

PUMPS
FOR ALL TYPES
OF LIQUIDS

ARGALAIR PUMPS

PRODUCTION PROGRAM



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PUMP MANUFACTURERS

SINCE 1975

boasts +45 years of activity in the invention and production of pumps made of thermoplastic material, compounds and corrosion-resistant metal alloys. During the past decade, significant efforts were directed to research and development on the entire production. Such an effort resulted in entirely new or renovated pump ranges.

Our mission is a continuous and constant technological improvement, along the path of innovation instead of emulation.

How? By offering the best technical performance and engineering obtaining the leadership in performance while providing appropriate responses to the needs of market dynamics by realizing a "State-of-the-art quality.

Today the company has an extensive range of pumps in various constructions for industrial applications requiring temperatures ranging from -40° C to +120°C, with load capacities up to 1700 $\rm m^3/h$ -head over the 100 $\rm m$.

ARGAL is certified ISO 9001:2015











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OVERVIEW

MATERIALS

+G Glass fiber reinforced Polypropylene

+C Carbon fiber filled Polypropylene

+C Carbon reinforced Polyvinylidene Fluoride

+G Glass fiber Polyacetal Copolymer

Ultra-High Molecular Weight Polyethylene

Poly Tetra Fluoro Ethylene

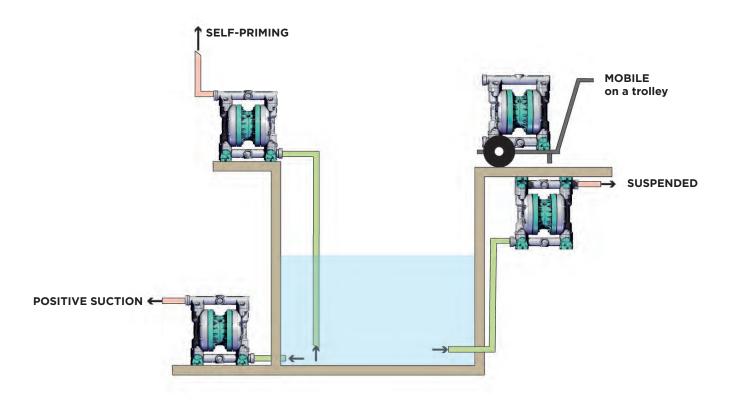
Aluminum

Stainless Steel (low carbon)

P Fiberglass reinforced Polymer resin



INSTALLATIONS



series	size (inch)	materials	flow rate (I/min)	solids (mm)	compliance
ASTRAevo	1/4"	PP+G • PVDF+C • POMc+G	10	1.5	€x>
ASTRAevo	3/8"	PP+G • PVDF+C • AISI 316L	up to 20	3.5	€x 〉
ASTRAevo ASTRAevoFOOD ASTRAsolid QUANTUM	1/2"	PP+G • PVDF+C • ALU • AISI 316L • PE1000 • PTFE	up to 75	3.8	Ex FDA
ASTRAevo ASTRAevoFOOD	3/4"	PP+G • PVDF+C	up to 105	5.5	(Ex) FD/A
ASTRAevo ASTRAevoFOOD ASTRAsolid QUANTUM	1"	PP+G • PVDF+C • ALU • AISI 316L • PE1000 • PTFE	up to 170	6	(Ex) FD/A
ASTRAevo ASTRAevoFOOD ASTRAsolid QUANTUM	11/2"	PP+G • PVDF+C • ALU • AISI 316L • PE1000 • PTFE	up to 370	7	Ex FDA
ASTRAevo ASTRAevoFOOD ASTRAsolid	2"	PP+G • PVDF+C • ALU • AISI 316L • PE1000	up to 715	9	
MISTRAL	3"	AISI 316L • PE1000	up to 1100	11	€x 〉
MISTRAL	4"	AISI 316L	up to 1280	13	€ x

CONFORMITY



Upon request, **ARGALAIR AODD** pumps can be set with conductive materials and be compliant with

• ATEX Zone 1 (II 2G Ex h IIB T4 Gb X | II 2D Ex h IIIB T135°C Db X)



Made for food applications and related operations: the wetted parts are made of **electropolished AISI**

316L with 125 Ra surface finishing - recommended material for Food&Beverages processing.

ARGAL delivers the declaration that the materials of construction are compliant with FDA conformity.

- Great choice of high-quality materials
- Continuous, discontinuous and mobile operation
- Dry-running
- Self-priming
- Dead-head
- Low air consumption
- Ideal with shear-sensitive and/or viscous liquids
- Easy installation and maintenance
- Variable flow and discharge pressure
- Unique internal design and components



ASTRAevo 😥





- 10 models available from ¼" to 2"
- Materials: PP+g · PP+c · PVDF+c · POMc · ALU · AISI 316I
- Max capacity: 715 I/min
- Integrated muffler up to 1"
- Upon request: ATEX Zone 1 compliance

Main sectors
Chemical processes
Industrial processes
Laboratories
Flexography
OEM market

They are ideal for transferring, dosing, injecting corrosive, aggressive and viscous liquids with high performance and reduced air consumption.

ASTRA evo food (x)







- 6 models available from ½" to 2"
- Material: electropolished AISI 316I
- Max capacity: 715 l/min
- Shear-sensitive liquids

Main sectors			
Food&Beverages			
Pharmaceutical processes			
Laboratories			
Cosmetics			
Shear-sensitive processes			

The series is conceived for the Food & Beverages industry and related ones. All materials in contact with the liquid are FDA compliant.

