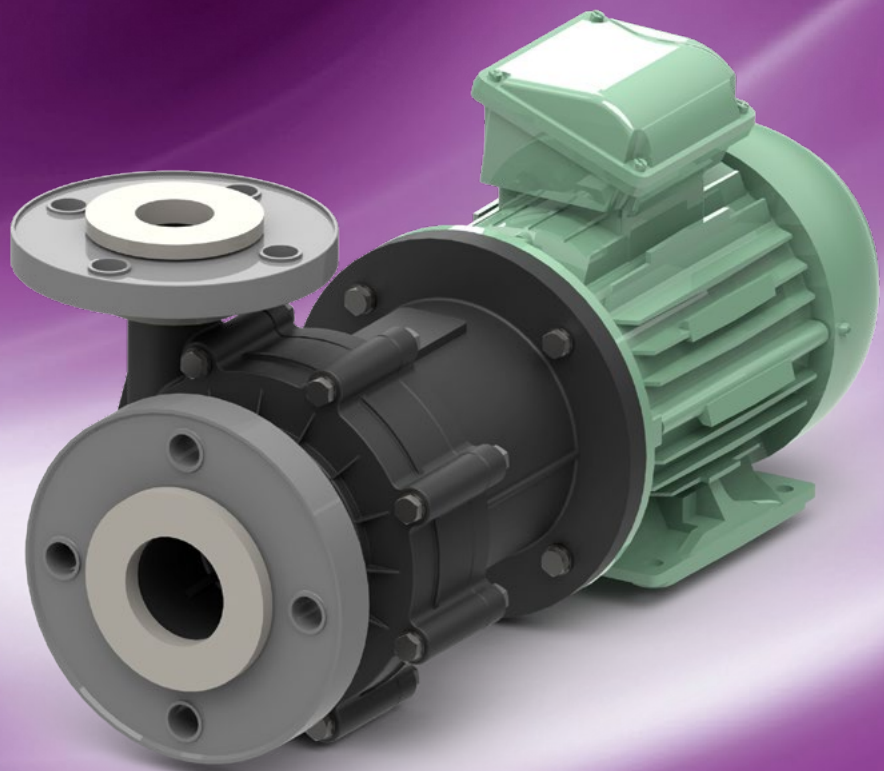
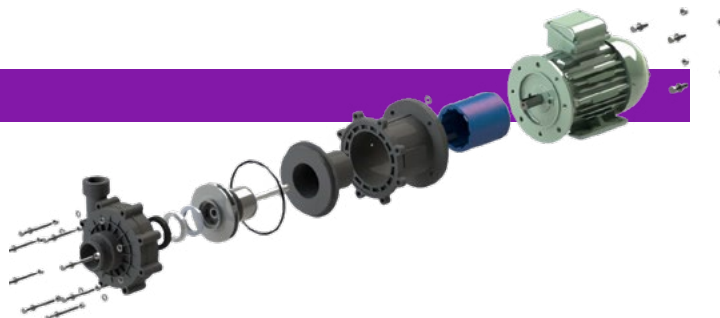




MODEL MAGPRO AM | MAGNETIC DRIVE



WORKING PRINCIPLE

Magnetic drive pumps are seal-less. The driving torque is transmitted by a permanent magnetic coupling to an internal magnet that moves the impeller.

APPLICATIONS

For all transport or circulation duties of pure chemicals or other corrosive liquids.

AM pumps are equipped with a closed impeller (except the smallest type that has an open impeller), with optimum efficiency.

It is fixed onto the shaft independent from the direction of rotation.

MATERIALS

For most of the applications, Polypropylene (PP) is sufficient. If concentrated chemicals must be pumped and/or at higher temperatures, the medium contact materials consist of PVDF.

The plastic parts are reinforced with fibres. As a result, the pump is stronger despite the fact that less material is used, and retains its physical characteristics in the case of possible increases in temperature and/or pressure.

In this way, the chance on leaking gaskets is minimized.

TECHNICAL DETAILS PUMPS

Design pressure	PP/PVDF PN6, SS = PN10 at 20°C
Minimum flow	10% of maximum flow of specific type
Maximum flow	150 m³/h (60 Hz)
Maximum head	70 m (60 Hz)
Maximum viscosity	200 mPas
Maximum density	1900 kg/m³
Maximum % particles	2%
Particle size	< 150 µm or > 0,5 - < 1 mm (non-abrasive; non-ferro)

TECHNICAL DETAILS MOTORS

Standard	Three-phase, multivoltage, TEFC
Efficiency level acc. IEC60034-30	IE3 (or IE2 in combination with external VFD)
Continues duty	S1
Multi Voltage up to IEC112	220-240/380-415 V 50 Hz // 440-460 V 60 Hz
Multi Voltage above IEC112	380-415/660 V 50 Hz // 440-460 V 60 Hz
Protection class	IP55 (IEC 34-5 / NEN-EN 60034-5)
Insulation Class	'F' (ΔT=80°C)
Maximum ambient temperature	-30 to 40°C, at 1000 m.a.s.l.
Maximum relative humidity	< 95%

OPTIONAL AVAILABLE

Other voltages	f.i. 480 V / 3 Ph / 60 Hz
Other insulation	f.i. Tropicalized
PTC Thermistors	On windings, ≥IEC160 standard
Thermal or dust protection:	IP56, IP65, IP66, IPW56, IPW65 or IPW66

