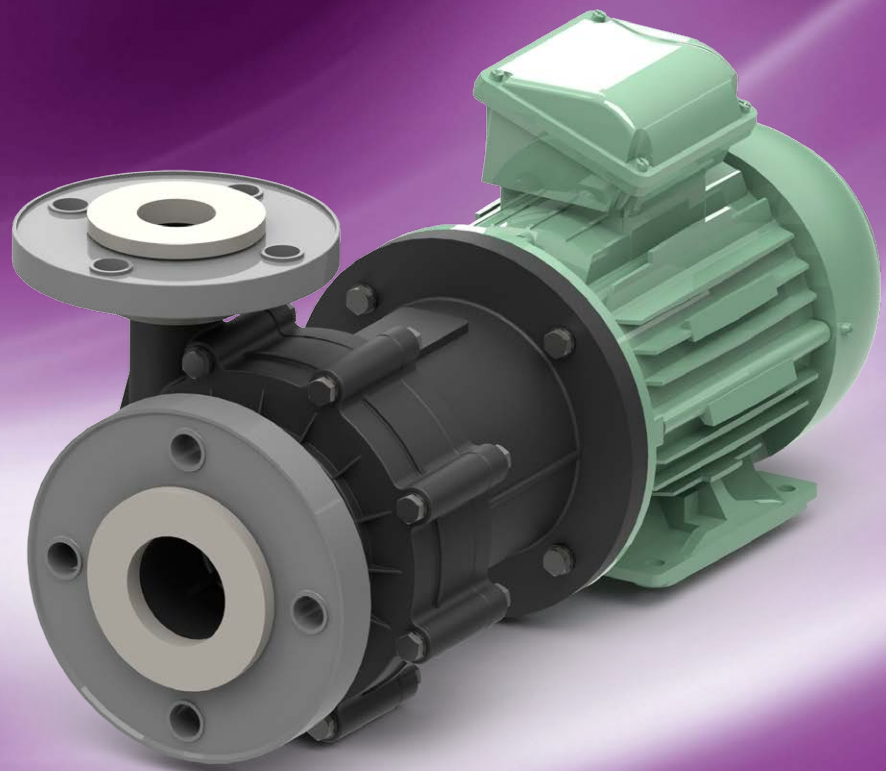


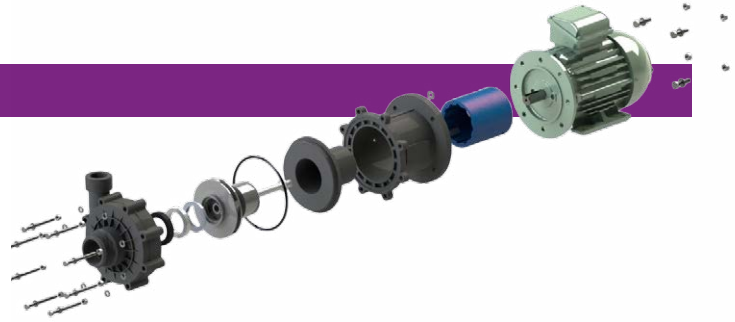


ARBO
THERMOPLASTIC
PUMPS
FILTERS



MODEL MAGPRO AM | MAGNETIC DRIVE

PG 2.2 CENTRIFUGAL PUMPS



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	PN4 at 20 °C (PN10 for SS)
Minimum flow	10 % of maximum flow of specific type
Maximum flow	60 m ³ /h (60 Hz)
Maximum head	46 m (60 Hz)
Maximum viscosity	200 mPas
Maximum density	1900 kg/m ³
Maximum solid size	50 micron

