GENERALITIES

The horizontal, single stage centrifugal pumps of the HMP-A range are intended for the pumping of clear corrosive liquids in the most various fields of industry.
SOMEFLU offers, for the installation of pumps with suction lift, three possibilities as a function of the nature of liquids and the required pumping characteristics.

- **Use of a vertical pump.**
- **Use of a horizontal pump with priming tank**
- **Use a self-priming pump HMP-A.**

The HMP-A range offers flow rates up to 20 m³/h (88 US gpm) and a discharge head up to 25 mcl (82 ft).

Construction

The hydraulic part is entirely realized of thick walled plastic materials.
There is no metallic component in contact with the pumped liquid.

› *Polypropylene PP or PP-EL*
› *PVC*
› *PVDF or PVDF-EL*

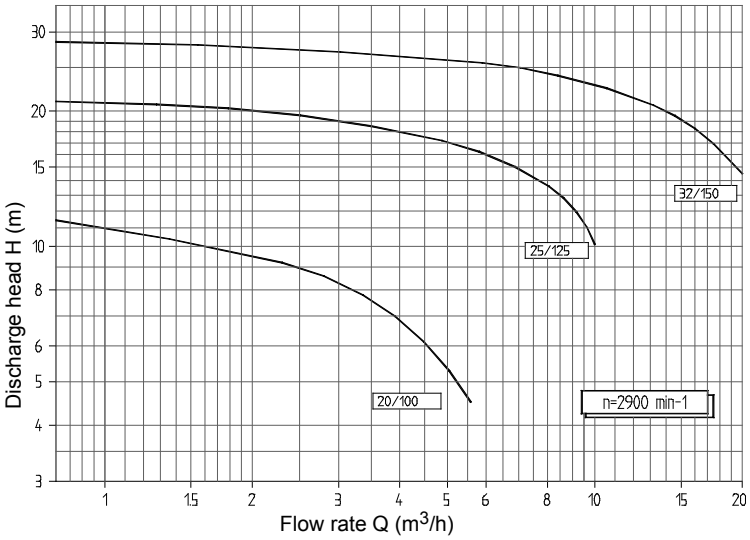
Sealing

The HMP-A pumps can be equipped with different types of sealing depending of the nature.

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

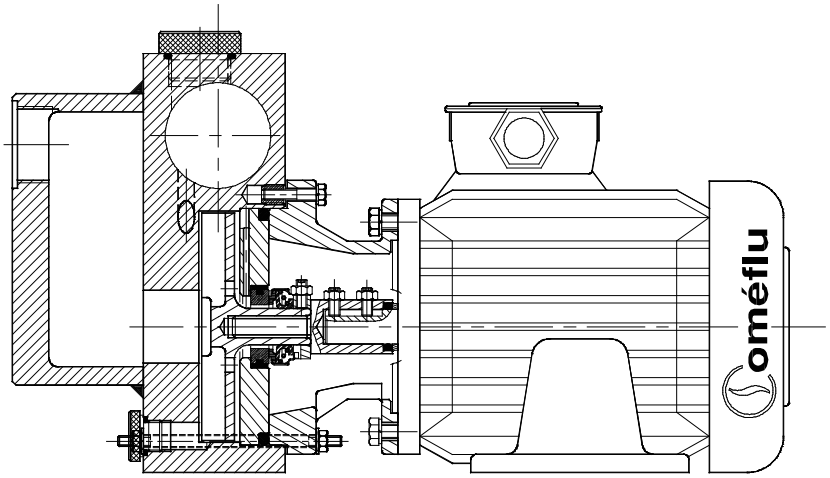
ATEX Conformity

For the EC zone the HMP-A pumps are available as per ATEX 94/9/CE.
II 2/3 GcT4 (others on demand)
Voluntary certification INERIS 04 ATEX 3008X



Application fields

- **Lifting and transfer of all corrosive liquids.**
- **Pit drainage.**
- **Emptying of trucks, tanks and containers.**
- **Installations for treatment of fresh water and chemical process waste water.**
- **Units for surface treatment, pickling, galvanization.**



Main advantages

- **Reliability and robustness due to the construction machined from block.**
- **Motors normalized as per IEC standards.**
- **Simplified maintenance.**
- **Many components common with the range HMP-N/S.**

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Corrosion Resistant Centrifugal Pumps
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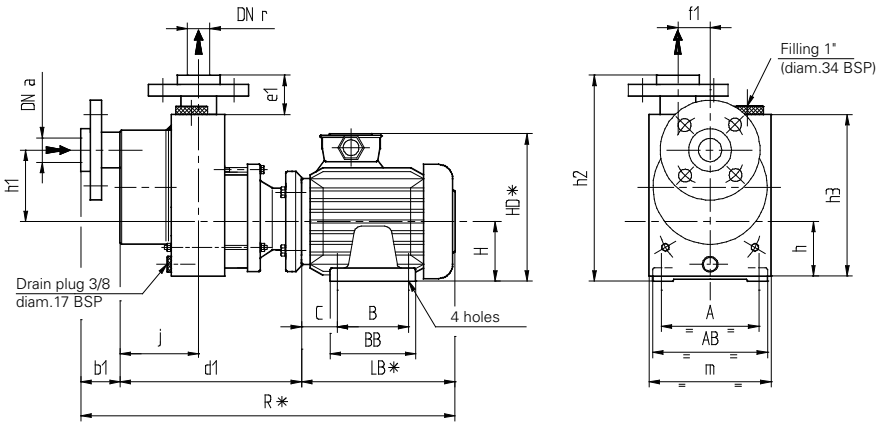
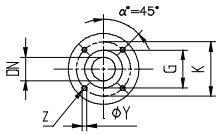
PLASTIC CLOSE COUPLED PUMPS
HMP-A SELF PRIMING





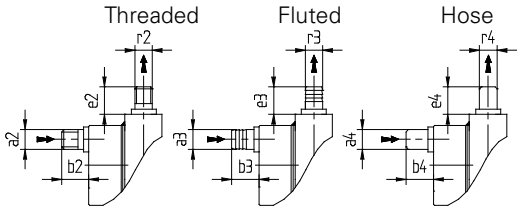
Connect pipes on pump without strain!

