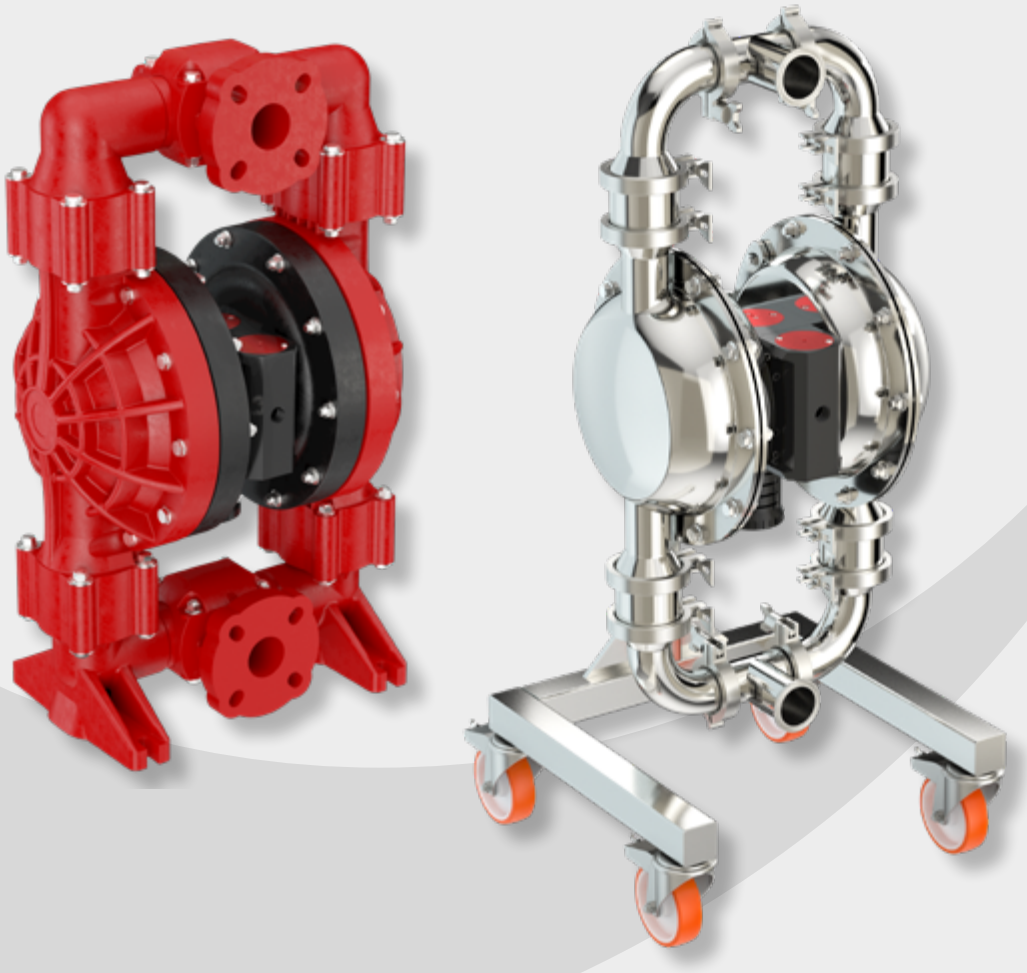
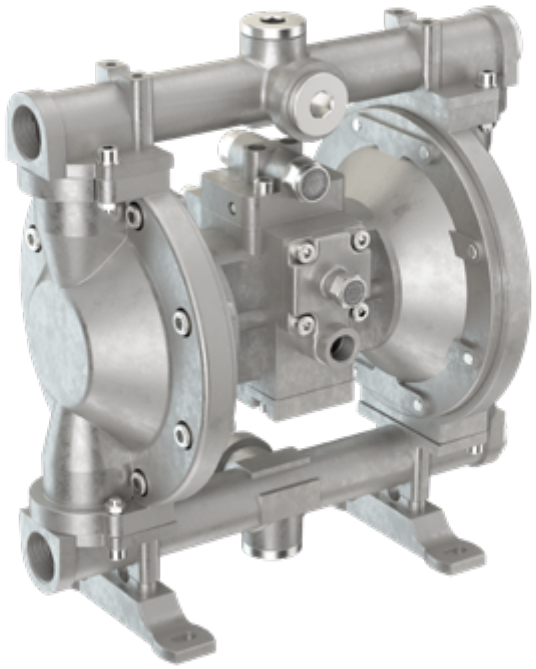


AODD PUMPS
AIR OPERATED
DOUBLE DIAPHRAGM

DN15 ALUMINUM 1/2”

TECHNICAL DATASHEET

Air-Operated Double-Diaphragm Pump (AODD)
Self-priming, anti-stall, with configurable construction materials. Robust design, designed to last through time and to be maintained.



