
Line

INK





INTRODUCTION

This catalog describes the entire range of pump models manufactured for our INK series.

It comprises technical information about construction and characteristic curves of each model. IMBIL and its distributors will always be at your disposal to provide any additional information and technical assistance.

NOTES

We reserve the right to make changes to our products whenever necessary, which shall not incur into obligations of any kind.

The illustrations in this catalog are indicative and in case there are any questions or concerns, please consult IMBIL or its DISTRIBUTORS.

APPLICATION INK

INK Chemical Pumps were developed to meet the needs of the chemical and petrochemical industries when pumping organic and inorganic chemicals.

It can be used in on the following industries: Irrigation, steel and sugar mills, pulp and paper, food and beverage, rubber, and synthetic fibers. It is also used to pump liquefied gases, the circulation of thermal oil, and condensed liquids.

They are particularly applicable when pumping liquids which are: extremely aggressive, must be kept clean, have high temperatures, have a high specific weight, or require special demands on the sealing of the shaft.

CONSTRUCTION

Horizontal pump with single stage horizontal suction and vertical discharge. Construction "BACK PULL- OUT", which allows for eventual back disassembly for maintenance and repair without affecting the alignment and fixation of the pipes.

Spiral casing with large passage casted in one piece incorporating the supporting feet.

The **Impeller** is a radial type, closed and with single flow. It has back vanes that compensate for axial thrust and prevent solids from being deposited on the back, in addition to substantially alleviate the pressure on the gland packing chamber. Joints are used for sealing between the rotor and the shaft.

The **shafts** are designed and manufactured to ensure fixation of the rotor and rigidity of the rotating set, which extends durability of the bearings. In order to protect the shafts from wear, protective bushings were provided. Sealing is ensured by the gland packing in standard version, or optionally by mechanical seal.



TECHNICAL DATA

		Models						
DATA		125-315	150-500	200-400	200-500	250-315	250-400	250-500
SUPPORT		P 45/120s	P 55/140s				P 65/160s	
GD ² ROTATING SET WITH WATER [KGM ²]		0,690	3,900	2,150	4,600	1,250	2,400	5,100
MINIMUM/MAXIMUM FLOW		0,1 Q good / 1,1 x Q good						
FLANGES		IRON		ANSI B 16.1 125 Lb FF				
		STEEL		ANSI B 16.5 150 Lb RF				
BEARINGS	PUMP SIDE		NU 311 C3	NU 313 C3			NU 413 C3	
	ENGINE SIDE		2 x 7311 BG	2 x 7313 BG			2 x 7315 BG	
LUBRIFICATION		OIL WITH AUTOMATIC RESUPPLY CUP						
DIRECTION OF ROTATION		CLOCKWISE, SEEN FROM DRIVER SIDE						
LUBRICANT VOLUM E [L]		0,5	1,5				1,8	
MAXIMUM P/N ADMI TTED [HP/RPM]		0,068	0,15				0,30	
☑ GLAND PACKING [MM]		10	12,5				12,5	

• Reserve Power

Power Required by Pump	Reserve Power for Engine actuation
Up to 10 hp	Approx. 20%
10 hp to 50 hp	Approx. 15%
Above 50 hp	Approx. 10%

Note: The minimum engine speed should not be less than 1.5 hp. In cases where the operating point is located close to the shut-off; a power reserve of approximately 50% should be expected.

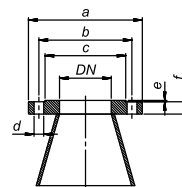
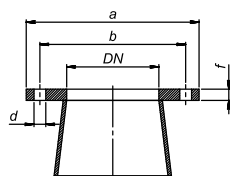
• Drive

The drive starts through elastic coupling with or without a spacer by Electric Motor, Combustion Motor, Turbine, etc. It is possible to start the drive by pulleys and belts as long as reinforced intermediate bearings are used.

• Accessories

Can be supplied optionally:

- IMBIL Standard Coupling or other manufacturers.
- IMBIL Standard Coupling Protector.
- IMBIL Standard Base.
- IMBIL Standard counter-flange.