TECHNICAL DETAILS MOTORS

Standard	Three-phase, multivoltage, TEFC
High efficiency	IE2 efficiency level acc. IEC60034-30
Continues duty	S1
Multi Voltage up to IEC112	220-240/380-415V 50 Hz // 440-460 V 60 Hz
Multi Voltage above IEC112	380-415V/ 660V 50 Hz // 440-460 V 60 Hz
Protection class	IP55 (IEC 34-5/ NEN-EN 60034-5)
Insulation Class	"F" ($\Delta T=80$ °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
Thermal or dust protection:	IP56, IP65, IP66, IPW56, IPW65 or IPW66

CONSTRUCTION

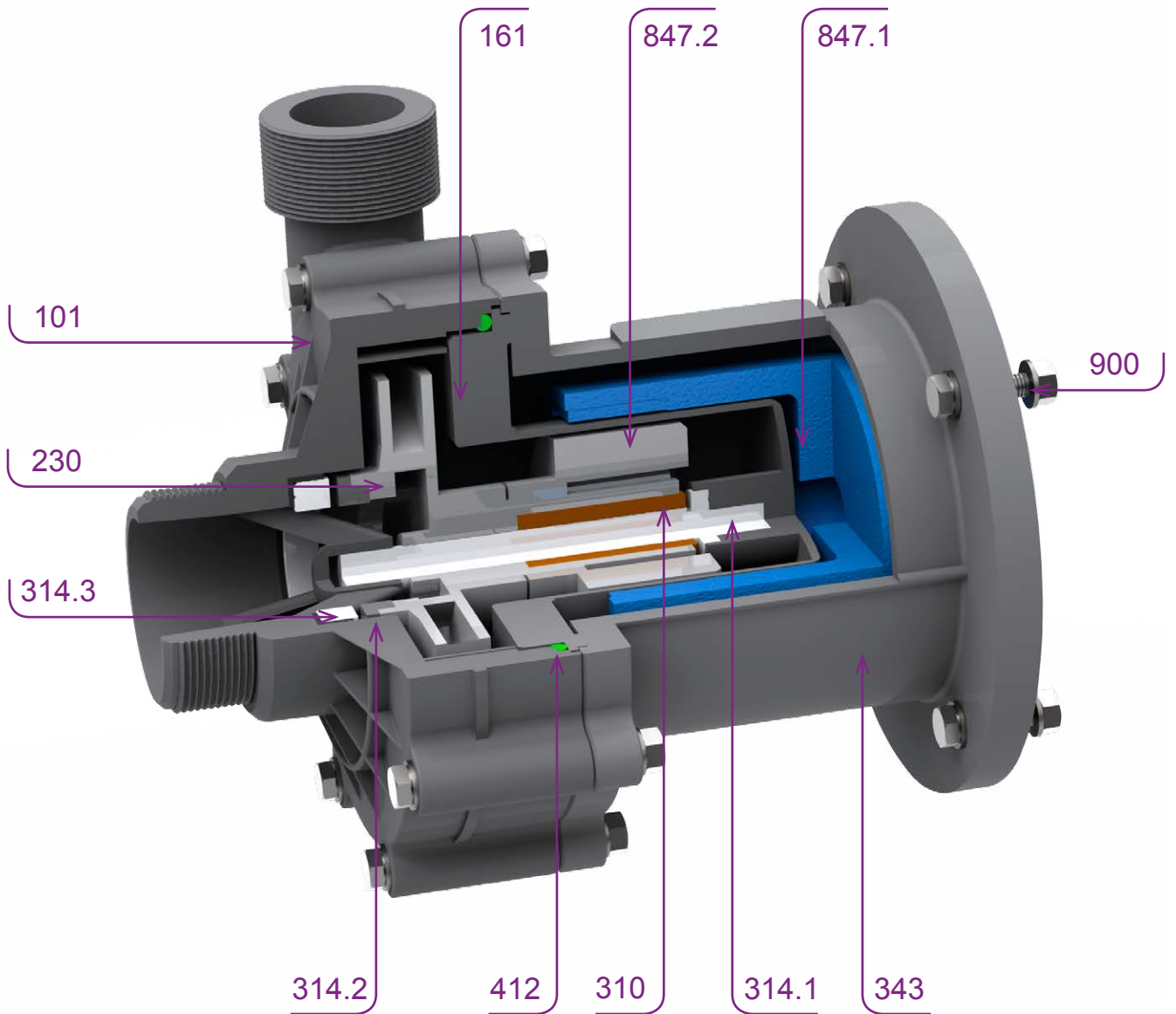
MATERIALS	ABBREVIATION	T MIN. °C	T MAX. °C	
			CONTINUE	DISCONTINUE
Polypropylene	PP	0	60	70
Polyvinylidenfluoride	PVDF	-30	80	90
Stainless steel	SS-316	-40	160	160

