



Self-priming pumps

A series

Standard design

Self-priming pumps.

The ability to maintain a vacuum under changing suction conditions makes A Series pumps ideally suited for scavenge duties and applications where the inlet pipework is only partially filled, or where the incoming liquid includes entrained air or gas. The construction materials and quick disassembly design make them particularly suitable for a wide variety of applications.

They must be initially filled with liquid for the first start-up; afterwards, a small liquid reservoir remains to enable rapid self-priming to occur even if the suction pipe is emptied.

A 21 - A 31: Close-coupled pumps with the impeller directly supported by the electric motor shaft. Easy-opening front cover; by unscrewing three hand-nuts, allows quick inspection without disconnecting the inlet and outlet pipes.

A 41 - A 51 - A 66 - A 81: Close-coupled design with separate IEC motor and flexible coupling. Easy-opening front cover; for quick inspection without disturbing the inlet and outlet pipes.

All CF-8M 1.4408 / AISI 316 Stainless steel parts.

Investment cast, with electro-chemical polishing.

Flow rates up to 50 m³/h, heads up to max. 35 m (3,5 bar) (50 Hz).

Seals:

Mechanical seals with seats to EN 12756.

ISO 3069 standards.

Single internal mechanical seal

Single external mechanical seal

Elastomers (certified to FDA):

EPDM

Fluorocarbon (Viton)

Silicone

P.T.F.E. (FEP)

Connections:

DIN - SMS - IDF - BS / RJT - DS - CLAMP and EN 1092-1 PN16 flanges to suit most international standards.

Applications

A Series pumps are suitable for a wide range of liquids (CIP solutions, juices, milk, whey, syrups, oil, wine, water, spirits, chemical and pharmaceutical media).



