



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 clean liquids or slightly dirty surface water.
- 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, 60 Hz (n ≈ 3450 rpm).

NGX: three-phase 220/380 V.

NGXM: single-phase 220 V, with thermal protector.
Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

Classification scheme IE2 for three-phase motors from 0,75 kW.

Constructed in accordance with: EN 60034-1; EN 60034-30.
EN 60335-1, EN 60335-2-41.

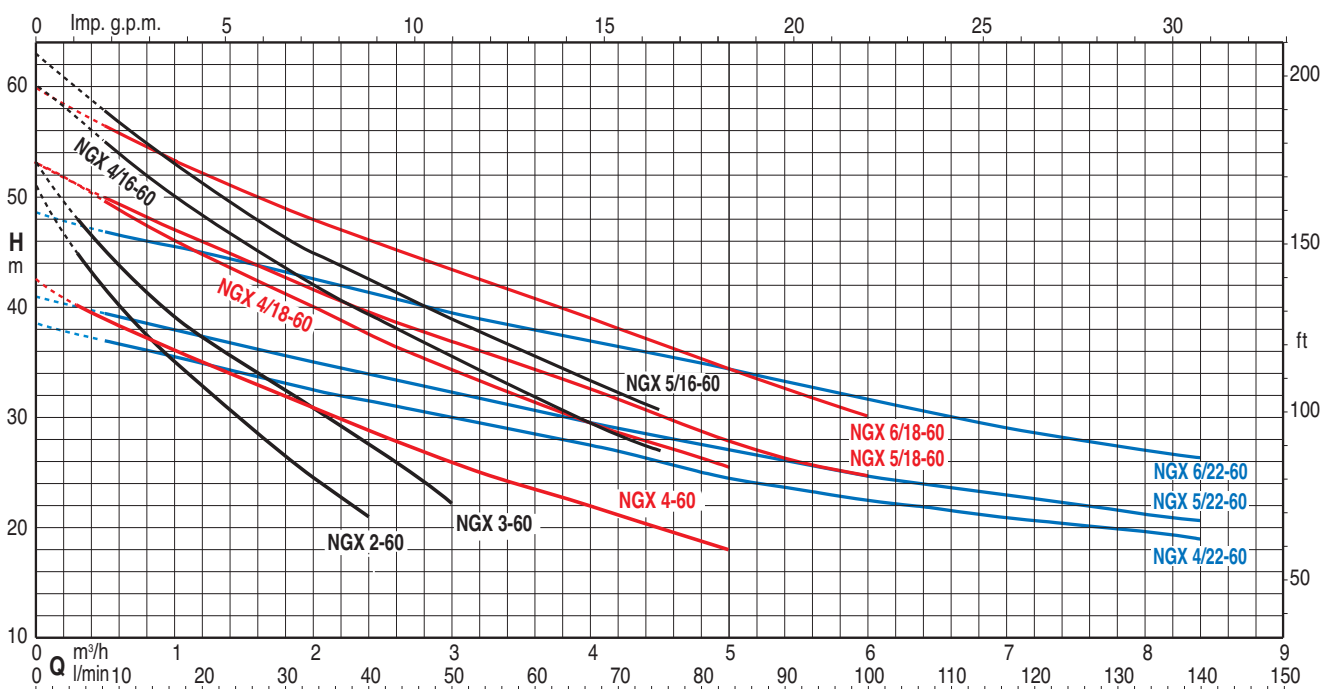
Special features on request

- Other voltages.

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) Cr-Ni steel 1.4305 EN 10088 (AISI 303) for NGX 5,6 |
| Mechanical seal | Carbon - Ceramic - NBR |