QUANTUM



- 3 models available from ½" to 1½"
- Materials: PTFE · PE1000
- Max capacity: 450 I/min
- Ideal for ultra-pure liquid transfer

Main sectors
Pharmaceutical processes
Photovoltaic
Laboratories
Metal treatments
OEM market

Cubic-shape pump from machined PTFE or pure PE which offers an unlimited chemical resistance, and allow the pumping of viscous liquids.

ASTRA SOLID FM



■ 4 models available from ½" to 2"

Materials: PE1000

Max capacity: 715 I/min

Integrated muff er up to 1"

Main sectors
Metal & mineral treatments
Wastewater treatments
Seawater applications
Heavy-duty processes
Abrasive processes

The pump is entirely made from machined Ultra High Molecular Weight Polyethylene.

It offers excellent mechanical properties, high-abrasion and stress resistance.

MISTRAL 😥





3 models available with size 3" and 4"

Material: PE1000 (3") · AISI 316I (3" - 4")

Max capacity: 1280 I/min

Easy access valve

Solid handling up to 13 mm

Corrosion and abrasive-resistant materials

Offshore platforms Cement mixing Metal & mineral extraction

Heavy-duty processes

Main sectors

Chemical processes

It represents the safest and most efficient pneumatic solution for heavy-industrial, dangerous and/or continuous operations.

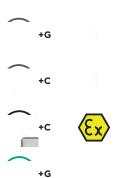


ASTRAevo

The series distinguishes itself from competitors' AODD pumps thanks to the choice of materials: from thermoplastic polymers reinforced with glass or carbon fiber to the new distribution system, high-quality material for diaphragms, and optimized design.

They are ideal for transferring, dosing, injecting corrosive, shear-sensitive and viscous liquids with high performance and reduced air consumption.

- Dry-running
- Self-priming
- Non-icing air valve system
- Ideal with shear sensitive liquids
- Easy installation and maintenance
- Integrated muffler up to 1"



- Unique internal design and components
- High-quality materials for diaphragms
- Best-in-class air consumption
- Upon request: ATEX Zone 1 compliance* with special conductive material for body and parts

* Zone 1 (II 2G Ex h IIB T4 Gb X | II 2D Ex h IIIB T135°C Db X)

Pump materials 1		• PP+G • PP+C • PVDF+C • ALU • AISI 316L • POM-c	
	Fluoropolymer	• modified PTFE	
Diaphragms	Thermoplastics	• TPE (Keyflex®) • TPV (Santoprene®)	
2	Reinforced	• FKM (Viton®) • EPDM • NBR	
Valve balls	3	• PTFE • AISI 316 • EPDM • NBR • FKM (Viton®)	
Valve seats & cage 4		• PP • PVDF • AISI 316 • PE1000 • ALU	
O-ring	5	• EPDM • FKM (Viton®) • NBR • PTFE • FFKM	



MATERIALS	PP+g · PP+c	PVDF+c	Alu	AISI 316L
TEMPERATURES min - max	-5°C - +60°C	- 10°C - +90°C	- 10°C - +100°C	- 10°C - +100°C

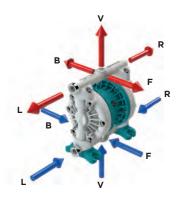
CONNECTIONS

- Standard configuration with threaded connections BSP "L-L" for all plastic and aluminum pumps and for AISI 316L versions up to model DDE 160 (1)
- Other connections are available upon request (2)
- Models DDE 400 and DDE 650 made of AISI 316 L are set with "F-B" connections.
- Model DDE 020 cannot be set with F or B connections
- Model DDE 020 set with V connection is not recommended

For any questions on connection configuration, contact our sales force.







UPON REQUEST⁽²⁾

APPLICATIONS



ASTRAevo pumps (1 1/2" PP+glass version) installed for wastewater treatments (Belgium).



ASTRAevo pumps (1/2" PP+glass version) installed for chemical transfer (Europe).



ASTRAevo pumps (1 1/2" metallic version) installed for lubricant transfer (China).

• Chemical processes

acids, concentrated liquids, acid mix, liquids with solids

Industrial processes

residual waste, cleaning solutions

Laboratories

cleaning solutions, mix of acids

Flexography

inks, paintings and glues

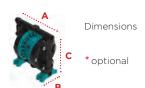
Seawater applications

seawater, brine, coolants



Air pressure

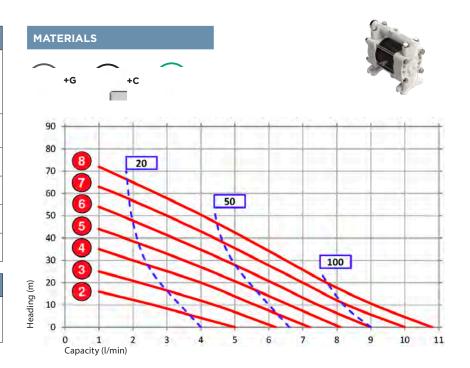




DDE 007 (1/4")

TECHNICAL DATA	
Fluid connections	1/4" BSP • NPT
Air connections	4 mm
Max flow rate	10.8 l/m'
Max air pressure	8 bar
Displacement/cycle	<70
Max size solids	<3 mm

