

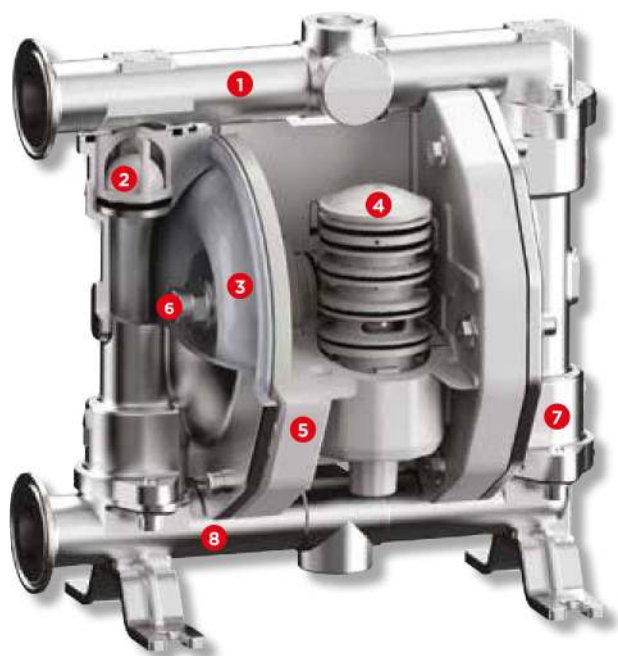
ASTRA FOOD

ASTRAFOOD range can be used for handling and pumping products from food industry and related ones. These pumps comply with **FDA recommendations**, with the parts in contact all the fluid made of **AISI 316 electro-polished** with **125 Ra** finish and PTFE, both certified for food usage.

FDA
COMPLIANT



FOOD INDUSTRY		COSMETIC PHARMACEUTICAL INDUSTRY		VARIOUS INDUSTRY	
Product	cP	Product	cP	Product	cP
Butter	50.000	Yoothpaste	5.000	Oil SAE70	18.000
Whipped acid cream	13.000	Gel	2.000	Paper pulp in water	15.000
Mayonnaise	6.000	Glycerine	1.400	Barbotine	2.000
Honey	1.500÷3.000	Shampoo	250	Grease lubr.	2.000
Marmalade	<1.000			Mineral oil	800
Tomato sauce	180			Oil SAE30	350
Yogurt	100			Varnish	300
Olive oil	100	PRODUCTS VISCOSITY			



- 1 Delivery manifold
- 2 Ball valve
- 3 Diaphragm
- 4 Air Distributor
- 5 Central casing
- 6 Wetted washer
- 7 Pump casing
- 8 Suction manifold

to FDA regulation, wet parts of electro polished SUS 316 with surface finish to **125 Ra** (average **2,7 µm**) and PTFE, both certified for food applications.

All **ASTRAFOOD** pumps comply to ATEX, Zona 2, regulation and are adequate to operate in areas with atmosphere potentially explosive and, with the variant of the conductive executions, can operate also in areas classified as ATEX Zone 1.

These pumps are capable to pump fluids with very high viscosity and temperature up to **95°C**.

All other constructive and functional characteristics are equal to those of the ASTRA.

ASTRAFOOD “DFA” serie thanks to their characteristics and design can be applied for the transfer of fluids deployed in industries as food, the cosmetics, pharmaceuticals, or chemical additives, beverages, dairy, biotechnologies, medical appliances, paint and in all those applications were a quick release clamp connection is required or appreciated.

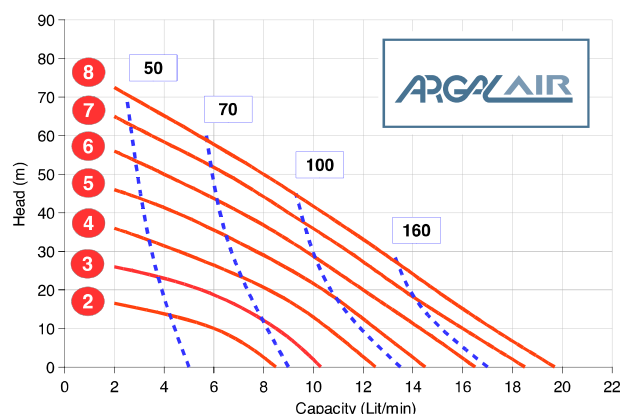
These pumps are usually used to transfer or to remove the products from the mixing contains or storage basins or to pack them in bottles or similar containers.

