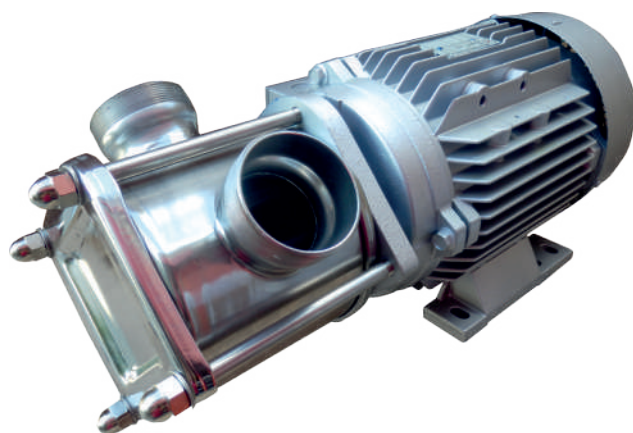


**Volumetric Stainless Flexible Impeller Pumps**, are mostly suitable for the transfer of delicate, fragile and viscous medium, also with solid parts in suspension.



## Features

- ✓ Immediate priming at a depth of up to 5 meter, even when running dry
- ✓ Flow reversibility
- ✓ Low speed motor, which ensures a gentle pumping action for delicate liquids
- ✓ Continuous and regular pumping action
- ✓ Capacity to handle viscous and solid-laden liquids
- ✓ High thickness steel (3/4mm) which ensures a higher mechanical and corrosion resistance, and therefore a longer life
- ✓ Monobloc pump casing casting for higher strength and a better seal
- ✓ The cleaning and replacement of the mechanical seal and of the impeller are incredibly simple as the pump can be taken apart with ease
- ✓ Flexible impeller made of entirely non-toxic synthetic rubber (Neoprene , NBR , EPDM) and resistant to different acids
- ✓ Mechanical seal made of INOX/GRAPHITE/ NBR/EPDM or Tungsten/Tungsten/NBR/EPDM

## Technical data

Body Material	AISI 304L
Impeller :	CR , NBR , EPDM
Max. Capacity	55 m <sup>3</sup> /h
Max Head	25 mt
Max Temperature	90°C
Intake / delivery connections	3" BSP M - DN80 DIN 11851 on request
Motor	6.0 HP 380V3/50Hz / 700 rpm

**The AD Flexible impeller pumps are widely used:**



**In food processing**  
Honey, yogurt, beer, fruit pulp and juice, glucose, brine, syrups, melted butter, liquid sugar, eggs in liquid form, tomato pulp e.t.c

**In the oenological field**

Stemmed grapes, wine, must, e.t.



**In cosmetics industry and in the production of pharmaceutical products**

Cleaning lotion, cream, shampoo, liquid soap, e.t.c

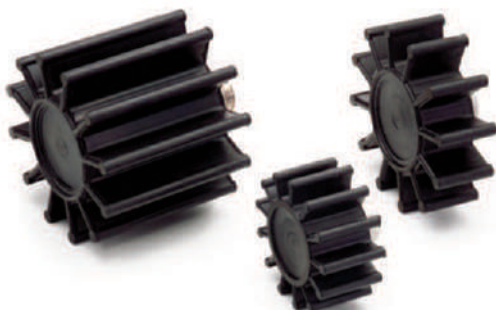
**In the chemical industry**

Paint, ink, water based glues, rubber latex, glycerine, wax, emulsion starch, liquid for photograph process, industrial discharges, polyelectrolyte, detergents e.t.c



**Impeller made of non-toxic rubber**

The impeller is made of synthetic rubber (Neoprene, EPDM, NBR) and is entirely non-toxic and resistant to several acids. Our impellers complies with the American FDA regulations related to the handling of food grade liquids