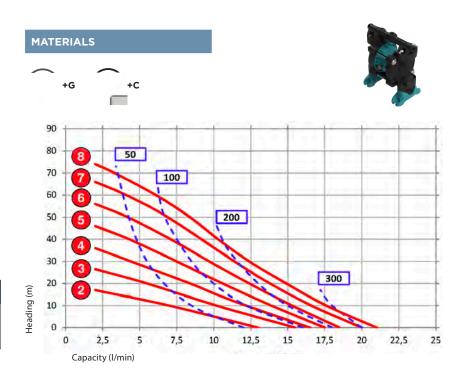
DIMENSIONS (mm)		
PP+g PP+c PVDF+c POMc+g	A 128 B 74 C 126	



DDE 015 (1/4")

TECHNICAL DATA		
Fluid connections	1/4" BSP • NPT	
Air connections	6 mm	
Max flow rate	21 l/m'	
Max air pressure	8 bar	
Displacement/cycle	70	
Max size solids	3 mm	

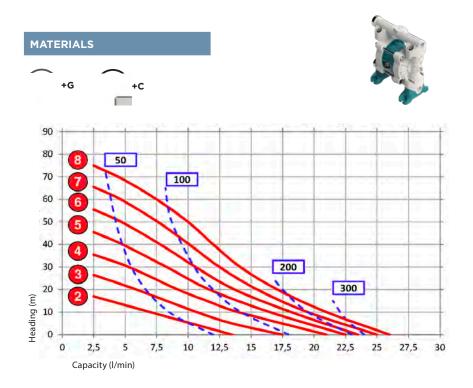
DIMENSIONS (mm)		
PP+g PP+c PVDF+c	A 183 B 107 C 203	



DDE 020 (3/8")

TECHNICAL DATA		
Fluid connections	¾" BSP • NPT	
Air connections	6 mm	
Max flow rate	26 l/m'	
Max air pressure	8 bar	
Displacement/cycle	70	
Max size solids	3 mm	

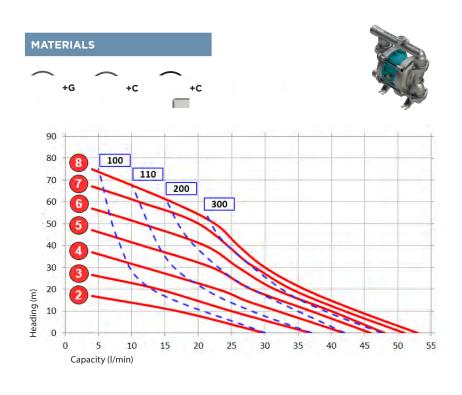
DIMENSIONS (mm)	
PP+g PP+c PVDF+c	A 192,5 B 107 C 209



■ DDE 030 (½")

TECHNICAL DATA	
Fluid connections	1/2" BSP • NPT • FLANGED DN15
Air connections	6 mm
Max flow rate	52 l/m'
Max air pressure	8 bar
Displacement/cycle	70
Max size solids	3 mm

DIMENSIONS (mm)	
PP+g PP+c PVDF+c	A 192,5 B 107 C 209
Alu	A 194 B 107 C 205
AISI 316L	A 203 B 107 C 197

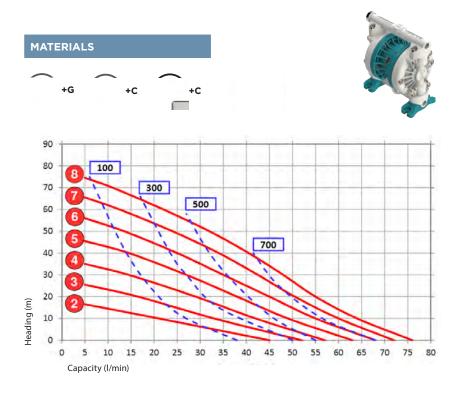


ASTRAevo

DDE 060 (1/2")

TECHNICAL DATA	
Fluid connections	1/2" BSP • NPT • FLANGED DN15
Air connections	3/8" BSP • NPT*
Max flow rate	76 l/m'
Max air pressure	8 bar
Displacement/cycle	160
Max size solids	3,2 mm

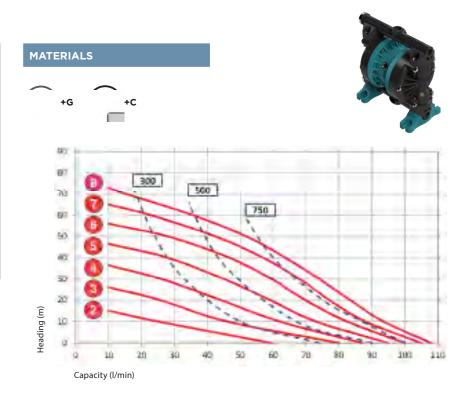
DIMENSIONS (mm)	
PP+g PVDF+c	A 243 B 160 C 260,5
Alu	A 245,5 B 160 C 253,5
AISI 316L	A 246,5 B 160 C 247,5



DDE 080 (¾")

TECHNICAL DATA	
Fluid connections	3/4" BSP • NPT* • FLANGED DN20
Air connections	3/8" BSP • NPT*
Max flow rate	105 l/m'
Max air pressure	8 bar
Displacement/cycle	160
Max size solids	3,2 mm

DIMENSIONS (mm)	
PP+g PVDF+c	A 288 B 170 C 297



DDE 100 (1")

