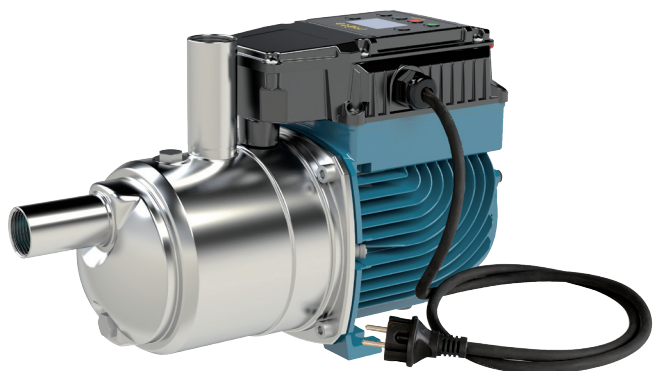




**EASY TO INSTALL**  
Plug And play solution



**ECONOMIC SAVING**  
High efficiency asynchronous motor  
Up to 900kWh less energy per year compared to a standard solution\*  
\* in home use of 5 hours per day



**EASY TO USE**  
Equipped with a programmable software and, thanks to the analogic pressure sensor, the product allows to set the restart pressure.



**CALPEDA FLOW**  
Bluetooth connection for pump control with CALPEDA FLOW app

Variable speed pressure systems  
boosting system  
with integrated control



## Construction

Self-priming booster set with built in frequency converter.

MÉTA is a plug and play solution, the pump is equipped with an integrated pressure transducer, an integrated check valve and a built-in pressure vessel.

The Vsd controls the start and stop of the pump and allows to keep a constant pressure.

Boosting sets with 2 pumps include:

- Suction and delivery manifolds in stainless steel AISI 304.
- Connections for the installation of one G 1" connection pressure vessel

## Applications

For water supply systems.

For domestic use, for garden use and irrigation.

## Features

- integrated frequency converter
- built-in pressure vessel
- high efficiency asynchronous motor
- motor power control
- programmable re-start pressure
- no hydraulic losses due to the measuring devices
- voltage and current control
- monitoring of maximum starting current

## Bluetooth connection for pump control with CALPEDA FLOW app

Calpeda Flow empowers installers and pump users with:

- Monitor and understand your pump's performance in real-time.
- Optimize energy consumption and identify potential inefficiencies.
- Proactively address issues with detailed alerts and historical data.
- Facilitate faster troubleshooting and communication with service teams.
- Monitor your pumps from anywhere, anytime.

**On request:** WIFI-BOX device for WIFI connection.

## Protections

- dry-run protection
- detects the presence of air in the pump casing
- overload control and overheating motor control
- pump blockage
- power supply control
- starts per hour control
- detects small leakages in the system

## 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.

Rated speed 5800 rpm (5600 rpm for MÉTA-2)

Motor: variable speed

Frequency: 50-60 Hz

Single-phase 220-240V~50Hz/220V~60Hz, with thermal protector.

Cable: H07RN8-F, 3G1,5 mm<sup>2</sup>, length 1,5 m, with plug

CEI-UNEL 47166.

Insulation class F.

Protection IP X4.

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

## Materials

| Components       | Material                               |
|------------------|----------------------------------------|
| Pump casing      | Cr-Ni steel 1.4301 EN 10088 (AISI 304) |
| Casing cover     | Cr-Ni steel 1.4301 EN 10088 (AISI 304) |
| Pump shaft       | Cr-Ni steel 1.4305 EN 10088 (AISI 303) |
| Suction casing   | PPO-GF20 (Noryl)                       |
| Stage casing     | Cr-Ni steel 1.4301 EN 10088 (AISI 304) |
| Impeller         | Cr-Ni steel 1.4301 EN 10088 (AISI 304) |
| Tank membrane    | Butyl                                  |
| Tank cover       | POM - POLYACETAL                       |
| Membrane cap     | POM - POLYACETAL                       |
| Non-return valve | POM - POLYACETAL                       |
| Plug             | Cr-Ni steel 1.4305 EN 10088 (AISI 303) |
| Mechanical seal  | Carbon - Ceramic - NBR                 |

