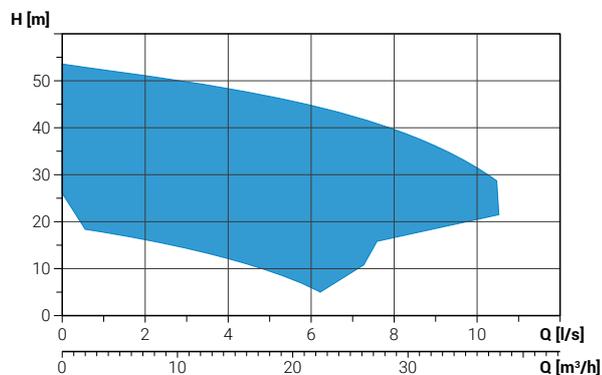


## High head impeller

### Operating ranges



### Range characteristics

|                      |                          |
|----------------------|--------------------------|
| Motor power          | 1.8 ÷ 7.5 kW             |
| Poles                | 2                        |
| Insulation class     | H                        |
| Degree of protection | IP68                     |
| Discharge vertical   | -                        |
| Discharge horizontal | G1 ½" DN32 - G2" DN32-50 |
| Free passage         | max 10 mm                |
| Max flow rate        | 10.5 l/s                 |
| Max head             | 52.0 m                   |

### Motor

Ecological dry motor with thermal protections.

### Cable

S1RN8-F electric cable. Standard version 10 m cable length.

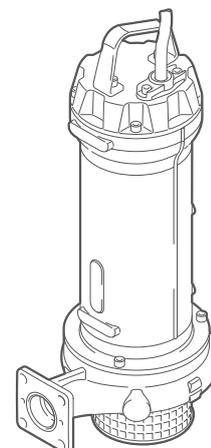
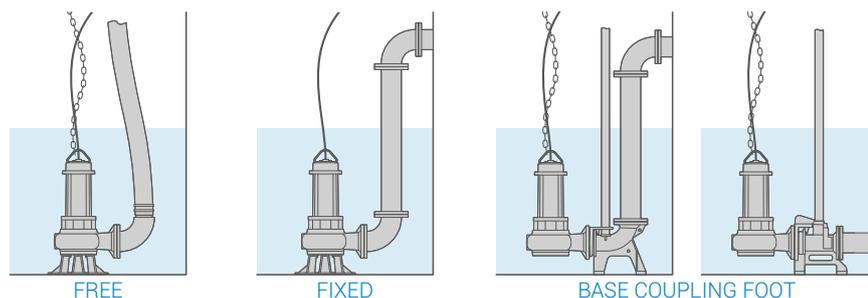
### Mechanical seals

Two silicon carbide (SiC) mechanical seals in oil sump.

### Applications

The considerable manometric head guarantees excellent results for the creation of water features and decorative fountains; suitable for use in agriculture, irrigation and the fish processing sector.

### Installations



### Versions

|                     |         |
|---------------------|---------|
| Electrical variants | NAE, TS |
| Cooling system      | N       |
| Mechanical seals    | 2SIC    |

### Operating specifications

|                            |          |
|----------------------------|----------|
| Max operating temperature  | 40 °C    |
| PH of treated fluid        | 6 ÷ 14   |
| Viscosity of treated fluid | 1 mm²/s  |
| Maximum immersion depth    | 20 m     |
| Density of treated fluid   | 1 Kg/dm³ |
| Acoustic pressure max      | <70dB    |
| Max starts per hour        | 30       |

