

Generalities

The horizontal single stage close coupled pumps of the range HMI-B are intended for the pumping of fluids requiring stainless steel construction in the most various fields of industrial activities.

For the installation of self priming pumps, SOMEFLU offers three possibilities depending on the type of fluids and performances required:

- Use a vertical pump.
- Use an horizontal pump with a priming tank.
- Use a self priming pump.

HMI-B pumps are recommended in case of suction lift is lower or equal to 1 m when starting

For higher suction lifts, our self priming pumps HMI-A type or HMI-N/S with priming tank are more suitable.

HMI-B range pumps offer flows rates up to 20 m³/h (88 US gpm) and a discharge head up to 30 mcl (98 ft).



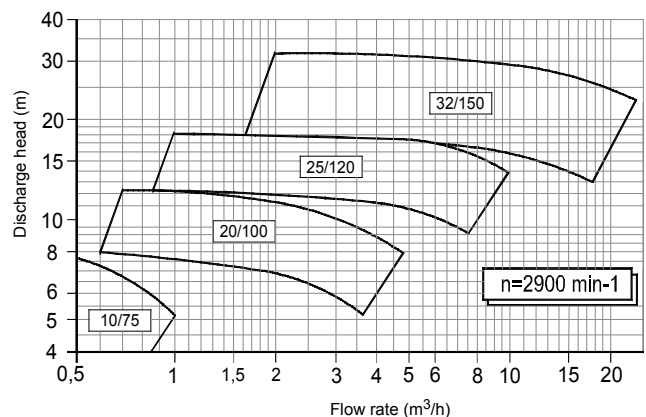
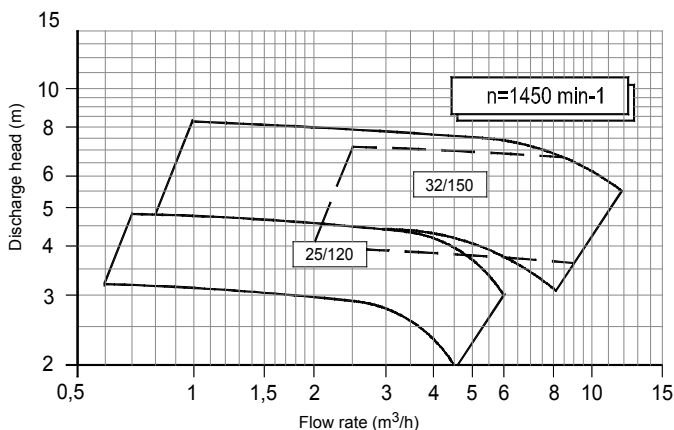
ATEX Conformity 

For the EC zone, HMI-B pumps are available certified as per ATEX 94/9/CE.

II 2/3 GcT4 (others on demand).

Voluntary certification INERIS 06 ATEX 3005X.

Diagrams



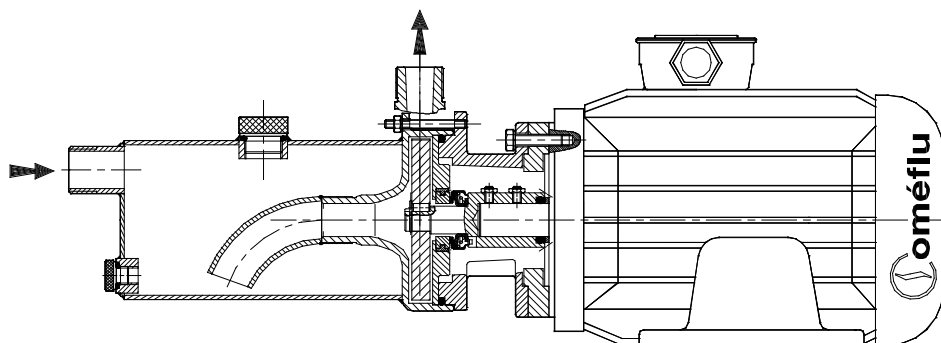
Construction

All components in contact with pumped liquid are made of Stainless Steel X2 Cr Ni Mo 17-12-2 (AISI 316L).

