aquaplus

Series FM
Free Moulded Progressive Cavity Pumps

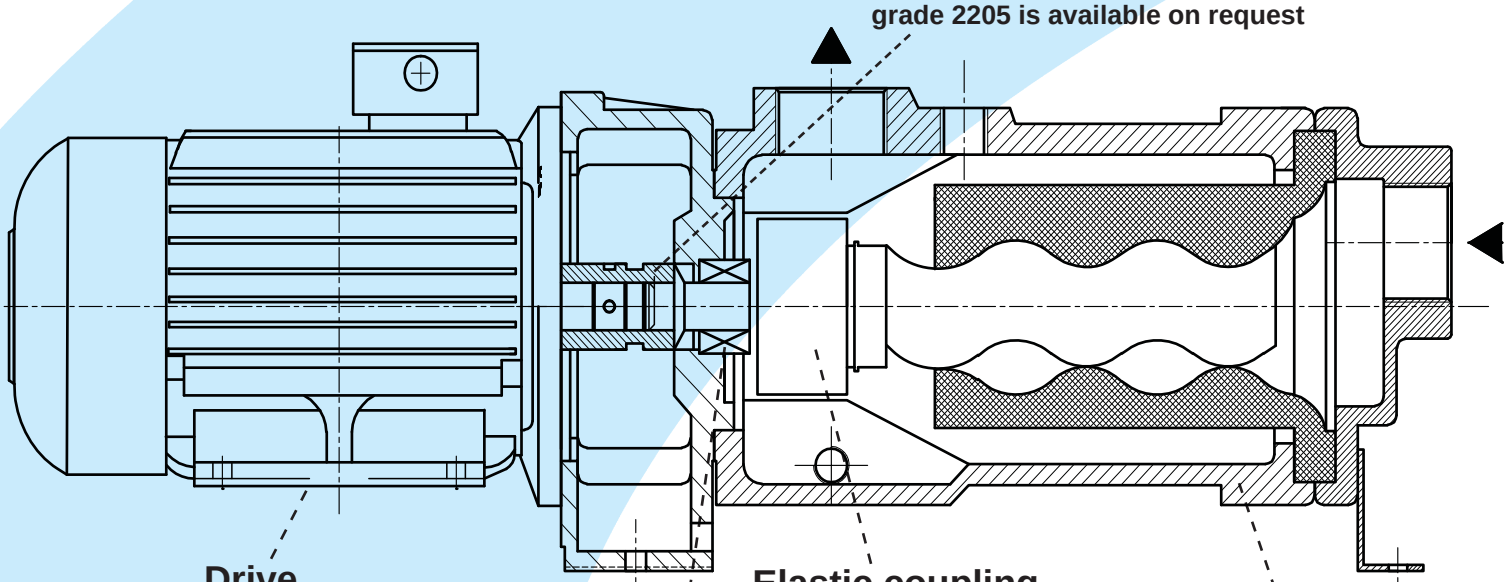
AQUAPLUS FM Series:

Designed specifically for applications calling for a compact pump design. This pump series has floating stator design attached at one end, this combined with the elastic joint results in eccentric rotor moving as if it were floating.

The FM series pumps have 10 models with fixed speed or variable speed drive types to make integration into any process a breeze.

Drive shaft

Drive shaft is as standard from 316 stainless steel. Option of duplex grade 2205 is available on request



Drive

Drive by standard flange mounted IEC motor, variable speed motor or geared motor

Elastic coupling

The drive between eccentric rotor and pump shaft is via an elastic coupling from NBR or FPM on request. This coupling flexes to compensate for the movement between the rotor and stator

Body materials

Pump body materials are available as standard in 316 stainless steel or cast iron. Option of duplex grade 2205 is available on request

Mechanical seal

Shaft is sealed from leakage by a standard mechanical seal in Carbon V's Ceramic with NBR elastomers. Options of SIC, TC and FPM are available on

Benefits

- Gentle handling of product
- High suction and self-priming capabilities
- Constant non-pulsing flow-rate
- Ease of maintenance
- Flow-rate proportional to running speed
- Operation without valves
- Compact size
- Simple drive line without pin joints
- Quiet operation
- Simple rugged construction