The air operated double diaphragm pumps **ASTRAFOOD** are constructed with materials compliant

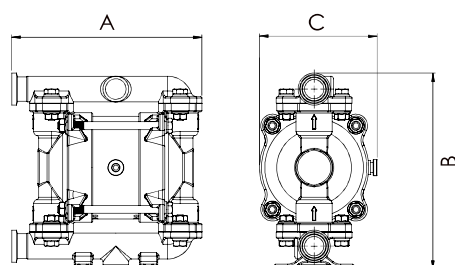


DFA 125 - 250

DFA 38-18



bar Air Pressure main supply **NL/min** Air consumption



COMPOSITION (mm)	
AISI 316	A 148 B 92 C 153

TECHNICAL DATA

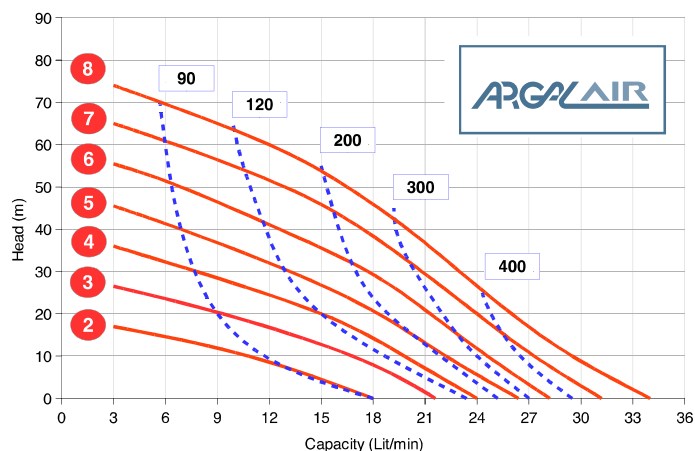
Fluid connections	• Tri-Clamp ½" • BSP • NPT
Air connection	6 mm
Max flow rate	18 l/m
Max air pressure	8 bar
Max viscosity	12.000 cPs

COMPOSITION

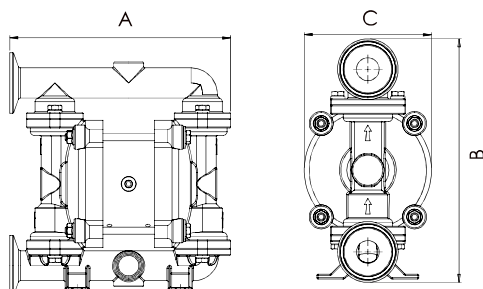
Wetted parts	• AISI 316 Polished
Diaphragms	• NBR+PTFE
Valve Balls	• PTFE • AISI 316
Valve Seats	• AISI 316
Gaskets	• PTFE

Connections scheme page 28

DFA 50-30



bar Air Pressure main supply **NL/min** Air consumption



COMPOSITION (mm)	
AISI 316	A 184 B 106 C 203

TECHNICAL DATA

Fluid connections	• Tri-Clamp 1" • BSP • NPT
Air connection	6 mm
Max flow rate	30 l/m'
Max air pressure	8 bar
Max viscosity	15.000 cPs

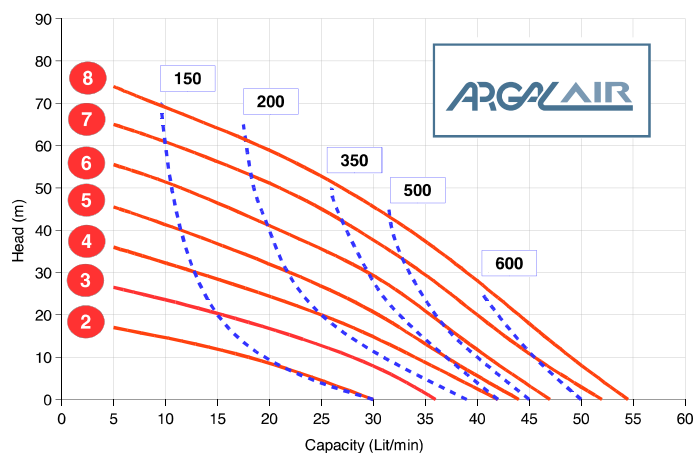
COMPOSITION

Wetted parts	• AISI 316 Polished
Diaphragms	• HYTREL+PTFE
Valve Balls	• PTFE • AISI 316
Valve Seats	• AISI 316
Gaskets	• PTFE

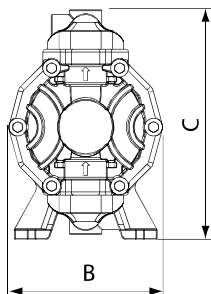
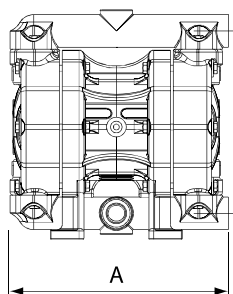
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ASTRAFOOD

