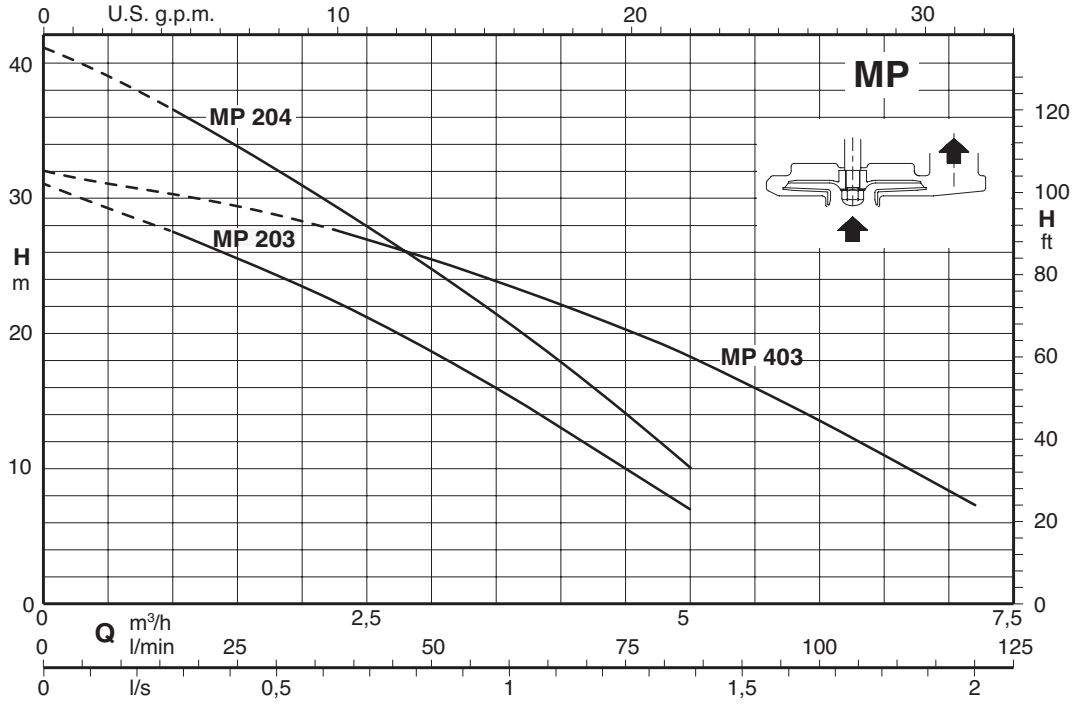
MP

Coverage chart n ≈ 2900 rpm



Multi-stage submersible pumps for clean water

MP

Construction

Multi-stage centrifugal submersible pumps with pump jacket in chrome-nickel stainless steel, with vertical delivery port.
Motor cooled by the pumped water passing between the motor jacket and the external jacket.
Double shaft seal with oil chamber.

Applications

For clean water containing solids up to 2 mm grain size.
draining flooded rooms or tanks.
Extraction of water from ponds, streams or pits and for rainwater collection. For irrigation purposes.
For outdoor use a power supply cable of not less than 10 m should be used in accordance with: EN 60 335-2-41.

Operating conditions

Liquid temperature up to 35° C.
Maximum immersion depth: 5 m.
Minimum water level with float 100 mm.
Continuous duty.

Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).
MP: three-phase 230 V ± 10%;
400 V ± 10%.
MPM: single-phase 230 V ± 10%;
with float switch and thermal protector.
Incorporated capacitor
Insulation class F.
Protection IP X8 (for continuous immersion).
Double impregnation humidity-proof dry winding.
Constructed in accordance with: EN 60034-1; EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
Frequency 60 Hz (as per 60 Hz data sheet).
Other mechanical seal.
Cable length 10 m.
- Vertical magnetic float switch.
Motor suitable for operation with frequency converter.

Designation

Example: MP 203/A
MP = Series
2 = Rated capacity in m3/h
03 = Number of impellers
/A = It refers to a revision

Materials

Components	Materials
Pump casing	PPO-GF20 (Noryl)
Stage casing	PPO-GF20 (Noryl)
Impeller	PPO-GF20 (Noryl)
motor jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Pump jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Filter	Polypropylene
Handle	Polypropylene
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Mechanical seal	Ceramic / Carbon / NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

MP

Coverage chart n ≈ 2900 rpm

Three-phase

				Q = Flow													
				m³/h	0	1	1,5	2	2,25	2,5	3	3,5	4	4,5	5	6	7,2
Model	400V	P2		l/min		16,66	25	33,33	37,5	41,66	50	58,33	66,66	75	83,33	100	120
	A	kW	HP	H (m) = Total head													
MP 203/A	1,45	0,37	0,5		31	27,5	25,5	23,5	-	21,2	18,6	16	13	10	7	-	-
MP 204	1,6	0,45	0,6		41,1	36,5	33,8	30,9	-	27,9	24,7	21,4	17,9	14,1	10,1	-	-
MP 403	1,6	0,45	0,6		32	-	-	-	27,6	-	25,5	23,8	22,1	20,3	18,3	13,5	7,3

