

MAGNA3 circulator pump



TM05 5751 3912

The Grundfos MAGNA3 circulator pumps are designed for circulating liquids in the following systems:

- heating systems
- air-conditioning and cooling systems
- domestic hot-water systems.

The pump range can also be used in the following systems:

- ground source heat pump systems
- solar-heating systems.

Applications

- Main pump
- mixing loops
- domestic hot water
- heating surfaces
- air-conditioning surfaces.

The MAGNA3 circulator pumps are designed for circulating liquids in heating systems with variable flows where you want to optimise the setting of the pump duty point, thus reducing energy costs. The pumps are also suitable for domestic hot-water systems.

To ensure correct operation, it is important that the sizing range of the system falls within the duty range of the pump.

The pump is especially suitable for installation in existing systems where the differential pressure across the pump is too high in periods with reduced flow demand. The pump is also suitable for new systems where automatic adjustment of pump head to actual flow demand is required, without using expensive bypass valves or similar components.

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

Characteristic features

- AUTO_{ADAPT}.
- FLOW_{ADAPT}.
- Proportional-pressure control.
- Constant-pressure control.
- Constant-temperature control.
- Constant-curve duty.
- Maximum or minimum curve duty.
- FLOW_{LIMIT}.
- Automatic night setback.
- No external motor protection required.
- Insulating shells supplied with single-head pumps for heating systems.
- Wide temperature range due to thermal separation of the control box and pump media.

Benefits

- Low energy consumption. The AUTO_{ADAPT} function ensures energy savings.
- FLOW_{ADAPT} which is a combination of the well-known AUTO_{ADAPT} control mode and a new FLOW_{LIMIT} function.
- Built-in Grundfos differential-pressure and temperature sensor.
- Simple installation.
- No maintenance and long life.
- Extended user interface with TFT display.
- Control panel with self-explanatory push-buttons made of high-quality silicone.
- Operating log history.
- Easy system optimisation.
- Heat energy monitor.
- Multipump function.
- External control and monitoring enabled via add-on modules.
- The complete range is available for a maximum system pressure of 16 bar, PN 16.

Duty range

Data	MAGNA3 (N) Single-head pumps	MAGNA3 D Twin-head pumps
Maximum flow rate, Q	78.5 m ³ /h	150 m ³ /h
Maximum head, H	18 metres	
Maximum system pressure	1.6 MPa (16 bar)	
Liquid temperature	-10 to +110 °C	

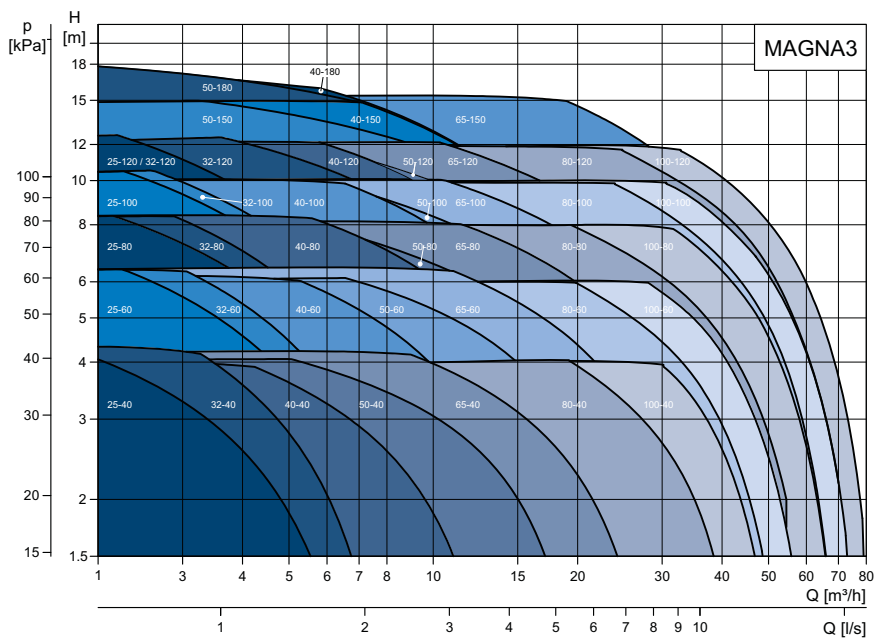
MAGNA3, cast-iron range

	DN 25	DN 32	DN 32 F	DN 40 F	DN 50 F	DN 65 F	DN 80 F	DN 100 F
xx-40								
xx-60								
xx-80								
xx-100								
xx-120								
xx-150								
xx-180								

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						
xx-60						
xx-80						
xx-100						
xx-120						
xx-150						
xx-180						

Performance range, MAGNA3



Note: MAGNA3 32-120 is available both as a flange model and a threaded model but with different performance.

Further product documentation:
net.grundfos.com/qr/i/98091809



TM05 2410 1812

98400957 0916
ECM: 1193068

Subject to alterations.