



**Vacuum Technologies**  
A Unit of ASCO POMPE

# LIQUID RING VACUUM PUMP Model AVA 606-806



## PERFORMANCE FEATURES

- Vary port valve design for optimum efficiency across all inlet pressures.
- Near-isothermal compression to safely handle any thermally sensitive and explosive gas.
- Right choice for any wet process.
- ENEC TR CU 010/2011 certification.
- ENEC TR CU 012/2011 certification.
- Flexibility in motor selection for special and hazardous applications (ATEX).

TÜV IT 19 ATEX 049 AR

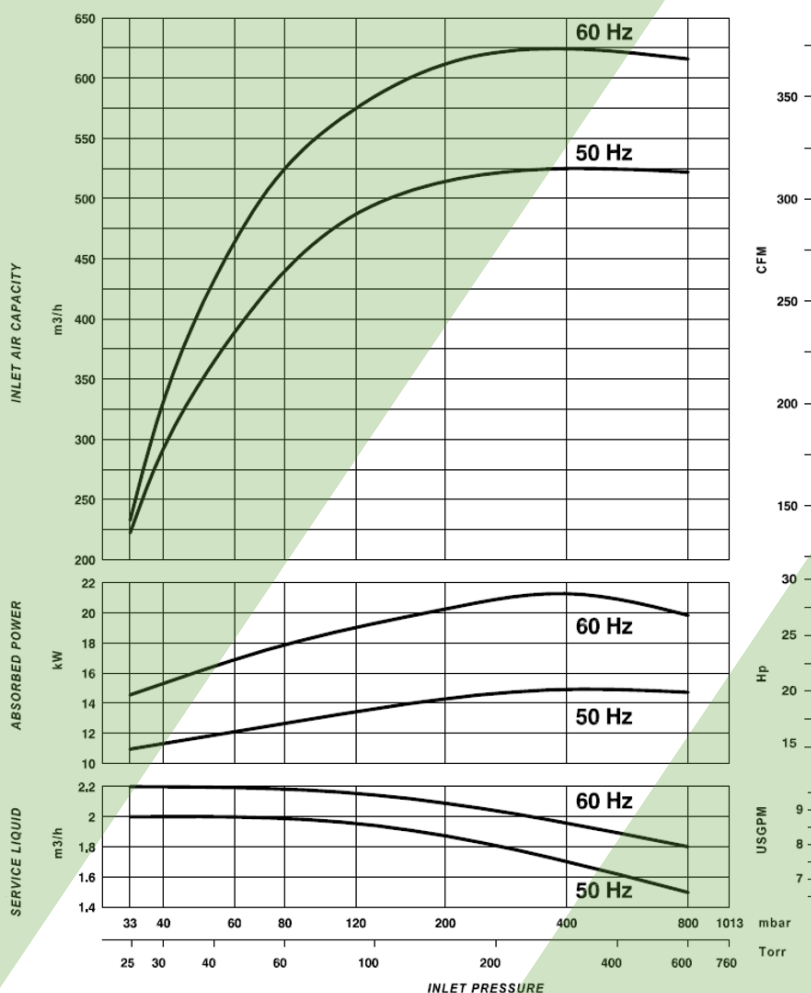


### NOTES :

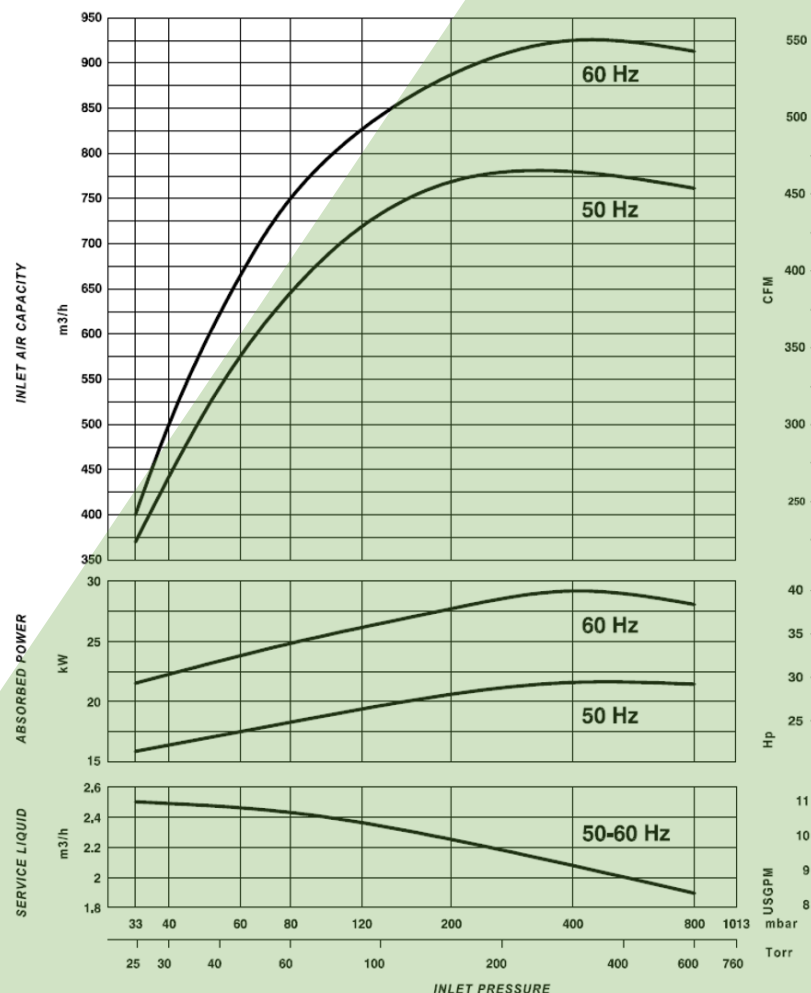
The given data are referred to dry air at the temperature of 20°C, at the atmospheric discharge pressure (1013 mbar), and of supply of service water at 15°C temperature. Performances tolerance  $\pm 10\%$ .