HIGHLIGHTS

- COMPLETELY REPLACEABLE INLET/OUTLET VALVES
- MULTI-PORT INLET AND OUTLET MANIFOLD
- STAINLESS STEEL SCREWS

AVAILABLE VERSION
EXTERNAL PILOT (PLC)

TECHNICAL SHEET	DATA
Adjustable Flow Rate*	O ÷ 52 l/min
Inlet/Outlet Valves	Ball Valves
Fluid Inlet Port	1/2" Threaded Gas (4+4)
Max Particle size **	2,5 mm
Dry/Wet Suction Lift	4,5 / 7 m
Air Inlet Port	1/4" Gas
Air Inlet Pressure (Min/Max)	1 / 6,8 bar
Weight	4,5 Kg
Noise Level ***	78 dB [A]

For further technical specifications or configurations, contact the technical office

AVAILABLE COMPONENT MATERIALS	
Diaphragms	PTFE, SANTOPRENE®, NBR, HYTREL ®, EPDM , VITON ®
Gaskets	PTFE, FEP, VITON ®, KALREZ®, NBR, EPDM
Valves	STAINLESS STEEL, PTFE, EPDM, NBR, CERAMIC

Based on the processed fluid other configurable materials are available

AVAILABLE CERTIFICATIONS	ATEX 2G OR ATEX 3G

*Flow rate should be adjusted trough an outlet flow valve and/or a flow valve with a pneumatic pressure adjuster.

**Max solid passage indicates the passage section of the valve referred to a spherical body.

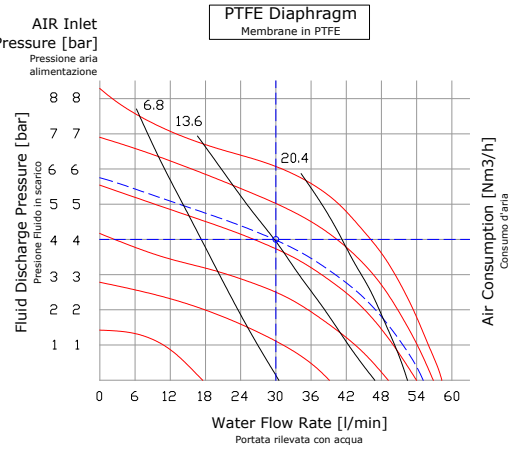
The pump functionality is not guaranteed with liquids with suspended solids. Contact CAPITANIO AIRPUMPS for more information.

***The noise level is detected in a specific use condition.

Technical specifications of the product in this catalog are not binding and can be changed without notice.

