

## MAGNA3 circulator pump



TM05 5751 3912

The Grundfos MAGNA3 circulator pumps are designed for circulating liquids in systems with variable flow requirements where you want to optimise the setting of the pump duty point, thus reducing energy costs.

### Applications

- heating systems
  - main pump
  - mixing loops
  - heating surfaces
- air-conditioning and cooling systems
- domestic hot-water systems
- ground-source heat pump systems
- solar-heating systems.

The MAGNA3 circulator pump is perfect for both new systems and as replacement. The pump is ideal when operating in systems requiring an automated adjustment of pressure.

The MAGNA3 pump range is the best choice as it eliminates the need for expensive bypass valves and similar components.

Furthermore, the pump is appropriate for systems with hot-water priority, as an external signal can force the pump to immediately operate according to the maximum curve, for example in solar-heating systems.

### Characteristic features

- AUTO<sub>ADAPT</sub>
- FLOW<sub>LIMIT</sub>
- FLOW<sub>ADAPT</sub> - a combination of the AUTO<sub>ADAPT</sub> control mode and FLOW<sub>LIMIT</sub> function
- built-in Grundfos differential-pressure and temperature sensor
- proportional-pressure control
- constant-pressure control
- constant-temperature control
- constant-curve duty
- maximum or minimum curve duty
- automatic night setback
- self-explanatory user interface with TFT display and high quality silicone push-buttons
- heat energy monitor
- multipump function
- complete range available for a maximum system pressure of 16 bar, PN 16.

### Benefits

- Low energy consumption due to the AUTO<sub>ADAPT</sub> function allowing the pump to automatically adapt to system characteristics, such as outside temperatures and consumption patterns
- simple installation
- no maintenance and long life
- operating log history
- easy and simple system optimisation
- external control and monitoring enabled via add-on modules
- no external motor protection required
- insulating shells for heating systems supplied with single-head pumps
- wide temperature range due to thermal separation of the control box and pumped liquid.

### Duty range

| Data                    | MAGNA3 (N)<br>single-head<br>pumps | MAGNA3 D<br>twin-head<br>pumps |
|-------------------------|------------------------------------|--------------------------------|
| Maximum flow rate, Q    | 78.5 m <sup>3</sup> /h             | 150 m <sup>3</sup> /h          |
| Maximum head, H         | 18 m                               |                                |
| Maximum system pressure | 1.6 MPa (16 bar)                   |                                |
| Liquid temperature      | -10 to +110 °C                     |                                |

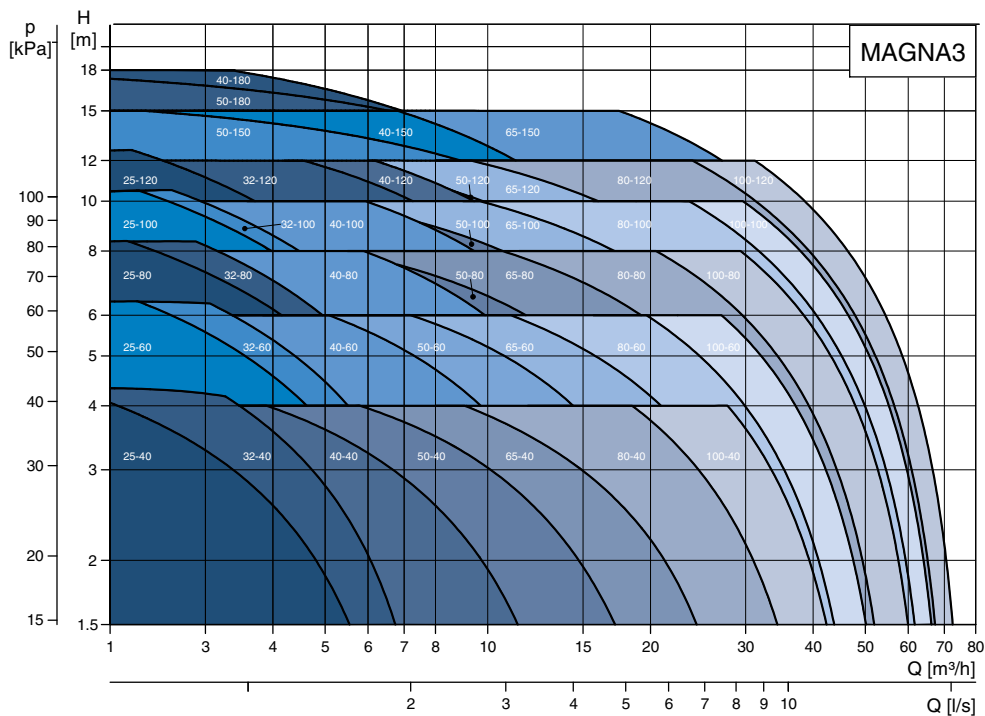
### MAGNA3, cast-iron range

|        | DN 25         | DN 32 | DN 32 F | DN 40 F | DN 50 F | DN 65 F | DN 80 F | DN 100 F |
|--------|---------------|-------|---------|---------|---------|---------|---------|----------|
| xx-40  | [Shaded area] |       |         |         |         |         |         |          |
| xx-60  | [Shaded area] |       |         |         |         |         |         |          |
| xx-80  | [Shaded area] |       |         |         |         |         |         |          |
| xx-100 | [Shaded area] |       |         |         |         |         |         |          |
| xx-120 | [Shaded area] |       |         |         |         |         |         |          |
| xx-150 | [Shaded area] |       |         |         |         |         |         |          |
| xx-180 | [Shaded area] |       |         |         |         |         |         |          |

### MAGNA3, stainless-steel range

|        | DN 25 (N)     | DN 32 (N) | DN 32 F (N) | DN 40 F (N) | DN 50 F (N) | DN 65 F (N) |
|--------|---------------|-----------|-------------|-------------|-------------|-------------|
| xx-40  | [Shaded area] |           |             |             |             |             |
| xx-60  | [Shaded area] |           |             |             |             |             |
| xx-80  | [Shaded area] |           |             |             |             |             |
| xx-100 | [Shaded area] |           |             |             |             |             |
| xx-120 | [Shaded area] |           |             |             |             |             |
| xx-150 | [Shaded area] |           |             |             |             |             |
| xx-180 | [Shaded area] |           |             |             |             |             |

### Performance range, MAGNA3



**Note:** MAGNA3 32-120 is available for flange connection and for threaded connection, but with different performance.

Further product documentation:  
[net.grundfos.com/qr/i/99218286](http://net.grundfos.com/qr/i/99218286)



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 ECM: 1209304

Subject to alterations.