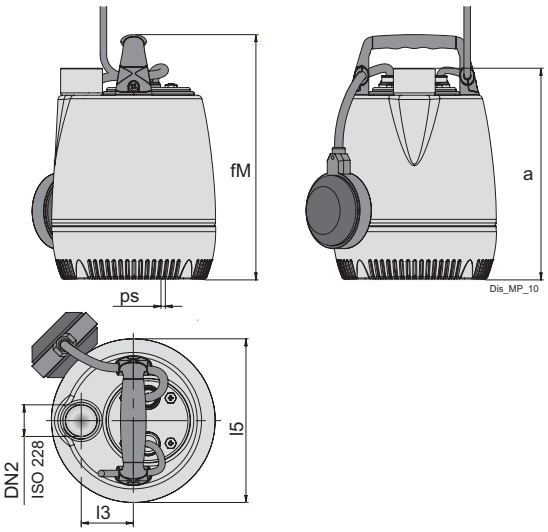
Single-phase

							Q = Flow													
							m³/h	0	1	1,5	2	2,25	2,5	3	3,5	4	4,5	5	6	7,2
Model	230V	Capacitor		P2		P1	l/min		16,6	25	33,3	37,5	41,6	50	58,3	66,6	75	83,3	100	120
	A	Vc	uf	kW	HP	kW	H (m) = Total head													
MPM 203/A	3,5	450	12,5	0,37	0,5	0,63		31	27,5	25,5	23,5	-	21,2	18,6	16	13	10	7	-	-
MPM 204	4,5	450	16	0,45	0,6	0,95		41,1	36,5	33,8	30,9	-	27,9	24,7	21,4	17,9	14,1	10,1	-	-
MPM 403	4,5	450	16	0,45	0,6	0,95		32	-	-	-	27,6	-	25,5	23,8	22,1	20,3	18,3	13,5	7,3

P1: Maximum power input.
P2: Rated motor power output.
Head and power values valid for liquids with density ρ = 1,0 kg/dm3 and kinematic viscosity v = max 20 mm2/sec. Total head in m

MP

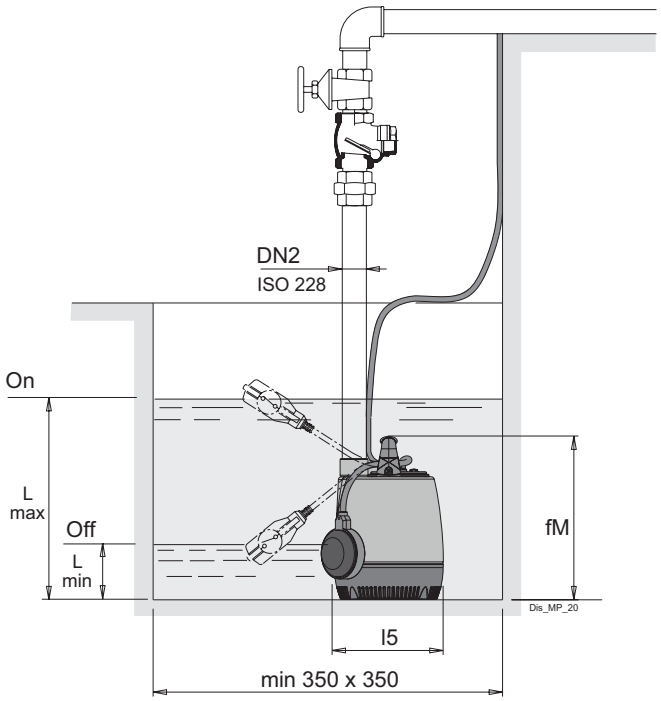
Dimensions and weights



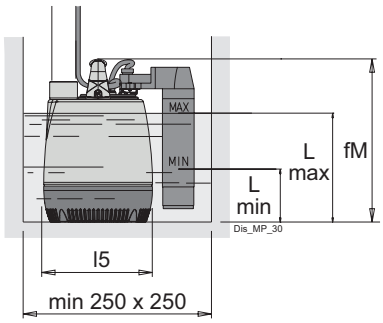
TYPE		mm					kg
	DN2	a	fM	l5	l5	ps	Weight
MP 203/A	G 1 1/4	346.5	382.5	56	176	2	7
MP 204	G 1 1/4	346.5	382.5	56	176	2	7.9
MP 403	G 1 1/4	346.5	382.5	56	176	2	8

TYPE		mm							kg
	DN2	a	fM	l5	l5	Lmax	Lmin	ps	Weight
MPM 203/A	G 1 1/4	346.5	382.5	56	176	428	218	2	7.5
MPM 204	G 1 1/4	346.5	382.5	56	176	428	218	2	8
MPM 403	G 1 1/4	346.5	382.5	56	176	428	218	2	8

Examples of installations



Installation examples with vertical magnetic float switch



TYPE	mm		Kg
	Lmax	Lmin	Weight
MPM 203/A GF	308	210	7
MPM 204 GF	308	210	7.9
MPM 403 GF	308	210	8.2