



### Construction

Horizontal multi-stage close coupled pump. Single-piece barrel casing in cast iron, with front suction port above pumps axis and radial delivery at top. Stages in Noryl.

### Applications

For water supply.  
For domestic use, for garden use and irrigation.

### Operating conditions

Liquid temperature: 0 °C to +50 °C.  
Ambient temperature up to +40 °C.  
Maximum permissible pressure in the pump casing: 8 bar.  
Continuous duty.

### Motor

2-pole induction motor, 50 Hz (n = 2800 rpm).  
**MGP:** three-phase 230/400 V ± 10%.  
**MGPM:** single-phase 230 V ± 10%, with thermal protector.  
Capacitor inside the terminal box.  
Insulation class F.  
Protection IP 54.  
Constructed in accordance with: EN 60034-1;  
EN 60335-1, EN 60335-2-41.

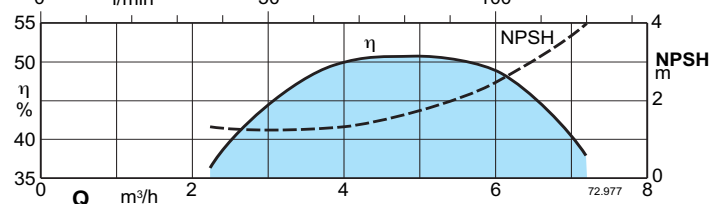
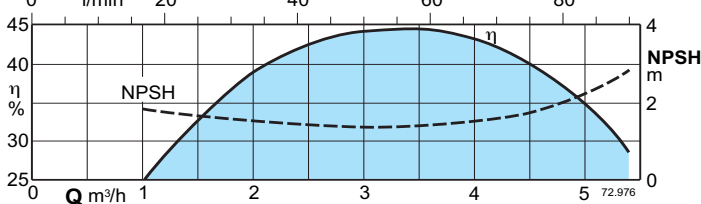
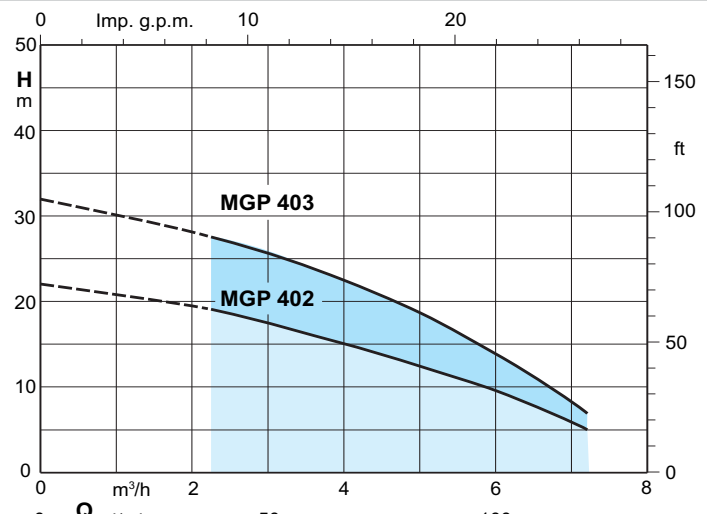
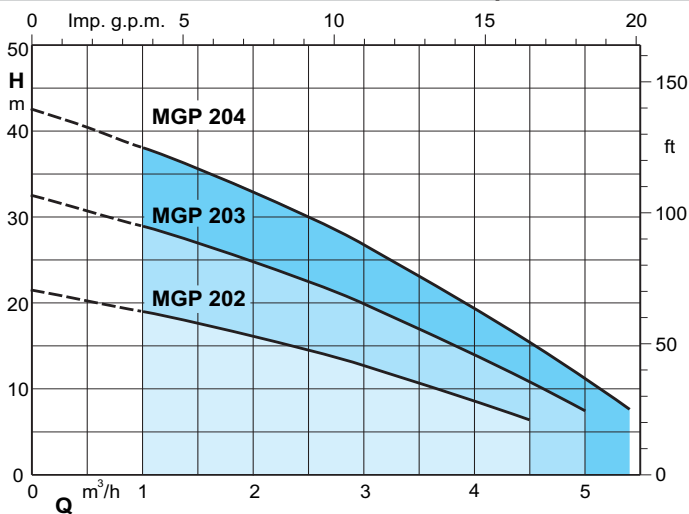
### Materials

Component	Material
Pump casing	Cast iron GJL 200 EN 1561
Casing cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Pump Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)
Stage casing	PPO-GF20 (Noryl)
Impeller	PPO-GF20 (Noryl)
Mechanical seal	Carbon - Ceramic - NBR

### Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).

