



DSCPUMPS SRL  
DOSING FILTER AND STORAGE

# DSCPUMPS



CATALOGUE  
PNEUMATIC PUMPS



[WWW.DSCPUMPS.IT](http://WWW.DSCPUMPS.IT)

Pneumatic double diaphragm pumps have long been recognized as the most flexible pumps in the treatment of aggressive liquids, at variable pressures and flow rates.

The range of applications is practically unlimited.

The pumps are made in various cuts and, with a wide range of choice of construction materials.

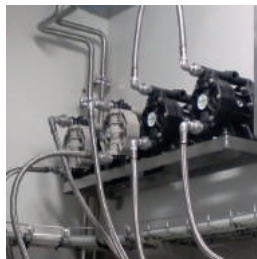
Almost any type of liquid, from highly acidic and corrosive, through paints, high viscosity glues, to food products, can be pumped.

## Applications

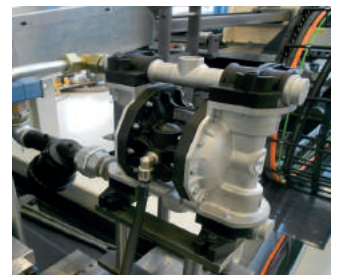
Pneumatic pumps can be used in the most varied installations and countless applications.

PAINTS

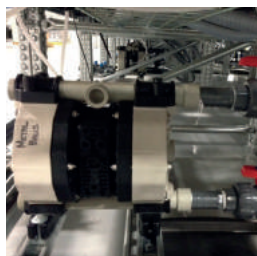
TEXTILE  
AND TANNING



FOOD



PAPER  
CERAMIC  
CHEMIST



BIODIESEL

AUTOMOTIVE  
PETROCHEMICAL  
MECHANIC  
OIL & GAS



PHARMACEUTICAL  
AND COSMETIC



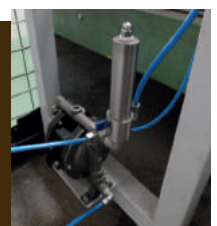
MINES



GALVANIC  
INDUSTRY



INKS





## Products



### Nix



Double diaphragm pneumatic pumps  
ATEX Certificate

#### Materials

PP, PVDF, ALLUMINUM, AISI 316, POMC

Flowrate by 8 lt/min to 1.000 lt/min

Connections by 1/4" to 3".



### Nix Atex



Double diaphragm pneumatic pumps  
ATEX Certificate

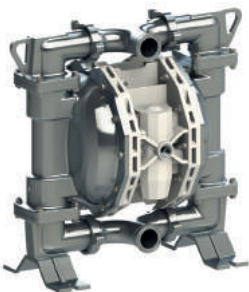
#### Materials

PP+CF, PVDF+CF, ALUMINIUM,

AISI 316, POMC

Flowrate by 8 lt/min to 1.000 lt/min

Connections by 1/4" to 3".



### Nix Food



Double diaphragm pneumatic pumps

#### Materials

AISI 316 Electro polished

Flowrate by 18 lt/min to 1.000 lt/min

Connections Tri-Clamp.



### Special Pump



Double diaphragm pneumatic pumps  
with special features:

TWIN NIX split in suction and discharge

DRUM NIX for emptying drums and tanks

ACCURATE with external control



### Damper



Pneumatic pulsation dampers

#### Materials

PP, PVDF, ALLUMINUM, AISI 316, POMC

Applicable to all pump sizes.

Also available in ATEX or FOOD version.



## Features and Benefits

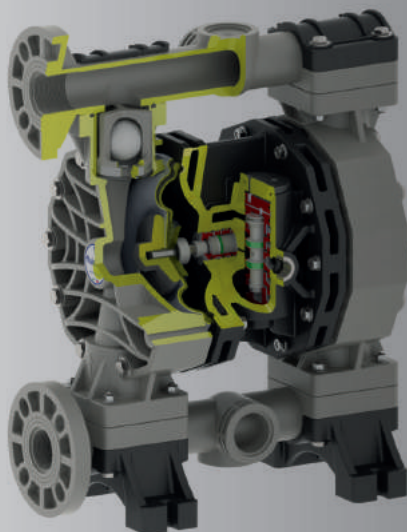
100% tested  
with water after  
assembly:  
dead-head,  
hydrostatic seal

ATEX Certificate

Compact and  
portable. Use in  
multi-location  
thanks to the  
trolley option

Dry running  
without damaging  
the pump  
or pneumatic  
system

Possibility to work  
in immersion,  
completely,  
in low fluid  
compatibility



Special silencer:  
designed to work  
with low  
noise levels

Quick and easy  
maintenance,  
without  
special tools

Self-priming:  
dry suction  
capacity  
up to 6 meters

Safe operation  
in mode  
"dead head",  
delivery closed,  
without damage  
to the pump

Anti-stall and  
anti-freeze  
pneumatic  
distributor,  
which  
does not require  
lubrication

Special Design  
of the pneumatic  
system for  
to ensure long  
life and  
low air  
consumption

