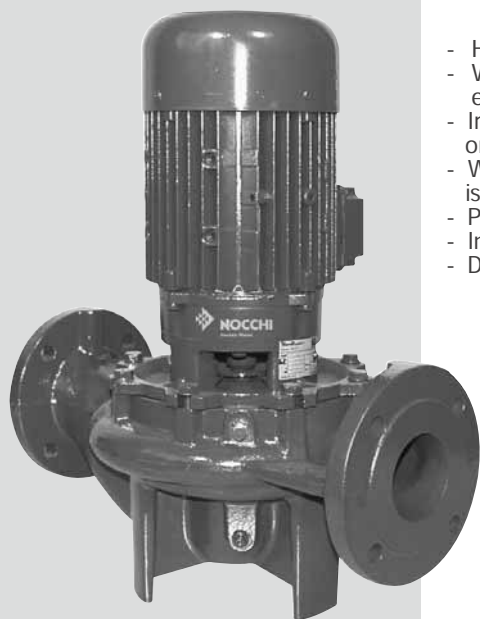


A2L - A4L

"IN LINE" ELECTRIC PUMPS



Applications

- Heating and air-conditioning systems
- Water lifting from lakes, rivers, well etc.
- Irrigation systems on ground surface or by sprinkling.
- Water supply and distribution for isolated houses or small villages.
- Pressure systems.
- Industrial services.
- Domestic hot water supply systems.

Construction features

It is a single impeller centrifugal pump coupled by a spindle to a totally enclosed asynchronous motor. The motor cooling is obtained by means of external ventilation. The shaft seal is of the mechanical type. Single construction. Performance data as given on the guidelist and on the nameplate refer to continuous duty and clear water (specific Weight: 1000Kg / m) with a manometric suction head of 2 meters

Installation

Since suction and delivery are in-line, pump can be installed in line with the piping, either horizontally or vertically. Do not install the pump with motor facing downwards. On request the pumps can be supplied with flanged counterflanges.

Pump working limits

- Max working pressure: 10 bar.
- Max liquid temperature: +130 °C .
- Min. liquid temperature : -10 °C
- Max environmental temperature: +40°C
- Max liquid viscosity : 5 °E

Tolerances

- Pump : ISO 2548 class C annex B
- Motor : According to CEI standards

Asynchronous three phase motor

- Protection : IP 54.
- Standard voltage :
50Hz : V 220 / 400 (+- 10%)
- Insulation : Class F.
- A2L model: 2 poles
- A4L model: 4 poles

On request:

- version with bronze impeller
- version equipped with condensate drain holes on motor flange for applications in cold water systems