TECHNICAL DATA	
Fluid connections	1" BSP • NPT* • FLANGED DN25*
Air connections	3/8" BSP • NPT*
Max flow rate	130 l/m'
Max air pressure	8 bar
Displacement/cycle	240
Max size solids	5,5 mm

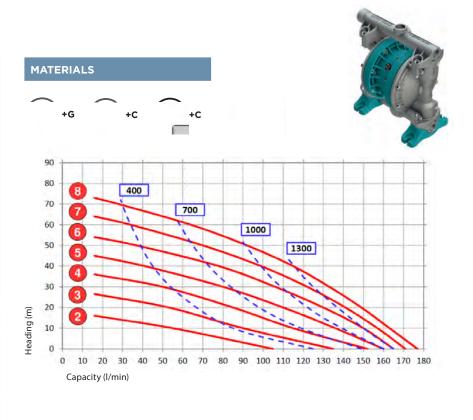
DIMENSIONS (mm)	
PP+g PVDF+c	A 288 B 170 C 297
Alu	A 292 B 170 C 289
AISI 316L	A 275,5 B 170 C 288

MATERIALS +G Heading (m) 50 60 70 80 90 100 110 120 130 140 Capacity (I/min)

DDE 160 (1")

TECHNICAL DATA	
Fluid connections	1" BSP • NPT* • FLANGED DN25*
Air connections	3/8" BSP • NPT*
Max flow rate	175 l/m'
Max air pressure	8 bar
Displacement/cycle	440
Max size solids	6 mm

DIMENSIONS (mm)	
PP+g PP+c PVDF+c	A 310 B 203 C 344.5
Alu	A 310 B 203 C 335
AISI 316L	A 312 B 203 C 321.5



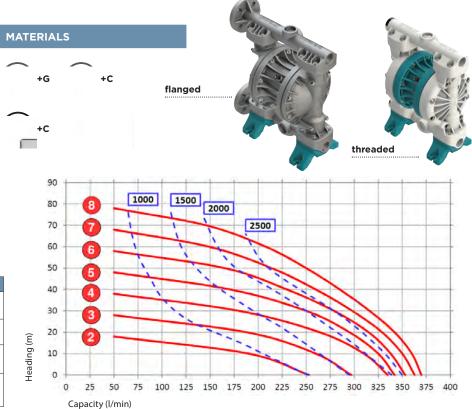
ASTRAevo

DDE 400 (1 1/2")

TECHNICAL DATA	
Fluid connections	FLANGED DN40 • 1 1/2" BSP • NPT
Air connections	3/4" BSP • NPT
Max flow rate	370 l/m'
Max air pressure	8 bar
Displacement/cycle	1.340
Max size solids	7 mm

DIMENSIONS (mm)		
PP+v PVDF+c	thread	A 429.5 B 263* C 538
	flange	A 465,5 B 263* C 573
Alu		A 467 B 263,5* C 573
AISI 316L		A 400 B 263,5* C 501

^{*}with muffler: 317 mm





ARgemini

Pumping two liquids simultaneously

The upper manifold has two outlets and the lower manifold two inlets, this allows a double pumping.

This pump configuration is ideal for paintings, inks or varnishes used in flexographic sector or pulp and paper industry.

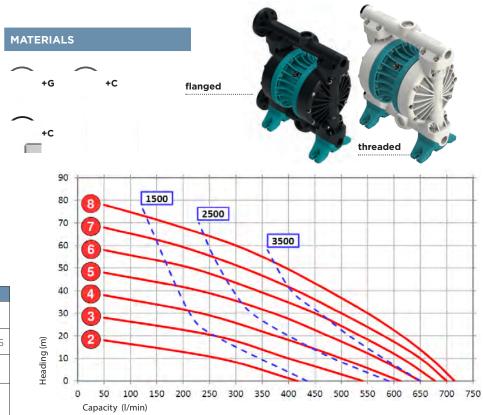
+G

DDE 650 (2")

TECHNICAL DATA	
Fluid connections	FLANGED DN50 • 2" BSP • NPT
Air connections	3/4" BSP • NPT
Max flow rate	715 l/m'
Max air pressure	8 bar
Displacement/cycle	3.820
Max size solids	9 mm

DIMENSIONS (mm)		
PP+v PVDF+c	thread	A 594 B 345* C 690
	flange	A 563 B 345* C 662,5
Alu		A 594 B 345* C 688
AISI 316L		A 478 B 346* C 694

*with muffler: 381 mm





ARdrum

Drum kit for unloading

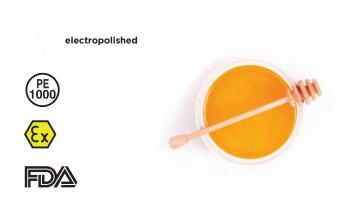
Available in size 1/2" and 1". The pump comes with the fixing bracket and suction tube.



ASTRA evo FOOD

ASTRAevoFOOD series is conceived for products used in the Food & Beverages industry and related ones. All materials in contact with the liquid are FDA compliant.

The DDE SPN models ensure an **optimal reliability**, **clean operations** with **relevant performance and efficiency** on a short and long term.