DFA 50-50



bar Air Pressure main supply **NI/min** Air consumption



DIMENSIONS (mm)

AISI 316 A 251 B 249 C 177

TECHNICAL DATA

Fluid connections	• Tri-Clamp 1" • BSP • NPT
Air connection	1/4" BSP
Max flow rate	50 l/m'
Max air pressure	8 bar
Max viscosity	20.000 cPs

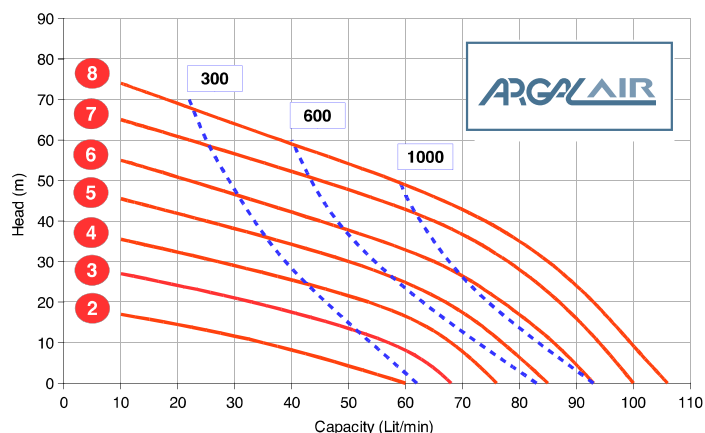
COMPOSITION

Wetted parts	• AISI 316 Polished
Diaphragms	• HYTREL+PTFE
Valve Balls	• PTFE • AISI 316
Valve Seats	• AISI 316
Gaskets	• PTFE

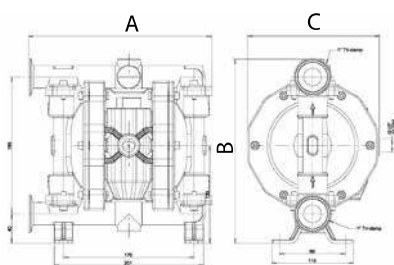
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DFA 75-100



bar Air Pressure main supply **NI/min** Air consumption



DIMENSIONS (mm)

AISI 316 **A** 247 **B** 249 **C** 177

TECHNICAL DATA

Fluid connections	• Tri-Clamp 1" • BSP*
Air connection	3/8" BSP
Max flow rate	100 l/m'
Max air pressure	8 bar
Max viscosity	25.000 cPs

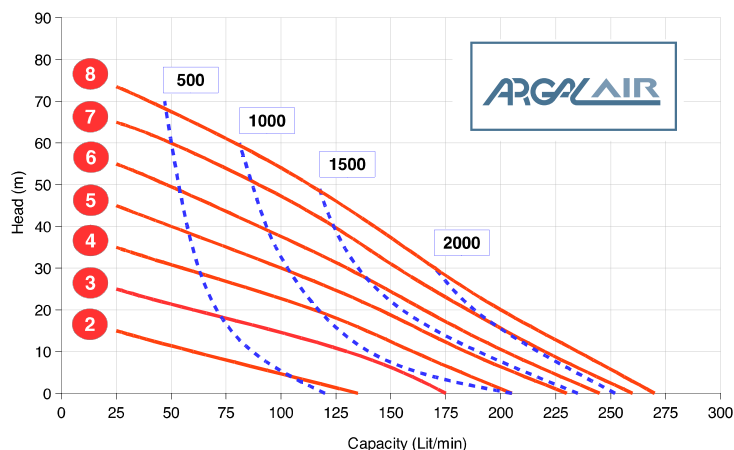
COMPOSITION

Wetted parts	• AISI 316 Polished
Diaphragms	• HYTREL+PTFE
Valve Balls	• PTFE • AISI 316
Valve Seats	• AISI 316
Gaskets	• PTFE

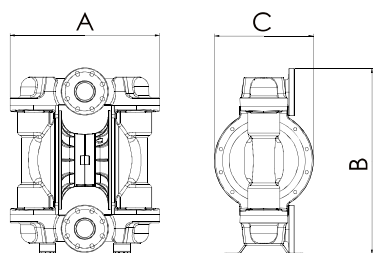
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* Optional

DFA 125-250



bar Air Pressure main supply **NI/min** Air consumption



DIMENSIONS (mm)

AISI 316 **A** 360 **B** 222 **C** 346

TECHNICAL DATA

Fluid connections	• Tri-Clamp 1 1/2" • BSP*
Air connection	1/2" BSP
Max flow rate	250 l/m'
Max air pressure	8 bar
Max viscosity	35.000 cPs

