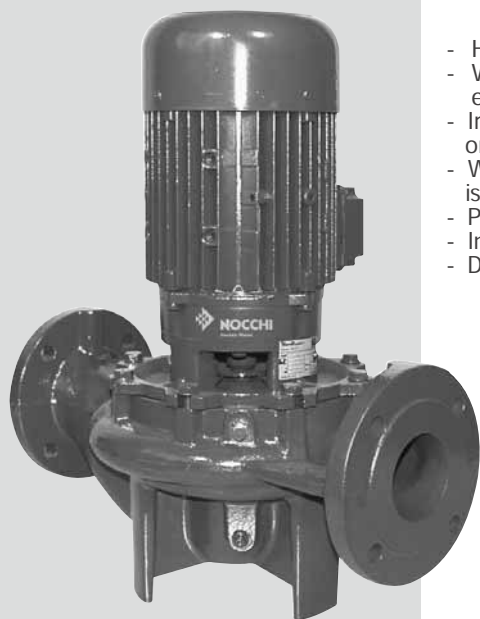


A2L - A4L

"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

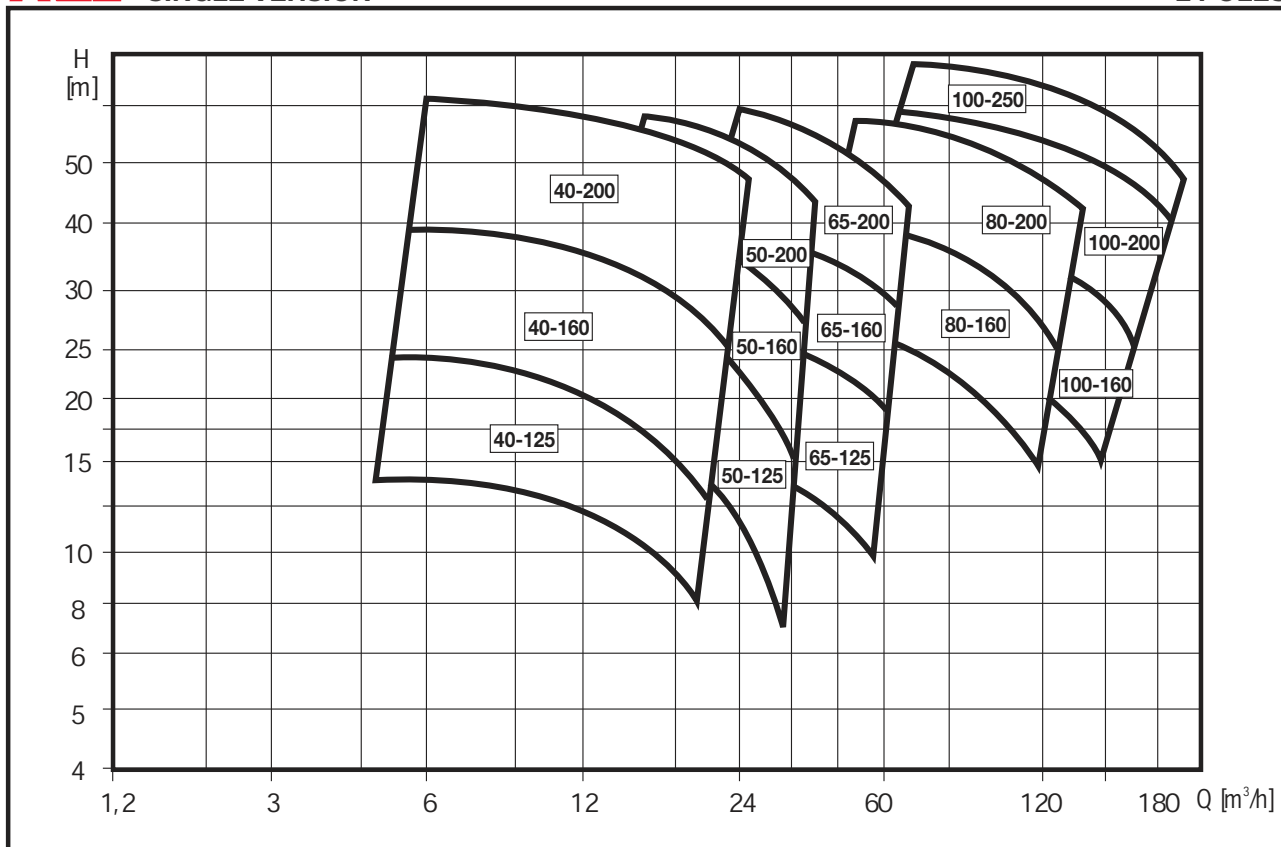
DESIGN FEATURES

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

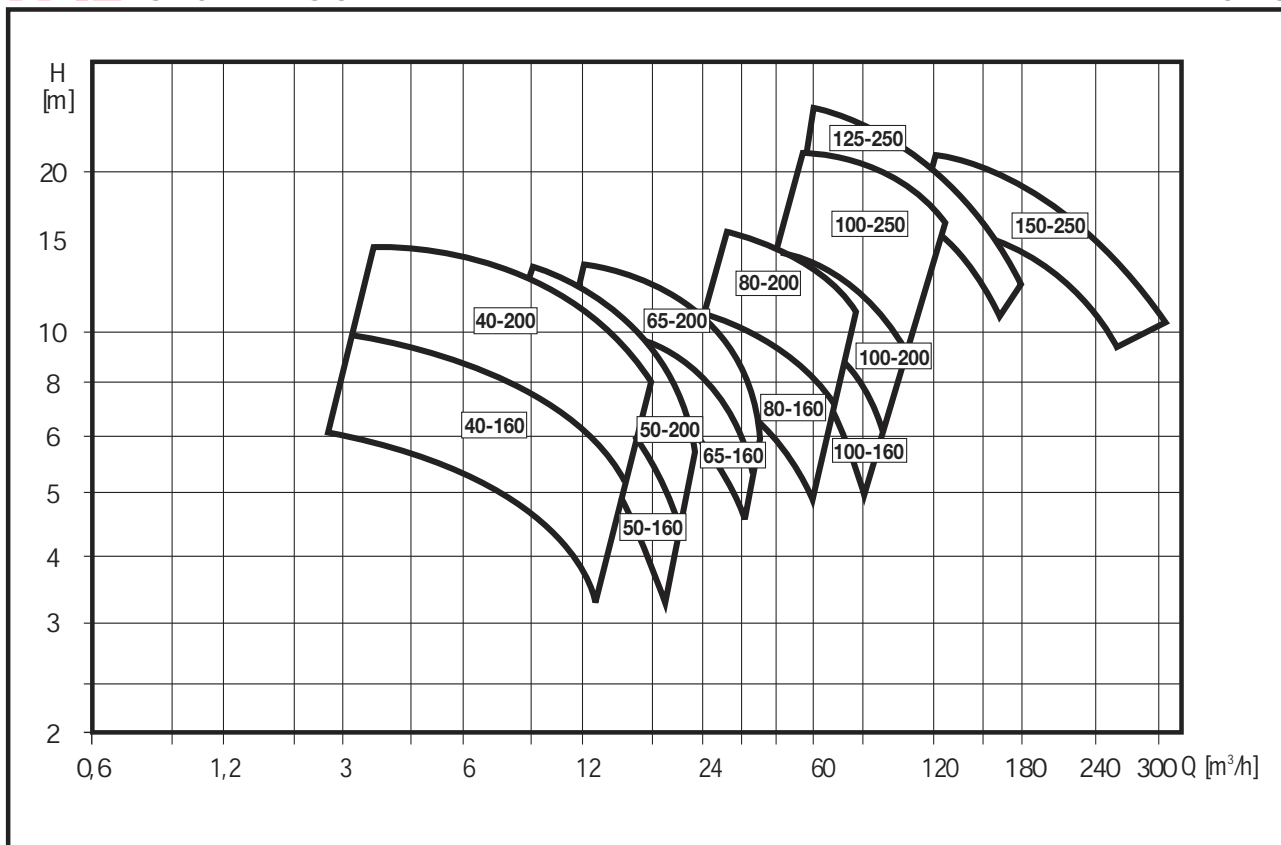
A2L SINGLE VERSION

2 POLES



A4L SINGLE VERSION

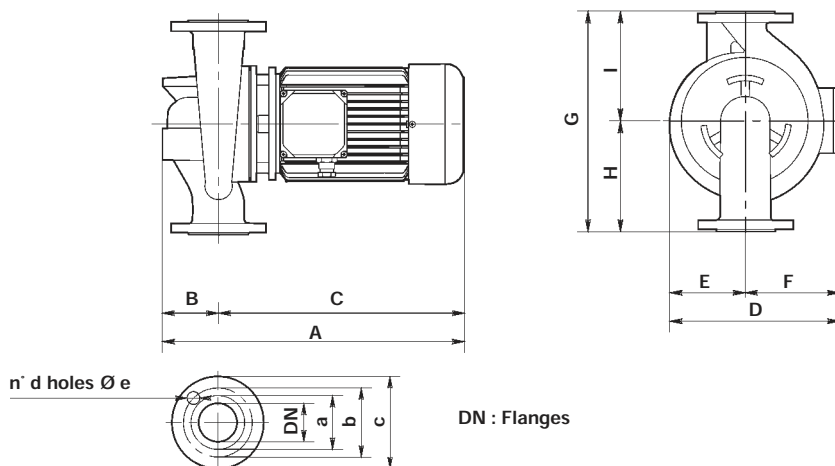
4 POLES



PUMP PERFORMANCE

CODE	MODEL	Motor power (Kw)	Amp.		n (min ⁻¹)	Q	L/1' m ³ /h	50	75	100	125	150	175	200	225	250	300	350	400
			3x400V	3x230V				3	4,5	6	7,5	9	10,5	12	13,5	15	18	21	24
N8020380	A4L 40-160X	0,37	1,15	2	4 poli	Discharge head in meters	9,4	9,2	8,9	8,3	7,7	6,9	5,8	4,7					
N8020390	A4L 40-200Y	0,75	2	3,5	4 poli		13	12,8	12,4	11,9	11,3	10,6	9,8	9	8	6			
N8020400	A4L 40-200X	0,9	2,4	4,2	4 poli			14,5	14,3	13,8	13,3	12,7	11,8	10,9	10	8			
N8020000	A2L 40-125C	0,75	1,9	3,3	2 poli				16,5	15,5	14,5	13,5	12,3	11	9,5	6			