CONSTRUCTION

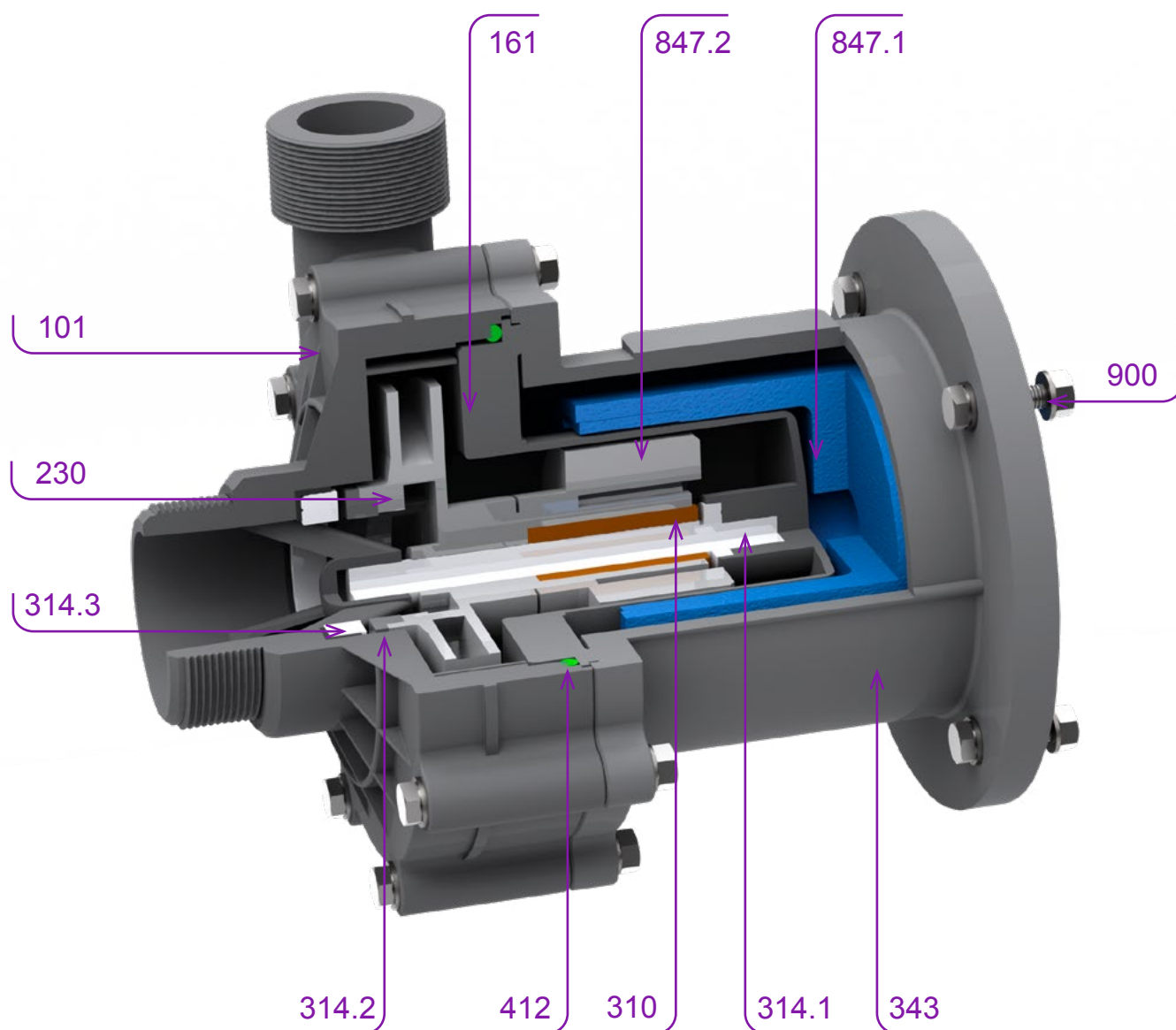
MATERIALS	ABBREVIATION	T MIN. °C	T MAX. °C CONTINUOUS	T MAX. °C DISCONTINUOUS
Polypropylene	PP	0	60	70
Polyvinylidenfluoride	PVDF	-30	80	90
Stainless steel 316	SS	-40	150	150

ELASTOMERS

MATERIALS	ABBREVIATION	T MIN. °C	T MAX. °C
EPDM	E	-40	150
Viton	V	-25	220
Polytetrafluorethene	T	-190	260

ORDERING CODE (P.I.C.)

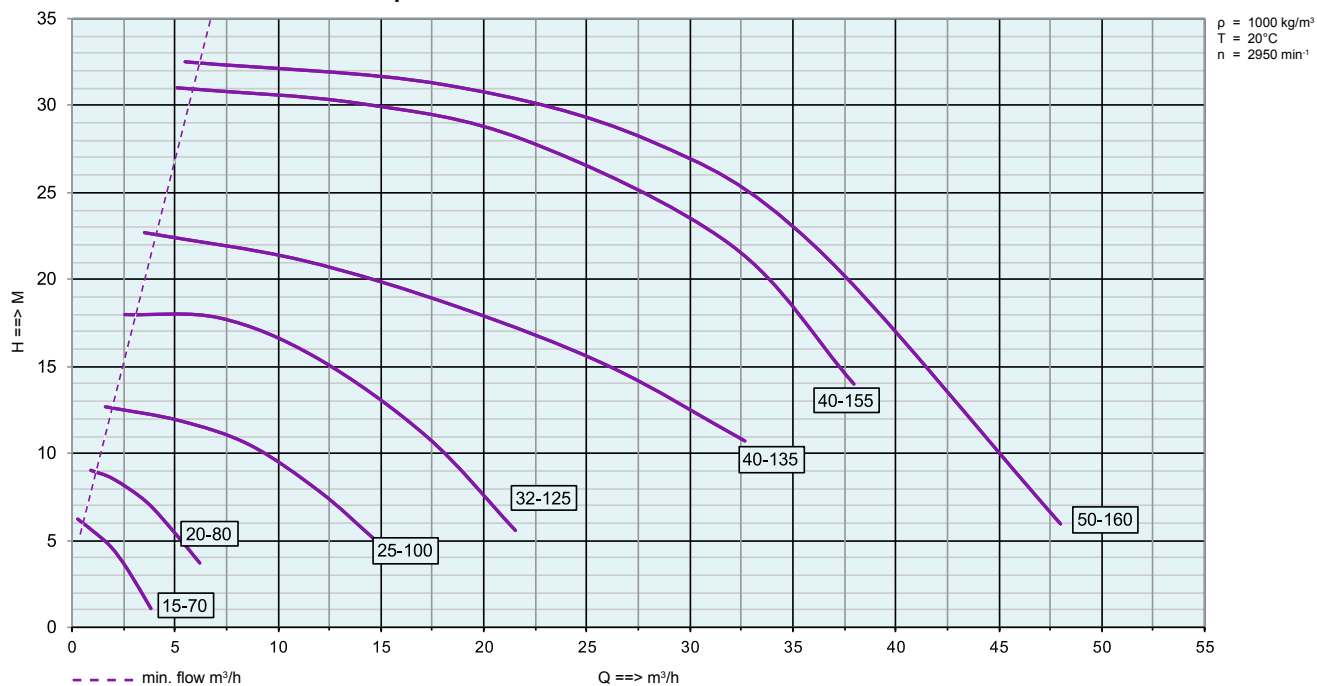
PUMP			MATERIALS				MOTOR					
Model	Type	Pump housing size	Wetted parts	Impeller	Bearing	Gaskets	Pole	Power kW	Voltage	Phase	Frequency	Atex
AM	15	70	PP	PP	RW	E	2	0,12 0,25	2	1	5	EX
	20	80	PVDF	PVDF		V	4	0,37 0,55	3	3	6	
	25	100	SS	SS		T		0,75 1,1	4			
	32	125						1,5 2,2	6			
	40	135						3,0 4,0				
	40	155						5,5 7,5				
	50	160						11,0 15,0				
	65	160						18,5				
	80	160										



