PERFORMANCE RANGE
- Flow rate up to 350 l/min (21 m³/h)
- Head up to 20 m

APPLICATION LIMITS
- Manometric suction lift up to 7 m
- Liquid temperature between -10 °C and +90 °C
- Ambient temperature between -10 °C and +40 °C
- Max. working pressure 6 bar
- Passage of suspended solids up to Ø 10 mm
- Continuous service S1

CONSTRUCTION AND SAFETY STANDARDS
- EN 60335-1
- IEC 60335-1
- CEI 61-150
- EN 60034 -1
- IEC 60034 -1
- CEI 2-3
- EU REGULATION N. 547/2012

INSTALLATION AND USE
Suitable for use with liquids that are not chemically aggressive towards the materials from which the pump is made. The open impeller design allows liquids containing relatively high levels of impurities to be pumped without the risk of the impeller clogging. Because of these characteristics the NGA series pumps are used specifically in industry and for transferring water from canals, rivers, reservoirs, tanks, etc. Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

PATENTS - TRADE MARKS - MODELS
- Registered EU Design n. 002098434

OPTIONS AVAILABLE ON REQUEST
- Special mechanical seal
- Other voltages or 60 Hz frequency

CERTIFICATIONS
Company with management system certified DNV
ISO 9001: QUALITY
CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz  n= 2900 min⁻¹  HS= 0 m

<table>
<thead>
<tr>
<th>MODEL</th>
<th>POWER (P₂) kW</th>
<th>POWER (P₂) HP</th>
<th>MEI≥ 0.40</th>
<th>Q m³/h</th>
<th>Q l/min</th>
<th>η = 65%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase</td>
<td>Three-phase</td>
<td></td>
<td></td>
<td>0</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>NGAm 1B NGA 1B</td>
<td>0.55</td>
<td>0.75</td>
<td>IE3</td>
<td>18</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>NGAm 1A NGA 1A</td>
<td>0.75</td>
<td>1</td>
<td></td>
<td>20</td>
<td>19.5</td>
<td>18</td>
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</table>

Q = Flow rate  H = Total manometric head  HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three-phase motor efficiency class (IEC 60034-30-1)
POS. COMPONENT | CONSTRUCTION CHARACTERISTICS
--- | ---
1 | **PUMP BODY** Cast iron complete with threaded ports in compliance with ISO 228/1
2 | **BODY BACKPLATE** Stainless steel AISI 304
3 | **IMPELLER** Open impeller in stainless steel AISI 316
4 | **MOTOR SHAFT** Stainless steel AISI 431
5 | **MECHANICAL SEAL**
   - **Seal**
   - **Shaft**
   - **Materials**
   - Model | Diameter | Stationary ring | Rotational ring | Elastomer
   - AR-14 | Ø 14 mm | Ceramic | Graphite | NBR
6 | **BEARINGS** 6203 ZZ / 6203 ZZ
7 | **CAPACITOR**
   - **Pump**
   - **Capacitance**
   - Single-phase (230 V or 240 V) (110 V)
   - NGAm 1B | 16 µF - 450 VL | 60 µF - 300 VL
   - NGAm 1A | 20 µF - 450 VL | 60 µF - 300 VL
8 | **ELECTRIC MOTOR** NGAm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.
   - NGA: three-phase 230/400 V - 50 Hz.
   - The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)
   - Insulation: class F
   - Protection: IP X4
### DIMENSIONS AND WEIGHT

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PORTS</th>
<th>DIMENSIONS mm</th>
<th>kg</th>
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<tbody>
<tr>
<td>Single-phase</td>
<td>Three-phase</td>
<td>DN1</td>
<td>DN2</td>
</tr>
<tr>
<td>NGAm 1B</td>
<td>NGA 1B</td>
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<td>1½”</td>
</tr>
<tr>
<td>NGAm 1A</td>
<td>NGA 1A</td>
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### ABSORPTION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
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<tr>
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<td>230 V</td>
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<tr>
<td>NGAm 1B</td>
<td>5.6 A</td>
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<td>NGAm 1A</td>
<td>6.2 A</td>
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<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
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<td>Three-phase</td>
<td>230 V</td>
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<tr>
<td>NGA 1B</td>
<td>3.3 A</td>
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<tr>
<td>NGA 1A</td>
<td>3.7 A</td>
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