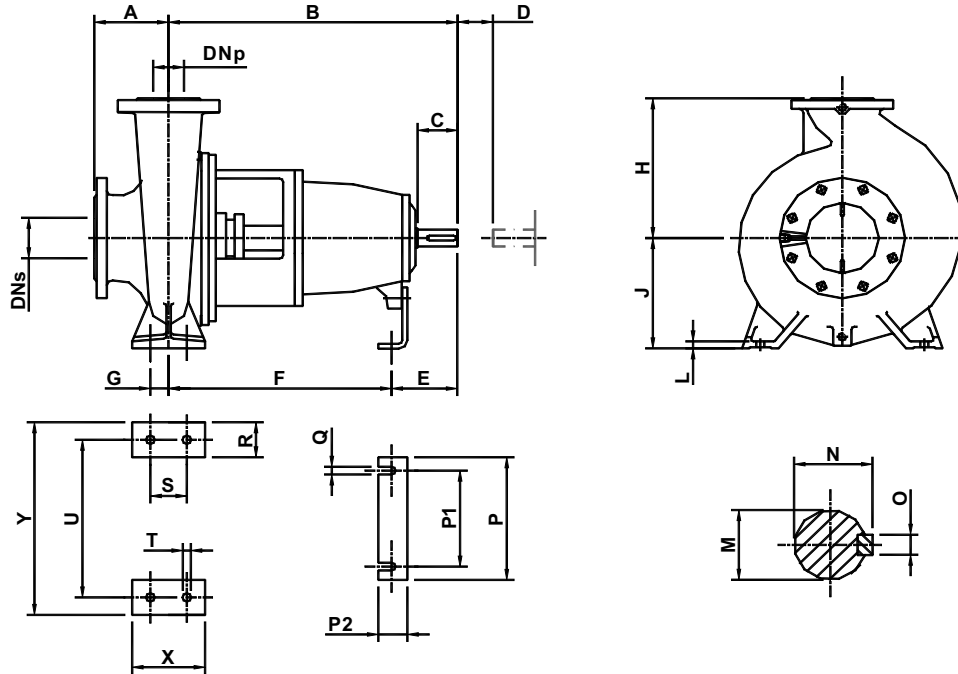


DN	Standard ANSI B16.1 FF	a	b	d	f	Qty. holes
125	125 Lb	254	216	22	24	8
	250 Lb	279	235	22	35	8
150	125 Lb	279	241	22	25	8
	250 Lb	317	270	22	36	12
200	125 Lb	343	298	22	28	8
	250 Lb	381	330	25	41	12
250	125 Lb	406	362	25	30	12
	250 Lb	444	387	28	48	16
300	125 Lb	483	432	25	32	12
	250 Lb	521	451	32	51	16

DN	Standard ANSI B16.5 RF	a	b	c	d	e	f	Qty. holes
125	150 Lb	254	216	185	22	1,6	24	8
	300 Lb	279	235	185	22	1,6	35	8
150	150 Lb	279	241	216	22	1,6	25	8
	300 Lb	317	270	216	22	1,6	36	12
200	150 Lb	343	298	270	22	1,6	28	8
	300 Lb	381	330	270	25	1,6	41	12
250	150 Lb	406	362	324	25	1,6	30	12
	300 Lb	444	387	324	28	1,6	48	16
300	150 Lb	482	432	381	25	1,6	32	12
	300 Lb	521	451	381	32	1,6	51	16