Sealings

HMI-B pumps can be mounted with different mechanical seals depending on the fluid pumped:

- Single acting mechanical seal.
- Double acting mechanical seal.
- Magnetic drive.



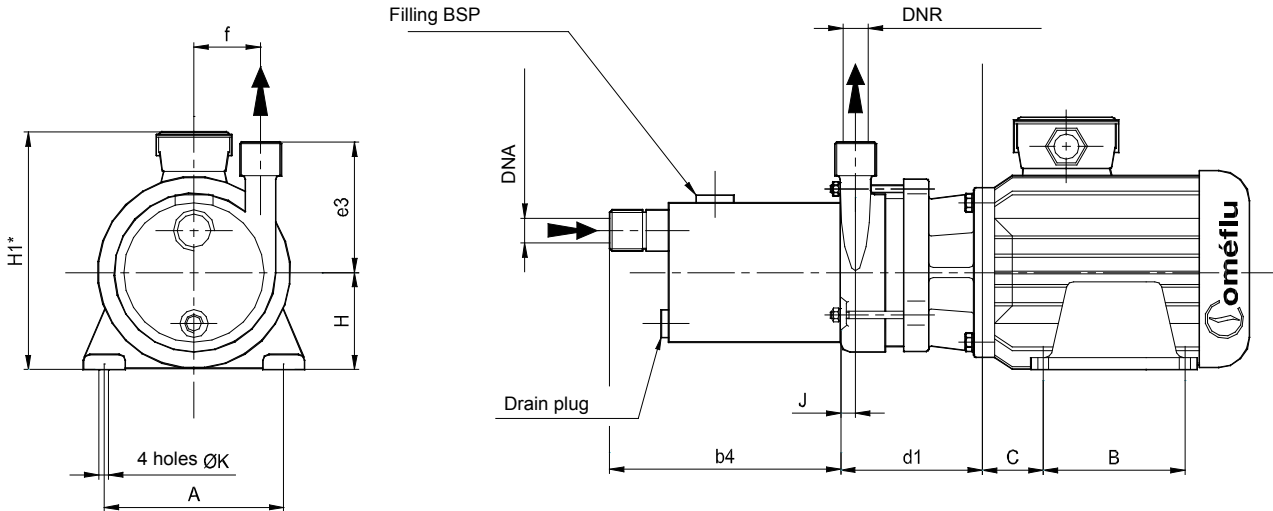
Application fields

- Food industry, pharmaceutical industry and nuclear industry.
- Laboratories.
- Transfert of aggressive solutions.
- Unloading of trucks, tank and containers.
- Cryogenic.
- Hot liquids.
- Cosmetics.
- Solvents.

Main advantages

- Self priming up to 1m depending on model and installation.
- Motors normalized as per IEC standard.
- Simplified maintenance.
- Many common spare parts with HMI-N/S pumps.

Dimensional drawing



Types	Flanges		Motor three phases - IP55								Pumps dimensions						
	DNA	DNR	2900	1450	Motors dimensions						Tank capacity (liters)	b4	e3	f	j	d1	
			kW	kW	A	B	C	H	H1*	K							
20/100	25	20	0,45		100	80	32	63	145	7	0.6	507	99	43	11	75	
	"	"	0,75		125	100	50	80	203	9							85
	"	"	1,1		"	"	"	"	"	"							"
25/120	32	25	1,1	0,75	125	100	50	80	203	9	1.5	531	119	50	12,5	90,5	
	"	"	2,2		140	125	56	90	223	10							105,5
32/150	40	32	2,2	1,1	140	100	56	90	223	10	4	666	138	63	16,5	129,5	
	"	"	3		160	140	63	100	238	12							119,5
	"	"	4		190	"	70	112	250	"							"
	"	"	5,5		216	"	89	132	280	"							147,5

Operation principle

When the pump starts, the depression created by the pumping of the fluid in the tank allows to rise the fluid contained in the suction pipe.

- **Use I** : The suction pipe remains flooded after the pump stop. Self priming is ensured again for the next start.
- **Use II** : Liquid level goes down until B level and the end of suction pipe can be unflooded. The height V of discharge pipe must be sufficient in order that its capacity is equal to that of the tank, thus having regeneration by gravity when the pump is stopped.