Product specifications and data are subject to change without notice.

## Model AVA 606



## Model AVA 806



Performance test in compliance with PNEUROP 6612

# LIQUID RING VACUUM PUMP

**Model AVA 606-806**



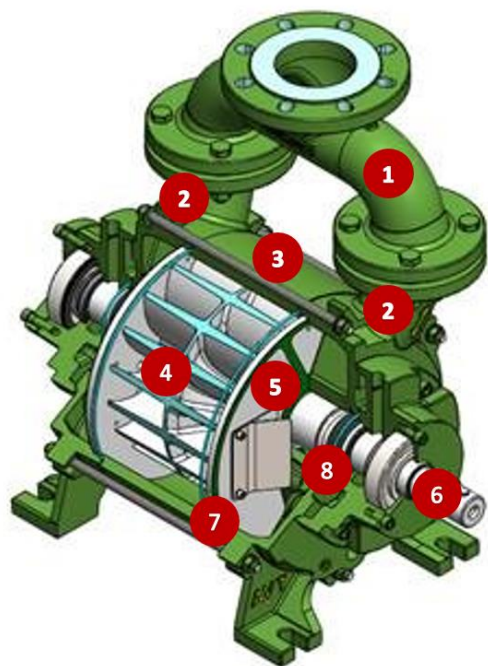
## APPLICATIONS

- Vacuum industrial processing
- Sterilization
- Extrusion
- Degassing
- Evaporation and distillation
- Priming
- Vacuum sewage
- Bottling
- Depoultry
- Fish farming

## FEATURES

AVA 606-806 are single stage liquid ring vacuum pumps, suitable to achieve deep vacuum (down to 33 mbar abs). All AVA models are characterized by being bare shaft pumps, so that the drive is secured by a flexible coupling that makes the pump shaft integral with the motor shaft. For AVA 606-806 the reference operating speed is the 4-pole motor speed. The pumps are characterized by the presence of two big manifolds, that allow distributing /collecting the gas to/from the end casing located on both impeller ends. Two standard executions are available: CN; CS. AVA 600-800 made in SS are also available. The shaft seal is made by means of a simple acting mechanical seal according to DIN24960, one each pump end. Shaft sealing devices other than the standard require a technical assessment that can be carried out on request. ATEX version is also available, on request.