- Electropolished AISI 316L with surface finishing 125 Ra (roughness around 2,7 Qm)
- FDA conformity
- For shear-sensitive liquids, also with solids
- For high viscous liquids

- No heat neither alteration of the liquid
- **■** Temperature up to 120°C
- Upon request: ATEX Zone 1*
- Ideal for cosmetics and pharmaceutical processes

Body materials 1	AISI 316L electropolished • PE1000
Diaphragms 2	• HYTREL+PTFE • PTFE • EPDM
Valve balls 3	• PTFE • AISI 316 • EPDM
Valve seats & cage 4	• AISI 316 • PE1000
O-ring 5	• PTFE • EPDM



	electropolished AISI316I	PE1000
Pumped liquids	Raw chemical, active chemicals, solvents, oils and lubricants	Abrasive liquids
Working temperature (max)	120°C	70°C

^{*} Zone 1 (II 2G Ex h IIB T4 Gb X | II 2D Ex h IIIB T135°C Db X)

APPLICATIONS

	Pumped liquids	Viscosity cPs	Ideal Construction
	Butter	50.000	PE1000
es .	Mayonaise	6.000	PE1000
rag	Honey	1.500÷3.000	AISI 316I
Food & Beverages	Jam	<1.000	PE1000
	Yogurt	100	AISI 316I
	Olive oil	100	AISI 316I
ο×	Toothpaste	200.000	PE1000
cs 2	Shampoo	3.000	AISI 316I
smetic: Pharma	Wax	500	PE1000
Cosmetics & Pharma	Hand cold cream	780	PE1000
ŭ	Detergent	1.470	AISI 316I
	SAE70 oil	18.000	AISI 316I
S (S	Barbottine	50.000	PE1000
ous	Lubricants	2.000	AISI 316I
Various industries	Varnished	300	AISI 316I
ے. ح	Printer inks	550÷2.200	AISI 316I
	Glue	1.200÷1.400	PE1000



ASTRAevo FOOD pumps (1/2" metallic version) installed at PHARMASYSTEMS (Europe).

Chili sauce production

transfer from stockage tank to mixing tank

Chocolate production

lecitine dosing

Distillery

alcol transfer

Brewery

brine unloading

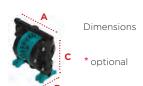
Laboratory

6% hydrogen peroxyde circulation

Cosmetics

viscous substances loading (shower gel, shampoo,..)





Capacity (I/min)

IDDE SPN 030 (1")

TECHNICAL DATA	
Fluid connections	• Tri- Clamp 1" • BSP • NPT
Air connections	6 mm
Max flow rate	52 l/m'
Max air pressure	8 bar
Displacement/cycle	70
Max size solids	3 mm

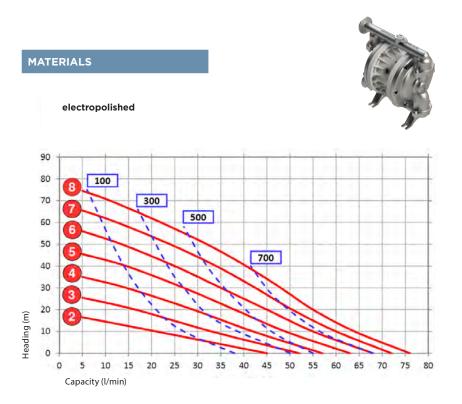
DIMENSIONS (mm)	
AISI 316L	A 203 B 106 C 197
PE1000	A 170 B 140 C 260

MATERIALS electropolished (PE) Heading (m)

DDE SPN 060 (1")

TECHNICAL DATA	
Fluid connections	• Tri- Clamp 1" • BSP • NPT
Air connections	¼ " BSP • NPT*
Max flow rate	76 l/m
Max air pressure	8 bar
Displacement/cycle	160
Max size solids	3,2 mm

DIMENSIONS (mm)		
AISI 316L	A 247 B 160 C 253	

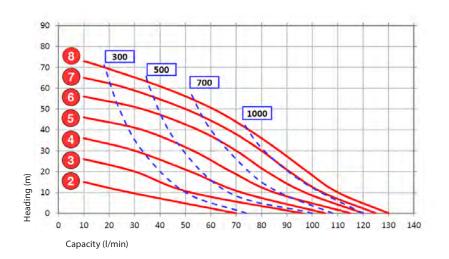


DDE SPN 100 (1")

TECHNICAL DATA	
Fluid connections	1" BSP • NPT* • FLANGED DN25*
Air connections	3/8" BSP • NPT*
Max flow rate	130 l/m
Max air pressure	8 bar
Displacement/cycle	240
Max size solids	5,5 mm

DIMENSIONS (mm)	
AISI 316L	A 273 B 170 C 288
PE1000	A 285 B 170 C 349

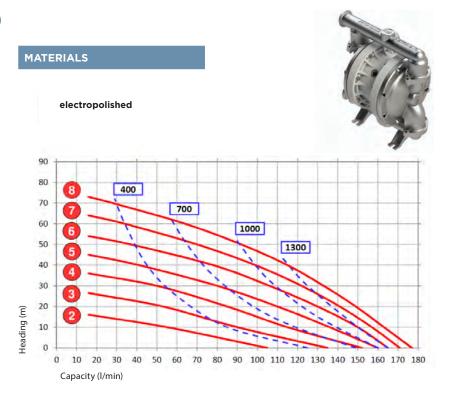
MATERIALS electropolished



■ DDE SPN 160 (1 ½")

TECHNICAL DATA	
Fluid connections	• Tri-Clamp 1" 1/2 • BSP*
Air connections	3/8" BSP • NPT*
Max flow rate	176 l/m
Max air pressure	8 bar
Displacement/cycle	440
Max size solids	6 mm

DIMENSIONS (mm)	
AISI 316L	A 310 B 203 C 322



ASTRAevofood

IDDE SPN 400 (2")