A 21 - A31 pump

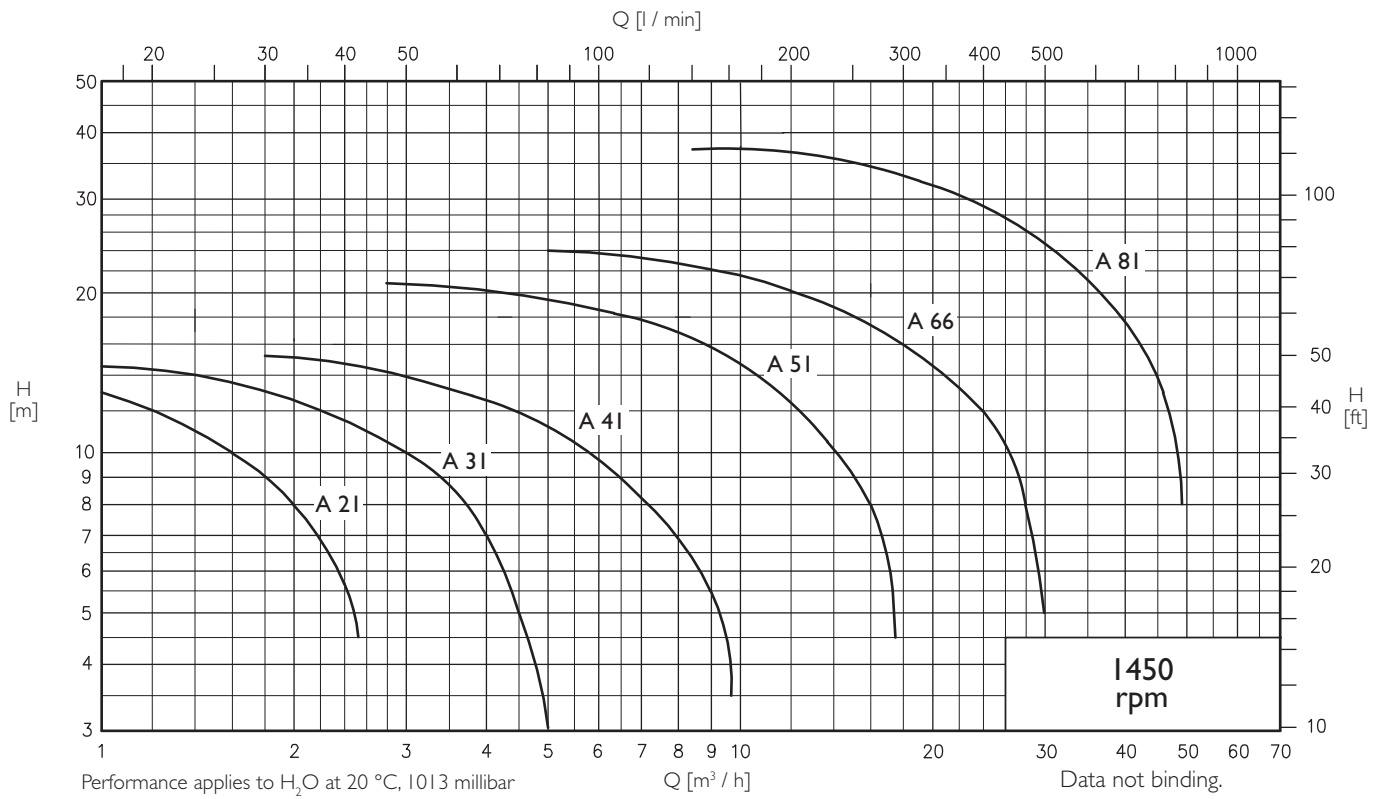


A 41 - A51 pump

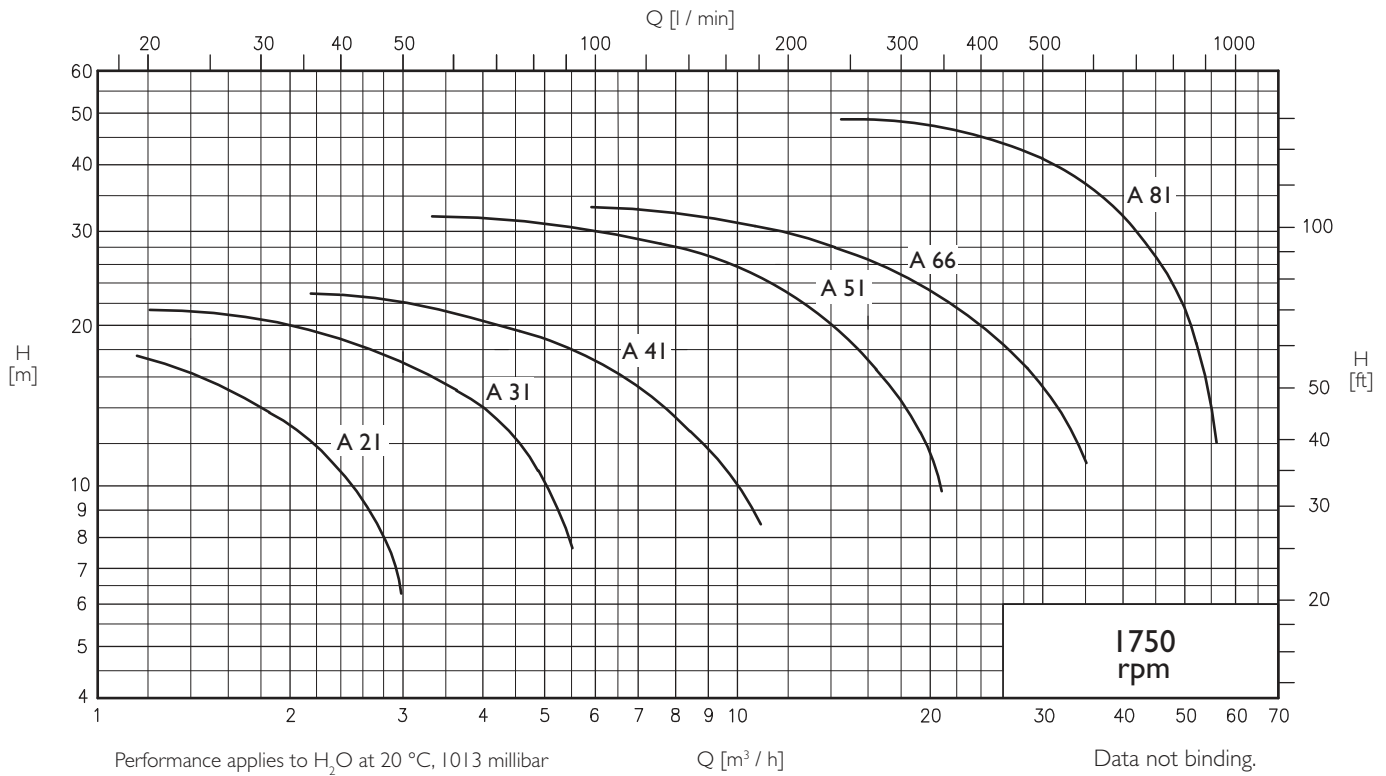


A 41 - A51 pump with shroud

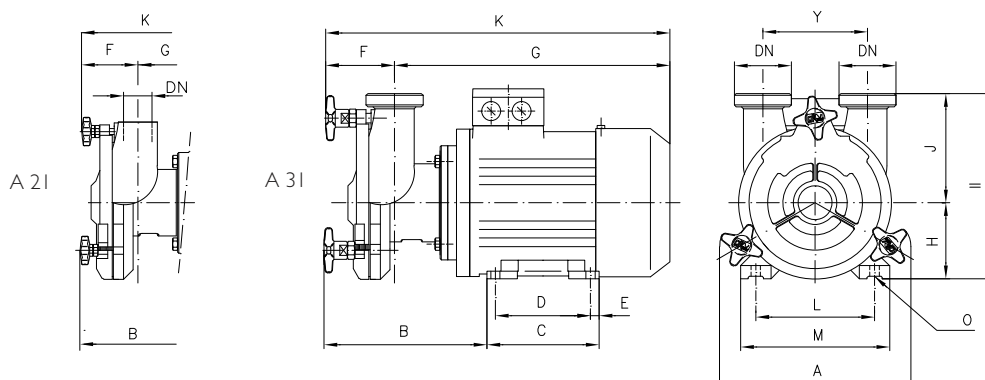
GENERAL DIAGRAM - 50 Hz