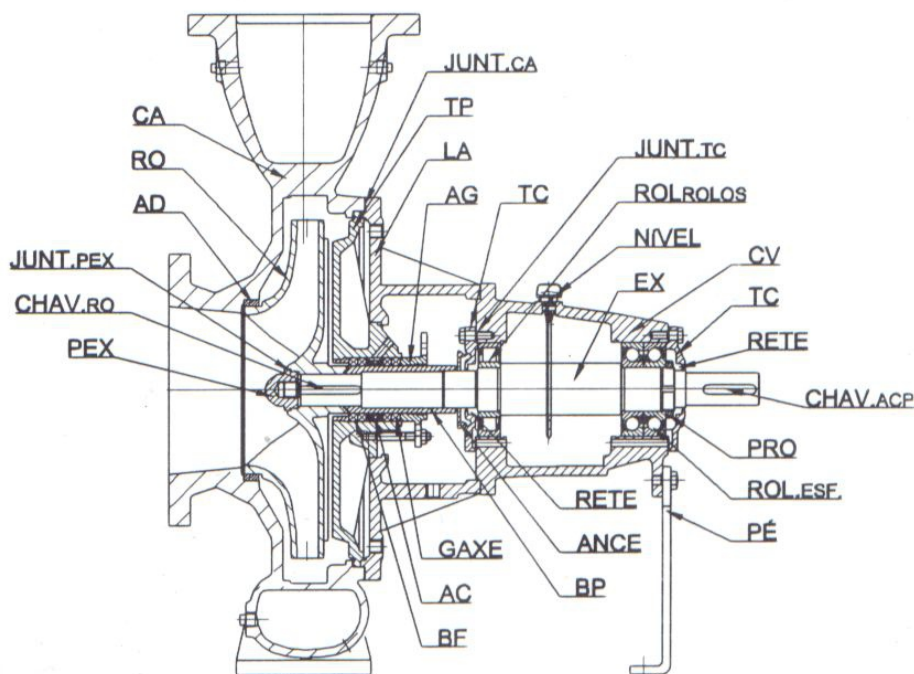
BASIC DIMENSIONS



MODELS	SUPPORT	DIMENSIONS																								
		DNs	DNp	A	B	C	D	E	F	G	H	J	L	M	N	O	P	P1	P2	Q	R	S	T	U	X	Y
125-315	P45/120s	150	125	140	530	110	140	160	370	75	355	280	20	42	45	12	160	110	52	14	100	150	23	400	200	500
150-500	P55/140s	200	150	180	670	110	180	170	500	75	500	375	22	48	51	14	200	140	60	18	100	150	23	450	200	550
200-400	P55/140s	250	200	180	670	110	180	170	500	75	500	355	22	48	51	14	200	140	60	18	100	150	23	450	200	550
200-500	P55/140s	250	200	200	670	110	180	170	500	75	560	425	22	48	51	14	200	140	60	18	100	150	23	560	200	660
250-315	P55/140s	300	250	250	670	110	180	170	500	95	560	400	26	48	51	14	200	140	60	18	130	190	28	560	260	690
250-400	P65/160s	300	250	200	720	140	180	205	515	95	600	425	26	60	64	18	200	140	60	18	130	190	28	670	260	800
250-500	P65/160s	300	250	200	720	140	180	205	515	95	670	475	26	60	64	18	200	140	60	18	130	190	28	670	260	800



LIST OF PARTS



Código	Qtde.	Descrição
AC	01	Lantern Ring
ANCE	01	Centrifuge Ring
AG	01	Stuffing Box Gland Packing
BF	01	Back Bushing
BP	01	Protective Sleeve
CA	01	Casing
CV	01	Easel
CHAV.ACP	01	Coupling key
CHAV.RO	01	Rotor Key
EX	01	Axis
GAXE	04	Gland Packing
JUNT.CA	01	Casing Joint
JUNT.PEX	01	Joint on the axel nut
JUNT.TC	02	Gland Packing cover for easel
LA	01	Lantern
PÉ	01	Support Leg
PD	01	Wear Ring
PEX	01	Axel nut
PRO	01	Bearing nut
RETE	02	Retainer
ROL.ESF	01	Ball Bearing
ROL.ROLO	01	Roller Bearing
RO	01	Rotor
TP	01	Pressure Cap
TC	02	Easel Cover
NIVEL	01	Oil dipstick (to check level)



AREA OF 120.000 SQUARE METERS

- | | | | | |
|---|---------------------------------------|---|------------------------------------|-----------------------------------|
| F1. Medium-sized pumps | F3. Center for the development | F5. Small pumps | F7. Precision casting | F10. Pumps for oil and gas |
| F2. Foundry cast iron and INOX/WCB | F4. Large pumps | F6. Contracts and maintenance services | F8. Coupling and expedition | |

IMBIL - Generating Pumping Solutions

Growing in the global pumping market, IMBIL - Industries and Maintenance of Pumps ITA Ltda., is located in the city Itapira, Sao Paulo on its own area of 120,000 square meters.

IMBIL disposes of advanced technical resources, practices of modern Administration and Engineering techniques, and the constant development of competencies, skills and attitudes of employees.

Our Quality Management System is certified by the international standard ISO 9001-2000 - "Bureau Veritas Certification."

Currently IMBIL has accelerated the development of its Integrated System of Social and Environmental Management.

All Commercial, Administrative and Industrial functions of IMBIL are fully interconnected by Management software in a network with more than a hundred stations that are connected by wireless fiber optic.

Supported by three privately owned Modeling Foundries, IMBIL is self-sufficient in the production of their castings, which attends the most varied materials, especially those resistant to abrasion and corrosion.

IMBIL uses Lean Manufacturing – a philosophy that aims to reduce the time between order placement and shipment of the product - which results in greater flexibility and shorter delivery times to customers.

IMBIL offers an appropriate and personalized Pre-sales service, from initial startup up to the maintenance of the equipment. IMBIL also, under Contract of Services, provides pumping installations for Sugar and Methanol, Steel, Mining, and other Industries in general.

This whole set of Human, Technological, and Financial resources are focused on IMBIL's Mission - "Provide pumping solutions and associated services to meet the needs and desires of its customers in the global market", while also respecting ethical principles that guide their relations with employees, partners, the environment and the society.

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