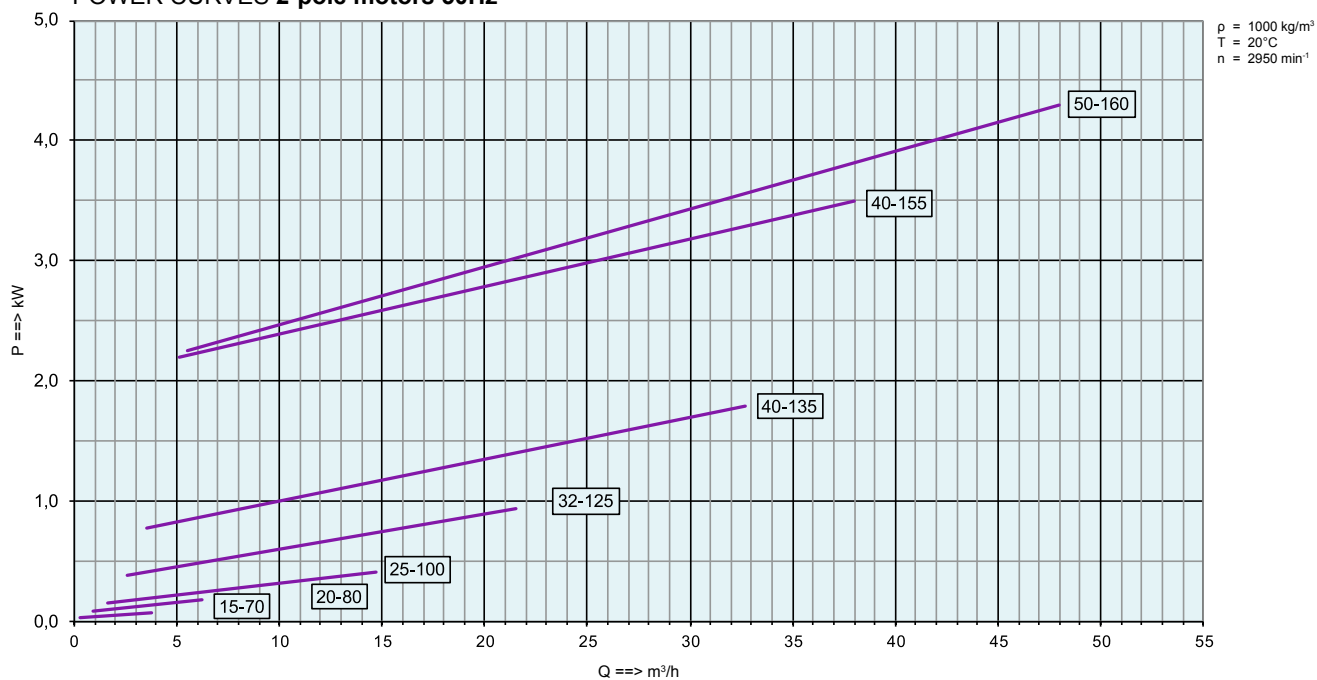
POS.	DESCRIPTION	STANDARD	OPTIONS	
101	Pump housing	PP	PVDF	SS-316
161	Rear pump casing	PP	PVDF	SS-316
230	Impeller	PP	PVDF	SS-316
	Impeller types	Closed		
310	Bearing	RW		
314.1	Rear thrust ring and shaft	Ceramic		
314.2	Impeller mouth ring	RW		
314.3	Front thrust ring + holder	Ceramic/EPDM		Ceramic/Viton
343	Bracket	Plastic PPG		Steel/Painted
412	O-rings	EPDM	VITON	V/PTFE omm.
847.1	Drive magnet	Fe NeFeb		
847.2	Magnet capsule	PP	PVDF	SS-316
800	Motor	2- or 4-pole		
900	Fasteners	SS		