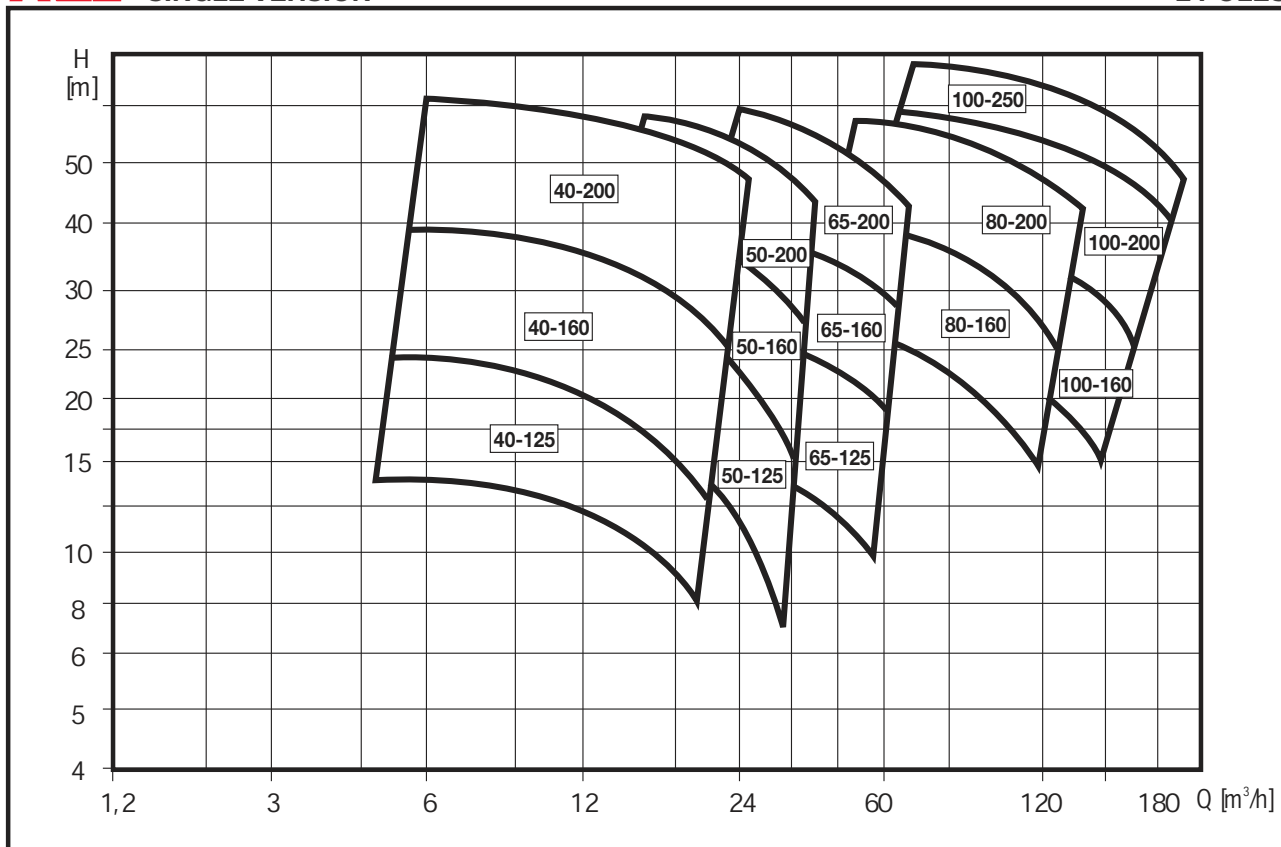
DESIGN FEATURES

Component	Material
Mechanical seal	Silicum carbide / Silicum carbide EPDM O-Ring
Pump casing	EN-GJL 200 (ex G 20) cast iron
Impeller	EN-GJL 200 (ex G 20) cast iron
Shaft	AISI 420 stainless steel
Shield, lantern, cover	EN-GJL 200 (ex G 20) cast iron

