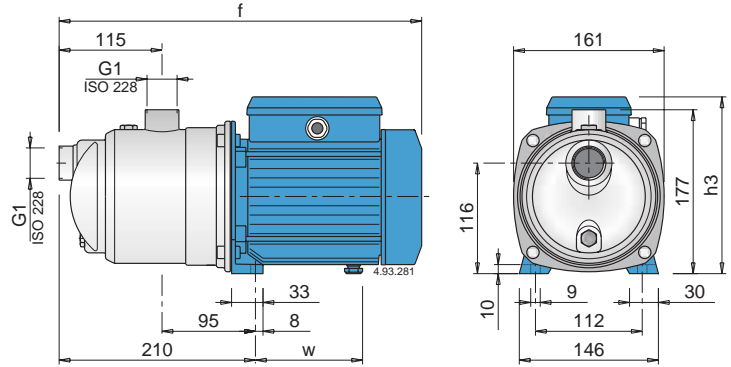
P₁ Max. power input.

P₂ Rated motor power output.

Recommended application limits:

with suction pipe leading constantly upwards to the pump:
50 Hz ($n = 2800 \text{ 1/min}$), H₂O, T = 20°C, Pa = 1000 hPa (mbar)

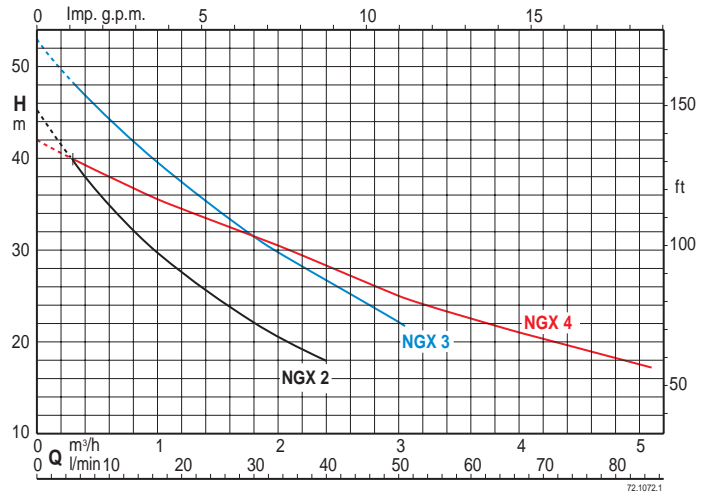
DN 25 (Øi 28mm)	DN 32 (Øi 36mm)	NGX 2	NGX 3	NGX 4
L 10 m	L 10 m	Hs 8 m	Hs 9 m	Hs 9 m
L 25 m	L 15 m	Hs 6 m	Hs 7 m	Hs 8 m
L 50 m	L 30 m	-	Hs 6 m	Hs 7 m
L 100 m	L 60 m	-	Hs 3 m	Hs 4 m



Hs (m) Suction lift

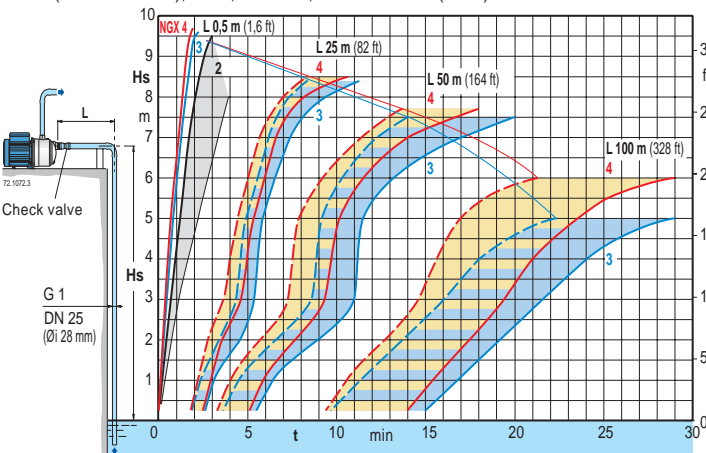
L (m) Length of suction pipe above the water level

Characteristic Curves



Self-priming capability NGX 4, NGX 3:

for different lengths L of horizontal suction pipe above the water level
50 Hz ($n = 2800 \text{ 1/min}$), H₂O, T = 20°C, Pa = 1000 hPa (mbar)



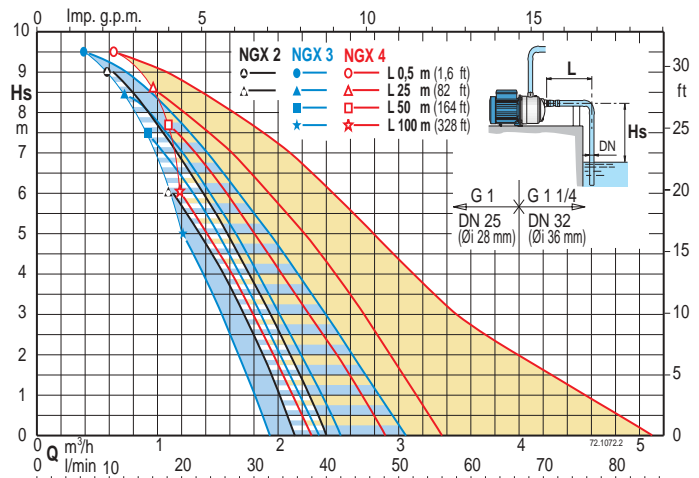
Hs (m) Suction lift

t (min) Self-priming time

— Beginning of water delivery — Air totally cleared

Maximum capacity Q

for different suction lifts Hs and different lengths L



H: The head is the sum of the suction lift + delivery head + head losses in the suction and delivery pipelines.