PERFORMANCE CURVES AM 50 HZ

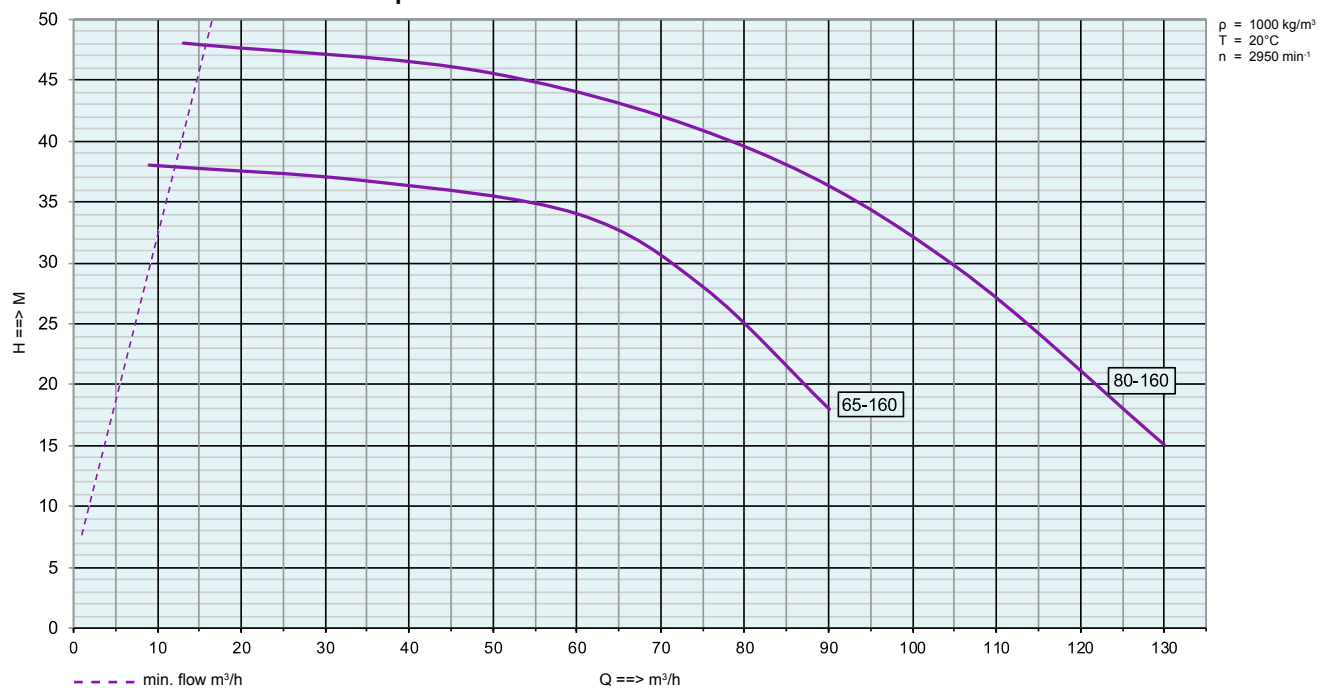
PERFORMANCE CURVES 2-pole motors 50Hz



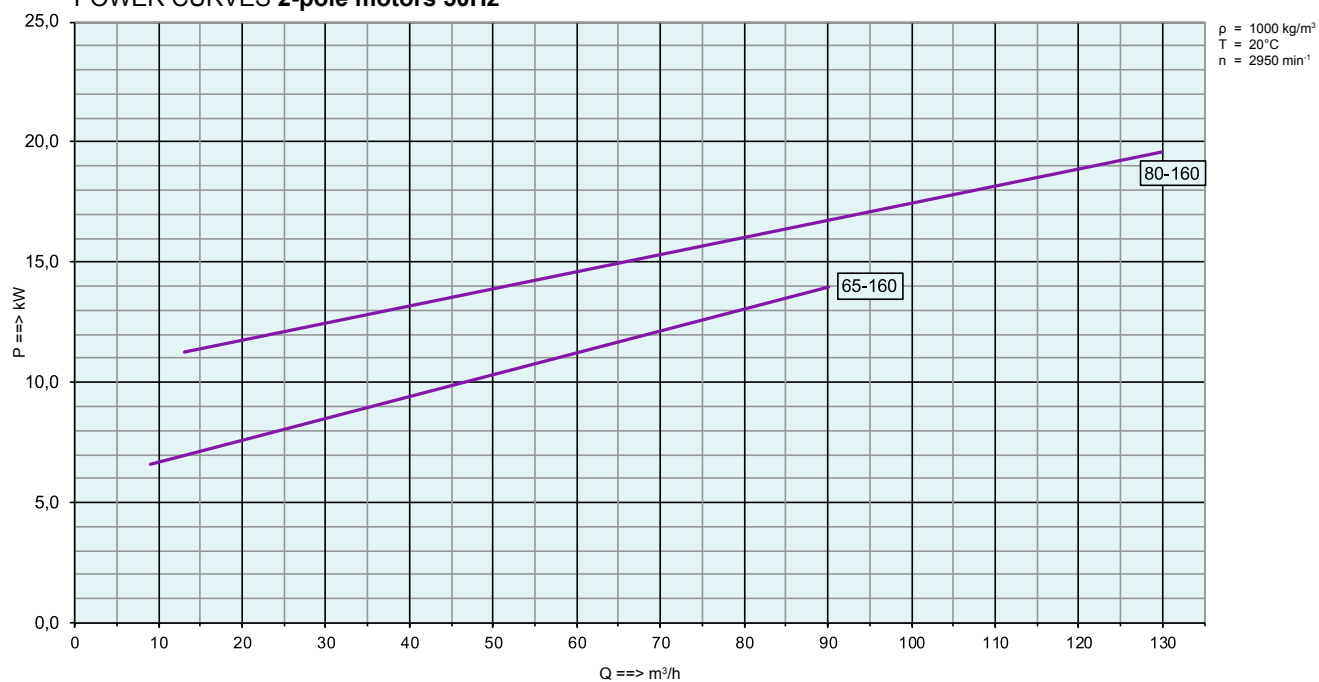