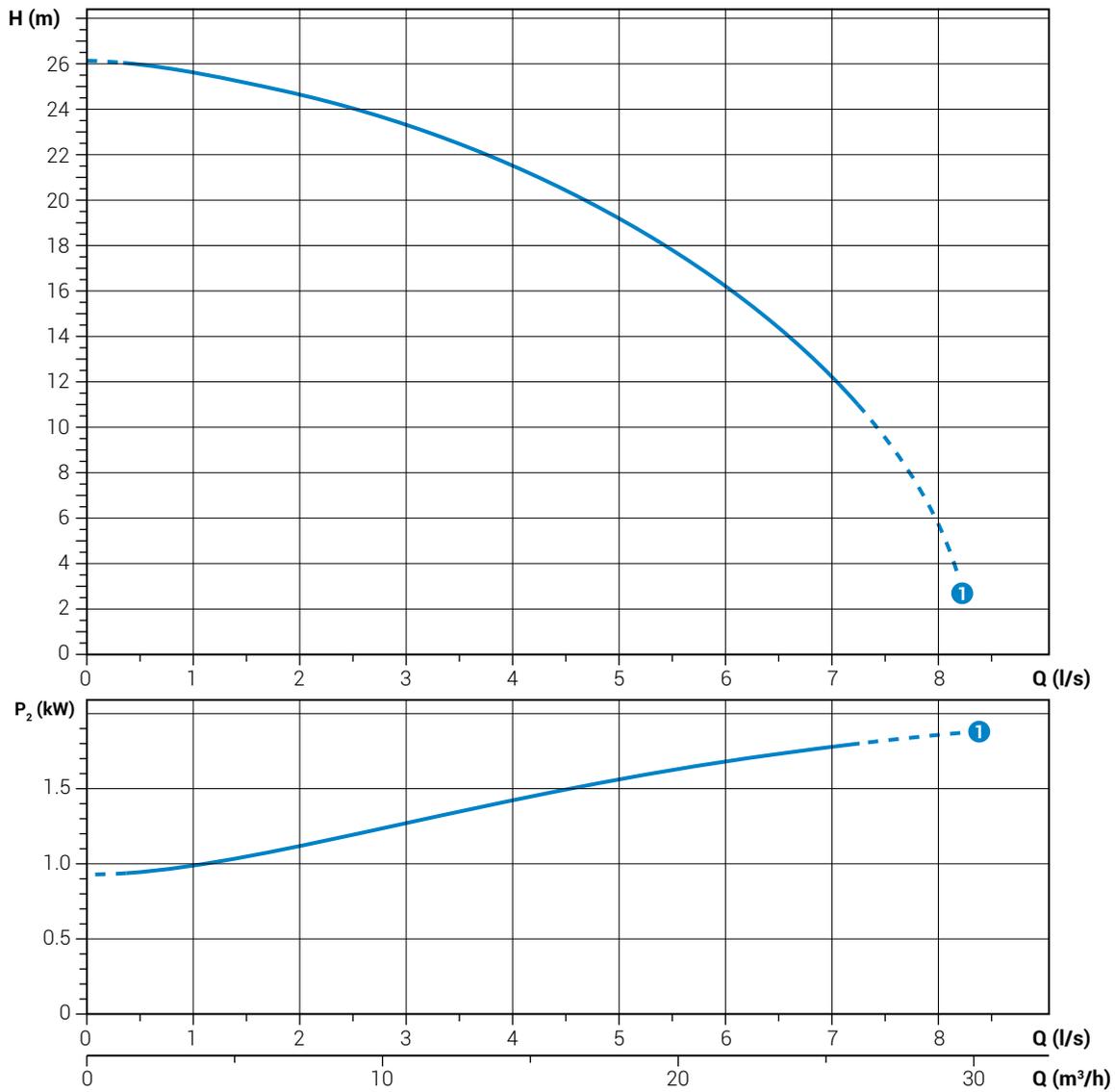
### Construction materials

|                 |   |
|-----------------|---|
| Case            | Cast iron EN-GJL 250                    |
| Hydraulic parts | Cast iron EN-GJL 250                    |
| Impeller        | Cast iron EN-GJL 250                    |
| Nuts and bolts  | Stainless steel - Class A2-70           |
| Standard gasket | Rubber - NBR                            |
| Shaft           | Stainless steel - AISI 431              |
| Paint type      | Ecological bicomponent epoxy (~ 200 µm) |
| Cutter          | -                                       |
| Strainer        | Stainless steel - AISI 304              |

# APG 250/2/G40H

## Performances

|                        | l/s               | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    |
|------------------------|-------------------|------|------|------|------|------|------|------|------|
|                        | l/min             | 0    | 60   | 120  | 180  | 240  | 300  | 360  | 420  |
|                        | m <sup>3</sup> /h | 0    | 3.6  | 7.2  | 10.8 | 14.4 | 18   | 21.6 | 25.2 |
| ① APG 250/2/G40H A0AT5 |                   | 26.0 | 25.7 | 24.6 | 23.3 | 21.6 | 19.2 | 16.2 | 12.3 |