ELASTOMERS

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

ORDERING CODE (P.I.C.)

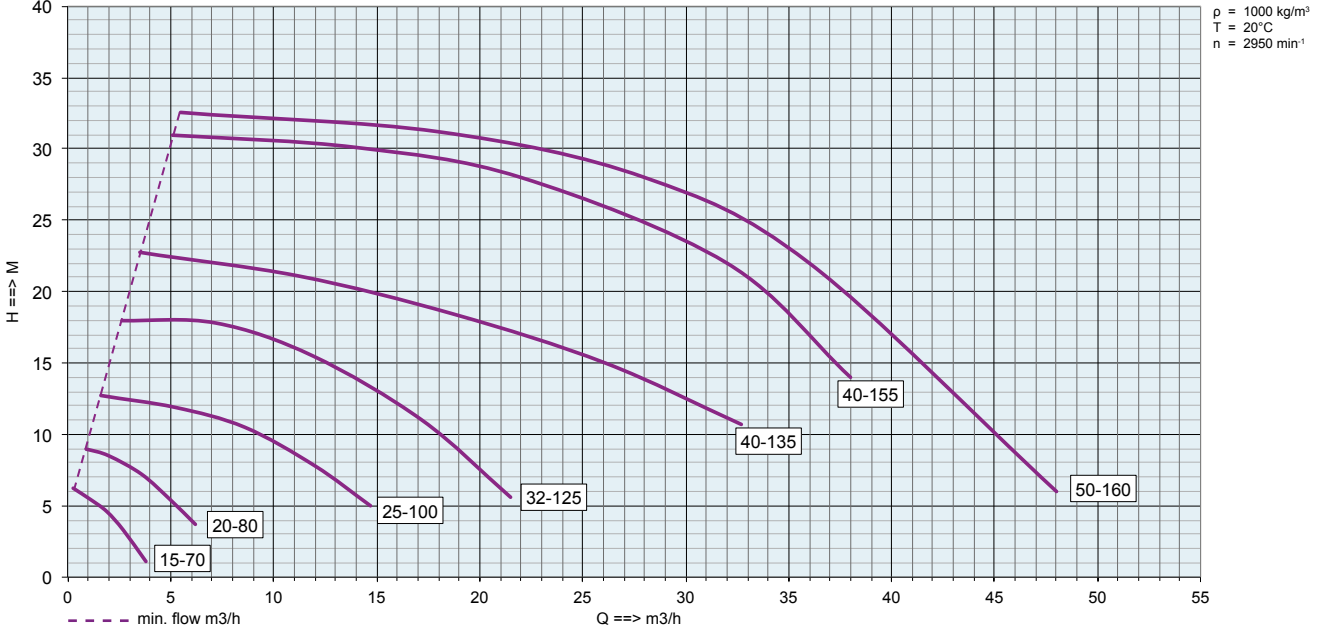
PUMP			MATERIALS					MOTOR					
Model	Type	Pump housing size	wetted parts	Impeller	Impeller type	Bearing	Gaskets	Pole	Power kW	Voltage	Phase	Frequency	Atex
AM	15	70	PP	PP	open	RW	E	2	0,12 0,25	2	1	5	EX
	20	80	PVDF	PVDF	closed		V	4	0,37 0,55	3	3	6	
	25	100	RVS-316	RVS-316			T		0,75 1,1	4			
	32	125							1,5 2,2	6			
	40	135							3,0 4,0				
	40	155							5,5 7,5				
	50	160											