POWER CURVES 2-pole motors 50Hz



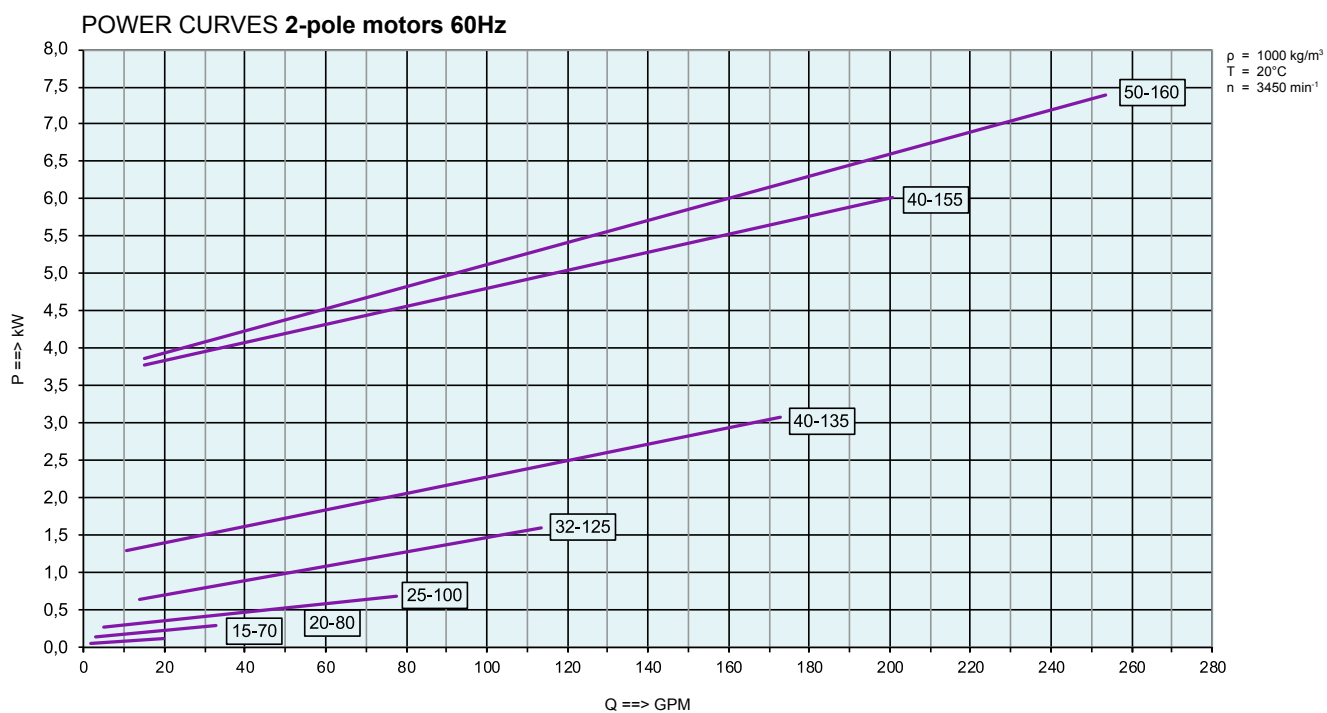
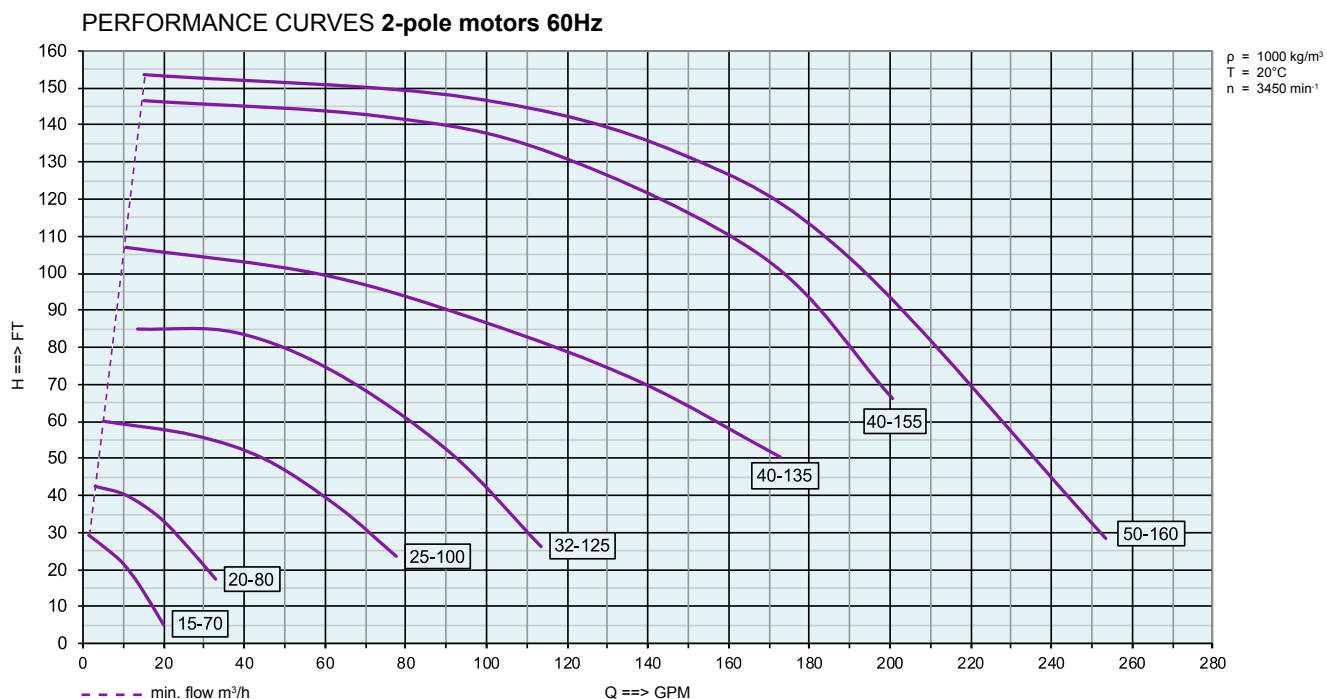
PERFORMANCE CURVES 2-pole motors 50Hz