TECHNICAL DATA	
Fluid connections	• Tri- Clamp 2"
Air connections	1/2" BSP • NPT*
Max flow rate	370 l/m²
Max air pressure	8 bar
Displacement/cycle	1.340
Max size solids	7 mm

DIMENSIONS (mm)	
AISI 316L	A 203 B 106 C 197
PE1000	A 433 B 262 C 575

MATERIALS electropolished 90 1500 2000 1000 80 2500 60 50 40 30 20 Heading (m) 10 0 100 125 150 175 200 225 250 275 300 325 350 375 400 Capacity (I/min)

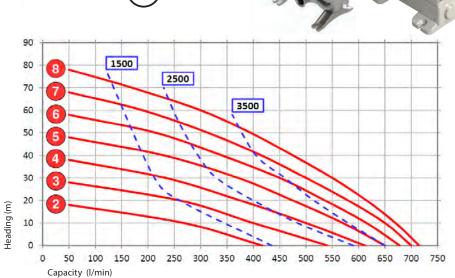
DDE SPN 650 (2 1/2")

TECHNICAL DATA	
Fluid connections	• Tri-Clamp 2½" • BSP*
Air connections	3/4" BSP • NPT*
Max flow rate	715 l/m'
Max air pressure	8 bar
Displacement/cycle	3.820
Max size solids	9 mm

DIMENSIONS (mm)	
AISI 316L	A 247 B 160 C 253
PE1000	A 493 B 345 C 710

MATERIALS

electropolished PE 1000



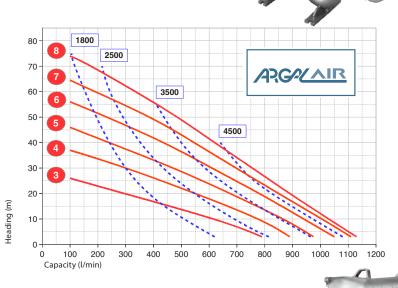
IDDE SPN 3" (3")

TECHNICAL DATA	
Fluid connections	3" DN80
Air connections	34" F NPT
Max flow rate	1.100 l/m'
Max air pressure	8 bar
Displacement/cycle	96
Max size solids	11 mm

DIMENSIONS (mm)	
AISI 316L	A 624 B 435 C 815
PE1000	A 693 B 520 C 980

MATERIALS





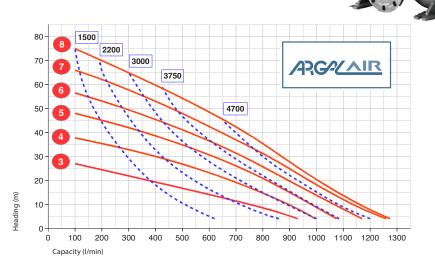
DDE SPN 4" (4")

TECHNICAL DATA	
Fluid connections	4" DN100
Air connections	3/4" F NPT
Max flow rate	1.280 l/m'
Max air pressure	8 bar
Displacement/cycle	96
Max size solids	13 mm

DIMENSIONS (mm)	
AISI 316L A 725 B 435 C 815	

MATERIALS

electropolished



ASTRA SOLID

ASTRAsolid range is made of solid-block PE1000 (Ultra

High Molecular Weight Polyethylene) and distinguishes

itself from the competitors' AODD range.

PE1000 offers excellent mechanical properties and high abrasion and stress resistance.







Only available for minimum order quantity

- ▶ Made of solid-block
- 5-component air distributor system
- modified PTFE diaphragms inert to chemicals
- Auto-lubricating and anti-friction ADS*
- Easy installation and maintenance
- Internal or external installation
- Ideal for operations in cryogenic conditions (up to -40°C)
- For acids, alkalis and basic acids, shear-sensitive liquids

Body materials 1	• PE1000
Diaphragms 2	• modified PTFE
Valve balls 3	• PTFE • AISI 316 • EPDM • NBR • FKM (Viton®)
Valve seats & cage 4	• PE 1000
O-ring 5	• EPDM • FKM (Viton®) • NBR • PTFE



	PE1000
Pumped liquids	Abrasive liquids
Working temperature (max)	70°C

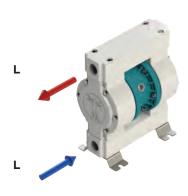
^{*} Air Distribution System

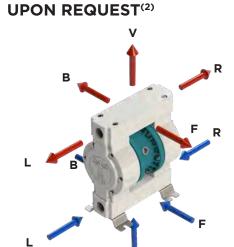
CONNECTIONS

Standard configuration (1) with threaded connections BSP "L-L" for all models.

Other connections are available upon request (2).

STANDARD(1)





For any questions on connection configuration, contact our sales force.