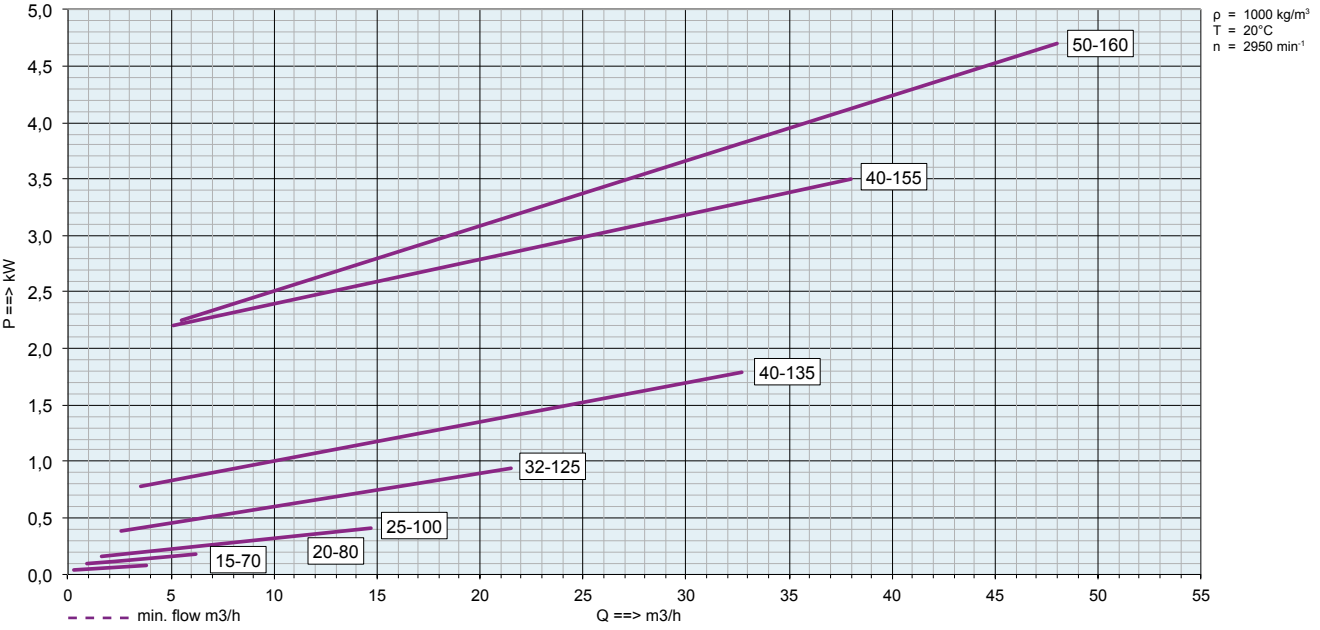
POS.	DESCRIPTION	STANDARD	OPTIONS	
101	Pump housing	PP	PVDF	SS-316
161	Rear pump casing			
230	Impeller	PP	PVDF	SS-316
	Impeller types	closed		open
310	Bearing	RW		
314.1	Rear thrust ring and shaft	ceramic		
314.2	Impeller mouth ring	RW		
314.3	Front thrust ring + holder	ceramic/EPDM		ceramic/Viton
343	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