GENERAL DIAGRAM - 60 Hz



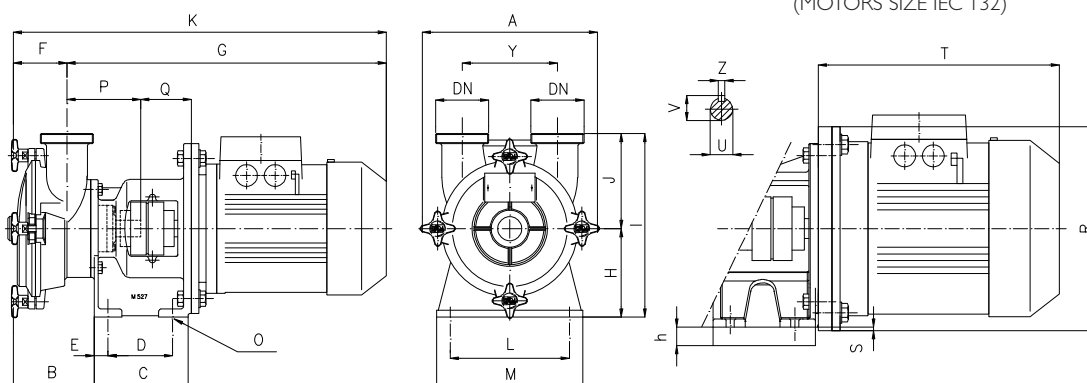
OVERALL DIMENSIONS



Dimensions not binding - DN = GAS (BSP female) connection on A21
DN = DIN 11851 male threaded connection for A31