APPLICATIONS

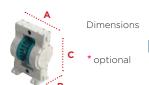
- **Hevy-duty industrial processes** abrasive liquids and waste circulation
- **Ceramics industry** transfer of cleaning liquids containing residues
- Metal and precious metal treatments extraction, metal waste circulation
- Wastewater treatments waste transfer with toxic particles, polluted mix
- **Seawater applications** seawater, brine, water containing solids



ASTRAsolid pumps (2") installed outside the plant, nearby the coastline for polluted and waste treatments (Italy)







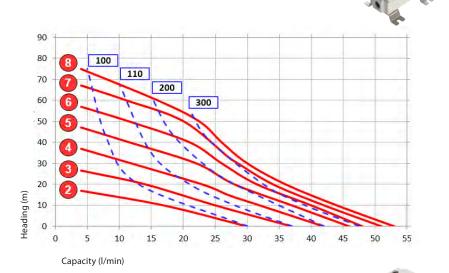
DDS 030 (1/2")

TECHNICAL DATA	
Fluid connections	1/2" BSP • NPT* • FLANGED DN15*
Air connections	6 mm
Max flow rate	50 l/m'
Max air pressure	8 bar
Displacement/cycle	70
Max size solids	3 mm

DIMENSIONS	(mm)
PE1000	A 170 B 140 C 260

MATERIALS



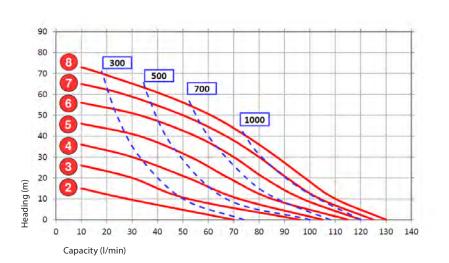


DDS 100 (1")

TECHNICAL DATA	
Fluid connections	1" BSP • NPT* • FLANGED DN25*
Air connections	3/8" BSP • NPT*
Max flow rate	130 l/m'
Max air pressure	8 bar
Displacement/cycle	240
Max size solids	5,5 mm

DIMENSIONS (mm)	
PE1000	A 285 B 170 C 349





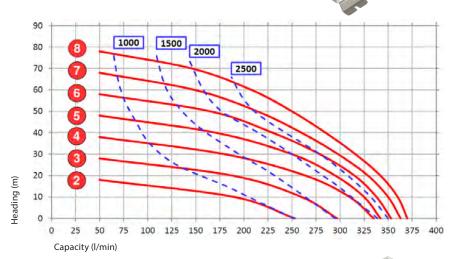
DDS 400 (1 1/2")

TECHNICAL DATA	
Fluid connections	FLANGED DN40 • 1 1/2" BSP • NPT*
Air connections	1/2" BSP • NPT*
Max flow rate	375 l/m'
Max air pressure	8 bar
Displacement/cycle	1.340
Max size solids	7 mm

DIMENSIONS (mm)	
PE1000	A 433 B 262 C 575

MATERIALS



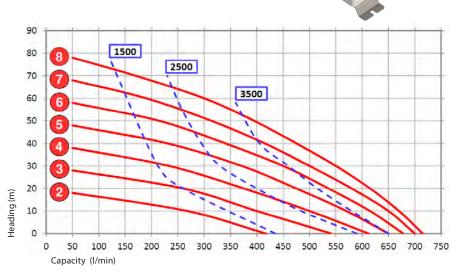


DDS 650 (2")

TECHNICAL DATA	
Fluid connections	FLANGED DN50 • 2" BSP • NPT*
Air connections	3/4" BSP • NPT*
Max flow rate	715 l/m'
Max air pressure	8 bar
Displacement/cycle	3.820
Max size solids	9 mm

DIMENSIONS (mm)	
PE1000	A 493 B 345 C 710





QUANTUM

QUANTUM series is made of pure polymers solid-block construction and with original internal design.

The idea was conceived to offer a **unique pump perfectly balanced between efficiency** (linear pumping directly to the center block and reduced air consumption) **and sustainability** (reduced use of materials, longer life cycla and all parts are recyclable).



- Made of solid-block PTFE or PE1000
- Non-icing valve system
- Diaphragms are not coupled to the shaft
- Auto-lubricating and anti-friction material
- Easy installation and maintenance

- Unique and super efficient internal design
- Unlimited chemical resistance
- Acids, mixtures, glues, additives, inks, adhesives, solvents...

Body materials 1	• PE1000 • PTFE
Diaphragms 2	• TPE*+PTFE • TPV**+PTFE
Valve balls 3	• PTFE • EPDM • NBR • VITON
Valve seats & cage 4	• PTFE • PE1000
O-ring 5	• PTFE • FFKM



** Keyflex®,	Hytrel® (LG	Chem Ltd.,)



	PTFE	PE1000
Pumped liquids	For ultra-pure liquids	All types, especially abrasive ones
Working temperature (max)	100°C	70°C

UNIQUE & INNOVATIVE

Advantages of the free-fastened diaphragms

- easy maintenance and replacing
- more safety with aggressive liquids

Advantages of the special design for the valves

- guaranteed easy maintenance operations
- no need to remove the pump from the system

Advantages of the non-icing valve system

· utterly not affected by humidity

Advantages of the air distrubutor system

- equipped with air capacity regulator
- quick discharging valve (30% less air consumption)
- operations in any conditions

Advantages of the security system

- longer life cycle
- in case of diaphragm leakage, the liquid cannot enter the air supply line

APPLICATIONS



QUANTUM pump installed for HF transfer to reactors (Italy)



QUANTUM pumps for acid mix transfer (Belgium)

- Solar panel systems ultra-pure liquids
- **Display production** nematic, smectic liquid crystals

Chemical waste treatments

HF from reactors

Pharmaceutics and Laboratories

strong acids, viscous mix, cleaning solutions





Dimensions

DDQ 060 (1/2")

TECHNICAL DATA	
Fluid connections	G ½" BSP
Air connections	G ¼" BSP
Max flow rate	60 l/m'
Max air pressure	8 bar
Displacement/cycle	160
Max size solids	7.5 mm