**Pump casing formed as a single piece**

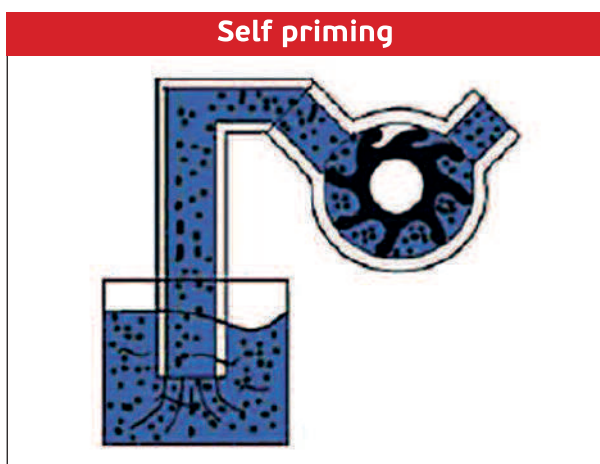
All pump casings are constructed from high thickness stainless steel sheet metal, which ensures quality and long life. The pump casings undergo continuous quality controls of the welds and are internally and externally polished to ensure the highest level of hygiene



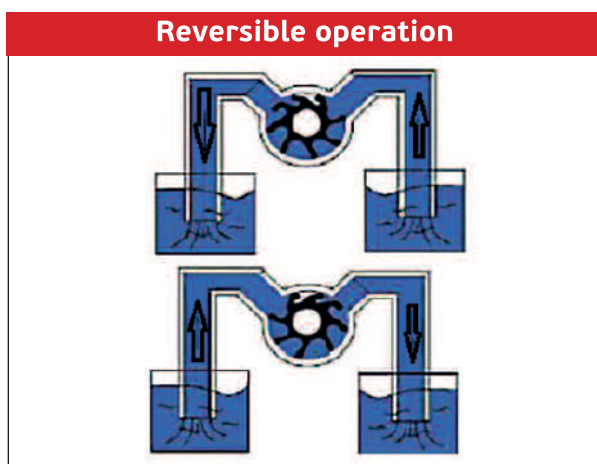
## Mode of operation - Advantages

### Basic pump characteristics

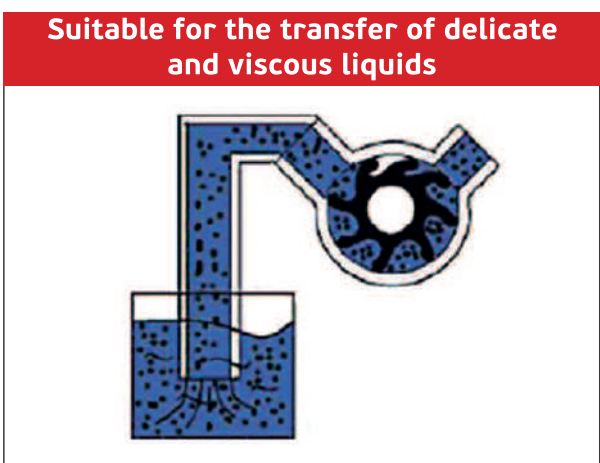
The Positive Displacement Flexible Impeller pumps, defuse the vane at the suction side. As a consequence, an intense vacuum is being created and we have the possibility for automatic suction from a depth of 6 m from a dry position. The vanes at the discharge will slightly bend, with the result being the medium to be transferred towards the exit. That way, we manage the smooth transfer of the medium at the exit without a pulse.



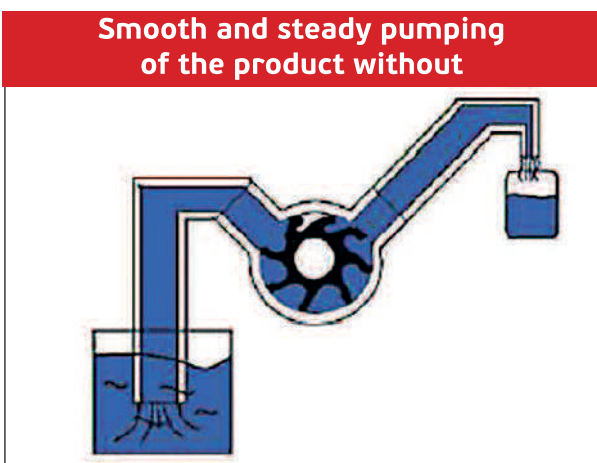
Self priming of the product up to 6m, even from a dry starting point within a few seconds.



The pump can work in both the 2 directions of operation with interchange of the flow of the liquid inside the network without a problem, as many times as we want with a simple interchange of the motor direction.