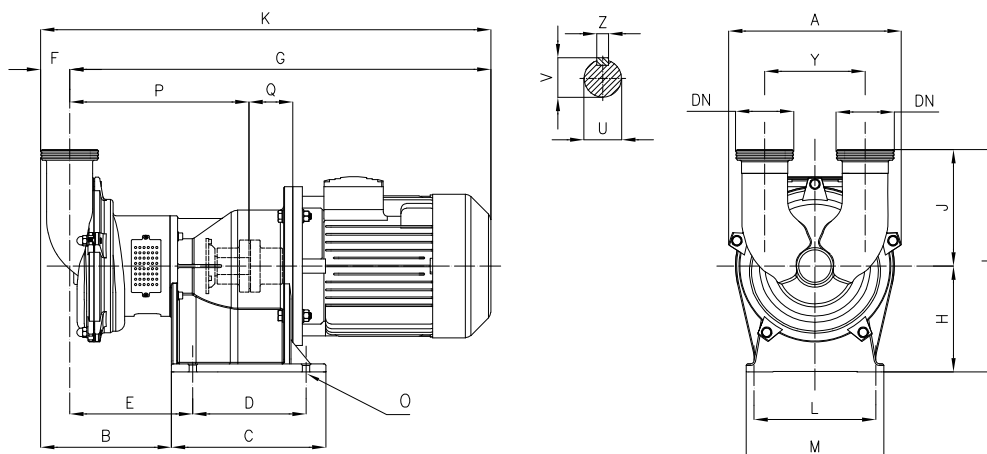
Pumps		kW	DN	A	B	C	D	E	F	G	K	H	J	I	Y	L	M	O	P	Q
A 21	1450 rpm	0,37	3/4"G	170	149	106	90	8	62	260	322	71	84	155	80	112	132	7	-	-
		0,55	3/4"G	170	152	118	100	9	62	284	346	80	84	164	80	125	150	9	-	-
A 31	1450 rpm	0,55	32	203	175	118	100	9	75	293	368	80	117	197	110	125	150	9	-	-
		0,75	32	203	175	118	100	9	75	293	368	80	117	197	110	125	150	9	-	-

exec. A 66
(MOTORS SIZE IEC 132)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors
(*) Bearing frame designed for direct coupling with motor frame ...

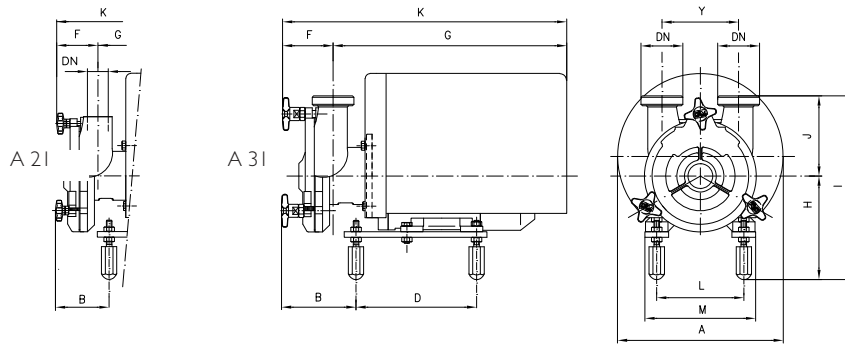
Pumps		kW	DN	A	B	C	D	E	F	G	K	H	h	J	I	Y	L	M	O	P	Q	R	S	T	U	V	Z	PAM (*)
A 41	1450 rpm	1,1	40	250	116	132	89	53,5	79	452	531	122	-	120	242	120	135	175	12	117	54	-	-	-	20	22,5	6	90
		1,5	40	250	116	132	89	53,5	79	452	531	122	-	120	242	120	135	175	12	117	54	-	-	-	20	22,5	6	90
A 51	1450 rpm	2,2	50	273	127	138	95	59,5	88	495	583	130	-	140	270	140	175	215	12	119	64	-	-	-	20	22,5	6	100
		4	50	273	127	138	95	59,5	88	516	604	130	-	140	270	140	175	215	12	119	64	-	-	-	20	22,5	6	112
A 66	1450 rpm	4	65	307	182	150	95	74	133	535	668	145	-	185	330	180	190	230	12	137	65	-	-	-	25	28	8	112
		5,5	65	307	182	150	95	74	133	595	728	145	15	185	330	180	190	230	12	137	65	300	5	393	25	28	8	132