## Performance

### Single-phase

|              |      |      | Q = Flow           |      |    |      |      |      |      |      |      |
|--------------|------|------|--------------------|------|----|------|------|------|------|------|------|
|              |      |      | m³/h               | 0    | 1  | 2    | 3    | 4    | 5    | 6    | 7    |
| Model        | 230V | P1   | l/min              |      |    | 16,6 | 33,3 | 50   | 66,6 | 83,3 | 100  |
|              | A    | kW   | H (m) = Total head |      |    |      |      |      |      |      |      |
| META SMALL-2 | 2,8  | 0,65 |                    | 55   | 50 | 37,3 | 28,5 | 20,5 | 11,3 | -    | -    |
| META-2       | 4,4  | 1    |                    | 53,3 | -  | 48,1 | 42,6 | 35,9 | 29,1 | 22,8 | 15,9 |

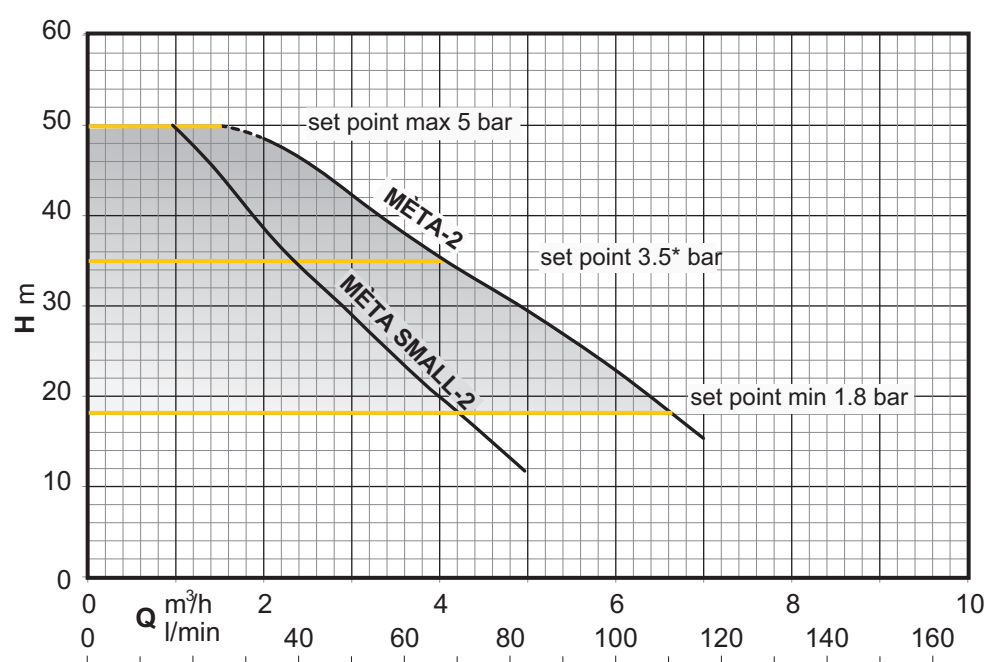
P1: Maximum power input.

H: Total head in m

Test results with clean cold water, without gas content.

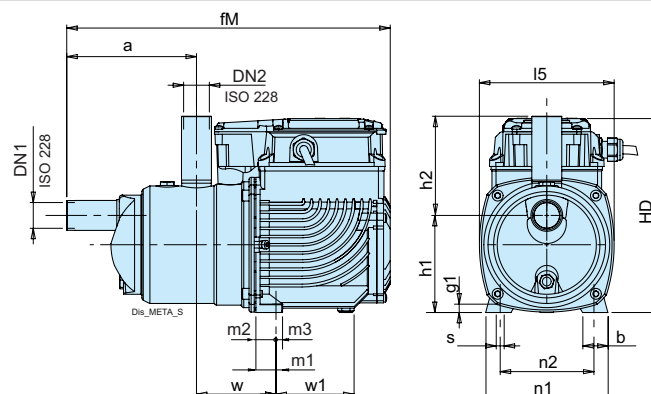
Tolerances according to UNI EN ISO 9906:2012

### Characteristic curves



\* Factory settings

### Dimensions and weight



| TYPE         |     |     | mm  |    |     |    |     |     |     |     |    |    |    |     |       |   |    | kg |        |
|--------------|-----|-----|-----|----|-----|----|-----|-----|-----|-----|----|----|----|-----|-------|---|----|----|--------|
|              | DN1 | DN2 | a   | b  | fM  | g1 | h1  | h2  | HD  | l5  | m1 | m2 | m3 | n1  | n2    | s | w  | w1 | Weight |
| MÈTA SMALL-2 | G 1 | G 1 | 155 | 30 | 387 | 10 | 116 | 119 | 232 | 161 | 33 | 25 | 8  | 146 | 112.5 | 9 | 95 | 93 | -      |
| MÈTA-2       | G 1 | G 1 | 155 | 30 | 387 | 10 | 116 | 124 | 237 | 161 | 33 | 25 | 8  | 146 | 112.5 | 9 | 95 | 93 | 9.9    |