### Characteristic curves n ≈ 2800 rpm



### Performance $n \approx 2800$ rpm

3 ~	230 V 400 V		1 ~	230 V		P <sub>1</sub>		P <sub>2</sub>		Q	H										
	A	A		A	kW	kW	HP	m <sup>3</sup> /h	l/min		0	1	1,5	2	2,5	3	3,5	4	4,5	5	5,4
<b>MGP 202</b>	1,7	1	<b>MGPM 202</b>	2,3	0,45	0,33	0,45				21,5	19	17,5	16	14,5	12,5	10,5	8,5	6,5		
<b>MGP 203</b>	2,4	1,4	<b>MGPM 203</b>	3	0,63	0,45	0,6				32,5	29	27	25	22,5	20	17	14	11	7,5	
<b>MGP 204</b>	2,8	1,6	<b>MGPM 204</b>	3,3	0,75	0,55	0,75				43	38	35,5	32,7	29,7	26,5	23	19,2	15,2	11	7,5

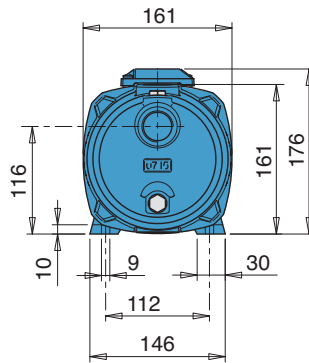
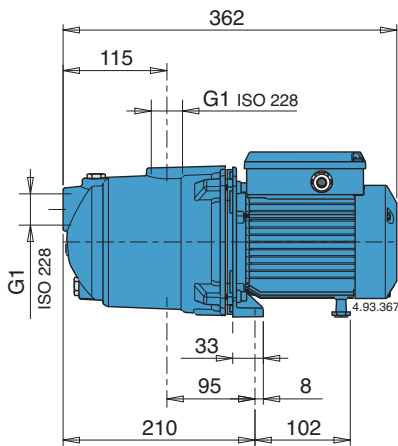
3 ~	230 V 400 V		1 ~	230 V		P <sub>1</sub>		P <sub>2</sub>		Q	H								
	A	A		A	kW	kW	HP	m <sup>3</sup> /h	l/min		0	2,25	3	3,5	4	4,5	5	6	7,2
<b>MGP 402</b>	2,4	1,4	<b>MGPM 402</b>	3	0,61	0,45	0,6				22	19	17,5	16,5	15	14	12,5	9,5	5
<b>MGP 403</b>	3	1,73	<b>MGPM 403</b>	3,5	0,85	0,55	0,75				32	27,5	25,5	23,7	22	20	18	13,3	7

P<sub>1</sub> Max. power input.  
P<sub>2</sub> Rated motor power output.

Test results with clean cold water, without gas content.  
+ 0,5 m security margin on NPSH-value is necessary.

Tolerances according to ISO 9906, annex A.  
For capacities over 4 m<sup>3</sup>/h use a suction pipe G 1 1/4 (DN 32).

### Dimensions and weights



TYPE	Net weight	
	MGP	MGPM
<b>MGP 202 - MGPM 202</b>	8,9	9
<b>MGP 203 - MGPM 203</b>	9,3	9,4
<b>MGP 204 - MGPM 204</b>	10,3	10,4
<b>MGP 402 - MGPM 402</b>	9,5	9,6
<b>MGP 403 - MGPM 403</b>	10,3	10,4

### Features

#### Extra safety

against running dry, with the suction port above pump axis.

#### Robust

Single-piece barrel casing.

#### Compact

Single-piece lantern bracket and base.

#### Low noise

with the water-filled shroud around the stages.