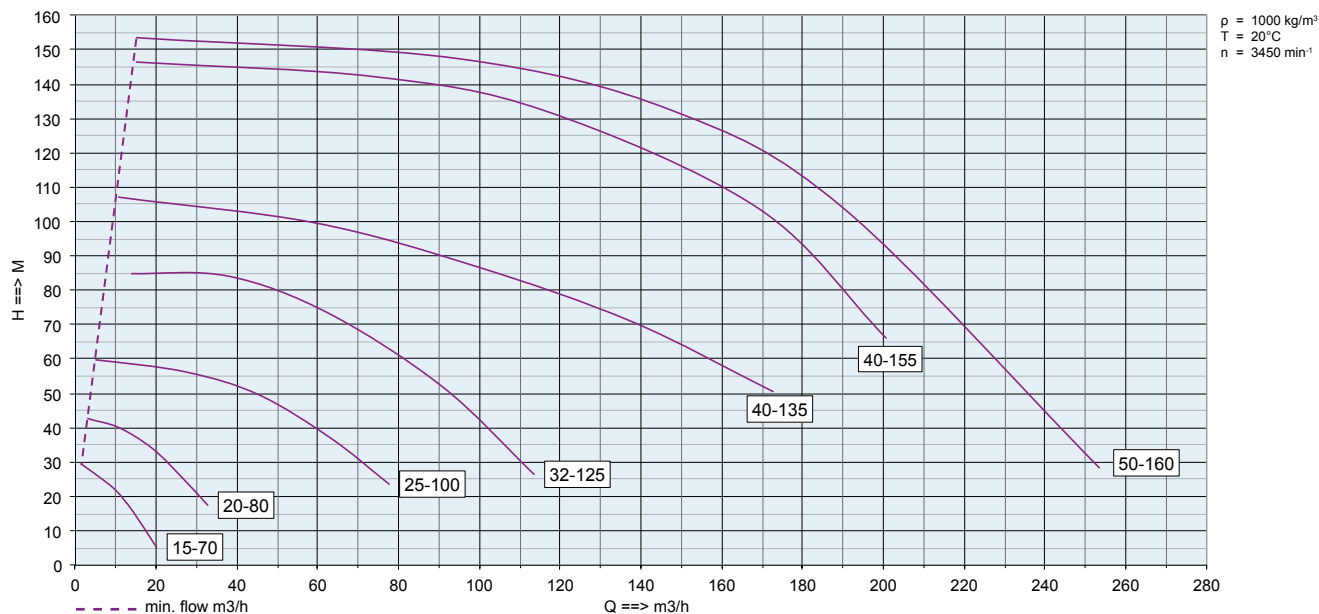


POWER CURVES 2-pole motors 50Hz

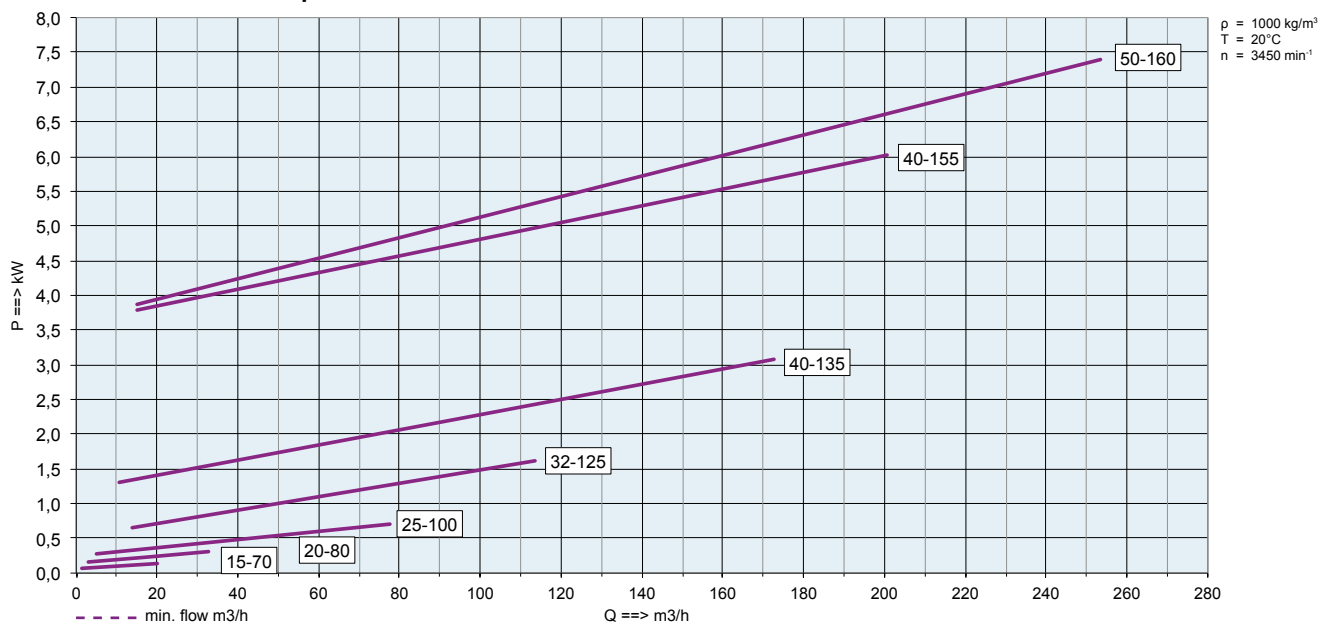


PERFORMANCE CURVES AM 60 HZ

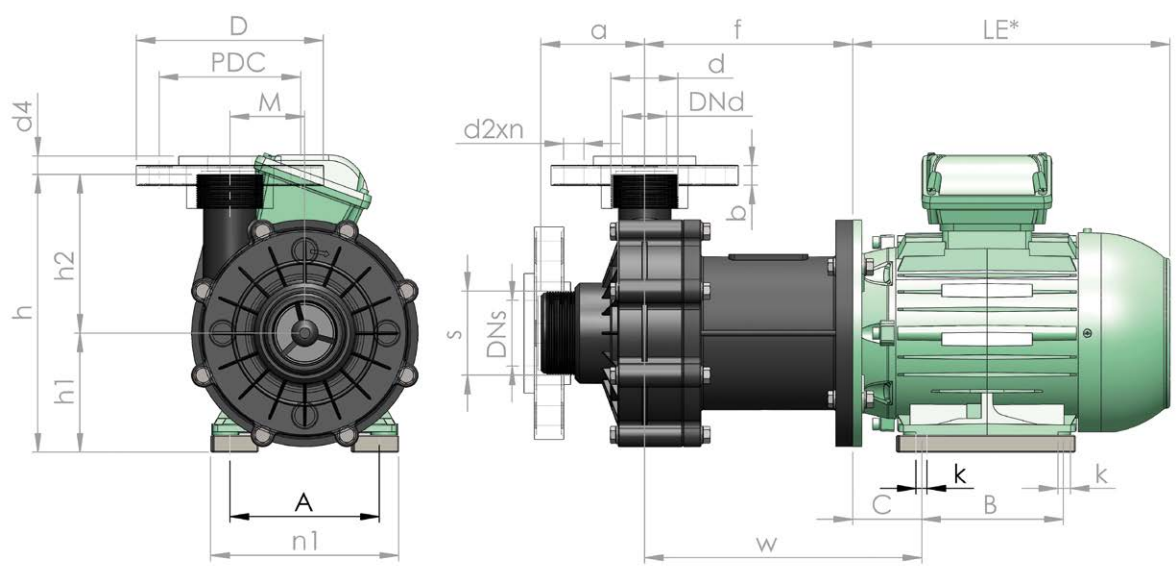
PERFORMANCE CURVES 2-pole motors 60Hz



POWER CURVES 2-pole motors 60Hz



DIMENSIONS / WEIGHTS AM



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

* for motor dimensions and weights refer to motor specification sheet
 ** FPT = Female taper pipe thread / MPT = Male taper pipe thread

