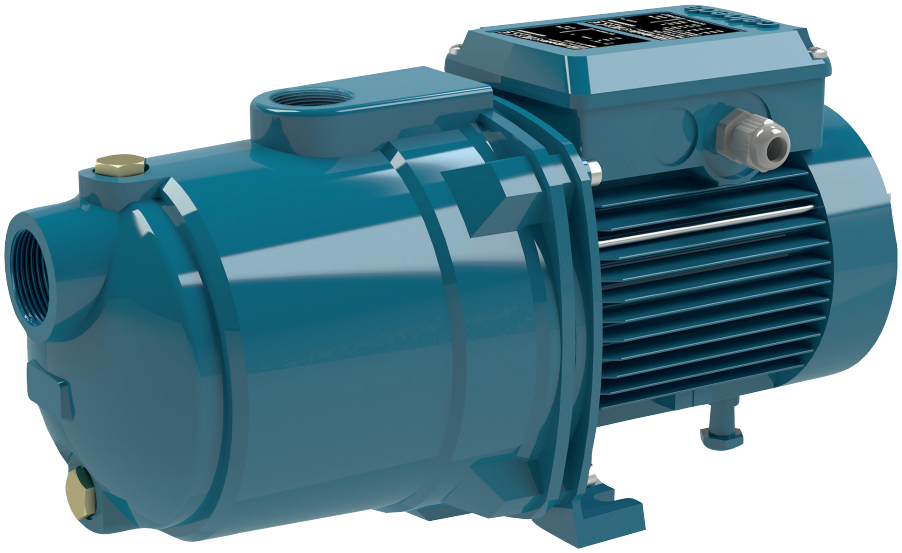
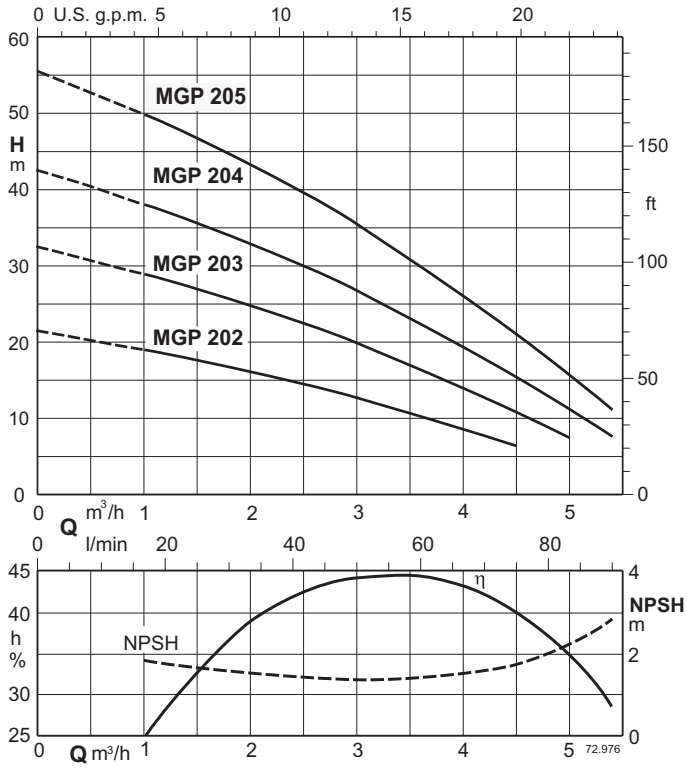
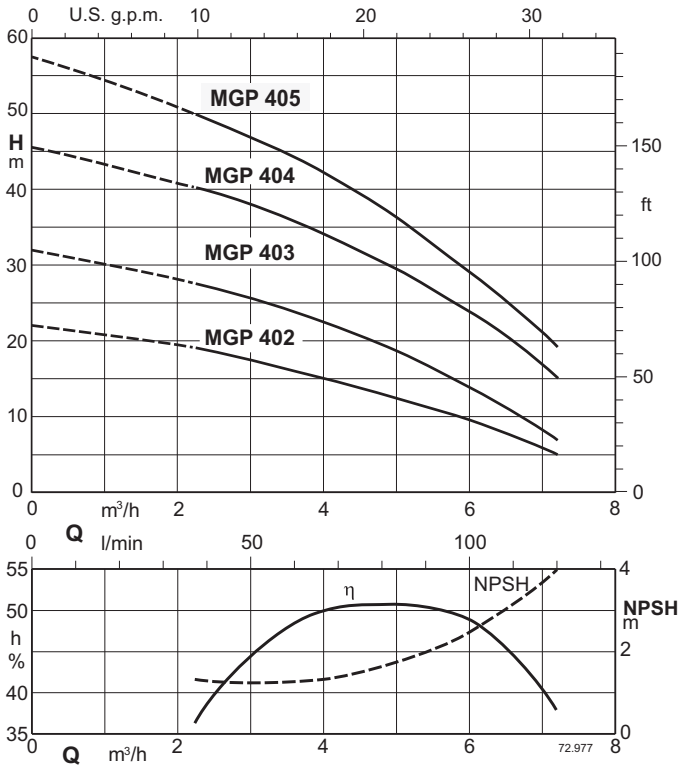
MGP