## MATERIALS OF CONSTRUCTION



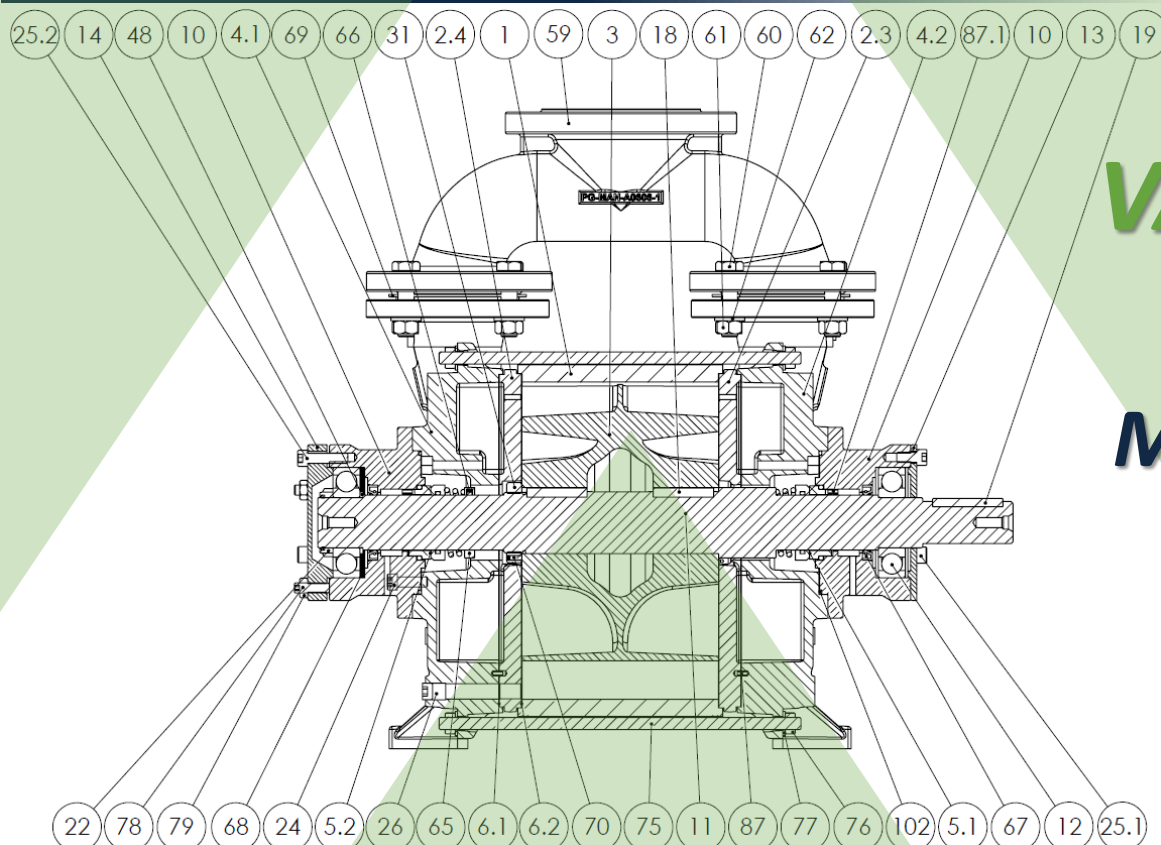
#	Part	CN	CS
1	Top manifolds	Cast iron (EN-GJL-250)	Cast iron (EN-GJL-250)
2	Suction-discharge casings	Cast iron (EN-GJL-250)	Cast iron (EN-GJL-250)
3	Impeller housing	Carbon steel	Carbon steel
4	Impeller	Cast iron (EN-GJS-400-18)	SS 316 (ASTM A351-CF8M)
5	Port plates	SS AISI 316	SS AISI 316
6	Shaft	SS AISI 420	SS AISI 420
7	Gaskets/O-Rings	Aramid fiber & VITON	Aramid fiber & VITON
8	Mechanical seal	DIN 24960 - carbon/silicon carbide/FKM (metallic parts in AISI 316)	DIN 24960 - carbon/silicon carbide/FKM (metallic parts in AISI 316)





# SPARE PARTS AVAILABLE

# LIQUID RING VACUUM PUMP Model AVA 606-806



Pos	Description	Q.ty
1	Intermediate casing	1
2.3	Port plate, drive end	1
2.4	Port plate, non drive end	1
3	Impeller	1
4.1	Suction/discharge casing, drive end	1
4.2	Suction/discharge casing, non drive end	1
5.1 ®	Mechanical seal, drive end	1
5.2 ®	Mechanical seal, non drive end	1
6.1 ®	Suc./dis. Casing-port plate gasket	2
6.2 ®	Plate-casing gasket	2
10	Bearing housing	2
11	Shaft	1
12	Bearing	2
13	Bearing cover, drive end	1
14	Bearing cover, non drive end	1

Pos	Description	Q.ty
18	Key	2
19	Key	1
22 ®	Bearing nut	1
24	Screw	8
25.2	Screw	3
25.1	Screw	3
31 ®	Impeller nut	1
32 ®	Washer	4
48 ®	Spacer ring	1
59	Top manifold	2
60	Screw	16
61	Nut	16
62	Washer	16
64/26/27.1	Screw-plug	7
65	Mechanical seal spacer	1

Pos	Description	Q.ty
66	Screw	2
67 ®	Radial lip seal	2
68	Compensating ring	4
69 ®	Flange gasket	4
70	Screw	3
75	Tie rod	6
76	Nut	12
77	Washer	12
78	Screw	3
79	Nut	3
87	Locating pin	2
102 ®	O-Ring	2

® Repair kit part



## Asco Vacuum Technologies

Asco Pompe S.r.l.  
Via Silvio Pellico, 6/8  
20089 Rozzano (MI) – Italy  
Phone: +39 02 892571  
Fax: +39 02 89257201  
Mail: [info@ascovacuum.com](mailto:info@ascovacuum.com)  
[www.ascovacuum.com](http://www.ascovacuum.com)