Performance range

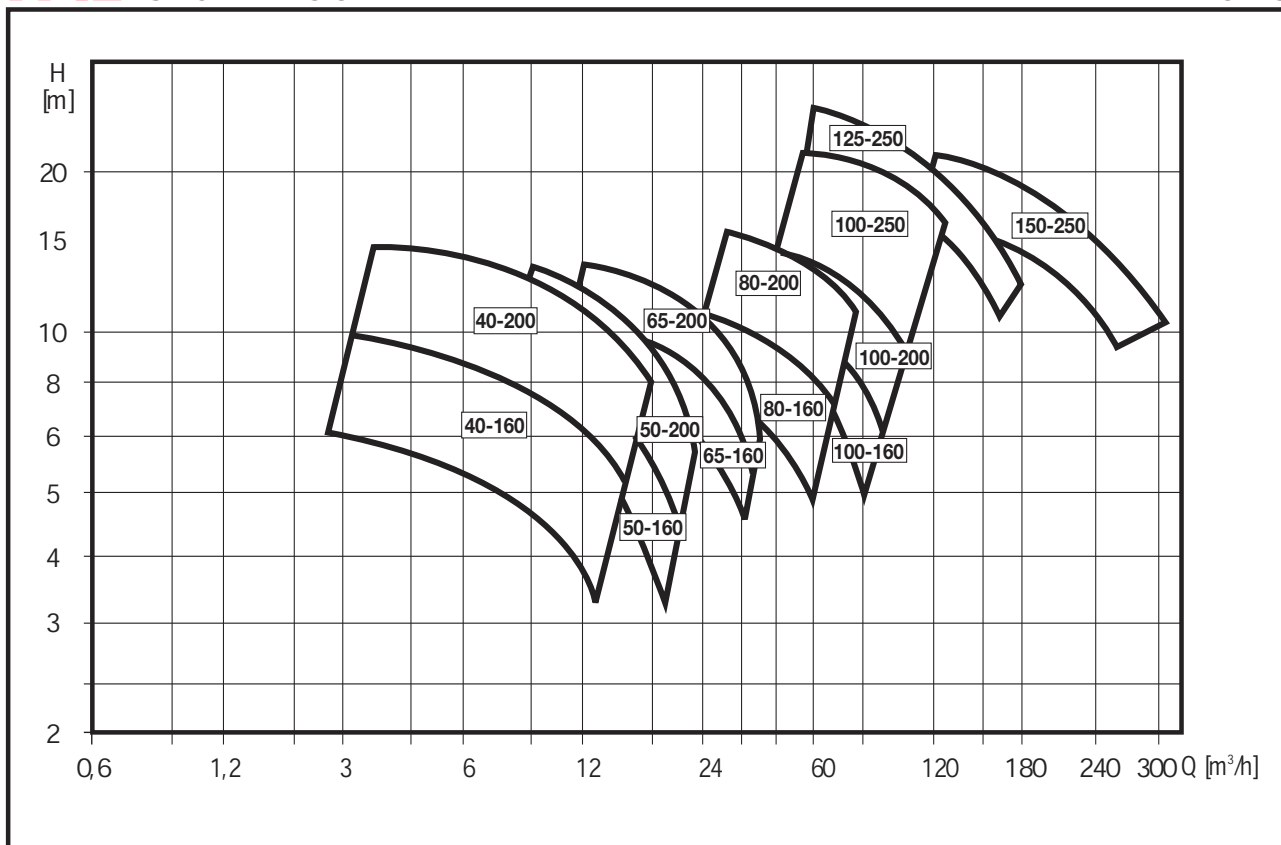
A2L SINGLE VERSION

2 POLES



A4L SINGLE VERSION

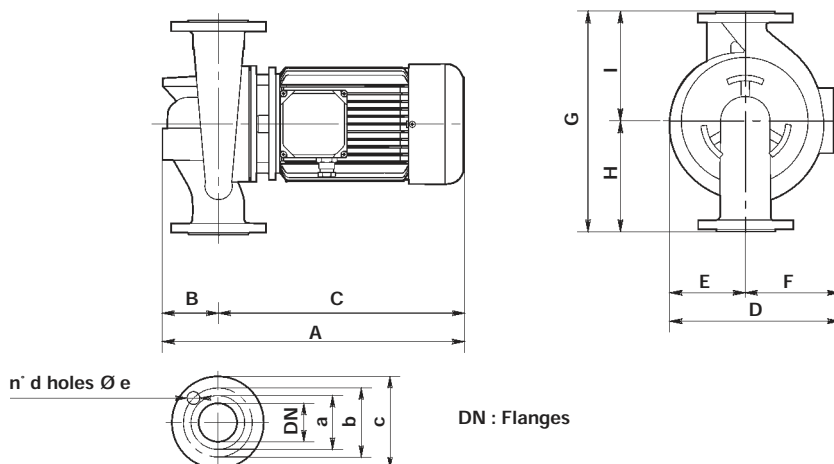
4 POLES



PUMP PERFORMANCE

CODE	MODEL	Motor power (Kw)	Amp.		n (min ⁻¹)	Q	L/T' m ³ /h	Discharge head in meters															
			3x400V	3x230V				200	225	250	300	350	400	450	500	600	700	800	900	1000			
N8020440	A4L 65 - 160Y	0,75	2	3,5	4 poli	Discharge head in meters	8,2	8	7,9	7,7	7,4	7,0	6,6	6,0	4,0								
N8020450	A4L 65 - 160X	0,9	2,4	4,2	4 poli		9,0	8,9	8,8	8,6	8,4	8,1	7,7	7,2	5,5								
N8020460	A4L 65 - 200Y	1,1	2,6	4,5	4 poli		12,4	12,2	12	11,5	10,8	10	9,0	8,0	5,8								
N8020470	A4L 65 - 200X	1,5	3,5	6,1	4 poli		14,3	14,2	14,1	13,7	13	12,3	11,3	10,2	7,8	5,0							
N8020180	A2L 65 - 125C	2,0	4,4	7,7	2 poli							17	16,5	16	15	13	11	9					
N8020170	A2L 65 - 125B	3,0	6,4	11	2 poli							21	20,5	20	19	17,5	16	14	12				
N8020190	A2L 65 - 125A	4,0	8,8	15,2	2 poli							25,5	25,3	25	24	23	21,5	20	18				
N8020200	A2L 65 - 160B	5,5	11,3	-	2 poli							32,5	32	31,5	30,5	29,5	28	26	23,5				
N8020210	A2L 65 - 160A	7,5	17,3	-	2 poli							37	36,5	36	35	34	32,5	31	29				
N8020220	A2L 65 - 200B	10	22,5	-	2 poli							51	50,5	50	48	45,5	42	39,5	37				
N8020230	A2L 65 - 200A	12,5	27	-	2 poli							58	57,5	57	55	53	50	46,5	42,5				