Performance n ≈ 2800 rpm





Horizontal multi-stage close coupled pumps

MGP

Construction

Horizontal Multi-Stage Close Coupled Pumps
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 systems.
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 1/min).
MGP: three-phase 230/400 V ± 10%.
MGPM: single-phase single-phase 230 V ± 10%, with thermal protector.
Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Motor set up for operation with 1.1 kW inverter.
IE2 efficiency class for single-phase motors.
IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).
Constructed in accordance with EN 60034-1; EN 60034-30-1.
EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
Frequency 60 Hz (as per 60 Hz data sheet).
Motor suitable for operation with frequency converter up to 0,75 kW.

Designation

Example: MGP 206/B
MGP = Series
2 = Rated capacity in m3/h
06 = Number of impellers
/A = It refers to a revision

Materials

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

Performance n ≈ 2800 rpm

Three-phase

					Q = Flow											
					m³/h	0	1	1,5	2	2,5	3	3,5	4	4,5	5	5,4
Model	230V	400V	P2		l/min		16,6	25	33,3	41,6	50	58,3	66,6	75	83,3	90
	A		kW	HP	H (m) = Total head											
MGP 202	1,7	1	0,25	0,34		21,5	19	17,5	16	14,5	12,5	10,5	8,5	6,5	-	-
MGP 203	2,4	1,4	0,37	0,5		32,5	29	27	25	22,5	20	17	14	11	7,5	-
MGP 204	2,8	1,6	0,45	0,6		43	38	35,5	32,7	29,7	26,5	23	19,2	15,2	11	7,5
MGP 205/A	3,5	2	0,75	1		56	50	46,5	43,5	40	35,5	31	26,5	21	16	11

Single-phase

					Q = Flow											
					m³/h	0	1	1,5	2	2,5	3	3,5	4	4,5	5	5,4
Model	230V	P2		P1	l/min		16,6	25	33,3	41,6	50	58,3	66,6	75	83,3	90
	A	kW	HP	kW	H (m) = Total head											
MGPM 202	2,3	0,25	0,34	0,42		21,5	19	17,5	16	14,5	12,5	10,5	8,5	6,5	-	-
MGPM 203	3	0,37	0,5	0,57		32,5	29	27	25	22,5	20	17	14	11	7,5	-
MGPM 204	3,5	0,45	0,6	0,67		43	38	35,5	32,7	29,7	26,5	23	19,2	15,2	11	7,5
MGPM 205	5,7	0,75	1	1,01		56	50	46,5	43,5	40	35,5	31	26,5	21	16	11