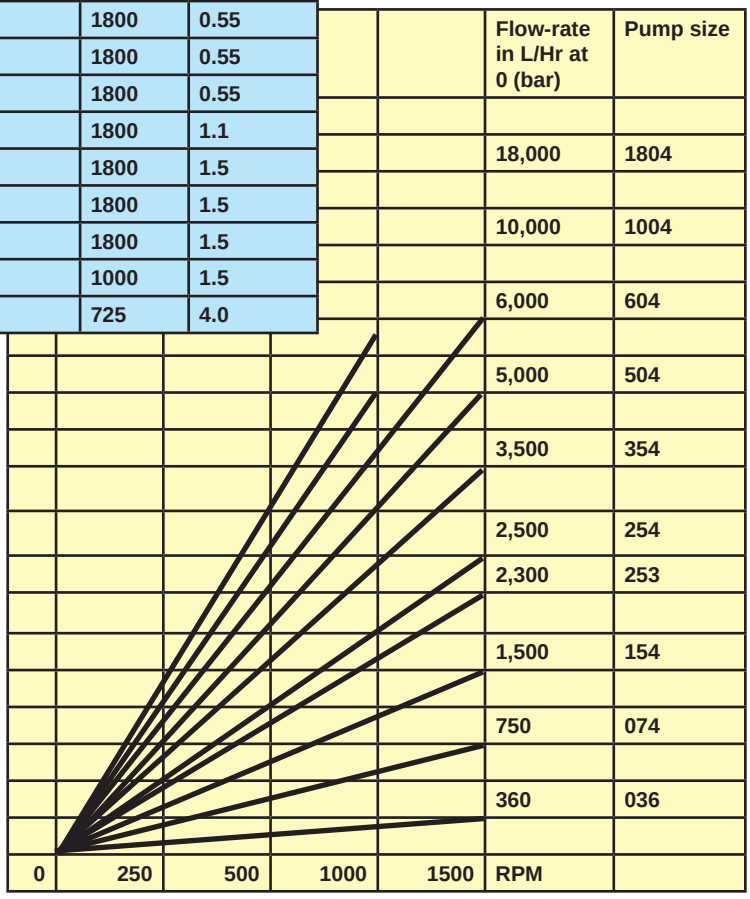
Characteristics

- Maximum flow-rate: 18000 L/Hr
- Maximum pressure: 5 bar (model dependant)
- Maximum continuous temperature: 80 ^{0}C
- Running speed Maximum: 1800 RPM

Performance

All performance data contained within this information is based on pump performance at a temperature of 20^{0}C and at 0 bar discharge pressure. If duty conditions differ from this, performance figures will need to be limited and consultation with your intended place of purchase must be sort.

Model	Motor	Flow-rate at 0 bar (L/Hr)	Flow-rate at P max (L/Hr)	Max Pressure (bar)	Max speed	Motor max (kW)
FM036	D71	400	80	5	1800	0.37
FM074	D71	1050	450	5	1800	0.55
FM154	D71	1800	700	5	1800	0.55
FM253	D71	2850	1400	4	1800	0.55
FM254	D90	3100	2100	5	1800	1.1
FM354	D90	4100	2650	5	1800	1.5
FM504	D90	6200	3600	5	1800	1.5
FM604	D90	7500	2950	5	1800	1.5
FM1004	D90	7000	4000	4	1000	1.5
FM1804	D112	1600	8750	5	725	4.0