Characteristic curve n ≈ 3450 rpm



Technical data $n \approx 3450$ rpm

| 3~ | 220V 380V | | | 1~ | 220V | | P1 | P2 | Q m ³ /h | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-----|-------|--------------|------|-------|------|------|-----------------------|------|------|------|-------|------|------|------|------|------|------|------|------|----|------|----|-----|---|---|
| | A | A | IA/IN | | A | IA/IN | | | | kW | kW | HP | l/min | 0 | 0,3 | 1 | 2 | 2,4 | 3 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 | 8 |
| NGX 2-60 | 3,5 | 2 | 4,8 | NGXM 2-60 | 4,1 | 3 | 0,8 | 0,45 | 0,6 | 51 | 45 | 35 | 24,5 | 21 | | | | | | | | | | | | | |
| NGX 3-60/A | 3,3 | 1,9 | 4,3 | NGXM 3-60/A | 5 | 3,3 | 0,95 | 0,55 | 0,75 | 53 | 48 | 39,5 | 31 | 28 | 22 | | | | | | | | | | | | |
| NGX 4-60/A | 4,5 | 2,6 | 6,8 | NGXM 4-60/A | 6,2 | 3,2 | 1,1 | 0,75 | 1 | 42,5 | 40 | 36 | 31 | 29 | 26 | 22 | 20 | 18 | | | | | | | | | |
| NGX 4/16-60 | 5,6 | 3,2 | 4,1 | NGXM 4/16-60 | 8 | 4,2 | 1,6 | 1,1 | 1,5 | 60 | 57 | 50 | 42 | 39,3 | 35,5 | 29,5 | 27 | | | | | | | | | | |
| NGX 4/18-60 | 5,6 | 3,2 | 4,1 | NGXM 4/18-60 | 8 | 4,2 | 1,6 | 1,1 | 1,5 | 53 | 51 | 46 | 40 | 37,5 | 34,3 | 29,5 | 27,5 | 25,5 | | | | | | | | | |
| NGX 4/22-60 | 5,6 | 3,2 | 4,1 | NGXM 4/22-60 | 8 | 4,2 | 1,6 | 1,1 | 1,5 | 38,5 | 37,5 | 35,5 | 32,5 | 31,5 | 30 | 27,5 | 26 | 24,5 | 23,5 | 22,5 | 21,8 | 21 | 19,7 | 19 | | | |

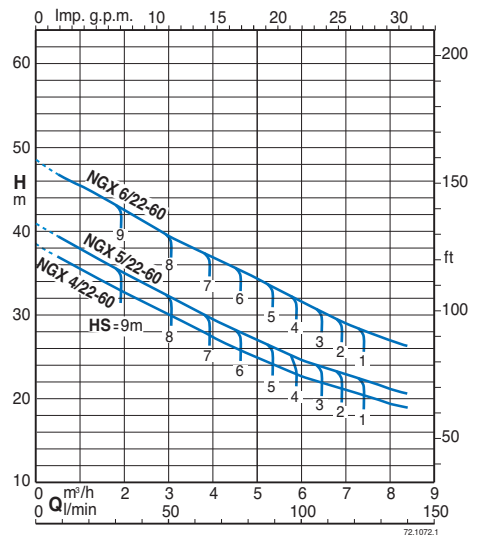
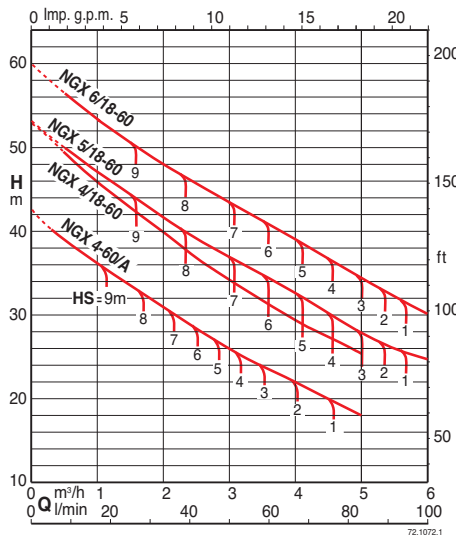
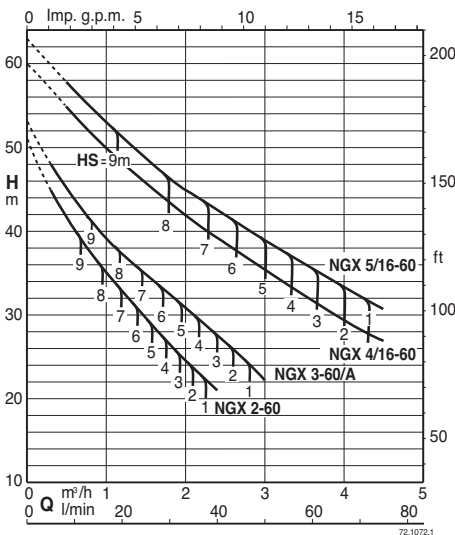
| 3~ | 220V 380V | | | 1~ | 220V | | P1 | P2 | Q m ³ /h | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-----|-------|--------------|------|-------|-----|-----|-----------------------|------|------|------|-------|------|------|------|------|------|------|------|------|------|-----|------|-----|---|---|
| | A | A | IA/IN | | A | IA/IN | | | | kW | kW | HP | l/min | 0 | 0,5 | 1 | 2 | 2,4 | 3 | 4 | 4,5 | 5 | 5,5 | 6 | 6,5 | 7 | 8 |
| NGX 5/16-60 | 5,7 | 3,3 | 5,5 | NGXM 5/16-60 | 8,5 | 3 | 1,7 | 1,1 | 1,5 | 63 | 58 | 53 | 44,5 | 42 | 38,7 | 33,3 | 30,8 | | | | | | | | | | |
| NGX 5/18-60 | 5,7 | 3,3 | 5,5 | NGXM 5/18-60 | 8,5 | 3 | 1,7 | 1,1 | 1,5 | 53 | 49,8 | 46,8 | 41,7 | 39,7 | 37 | 32,7 | 30,5 | 28 | 26,2 | 24,7 | | | | | | | |
| NGX 5/22-60 | 5,7 | 3,3 | 5,5 | NGXM 5/22-60 | 8,5 | 3 | 1,7 | 1,1 | 1,5 | 41 | 39,5 | 38 | 35 | 34 | 32,3 | 29,5 | 28,2 | 26,7 | 25,5 | 24,5 | 23,5 | 22,7 | 21 | 20,5 | | | |
| NGX 6/18-60 | 9 | 5,2 | 5,4 | NGXM 6/18-60 | 10,6 | 3,3 | 2,1 | 1,5 | 2 | 59,5 | 56,5 | 53,5 | 48 | 46 | 43,5 | 39 | 36,7 | 34,5 | 32,5 | 30,3 | | | | | | | |
| NGX 6/22-60 | 9 | 5,2 | 5,4 | NGXM 6/22-60 | 10,6 | 3,3 | 2,1 | 1,5 | 2 | 48,5 | 47,2 | 46 | 43 | 42 | 40,3 | 37,5 | 36 | 34,5 | 33 | 32 | 30 | 29 | 27 | 26,3 | | | |