DIMENSIONS (mm)		
PE1000 PTFE	A 220 B 210 C 186	

MATERIALS







70	150	200	ARC	MAIR
60	1			
50 5	1	350	500	
40	1	M		
30	7	11	600	
20 2			MILLE	
10				

DDQ 160 (1")

TECHNICAL DATA	
Fluid connections	G 1" BSP
Air connections	G %" BSP
Max flow rate	160 l/m'
Max air pressure	8 bar
Displacement/cycle	440
Max size solids	11 mm

DIMENSIONS (mm)	
PE1000 PTFE	A 270 B 250 C 227

MATERIALS



80

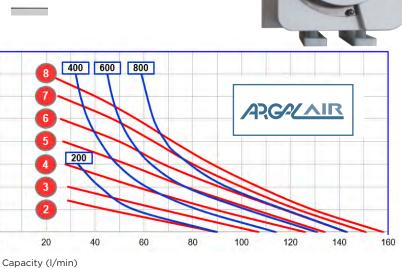
70 60

50 40

30

Heading (m) 0



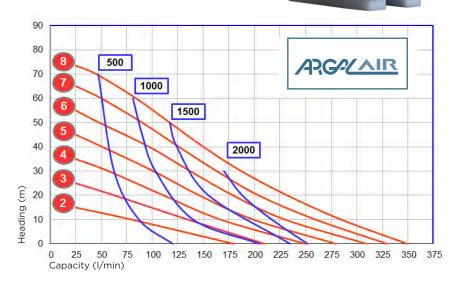


DDQ 400 (1 ½")

TECHNICAL DATA	
Fluid connections	G 1 ½" BSP
Air connections	G ½" BSP
Max flow rate	400 l/m'
Max air pressure	8 bar
Displacement/cycle	1.340
Max size solids	19 mm

DIMENSIONS (mm)	
PE1000 PTFE	A 381 B 330 C 310

MATERIALS PE 1000



MISTRAL

MISTRAL series represents the safest and most efficient pneumatic solution for heavy-industrial, dangerous and/ or continuous operations.



The range came out first with the metallic version, entirely made of stainless steel, to allow the pumping of highly corrosive agents. Then the solid-block plastic version was conceived to resolve the market issue of abrasion.



- High capacities for large loadings
- Extremely robust big-size AODD solutions
- 5-component air distributor system
- Non-icing valve system
- Corrosion and abrasive-resistant materials
- Auto-lubricating and anti-friction ADS*
- Easy installation and maintenance

- Ideal for solid handling (up to 13 mm)
- Internal or external installation
- **■** Upon request: ATEX Zone 1**

Body materials	1	• AISI 316L • PE1000	
Diaphragms	2	• EPDM • NBR • EPDM+PTFE • NBR+PTFE	
Valve balls	3	• EPDM • NBR • PTFE • AISI 316L	
Valve seats & cage	4	• POLYURETHANE • PE1000 • PVDF • AISI 316L	
O-ring	5	• EPDM • NBR • FKM • PTFE	

	AISI 316L	PE1000
Working temperature (max)	100°C	70°C

^{*} Air Distribution System

^{**}Zone 1 (II 2G Ex \acute{h} IIB T4 Gb X | II 2D Ex \acute{h} IIIB T135°C Db X)

MADE FOR HEAVY-INDUSTRIAL OPERATION







MISTRAL pump 4" for silice extraction (Italy)



MISTRAL pump 3" for brine circulation, offshore platform (Asia)

Offshore platforms

waste, brine, mud, seawater

Chemical processes

strong acids, concentrated acids, cleaning solutions

Construction processes

cement mixing loading/unloading

Metal and mineral treatments

liquid extraction, cleaning solution circulation





DDM 300 (3")

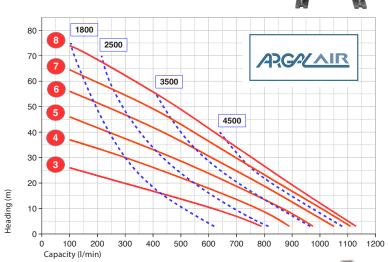
TECHNICAL DATA	
Fluid connections	3" DN80
Air connections	3∕4" F NPT
Max flow rate	1100 l/m'
Max air pressure	8 bar
Displacement/cycle	96
Max size solids	11 mm

DIMENSIONS (mm)		
AISI 316L	A 624 B 435 C 815	

*with muffler: 570 mm

MATERIALS



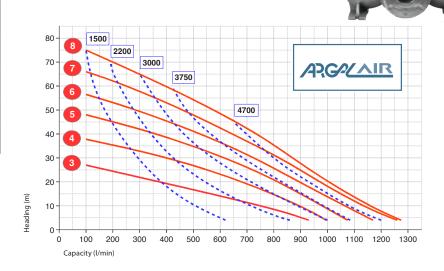


DDM 400 (4")

TECHNICAL DATA	
Fluid connections	4" DN100
Air connections	3⁄4" F NPT
Max flow rate	1280 l/m'
Max air pressure	8 bar
Displacement/cycle	96
Max size solids	13 mm

DIMENSIONS (mm)	
AISI 316L	A 725 B 435 C 815

*with muffler: 570 mm





MECH-SEALED & MAG-DRIVEN CENTRIFUGAL PUMPS

AODD PUMPS

SELF-PRIMING PUMPS



VERTICAL SUMP PUMPS

ARGAL PUMPS

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