Characteristic curves according to UNI/EN ISO 9906

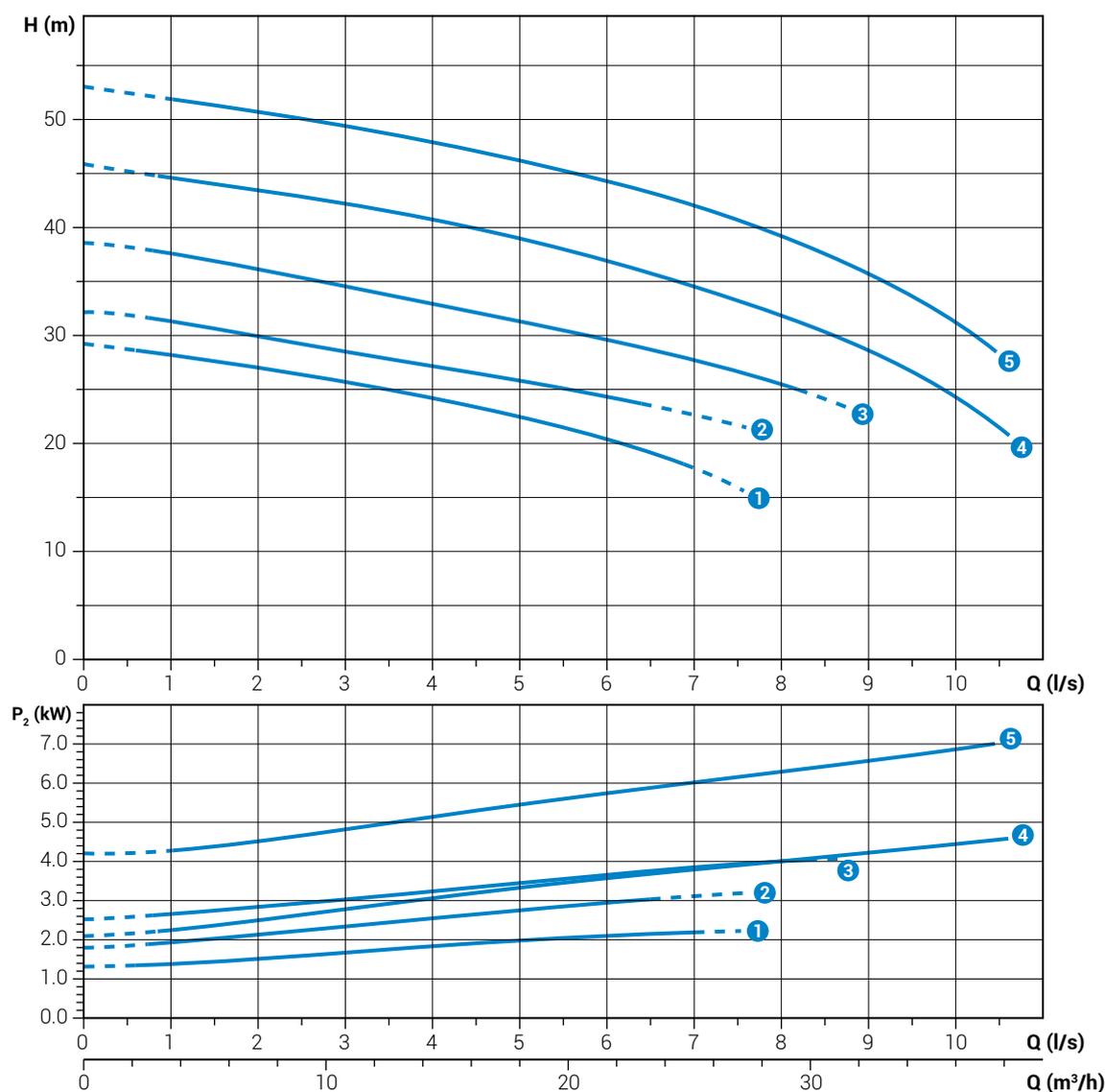
## Technical data

|                        | V   | 1~<br>3~ | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | A   | Rpm  | DOL<br>Y/Δ |  |  |  |
|------------------------|-----|----------|---------------------|---------------------|-----|------|------------|---|---|---|
| ① APG 250/2/G40H A0AT5 | 400 | 3~       | 2.2                 | 1.8                 | 3.7 | 2900 | DOL        | 4G1   | G1½" DN32   | 10 mm   |