COMPOSITION

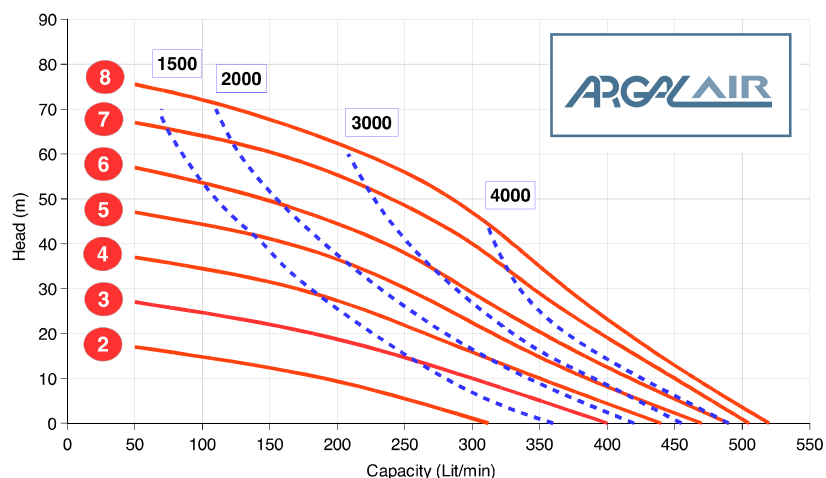
Wetted parts	• AISI 316 Polished
Diaphragms	• HYTREL+PTFE
Valve Balls	• PTFE • AISI 316
Valve Seats	• AISI 316
Gaskets	• PTFE

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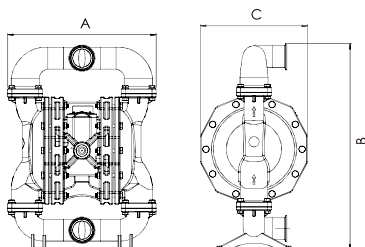
* Optional

ASTRAFOOD

DFA 150-500



bar Air Pressure main supply **NI/min** Air consumption



DIMENSIONS (mm)

AISI 316 **A 361 B 260 C 502**

TECHNICAL DATA

Fluid connections	• Tri-Clamp 2½"
Air connection	¾" BSP
Max flow rate	500 l/m'
Max air pressure	8 bar
Max viscosity	50.000 cPs

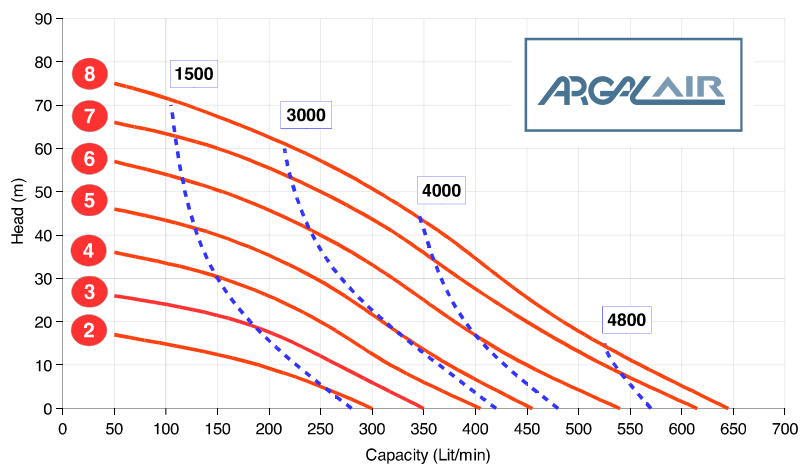
COMPOSITION

Wetted parts	• AISI 316 Polished
Diaphragms	• NBR+PTFE
Valve Balls	• PTFE • AISI 316
Valve Seats	• AISI 316
Gaskets	• PTFE

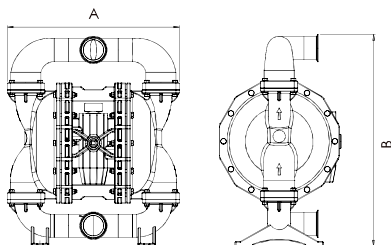
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* Optional

DFA 200-650



bar Air Pressure main supply **NI/min** Air consumption



DIMENSIONS (mm)

AISI 316 **A 487 B 598**

TECHNICAL DATA

Fluid connections	• Tri-Clamp 2½" • BSP*
Air connection	¾" BSP
Max flow rate	650 l/m'
Max air pressure	8 bar
Max viscosity	50.000 cPs

COMPOSITION

Wetted parts	• AISI 316 Polished
Diaphragms	• HYTREL+PTFE
Valve Balls	• PTFE • AISI 316
Valve Seats	• AISI 316
Gaskets	• PTFE

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* Optional