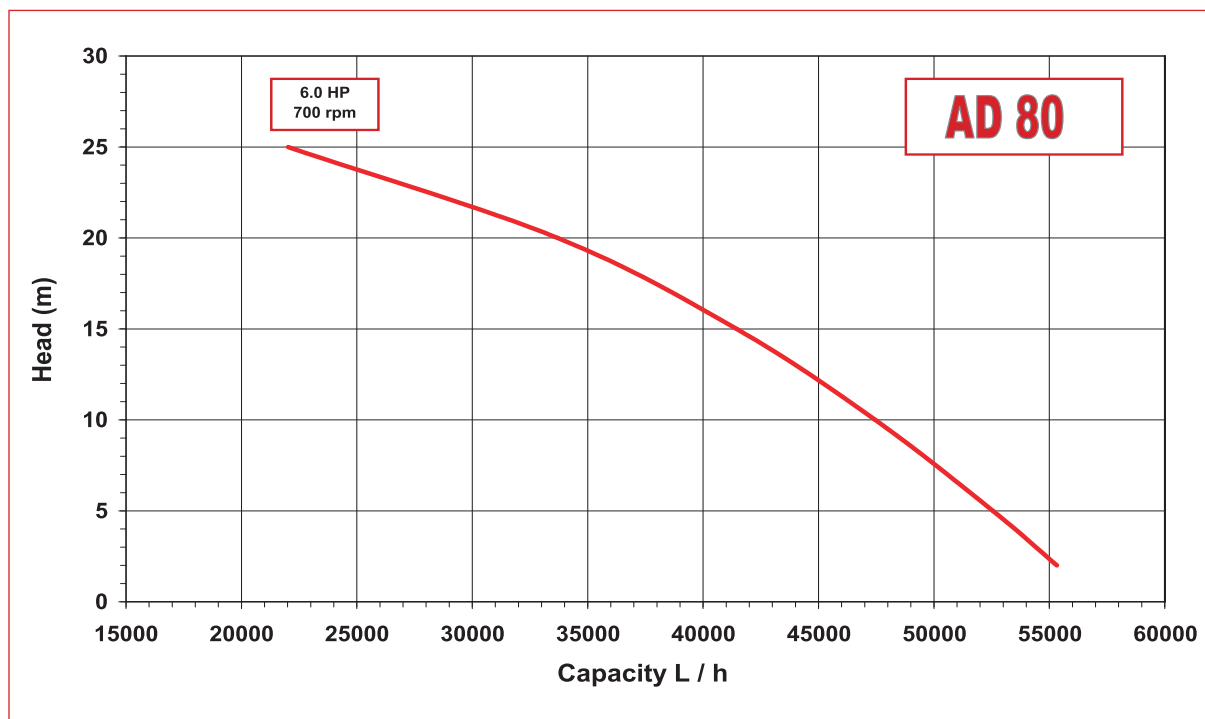


Up to 75.000 cps, even with solid suspension, without any wear out or damage.

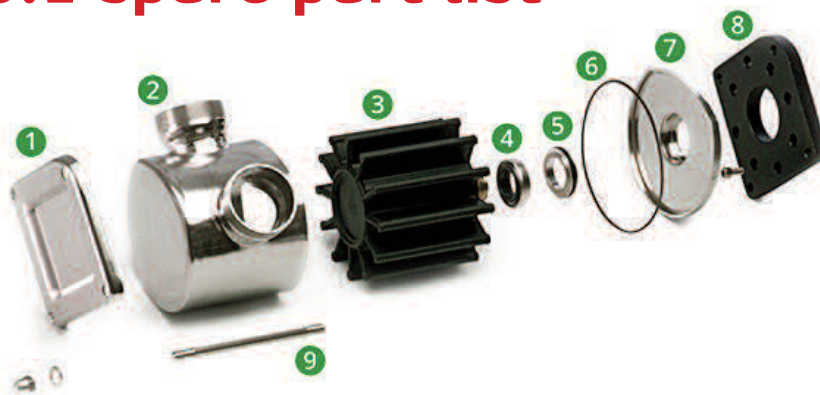


pressure from the spikes (even flow rate is ideal for filling, dosing or filtration)