Weight with cable length: 1,5 m

Performance

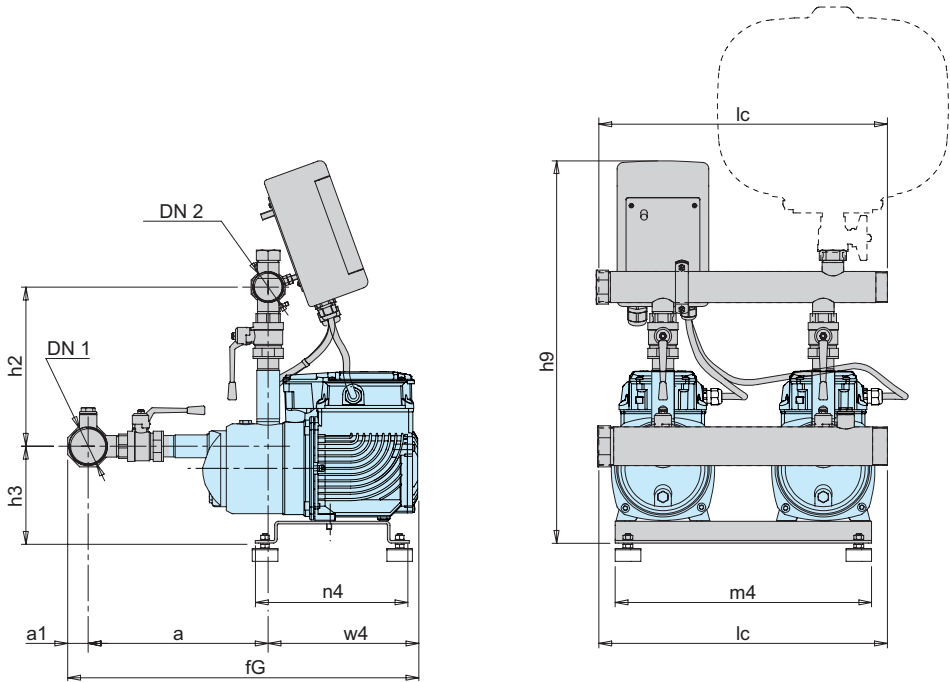
Single-phase

|                      |         |          | Q = Flow           |      |      |      |      |      |      |      |      |
|----------------------|---------|----------|--------------------|------|------|------|------|------|------|------|------|
|                      |         |          | m³/h               | 0    | 2    | 4    | 6    | 8    | 10   | 12   | 14   |
| Model                | 230V    | P1       | l/min              |      | 33,3 | 66,6 | 100  | 133  | 167  | 200  | 233  |
|                      | A       | kW       | H (m) = Total head |      |      |      |      |      |      |      |      |
| BSM2V 2 META SMALL-2 | 2 X 2,8 | 2 X 0.65 |                    | 55   | 50   | 37,3 | 28,5 | 20,5 | 11,3 | -    | -    |
| BSM2V 2 META-2       | 2 X 4,4 | 2 X 1    |                    | 53,3 | -    | 48,1 | 42,6 | 35,9 | 29,1 | 22,8 | 15,9 |