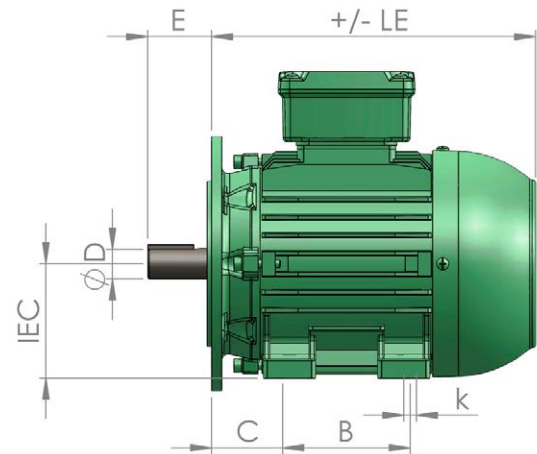
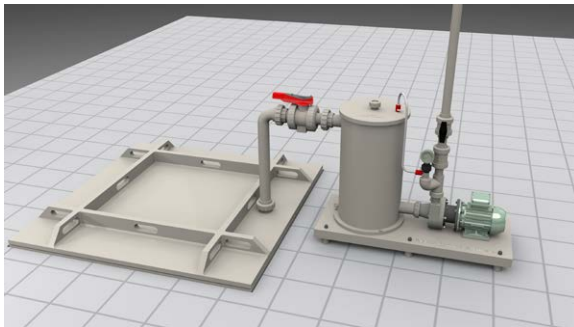
AM	MOTOR	DIMENSIONS PUMP WITHOUT MOTOR (MM) *										IMPELLER Ø MM		PUMP KG*		BOX SIZE	PACKAG.
TYPE	IEC	a	h1	h2	h	M	DNd	d**	DNs	s**	f	MIN.	MAX.	PP	PVDF	CM	KG
32-125	80M	80	80	135	215	66	40	1 1/2"	50	2"	150	100	123	5,8	6,6	61x36x38	2,5
32-125	90S	80	80	135	215	66	40	1 1/2"	50	2"	160	100	123	5,8	6,6	61x36x38	2,5
40-135	90S	91	90	140	230	66	50	2"	65	2 1/2"	184	115	133	8	9	81x41x42	6
40-135	90L	91	90	140	230	66	50	2"	65	2 1/2"	184	115	133	8	9	81x41x42	6
40-135	100L	91	100	140	240	66	50	2"	65	2 1/2"	194	115	133	8	9	81x41x42	6

AM	MOTOR	DIMENSIONS PUMP WITHOUT MOTOR (MM) *										IMPELLER Ø MM		PUMP KG*		BOX SIZE	PACKAG.
TYPE	IEC	a	h1	h2	h	M	DNd	d**	DNs	s**	f	MIN.	MAX.	PP	PVDF	CM	KG
40-155	100L	92	100	180	280	83	65	2 1/2"	80	3"	228	130	158	20	22	80x60x50	6
40-155	112M	92	112	180	292	83	65	2 1/2"	80	3"	228	130	158	20	22	80x60x50	6
50-160	132S	92	192	180	372	83	65	2 1/2"	80	3"	248	130	164	33	35	120x80x60	20
50-160	132M	92	192	180	372	83	65	2 1/2"	80	3"	248	130	164	33	35	120x80x60	20

* Voor motorafmetingen en gewichten zie separaat motor specificatieblad
 ** Mannelijke rechte gasdraad

DN	D	PDC	d4	b	d2xn
20	105	75	10	18	14x4
25	115	85	9	20	
32	140	100	13	19	18x4
40	153	110	13	20	
50	168	125	13	24	
65	188	145	10	24	
80	188	145	10	24	