Three-phase

Model	230V	400V	P2		Q = Flow									
					m³/h	0	2,25	3	3,5	4	4,5	5	6	7,2
					l/min		37,5	50	58,3	66,6	75	83,3	100	120
	A		kW	HP	H (m) = Total head									
MGP 402	2,4	1,4	0,37	0,5		22	19	17,5	16,5	15	14	12,5	9,5	5
MGP 403/A	2,8	1,6	0,55	0,75		32	27,5	25,5	23,7	22	20	18	13,3	7
MGP 404/A	3,5	2	0,75	1		46	40	38	36,5	34	32	29,5	24	15
MGP 405	4,5	2,6	1,1	1,5		56	50	47	45	42,5	39,5	36	29	19

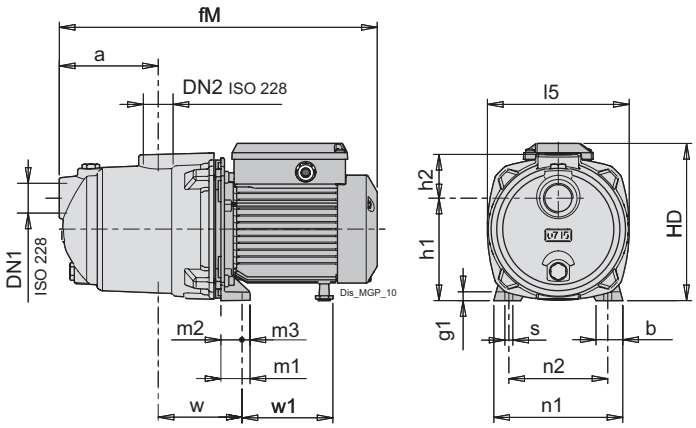
Single-phase

Model	230V	P2		P1	Q = Flow								
					m³/h	0	2,25	3	3,5	4	4,5	5	6	7,2
					l/min		37,5	50	58,3	66,6	75	83,3	100	120
	A	kW	HP	kW	H (m) = Total head									
MGPM 402	3	0,37	0,5	0,57		22	19	17,5	16,5	15	14	12,5	9,5	5
MGPM 403/A	4,5	0,55	0,75	0,78		32	27,5	25,5	23,7	22	20	18	13,3	7
MGPM 404	5,7	0,75	1	1,01		46	40	38	36,5	34	32	29,5	24	15
MGPM 405	7	1,1	1,5	1,44		56	50	47	45	42,5	39,5	36	29	19

P1: Maximum power input.
P2: Rated motor power output.
Tolerances according to UNI EN ISO 9906:2012

Test results with clean cold water, without gas content.
A safety margin of + 0.5 m is recommended for the NPSH value.
For flow rates greater than 4 m³/h use a G1 1/4 suction pipe (DN 32).

Dimensions and weights



TYPE			mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l5	m1	m2	m3	n1	n2	s	w	w1	Weight
MGP 202	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	8.8
MGP 203	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	9.5
MGP 204	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	10.3
MGP 205/A	G 1	G 1	115	30	391	10	116	51	192	161	33	25	8	146	112	9	95	112	13.6
MGP 402	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	9.4
MGP 403/A	G 1	G 1	115	30	391	10	116	51	192	161	33	25	8	146	112	9	95	112	11.7
MGP 404/A	G 1	G 1	115	30	391	10	116	51	192	161	33	25	8	146	112	9	95	112	13.6
MGP 405	G 1	G 1	115	30	421	10	116	51	192	161	33	25	8	146	112	9	95	112	15.7

TYPE			mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l5	m1	m2	m3	n1	n2	s	w	w1	Weight
MGPM 202	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	8.9
MGPM 203	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	10.1
MGPM 204	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	10.4
MGPM 205	G 1	G 1	115	30	391	10	116	51	192	161	33	25	8	146	112	9	95	112	13.6
MGPM 402	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	9.4
MGPM 403/A	G 1	G 1	115	30	362	10	116	51	176	161	33	25	8	146	112	9	95	102	12.6
MGPM 404	G 1	G 1	115	30	391	10	116	51	192	161	33	25	8	146	112	9	95	112	13.6
MGPM 405	G 1	G 1	115	30	421	10	116	51	192	161	33	25	8	146	112	9	95	112	15.8