N8020010	A2L 40-125B	1,0	2,4	4,2	2 poli				20,5	20	19	18	17	16	15	11,5	7,5		
N8020020	A2L 40-125A	1,5	3,6	6,2	2 poli				24,5	24	23,5	23	22	21	20	16,5	13		
N8020030	A2L 40-160C	2,0	4,4	7,7	2 poli				28,5	28	27,5	26,5	25,5	24	23	20	15		
N8020040	A2L 40-160B	3,0	6,4	11	2 poli				33,5	33	32,5	32	31	30	29	26	22,5		
N8020050	A2L 40-160A	3,0	6,4	11	2 poli				38	37,5	37	36	35	34	33	30	26,5		
N8020060	A2L 40-200C	4,0	8,8	15,2	2 poli				47	46,5	46	45	44	43	42	39,5	37,5	35	
N8020070	A2L 40-200B	5,5	11,3	-	2 poli				55	54,5	54	53,5	53	52	51	48	45	42	
N8020080	A2L 40-200A	6,3	12,8	-	2 poli				62	61,5	61	60	59	58	57	54	52,5	49	

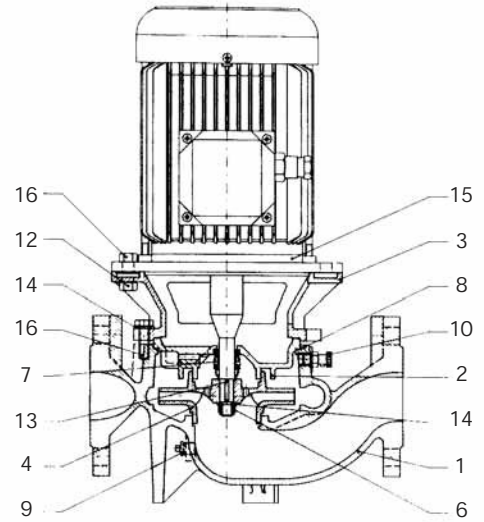
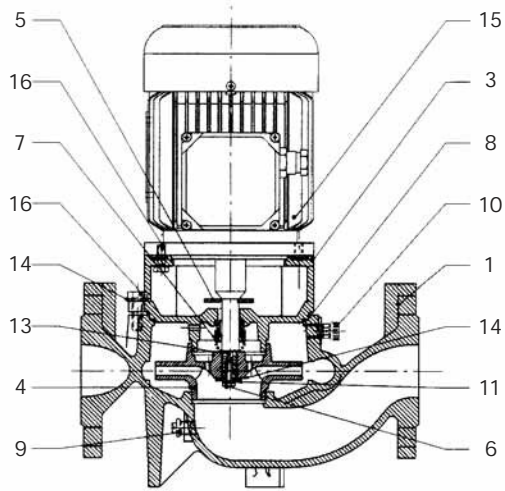
Counterflanges not included



DIMENSIONS AND WEIGHTS

Model	Motor	DNa DNm	Flanges mm.					Dimensions mm.									Weight (Kg)
			a	b	c	d	e	A	B	C	D	E	F	G	H	I	
A4L 40-160X	71	40 PN10	88	110	150	4	18	425	100	325	215	103	107	320	170	150	23