## Performance curves

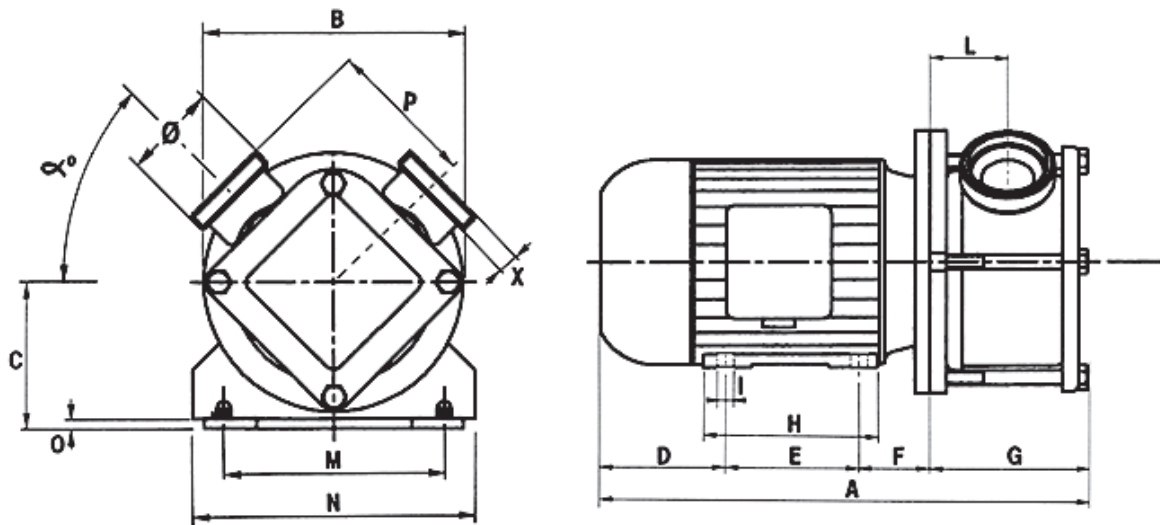


## AD 80.1 spare part list



Pos	DESCRIPTION	MATERIAL
1	Flange	Stainless steel 304L
2	Pump casing	Stainless steel 304L
3	Impeller	CR , EPDM , NBR
4+5	Mechanical seal	INOX/Graphite/NBR/EPDM or Tungsten/Tungsten NBR/EPDM
6	Bosy seal ring	NBR , EPDM
7	Seal disc	Stainless steel
8	Flange	Aluminium

## Dimensions

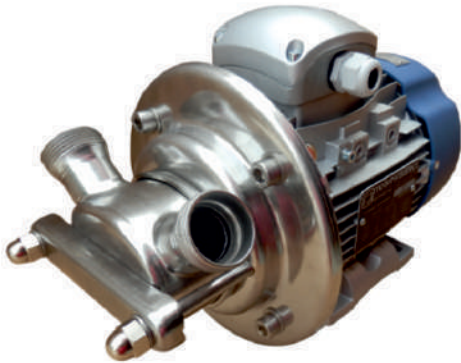


TYPE	A	B	C	D	E	F	G	H	I	L	M	N	O	P	X	$\alpha^\circ$	$\emptyset$
AD 80	660	250	134	190	140	120	235	218	13	85	215	261	16	160	22	45°	BSP G 3" - DN80 DIN 11851 on request

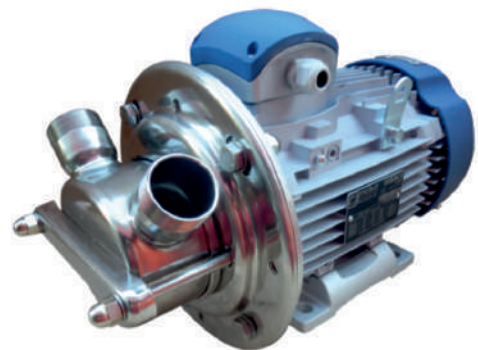


## AD 80 Flexible impeller Pump

---



*We Make The Difference*



### **Headquarters / Factory**

59 Km Nat. Road Athens-Lamia

32011 Inofita Greece

Tel +30 215 215 9520, +30 215 215 9580

e-mail:sales@alphadynamic.eu

www.alphadynamic.eu