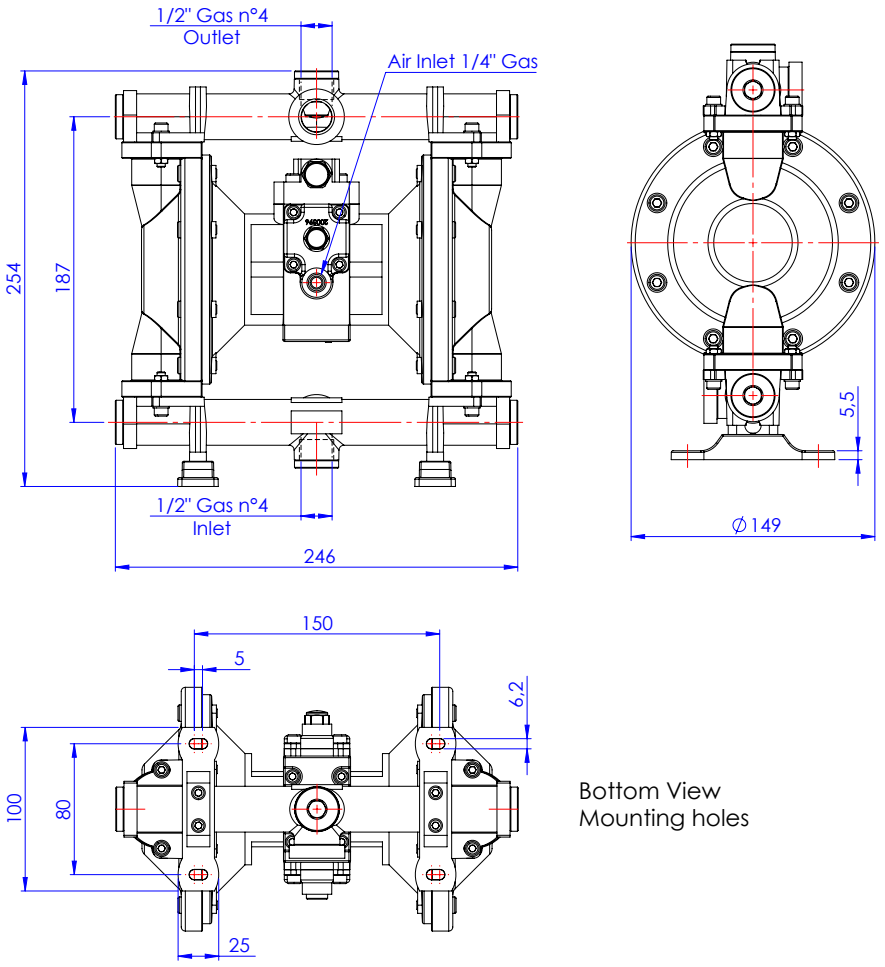
PERFORMANCE

The pump performance may vary based on configuration, processed fluid, installation and use. Performance tests are conducted in laboratory processing water.



5.7 bar Air Inlet Pressure are required to pump 30 l/m at 4 bar pressure with an air consumption of 13 Nm3/h.

DIMENSIONAL DATA



Bottom View
Mounting holes

ACCESSORIES

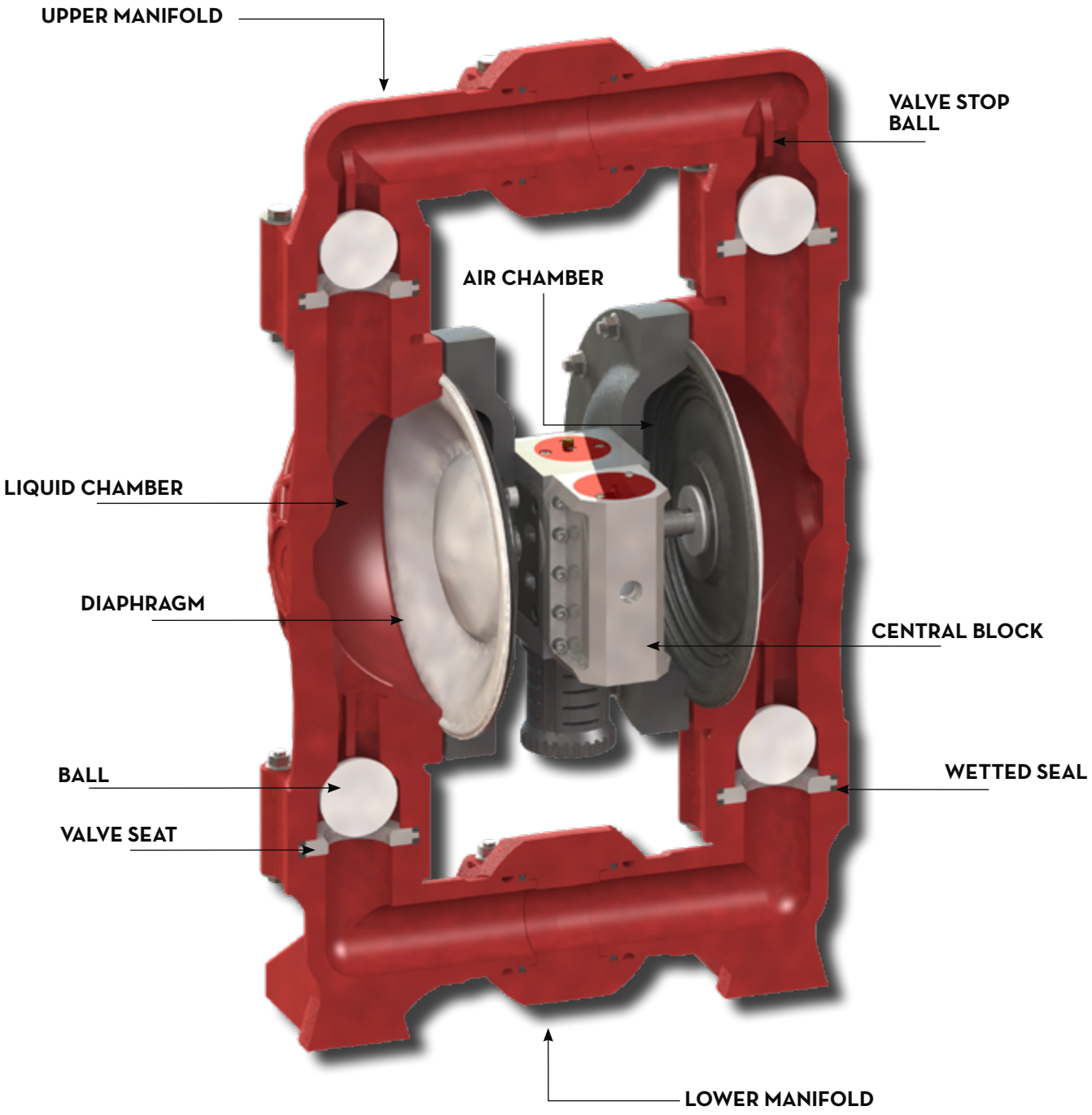
PULSATION DAMPENER - VALVES - AIR TREATMENT KIT - FILTERS - TANKS AND CONTAINERS