Flanges ISO PN16				
DN	K	Y	Z	G
20	75	14	4	40
25	85	14	4	50
32	100	18	4	60
40	110	18	4	73

Types	Motors		Flanges		Pump dimensions								Sealing		Motor dimensions										Pump weight
	Type	P(Kw)											E3	E8								E3	E8		
		2900	DNa	DNr	b1	e1	f1	h	h1	h2	h3	j	m	d1	d1	H	A	AB	B	BB	C	HD*	K	LB*	R*	R*	kg
20/100	63 E	0,45	25	20	50	45	35	63	88	230	185	86	150	182,5	214	63	100	127	80	96	40	145	7	185	417,5	449	8
	71 L	0,55**								238						71	112	126	90	104	45	170	7	195	427,5	459	8
	80 L	1,1								247				192	223	80	125	157	100	120	50	203	9	215	457	488	12
25/125	80 L	1,1	32	25	55	50	45	80	100	280	230	103	170	211	245	80	125	157	100	120	50	203	9	215	481	515	16
	90 L	2,2								290				226	260	90	140	172	125	162	56	223	10	245	526	560	20
	100 L	3								300				234	268	100	160	196	140	165	63	238	12	290	579	613	24
32/150	90 L	2,2	40	32	60	55	50	100	110	320	265	110	195	256	290	90	140	172	125	162	56	223	10	245	561	595	19
	100 L	3								320				246	280	100	160	196	140	165	63	238	12	290	596	630	23
	112 M	4								332				246	280	112	190	220	140	165	70	250	12	290	596	630	30

One phase motor

*ATTENTION: subject to change depending on manufacturers



Types	Threaded				Fluted				Hose			
	a2	b2	r2	e2	a3	b3	r3	e3	a4	b4	r4	e4
20/100	1"	40	3/4"	35	27	50	21	45	32	34	25	30
25/125	1 1/4"	45	1"	40	32	55	27	50	40	39	32	34
32/150	1 1/2"	50	1 1/4"	45	42	60	32	55	50	42	40	39

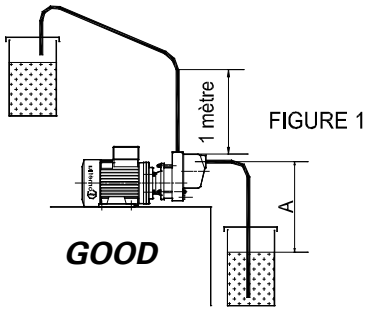


FIGURE 1

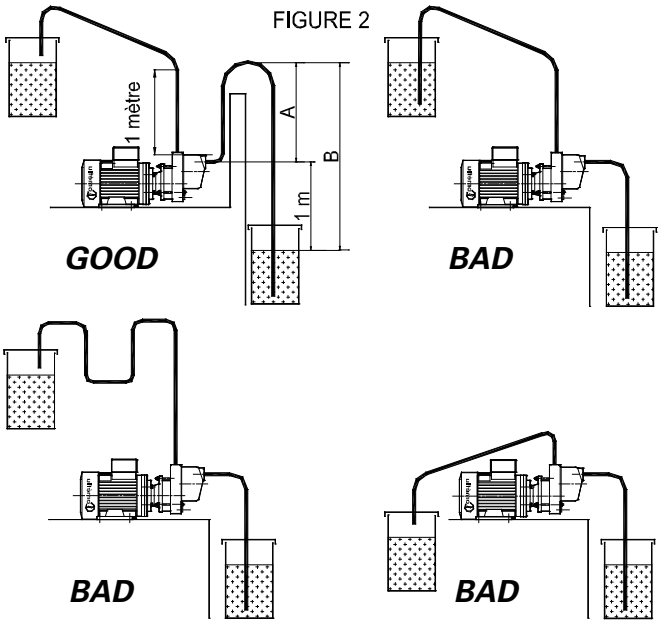


FIGURE 2

Priming time - clear water at 20°C											
Types	DNA	DNR	FIGURE 1					FIGURE 2				
			A = 1m	A= 2m	A= 3 m	A= 4 m	A= 5 m	A= 0.5 m B= 1.5 m	A= 1 m B= 2 m	A= 2 m B= 3 m	A= 2.5 m B= 3.5 m	A= 3m B= 4 m
20/100	25	20	50"	1'28"	2'31"	3'50"		53"	1'25"	5'30"		
25/125	32	25	25"	35"	46"	1'20"	1'40"	26"	38"	1'04"	1'22"	3'09"
32/150	40	32	25"	36"	55"	1'24"	2'22"	35"	50"	1'26"	2'07"	

Installation

A self-priming pump must evacuate at each start-up the air contained in the suction pipe. The layout of the discharge pipe must permit the evacuation of the air ejected by the pump.

- **Avoid valves on discharge side.**
- **Avoid bends.**
- **Avoid immersion of the discharge pipe into the liquid.**

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