POWER CURVES 2-pole motors 50Hz



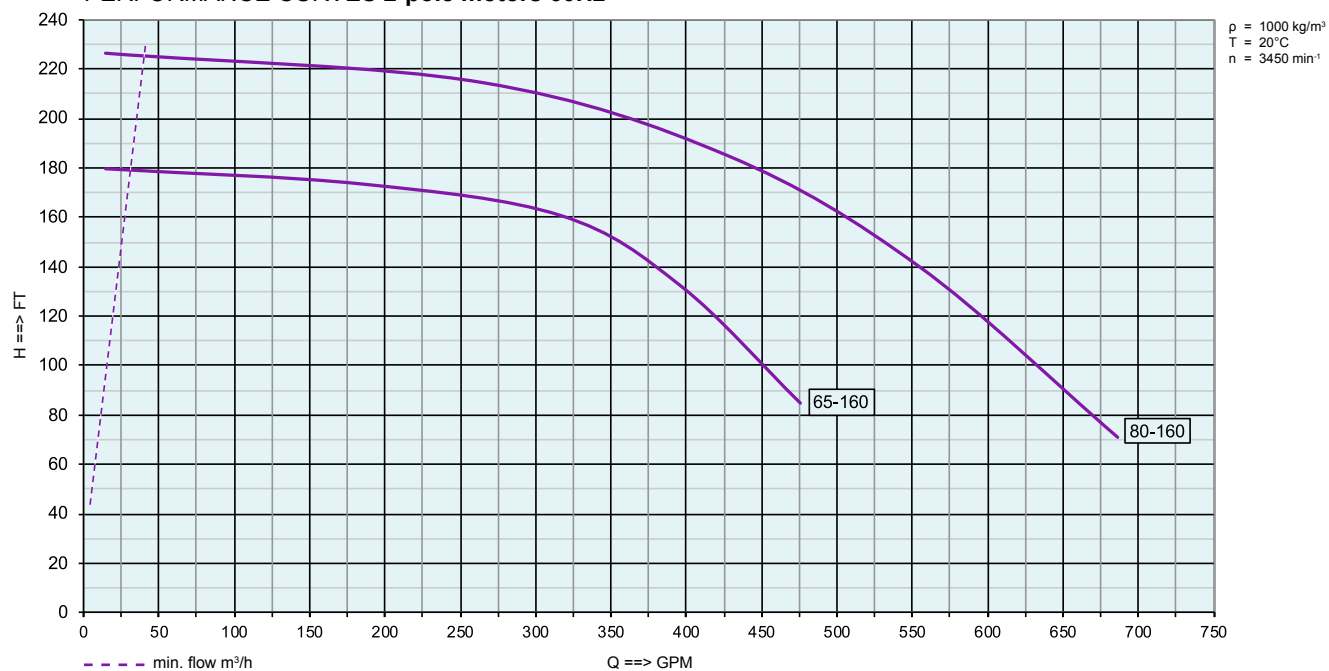
PERFORMANCE CURVES AM 60 HZ



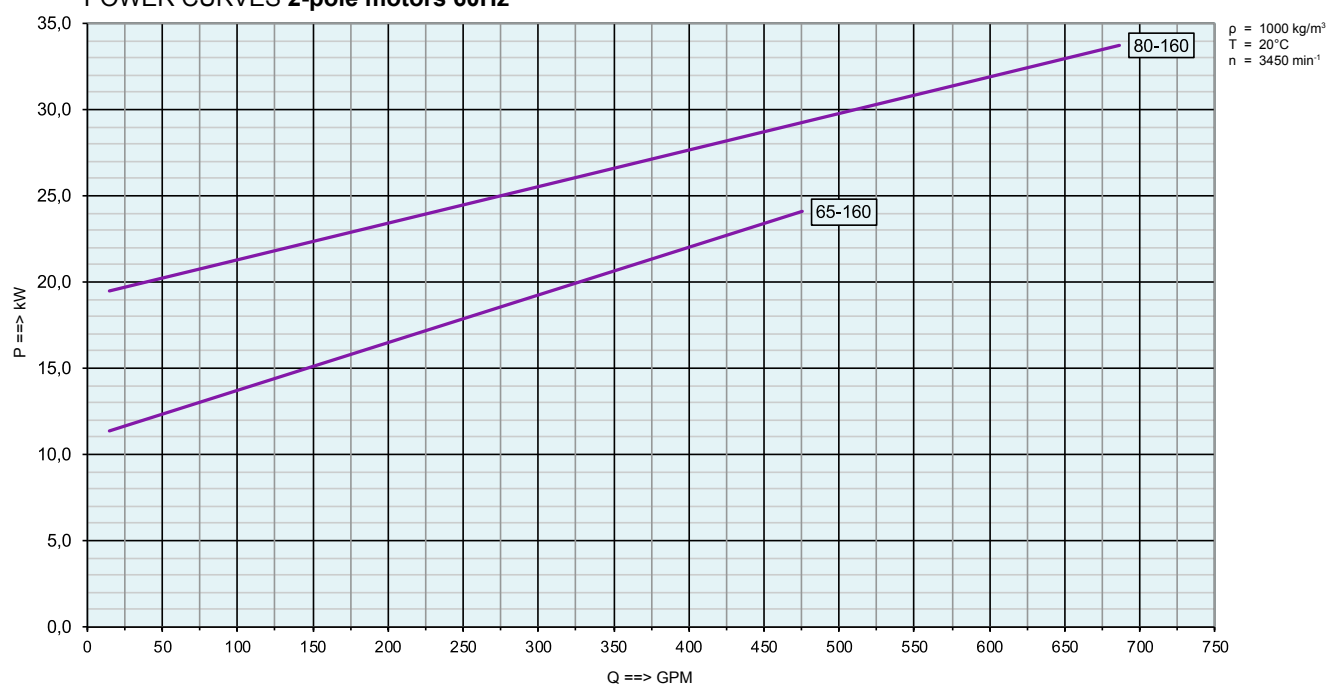
PERFORMANCE CURVES AM 60 HZ



PERFORMANCE CURVES 2-pole motors 60Hz

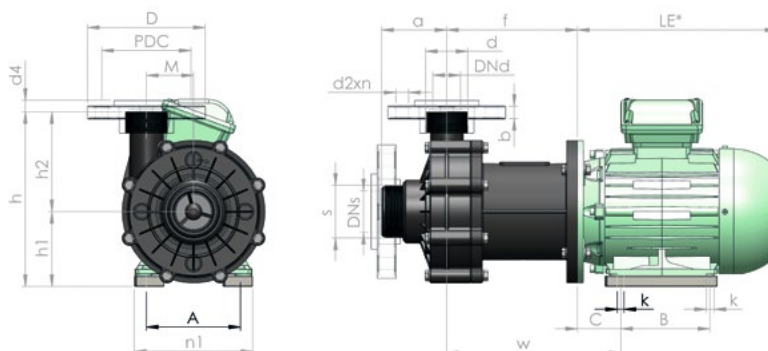


POWER CURVES 2-pole motors 60Hz



DIMENSIONS / WEIGHTS AM

AM 15-70 TILL 50-160



AM	MOTOR	DIMENSIONS PUMP WITHOUT MOTOR (MM)*												IMPELLER Ø MM		PUMP KG*		BOX	PACK
TYPE	IEC	a	h1	h2	h	M	w	B	DNd	MPT**	DNf	FPT**	f	MIN.	MAX.	PP	PVDF	CM	KG
15-70	56	39	56	80	136	34	112	-	20	1/2"	15	1"	76	65	78	1	1	43x32x27	1,5
20-80	63M	59	63	91	154	46	125	-	20	3/4"	20	1"	84	70	81	1,6	2	61x36x38	2,5
25-100	71M	70	71	100	171	45	157	-	25	1"	40	1 1/2"	110	75	98	2,6	3	61x36x38	2,5

* For motor dimensions and weights refer to motor specification sheet

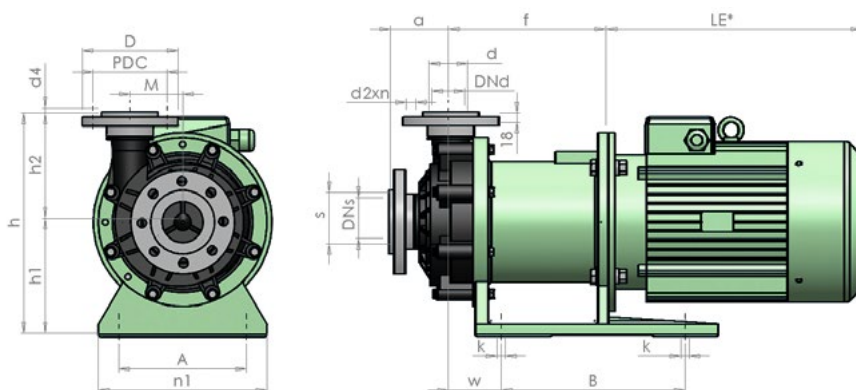
** FPT = Female taper pipe thread / MPT = Male taper pipe thread

AM	MOTOR	DIMENSIONS PUMP WITHOUT MOTOR (MM)*												IMPELLER Ø MM		PUMP KG*		BOX/ PALLET	PACK
TYPE	IEC	a	h1	h2	h	M	w	B	DNd	d**	DNf	s**	f	MIN.	MAX.	PP	PVDF	CM	KG
32-125	80M	80	80	135	215	66	201	-	40	1 1/2"	50	2"	150	100	123	5,8	6,6	61x36x38	2,5
32-125	90S	80	90	135	225	66	217	-	40	1 1/2"	50	2"	160	100	123	5,8	6,6	61x36x38	2,5
40-135	90S	91	90	140	230	66	239	-	50	2"	65	2 1/2"	184	105	133	8	9	81x42x42	6
40-135	90L	91	90	140	230	66	239	-	50	2"	65	2 1/2"	184	105	133	8	9	81x42x42	6