A4L 40-200X	80	40 PN10	88	110	150	4	18	445	100	345	245	127	118	380	200	180	31
A4L 40-200Y	80	40 PN10	88	110	150	4	18	445	100	345	245	127	118	380	200	180	30
A2L 40-125A	80	40 PN10	88	110	150	4	18	445	100	345	211	93	118	300	160	140	26
A2L 40-125B	80	40 PN10	88	110	150	4	18	445	100	345	211	93	118	300	160	140	25
A2L 40-125C	71	40 PN10	88	110	150	4	18	425	100	325	200	93	107	300	160	140	24
A2L 40-160A	90	40 PN10	88	110	150	4	18	485	100	385	257	108	149	320	170	150	37
A2L 40-160B	90	40 PN10	88	110	150	4	18	485	100	385	257	108	149	320	170	150	35
A2L 40-160C	80	40 PN10	88	110	150	4	18	445	100	345	226	108	118	320	170	150	30
A2L 40-200A	112	40 PN10	88	110	150	4	18	535	100	435	286	127	159	380	200	180	56
A2L 40-200B	112	40 PN10	88	110	150	4	18	535	100	435	286	127	159	380	200	180	55
A2L 40-200C	110	40 PN10	88	110	150	4	18	525	100	425	286	127	159	380	200	180	50

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