P2 Rated motor power output.

IA/IN = D.O.L. starting current / Rated current

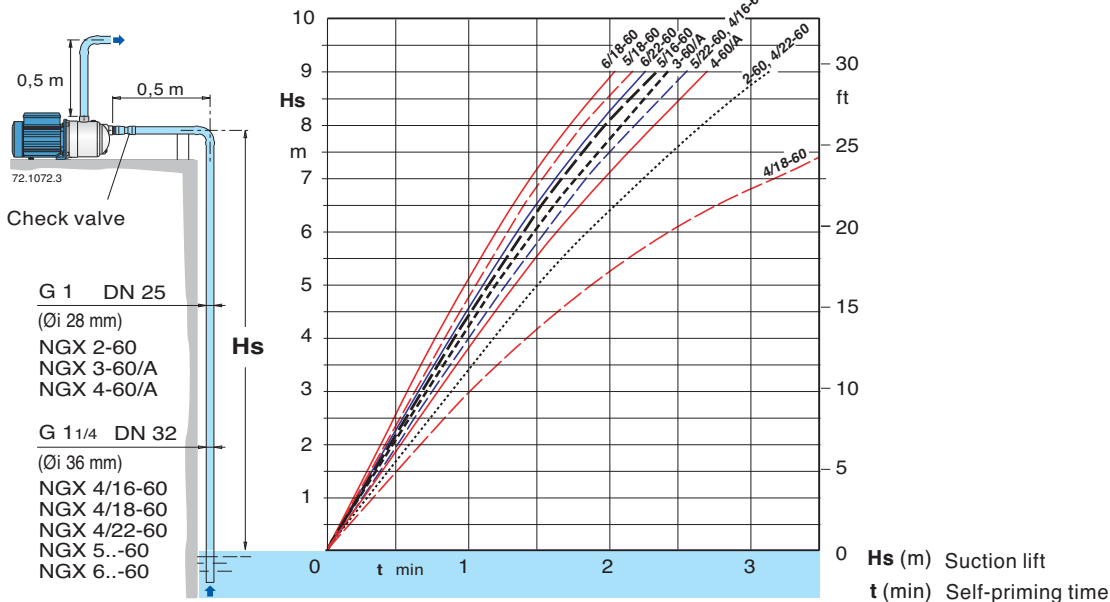
Tolerances according to UNI EN ISO 9906:2012.