40-135	100L	91	100	140	240	66	266	-	50	2"	65	2 1/2"	194	105	133	8	9	81x42x42	6
40-135	112M	91	112	140	252	66	273	-	50	2"	65	2 1/2"	204	105	133	8	9	81x42x42	6
40-155	100L	92	100	180	280	83	291	-	65	2 1/2"	80	3"	228	130	158	20	22	80x60x50	6
40-155	112M	92	112	180	292	83	298	-	65	2 1/2"	80	3"	228	130	158	20	22	80x60x50	6
50-160	132S	92	192	180	372	83	98	-	65	2 1/2"	80	3"	248	130	164	33	35	120x80x60	20
50-160	132M	92	192	180	372	83	98	-	65	2 1/2"	80	3"	248	130	164	33	35	120x80x60	20

* For motor dimensions and weights refer to motor specification sheet

** Male straight pipe thread

AM 65-160 AND 80-160



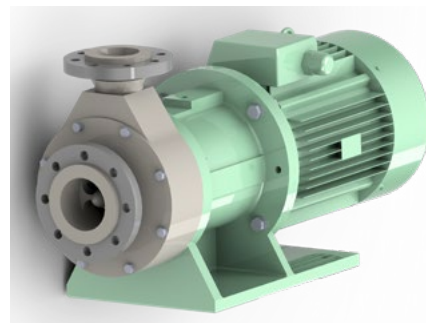
AM	MOTOR	DIMENSIONS PUMP WITHOUT MOTOR (MM)*												IMPELLER Ø MM		PUMP KG*		PALLET	PACK
TYPE	IEC	a	h1	h2	h	M	w	B	DNd	d**	DNf	s**	f	MIN.	MAX.	PP	PVDF	CM	KG
65-160	132S	113	225	206	431	103	104	360	65	2 1/2"	80	3 1/2"	307	140	170	42	44	120x80x60	20
65-160	160M	113	225	206	431	103	104	360	65	2 1/2"	80	3 1/2"	307	140	170	42	44	120x80x60	20
65-160	160L	113	225	206	431	103	104	360	65	2 1/2"	80	3 1/2"	307	140	170	42	44	120x80x60	20
80-160	160M	115	225	204	429	103	104	360	80	3 1/2"	100	4"	311	160	190	40	45	120x80x60	20
80-160	160L	115	225	204	429	103	104	360	80	3 1/2"	100	4"	311	160	190	40	45	120x80x60	20
80-160	180M	115	225	204	429	103	104	360	80	3 1/2"	100	4"	311	160	190	40	45	120x80x60	20