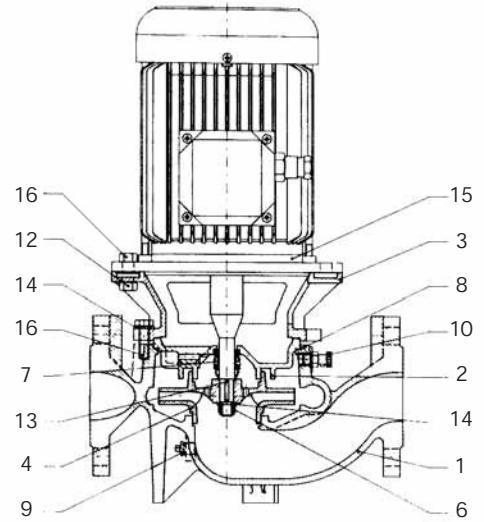
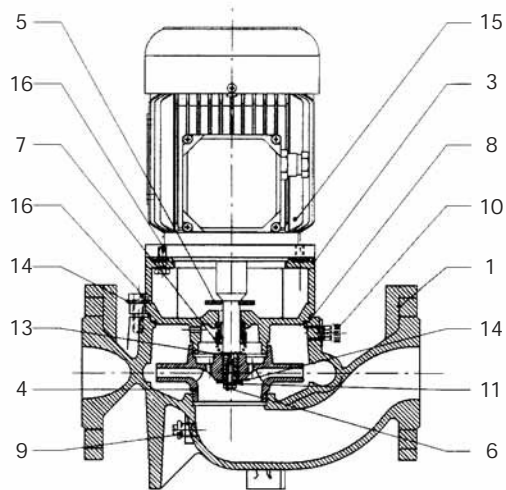
Counterflanges not included



DIMENSIONS AND WEIGHTS

Model	Motor	DN a DN m	Flanges mm.					Dimensions mm.										Weight (Kg)
			a	b	c	d	e	A	B	C	D	E	F	G	H	I		
A4L 65 - 160X	80	65 PN10	122	145	185	4	18	485	140	345	240	122	118	400	220	180	33	
A4L 65 - 160Y	80	65 PN10	122	145	185	4	18	485	140	345	240	122	118	400	220	180	32	
A4L 65 - 200X	90	65 PN10	122	145	185	4	18	525	140	385	285	136	149	440	240	200	40	
A4L 65 - 200Y	90	65 PN10	122	145	185	4	18	525	140	385	285	136	149	440	240	200	38	
A2L 65 - 125A	100	65 PN10	122	145	185	4	18	565	140	425	267	108	159	360	205	155	43	
A2L 65 - 125B	90	65 PN10	122	145	185	4	18	525	140	385	257	108	149	360	205	155	39	
A2L 65 - 125C	80	65 PN10	122	145	185	4	18	485	140	345	226	108	118	360	205	155	32	
A2L 65 - 160A	132	65 PN10	122	145	185	4	18	680	140	540	306	122	184	400	220	180	61	
A2L 65 - 160B	112	65 PN10	122	145	185	4	18	575	140	435	281	122	159	400	220	180	54	
A2L 65 - 200A	132	65 PN10	122	145	185	4	18	680	140	540	320	136	184	440	240	200	77	
A2L 65 - 200B	132	65 PN10	122	145	185	4	18	680	140	540	320	136	184	440	240	200	70	

Section view



1	Pump casing
2	Gland cover
3	Lantern - Cover cap
4	Impeller
5	Baffle
6	Impeller nut
7	Mechanical seal
8	Gasket

9	Drain plug
10	Vent plug
11	Spring washer
12	Hexagonal nut
13	Tab
14	Washer
15	Motor
16	Screw