DIMENSIONS / WEIGHTS
FOOT/FLANGE MOTOR IMB35 IM2001 STANDARD MOTORS


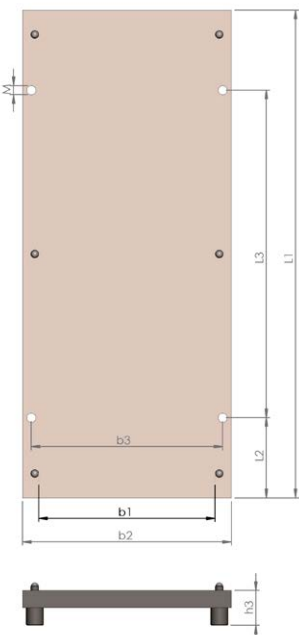
MOTOR	1450 MIN-1	WEIGHT	* IN	2900 MIN-1	WEIGHT	* IN	A	N1	B	C	k	D	E	LE
IEC	KW	+/- KG	A	KW	+/- KG	A	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)
56	-	-	-	0,12	3,1	0,44	90	110	71	35	6	Ø9	20	178
63M	0,18	7	0,56	0,18	6,2	0,51	100	120	80	40	8	Ø11	23	195
63M	-	-	-	0,25	6,5	0,69	100	120	80	40	8	Ø11	23	195
71M	-	-	-	0,37	6,7	1,05	100	120	90	45	8	Ø14	30	220
71M	-	-	-	0,55	8,3	1,45	100	120	90	45	8	Ø14	30	220
80M	0,55	11	1,27	0,75	10	1,8	125	150	100	50	10	Ø19	40	240
80M	0,75	14	1,63	1,1	14	2,3	125	150	100	50	10	Ø19	40	240
90S	1,1	19	2,4	1,5	17,5	3,14	140	165	100	56	10	Ø24	50	255
90L	1,5	22	3,26	2,2	21	4,58	140	165	125	56	10	Ø24	50	280
100L	2,2	31	4,64	3	28	5,92	160	195	140	63	12	Ø28	60	320
112M	-	-	-	4	38	7,72	190	165	140	70	12	Ø28	60	365
112M	-	-	-	5,5	42	10,5	190	165	140	70	12	Ø28	60	365
132S	-	-	-	5,5	60	10,6	216	248	140	89	12	Ø38	60	375
132S	-	-	-	7,5	63	14,1	216	248	140	89	12	Ø38	60	375

DIMENSIONS POS. 890 BASEMENTS ACC. DIN24.259 FOR KR/AM

For the close coupled pumps, that do not require precise alignment, ARBO offers lightweight and cost attractive baseplates.

By placing a corrosion resistant baseplate, the setup will last longer, look better and eventually save cost!

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.



BASEPLATE SIZES (MM) ACCORDING DIN24 259						
NR.	1	3	4	6	7	8
L 1	560	900	1000	1250	1400	1600
L 2	100	150	170	205	230	270
L 3	340	600	660	840	940	1060
b 1 max.	170	300	340	430	480	530
b 2	260	390	450	540	610	660
b 3	220	350	400	490	550	600
h 3	75	75	90	90	100	100
M	M16	M16	M20	M20	M24	M24
KG	1,8	2,9	2,0	2,3	2,5	2,9



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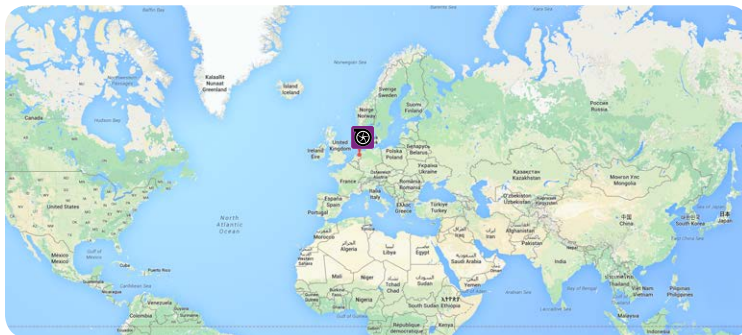


WHY ARBO PUMPS | FILTERS?

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 urn 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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