* For motor dimensions and weights refer to motor specification sheet

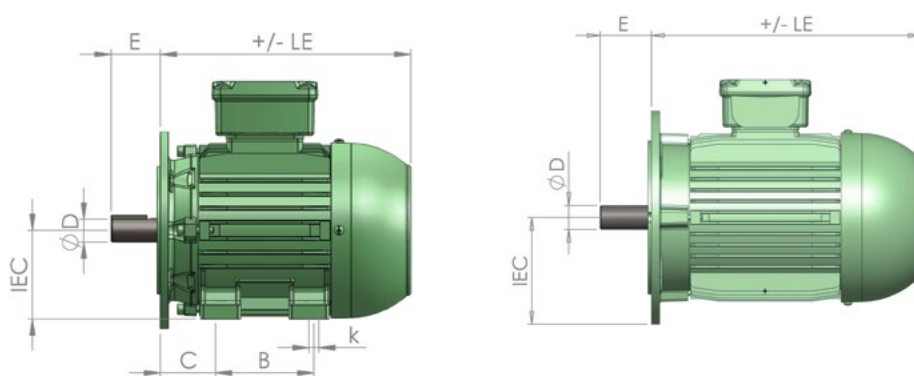
** Flanges DIN PN10

DIMENSIONS / WEIGHTS

FLANGE DIMENSIONS ACCORDING DIN2501 PN10										
AM	DNd	D	PDC	d4	d2xn	DNs	D	PDC	d5	d2xn
20-80	20	105	75	6	14x4	25	115	85	22	18x4
25-100	25	115	85	9		40	153	110	20	
32-125	32	140	100	13		50	168	125	14	
40-135	50	168	125	13	18x4	65	188	145	14	18x8
40-155	65	188	145	10		80	200	160	10	
50-160	65	188	145	10		80	200	160	10	
65-160	65	188	145	9	18x8	80	200	160	13	
80-160	80	200	160	13		100	220	180	9	



MOTOR IM B35 IM2001 / IM B5 IM3001 STANDARD MOTORS



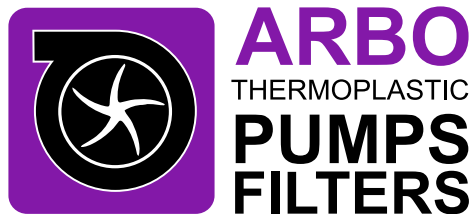
MOTOR		1450 MIN-1	WEIGHT	* IN	2900 MIN-1	WEIGHT	* IN	A	N1	B	C	k	D	E	LE
IEC		kW	+/- KG	A	kW	+/- KG	A	MM	MM	MM	MM	MM	MM	MM	MM
56	B35	-	-	-	0,12	3,1	0,44	90	110	71	35	6	Ø9	20	178
63M	B35	0,18	7	0,56	0,18	6,2	0,51	100	120	80	40	8	Ø11	23	195
63M	B35	-	-	-	0,25	6,5	0,69	100	120	80	40	8	Ø11	23	195
71M	B35	-	-	-	0,37	8,3	1,05	100	120	90	45	8	Ø14	30	220
71M	B35	-	-	-	0,55	9,1	1,45	100	120	90	45	8	Ø14	30	220
80M	B35	0,55	11	1,27	0,75	10	1,8	125	150	100	50	10	Ø19	40	240
80M	B35	0,75	14	1,63	1,1	14	2,3	125	150	100	50	10	Ø19	40	240
90S	B35	1,1	19	2,4	1,5	17,5	3,14	140	165	100	56	10	Ø24	50	255
90L	B35	1,5	22	3,26	2,2	21	4,58	140	165	125	56	10	Ø24	50	280
100L	B35	2,2	31	4,64	3	28	5,92	160	195	140	63	12	Ø28	60	320
112M	B35	-	-	-	4	38	7,72	190	165	140	70	12	Ø28	60	365
112M	B35	-	-	-	5,5	42	10,5	190	165	140	70	12	Ø28	60	365
132S	B5	-	-	-	5,5	60	10,6	216	248	-	-	12	Ø38	80	375
132S	B5	-	-	-	7,5	63	14,1	216	248	-	-	12	Ø38	80	375
160M	B5	-	-	-	11	104	20,4	254	320	-	-	16	Ø42	110	505
160M	B5	-	-	-	15	112	27,6	254	320	-	-	16	Ø42	110	505
160L	B5	-	-	-	18,5	124	33,7	254	320	-	-	16	Ø42	110	535
180M	B5	-	-	-	22	164	39,1	279	353	-	-	16	Ø48	110	611

BASEPLATES FOR KR/AM

For the close coupled pumps, that do not require precise alignment, ARBO offers lightweight and cost attractive baseplates. The major advantage of using a baseplate are that pump and/or motor foot is not in direct contact with the floor. Especially on factory floors there may be chemical

spills that will normally cause corrosion to the metal parts. By placing a corrosion resistant baseplate, the setup will last longer, look better and eventually save cost!

Please see our leaflet for our available baseplates.

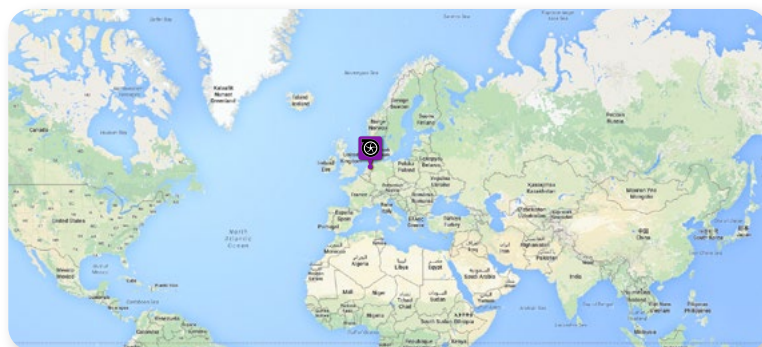


WHY ARBO PUMPS | FILTERS?

ARBO Pumps | Filters can be characterized by reliability, flexibility, quality and sustainability. Thanks to the smart design, the lower energy consumption and maintenance costs, your investment earn back time is very short time!

MARKETS

- Hot tub galvanising
- Anodising
- Plating
- Production of micro-electronic and semi-conductors
- Waste water treatment
- Fish farms
- Sea water aquaria
- Desalination plants
- Industrial and agricultural scrubbers
- etc.



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POMPEN EN FILTERS B.V.**

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