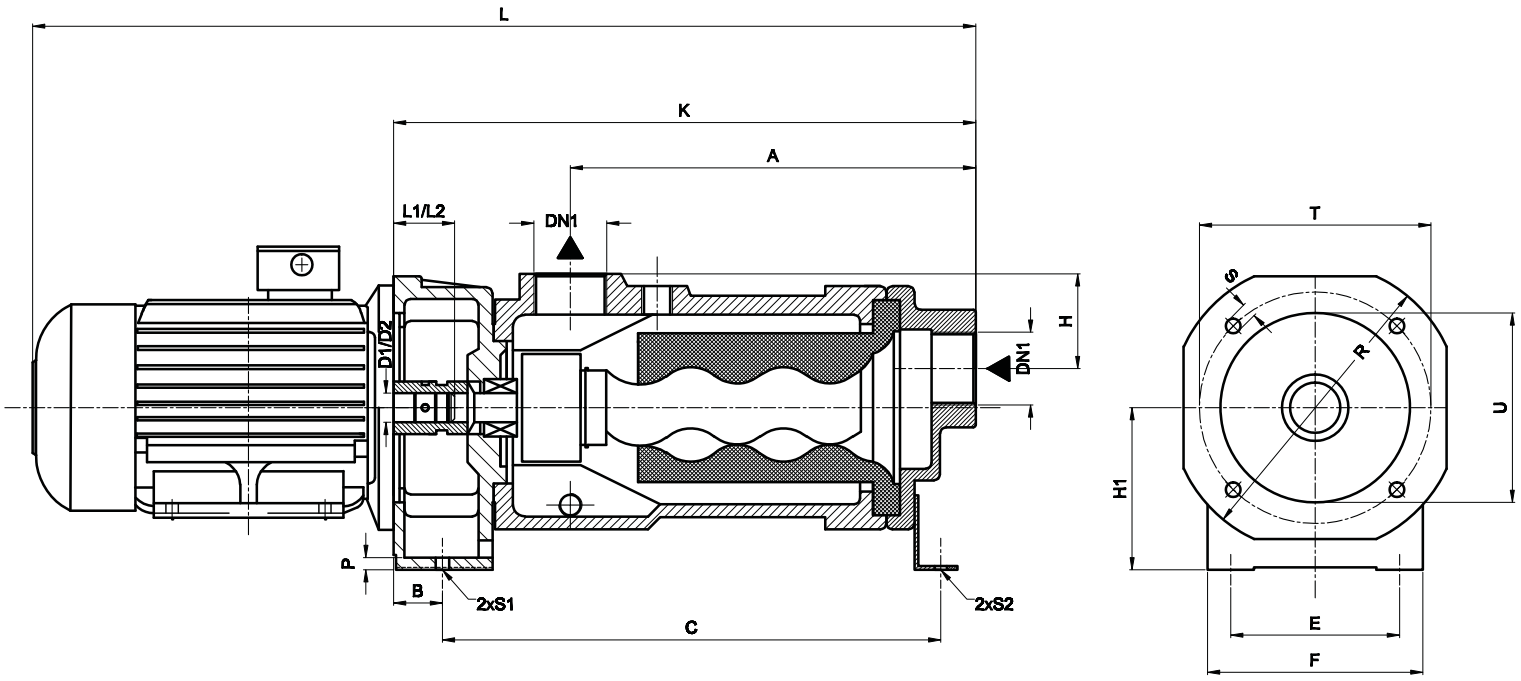
Model explanation

FM	03	6	J	F	J	4

- Pump series
- Nominal flow rate
- Max dis pressure
- Housing materials
- Elastomer materials
- Shaft materials
- Mechanical seal materials

Dimensions for pump

- **All dimensions and weights shown are for cast iron version pumps complete with fixed speed electric motor only.**
- **Pumps fitted with variable speed, geared or mechanical variator motor configurations will differ from the data given.**
- **Information given is for reference only and is subject to change at any time without notification, if accurate**



Model	Motor	A	B	C	D1	D2	DN1	E	F	H	H1	K	L	L1	L2	P	R	S	S1	T	U	Kg
036	D71	190	-	-	14	14	G1”F	-	-	44.5	70	255	491	32	-	-	150	9	-	130	110	22
074	D71	190	-	-	14	14	G1”F	-	-	44.5	70	255	491	32	-	-	150	9	-	130	110	22
154	D71	190	-	-	14	14	G1”F	-	-	44.5	70	255	491	32	-	-	150	9	-	130	110	22
253	D71	190	-	-	14	14	G1”F	-	-	44.5	70	255	491	32	-	-	150	9	-	130	110	22
254	D80/90	248	35	330	19	24	G1 1/2”F	118	150	61	105	368	654	47	52	10	200	11	11	165	130	39
354	D80/90	248	35	330	19	24	G1 1/2”F	118	150	61	105	368	679	47	52	10	200	11	11	165	130	42
504	D80/90	286	35	360	19	24	G2”F	118	150	63	105	412	723	47	52	10	200	11	11	165	130	55
604	D80/90	286	35	360	19	24	G2”F	118	150	63	105	412	723	47	52	10	200	11	11	165	130	56
1004	D100/112	286	35	360	24	24	G2”F	160	200	63	130	422	733	-	52	10	200	11	11	165	130	59
1804	D132	557	25	680	28	28	DN80	190	220	170	150	732	1136	-	62	10	250	13	13	215	180	128

Sizes in mm

1804: Figure shown at C is total length to rear hole centres please deduct 50mm from this figure to find distance to second set of hole in the middle support

Other Products in the Aquaplus Range

AD Series	Air Operated Diaphragm Pumps
DC Series	Drive Couplings
DP Series	Submersible Drainage Pumps
ES Series	End Section Pumps
HP Series	Peristaltic Pumps
Heliflo Series	Progressive Cavity Pumps
MD Series	Magnetic Drive Pumps
MS Series	Mechanical Seals (Cartridge & Single spring)
PC Series	Progressive Cavity Pumps
PS Series	Water Pressure Systems
SC Series	Split Casing Pumps
SS Series	Transfer Pumps

For information on these products or for any specialised requirements please contact your local Aquaplus distributor.

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