# APG 300÷1000/2/G50H

## Performances

|   | l/s                   | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
|---|-----------------------|------|------|------|------|------|------|------|------|------|------|------|
|   | l/min                 | 0    | 60   | 120  | 180  | 240  | 300  | 360  | 420  | 480  | 540  | 600  |
|   | m <sup>3</sup> /h     | 0    | 3.6  | 7.2  | 10.8 | 14.4 | 18   | 21.6 | 25.2 | 28.8 | 32.4 | 36   |
| ① | APG 300/2/G50H C0ET5  | 29.2 | 28.2 | 27.0 | 25.6 | 24.1 | 22.5 | 20.4 | 17.6 |      |      |      |
| ② | APG 400/2/G50H D0ET5  | 32.2 | 31.4 | 29.9 | 28.5 | 27.2 | 25.9 | 24.4 |      |      |      |      |
| ③ | APG 550/2/G50H D0FT5  | 38.6 | 37.6 | 36.1 | 34.5 | 32.9 | 31.3 | 29.6 | 27.7 | 25.4 |      |      |
| ④ | APG 750/2/G50H A0FT5  | 45.8 | 44.5 | 43.5 | 42.2 | 40.7 | 38.9 | 36.8 | 34.5 | 31.8 | 28.6 | 24.2 |
| ⑤ | APG 1000/2/G50H A0FT5 | 53.0 | 51.8 | 50.7 | 49.4 | 48.0 | 46.3 | 44.3 | 42.0 | 39.2 | 35.8 | 31.2 |

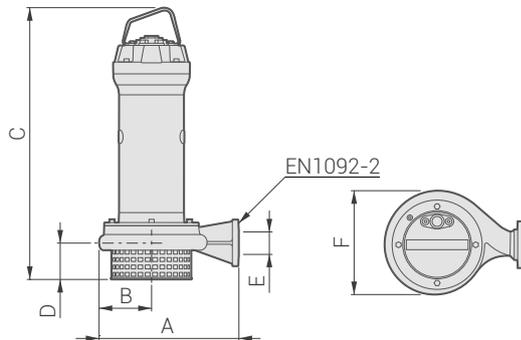


## Technical data

|   | V                     | 1~<br>3~ | P <sub>1</sub> [kW] | P <sub>2</sub> [kW] | A   | Rpm  | DOL<br>Y/Δ |  |  |  |       |
|---|-----------------------|----------|---------------------|---------------------|-----|------|------------|---|---|---|-------|
| ① | APG 300/2/G50H C0ET5  | 400      | 3~                  | 2.8                 | 2.2 | 4.6  | 2900       | DOL   | 4G1.5+3x1   | G2" DN32  | 8 mm  |
| ② | APG 400/2/G50H D0ET5  | 400      | 3~                  | 3.7                 | 3.0 | 6.4  | 2900       | DOL   | 4G1.5+3x1   | G2" DN32  | 8 mm  |
| ③ | APG 550/2/G50H D0FT5  | 400      | 3~                  | 4.7                 | 4.0 | 7.7  | 2900       | DOL   | 4G1.5+3x1   | G2" DN32  | 8 mm  |
| ④ | APG 750/2/G50H A0FT5  | 400      | 3~                  | 6.3                 | 5.5 | 10.8 | 2900       | DOL   | 4G1.5+3x1   | G2" DN32  | 10 mm |
| ⑤ | APG 1000/2/G50H A0FT5 | 400      | 3~                  | 8.5                 | 7.5 | 13.7 | 2900       | DOL   | 4G1.5+3x1   | G2" DN32  | 10 mm |

# APG

## Overall dimensions and weights



|                       | A   | B   | C   | D  | E     | F   |  |  |
|-----------------------|-----|-----|-----|----|-------|-----|--|---|
| APG 250/2/G40H A0AT5  | 267 | 107 | 523 | 78 | G 1½" | 215 | DN32 PN6   | 32.0  |
| APG 300/2/G50H C0ET5  | 305 | 110 | 550 | 79 | G 2"  | 225 | DN32 PN6   | 43.2  |
| APG 400/2/G50H D0ET5  | 352 | 132 | 613 | 76 | G 2"  | 263 | DN50 PN6   | 46.0  |
| APG 550/2/G50H D0FT5  | 352 | 132 | 670 | 76 | G 2"  | 263 | DN50 PN6   | 57.6  |
| APG 750/2/G50H A0FT5  | 352 | 128 | 669 | 76 | G 2"  | 263 | DN50 PN6   | 60.3  |
| APG 1000/2/G50H A0FT5 | 352 | 128 | 744 | 76 | G 2"  | 263 | DN50 PN6   | 68.2  |

Dimensions in mm

## Packaging dimension



|                       | X   | Y   | Z   |
|-----------------------|-----|-----|-----|
| APG 250/2/G40H A0AT5  | 310 | 580 | 310 |
| APG 300/2/G50H C0ET5  | 445 | 725 | 425 |
| APG 400/2/G50H D0ET5  | 445 | 725 | 425 |
| APG 550/2/G50H D0FT5  | 445 | 725 | 425 |
| APG 750/2/G50H A0FT5  | 445 | 725 | 425 |
| APG 1000/2/G50H A0FT5 | 535 | 915 | 560 |

Dimensions in mm