Characteristic Curves for different suction lifts Hs



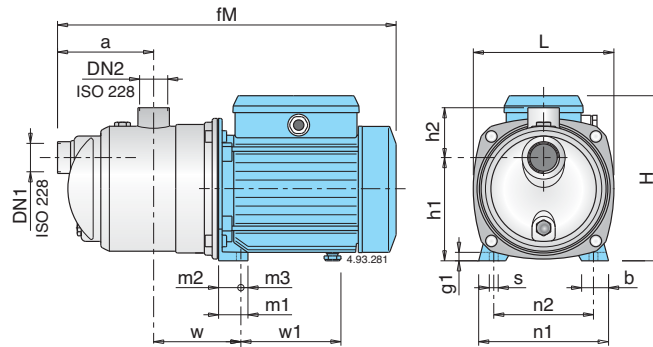
Self-priming capability

60 Hz ($n \approx 3450$ 1/min), H₂O, T = 20°C, P_a = 1000 hPa (mbar)



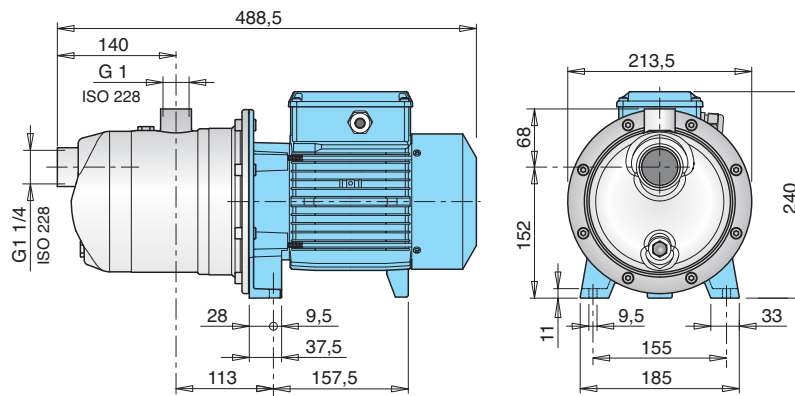
Dimensions and weights

NGX 2-60, 3-60/A, 4-60/A, 4/16-60, 4/18-60, 4/22-60



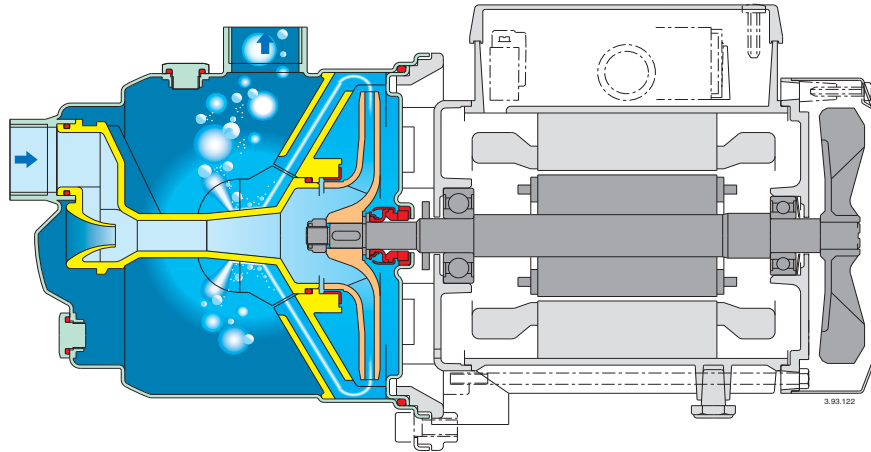
| TYPE | DN1 ISO 228 | DN2 ISO 228 | Dimensions mm | | | | | | | | | | | | | | Net weight kg | | | | |
|--------------------|----------------|----------------|------------------|-----|-----|-----|----|------|-------|------|----|-----|-----|-----|----|-----|------------------|-----|------|------|------|
| | | | fM | a | w | h1 | h2 | H | L | m1 | m2 | m3 | n1 | n2 | b | s | g1 | w1 | NGX | NGXM | |
| NGX 2-60 | G 1 | G 1 | 362 | 115 | 95 | 116 | 61 | 176 | 161 | 33 | 25 | 8 | 146 | 112 | 30 | 9 | 10 | 102 | 7,5 | 7,5 | |
| NGX 3-60/A | | | 391 | | | | | 192 | | | | | | | | | | | 112 | 8,7 | 9,6 |
| NGX 4-60/A | | | 391 | | | | | 192 | | | | | | | | | | | 112 | 9,6 | 10,6 |
| NGX 4/16-60 | G 1 1/4 | G 1 | 462 | 140 | 113 | 152 | 68 | 225 | 213,5 | 37,5 | 28 | 9,5 | 185 | 155 | 33 | 9,5 | 11 | 147 | 14,8 | 14,8 | |
| NGX 4/18-60 | | | 225 | | | | | 14,8 | | | | | | | | | | | 14,8 | | |
| NGX 4/22-60 | | | 225 | | | | | 14,8 | | | | | | | | | | | 14,8 | | |

NGX 5-60, 6-60



| TYPE | Net weight kg | |
|-----------------|------------------|------|
| | NGX | NGXM |
| NGX 5-60 | 15,2 | 16,7 |
| NGX 6-60 | 17,8 | 18,2 |

Features



* Patented

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.

Compact

The NGX 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.

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.