AODD PUMPS APPLICATIONS

Chemical | Oils and lubricants | Food Processing | Glues and Adhesives | Tannery | Pharmaceutical | Inks | Cosmetic | Water Treatment | Automotive

MATERIAL CONFIGURATOR

The following table allows to configurate the pump construction materials.
Other materials are available on request. Not every combination of materials is available and technically possible.



EXAMPLE:

PUMP MODEL	LIQUID CHAMBERS	AIR CHAMBERS	MANIFOLDS	CENTRAL BLOCK	FLUID PLATE	DIAPHRAG-MS	VALVE SEATS	VALVE STOP BALLS	BALLS	WETTED SEALS
DN15	A	A	A	A	B	T	I	Y	T	V

PORT SIZE	
DN8	3/8”
DN12	1/2”
DN15	1/2”
DN20	3/4”
DN25	1”
DN28	1”
DN38	1”
DN40	1” 1/2”
DN50	2”
DN80	3”

FLUID PLATE	
A	Aluminum
P	Polypropylene
B	PVDF
I	Stainless Steel
W	PPS
X	No Plate

VALVE STOP BALLS	
A	Aluminum
E	EPDM
Y	Nylon
L	Polyethylene
P	Polypropylene
B	PVDF
I	Stainless Steel
T	PTFE
W	PPS

BALLS	
E	EPDM
N	NBR
U	Polyurethane
I	Stainless Steel
T	PTFE

LIQUID CHAMBERS	
A	Aluminum
L	Pololyethylene
P	Polypropylene
B	PVDF
T	PTFE
C	PTFE coated
I	Stainless Steel
W	PPS

MANIFOLDS	
A	Aluminum
L	Pololyethylene
P	Polypropylene
B	PVDF
T	PTFE
C	PTFE coated
I	Stainless Steel
W	PPS

DIAPHRAGMS	
T	PTFE + Backup NBR
F	PTFE + Backup VITON
Q	PTFE + Backup EPDM
E	EPDM / Santoprene
H	Hytrel
V	Viton
N	NBR
K1	Vulcanized PTFE-NBR
K2	Vulcanized PTFE-EPDM
K3	Vulcanized PTFE-EPDM Integrated Disk
K4	Vulcanized PTFE-NBR Integrated Disk

AIR CHAMBERS	
A	Aluminum
P	Polypropylene
B	PVDF
C	PTFE Coated
I	Stainless Steel

CENTRAL BLOCK	
A	Aluminum
C	PTFE Coated
D	POM
P	Polypropylene

VALVE SEATS	
A	Aluminum
E	EPDM
L	Pololyethylene
P	Polypropylene
U	Polyurethane
B	PVDF
T	PTFE
I	Stainless Steel
W	PPS

WETTED SEALS	
E	EPDM
N	NBR
T	PTFE Virgin
T	PTFE Encapsulated
V	Viton
U	Polyurethane
H	Hytrel
S	Silicon

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