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors
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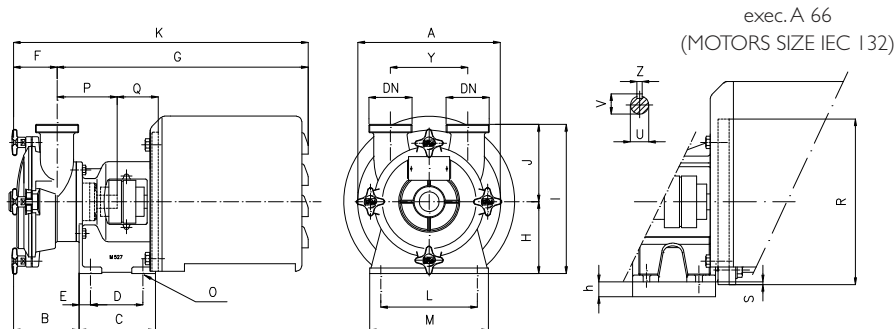
Pumps		kW	DN	A	B	C	D	E	F	G	K	H	J	I	Y	L	M	O	P	Q	U	V	Z	PAM (*)
A 81	1450 rpm	9,2	80	326	247	292	214	233	55	795	850	200	220	420	190	230	260	14	339	83	32	35	10	132
		11	80	350	247	292	214	233	55	940	995	200	220	420	190	230	260	14	339	123	32	35	10	160
		15	80	350	247	292	214	233	55	940	995	200	220	420	190	230	260	14	339	123	32	35	10	160

OVERALL DIMENSIONS (INCLUDING SHROUD)



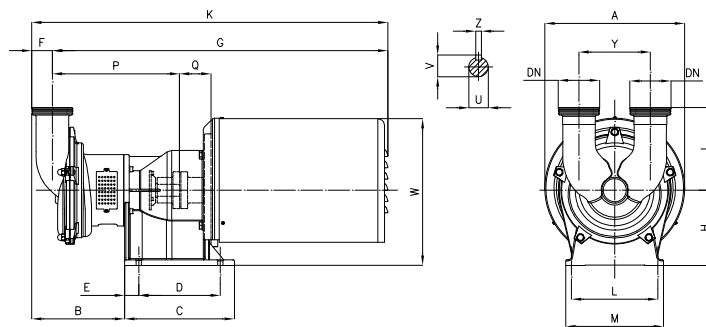
Dimensions not binding - DN = GAS (BSP female) connection on A21
DN = DIN 11851 male threaded connection for A31

Pumps	1450 rpm	kW	DN	A	B	C	D	E	F	G	K	H	J	I	Y	L	M	O	P	Q
A 21		0,55	3/4"G	238	88	-	173	-	62	336	398	153	85	238	80	125	150	-	-	-
A 31		0,55	32	238	111	-	173	-	75	334	409	153	117	270	110	125	150	-	-	-
		0,75	32	238	111	-	173	-	75	334	409	153	117	270	110	125	150	-	-	-



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors
(*) Bearing frame designed for direct coupling with motor frame ...

Pumps	1450 rpm	kW	DN	A	B	C	D	E	F	G	K	H	h	J	I	Y	L	M	O	P	Q	R	S	U	V	Z	PAM (*)
A 41		1,1	40	297	116	132	89	53,5	79	526	605	122	-	120	242	120	135	175	12	117	51	-	-	20	22,5	6	90
		1,5	40	297	116	132	89	53,5	79	526	605	122	-	120	242	120	135	175	12	117	51	-	-	20	22,5	6	90
A 51		2,2	50	297	127	138	95	59,5	88	573	661	130	-	140	270	140	175	215	12	119	61	-	-	20	22,5	6	100
		4	50	297	127	138	95	59,5	88	573	661	130	-	140	270	140	175	215	12	119	61	-	-	20	22,5	6	112
A 66		4	65	369	182	150	95	74	133	667	800	145	-	185	330	180	190	230	12	137	62	-	-	25	28	8	112
		5,5	65	369	182	150	95	74	133	667	800	145	15	185	330	180	190	230	12	137	62	300	5	25	28	8	132



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors
(*) Bearing frame designed for direct coupling with motor frame ...

Pumps		kW	DN	A	B	C	D	E	F	G	K	H	J	I	W	Y	L	M	O	P	Q	U	V	Z	PAM (*)
A 81	1450 rpm	9,2	80	372	247	292	214	233	55	1018	1073	200	220	420	382	190	230	260	14	339	83	32	35	10	132
		11	80	432	247	292	214	233	55	1018	1073	200	220	420	434	190	230	260	14	339	123	32	35	10	160
		15	80	432	247	292	214	233	55	1018	1073	200	220	420	434	190	230	260	14	339	123	32	35	10	160



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