P1: Maximum power input.  
H: Total head in m

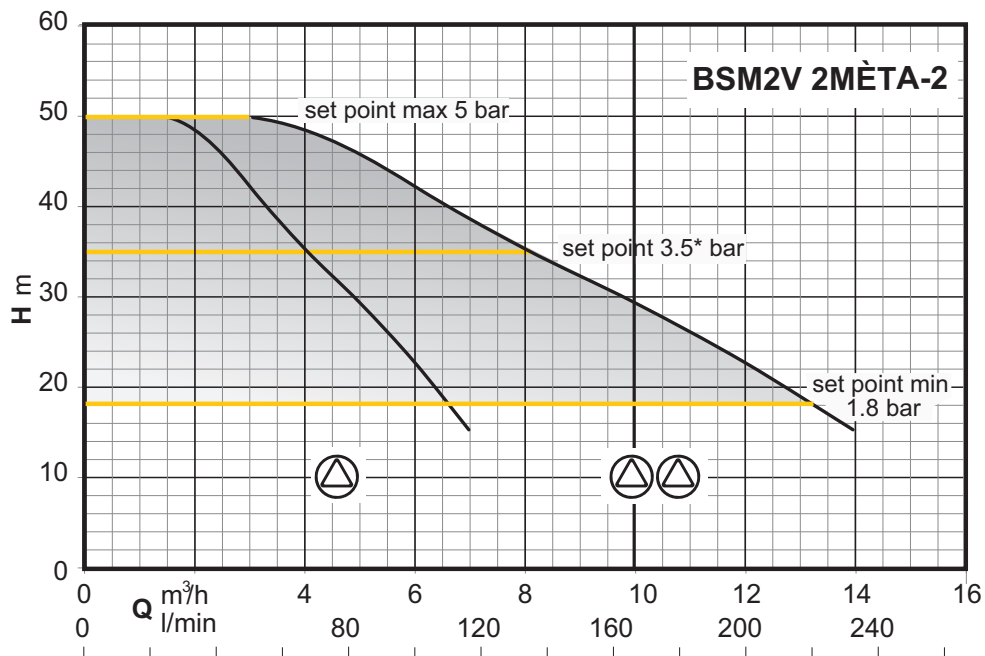
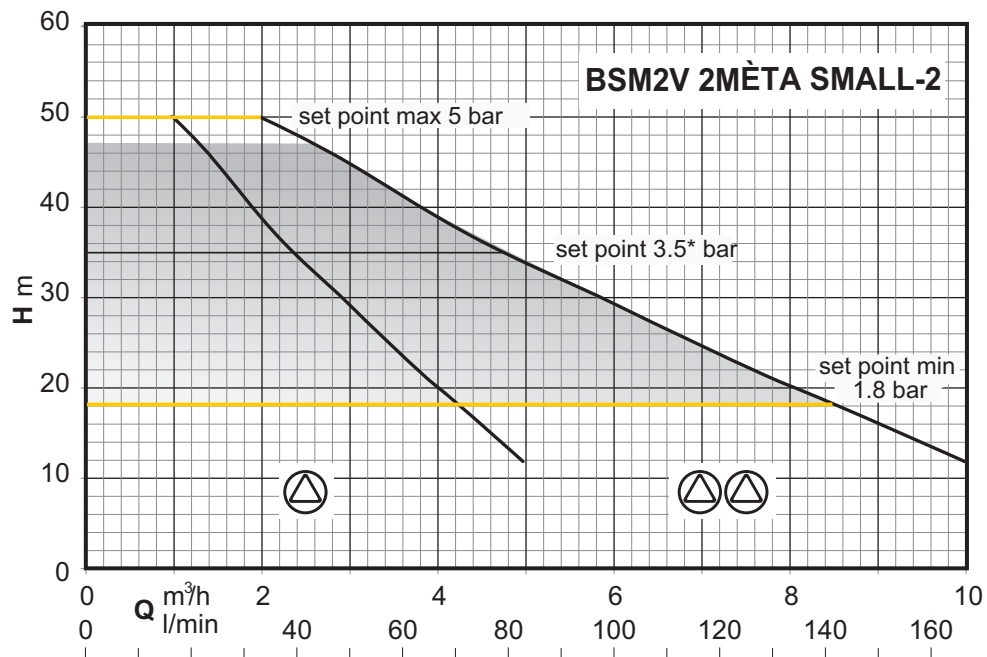
Test results with clean cold water, without gas content.  
Tolerances according to UNI EN ISO 9906:2012

Dimensions and weight



| TYPE                 |     |         | mm  |    |     |     |     |     |     |     |     |     | kg     |
|----------------------|-----|---------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
|                      | DN1 | DN2     | a   | a1 | fG  | h2  | h3  | h9  | lc  | m4  | n4  | w4  | Weight |
| BSM2V 2 MÈTA SMALL-2 | G 2 | G 1 1/2 | 291 | 32 | 555 | 248 | 152 | 595 | 450 | 400 | 240 | 285 | 31.7   |
| BSM2V 2 META-2       | G 2 | G 1 1/2 | 291 | 32 | 554 | 254 | 152 | 599 | 450 | 400 | 240 | 232 | -      |

## Characteristic curves



\* Factory settings

## Control Panel



The control panel allows:

- Initial screen (rUn, OFF, Stb, Err)
- Motor Operating Frequency
- Delivery pressure measured by the transducer
- Supply current input
- Supply electrical power input
- Supply voltage

## calpeda flow

Calpeda flow is an intuitive app designed for monitoring and full control of Meta