Flow rate and pressure  
variable  
easy to adjustment

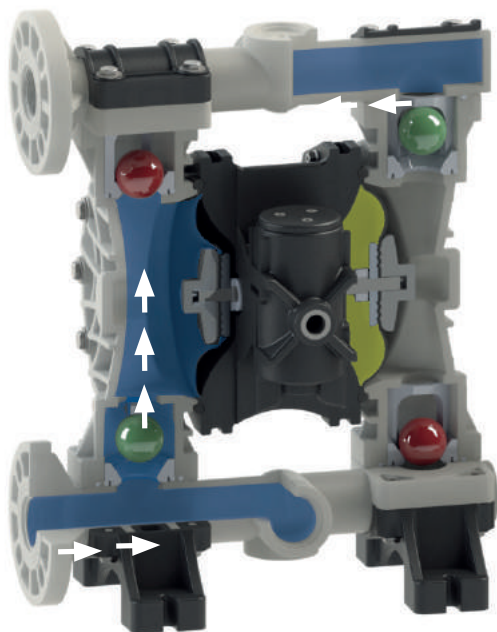
Wide range of sizes  
many materials,  
for all compatibility  
with chemicals

ATEX Certificate

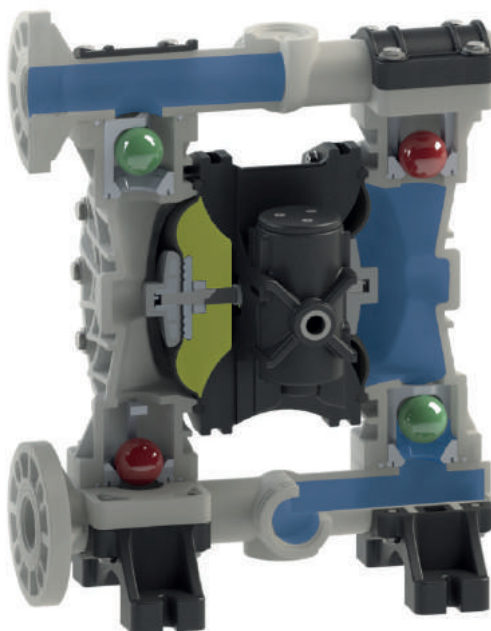
Possibility  
of  
treating liquid  
with solids ideal  
for abrasive, dirty  
and viscous fluids



## Operation



1. Suction



2. Discharge

○ Fluid  
○ Air

## Installation



Pump installed below the tank



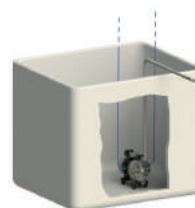
Self-priming Pump installed above the tank



Pump installed above the tank



Pump installed under hopper for high viscosity fluids



Submerged pump



Pump installed on mobile unit



POMc



PVDF



PP



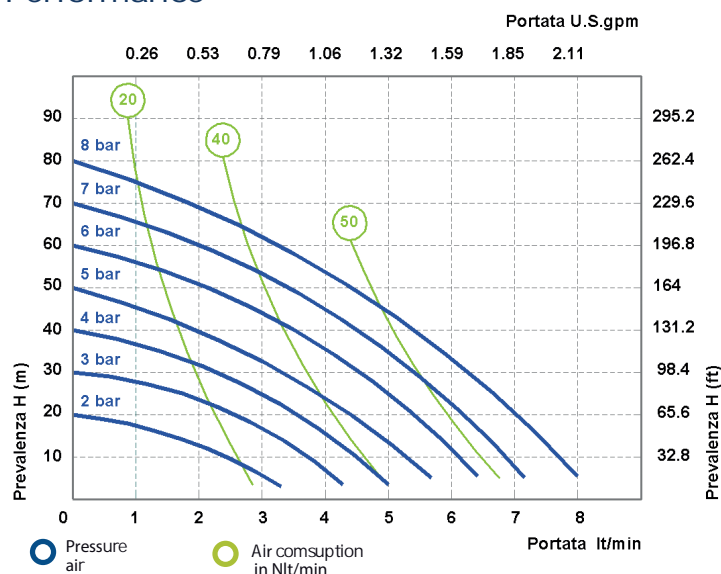
## NIX 07

### Technical Data

Connections Fluid:	1/4" BSP
Connection air:	4 mm
Flowrate Max:	8 lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	3 m
Suction with fluid :	9,8m
Solid passage Max:	2,5 mm
Noise :	62 dB
Viscosity Max:	6.000 cps

EX II 3/3 GD c IIB T 135°C

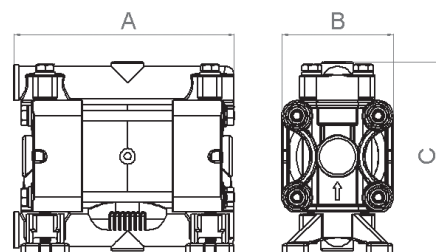
### Performance



The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20° C, and vary depending on the construction material.

### Dimensions

P	P	PVDF	POMc
A (mm)	129	129	129
B (mm) 6	8	68.6	8
C (mm)	112	112	112
Weight kg	0,9	0,7	0,9
Temperature MAX	65°C	95°C	95°C



### Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX07	P = PP KC = PVDF+CF O = POMc	NT = NBR+PTFE	T = PTFE S = SS	P = PP K = PVDF O = POMc	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 5 = NPT	- = zona 2	AB = STANDARD





AISI316L



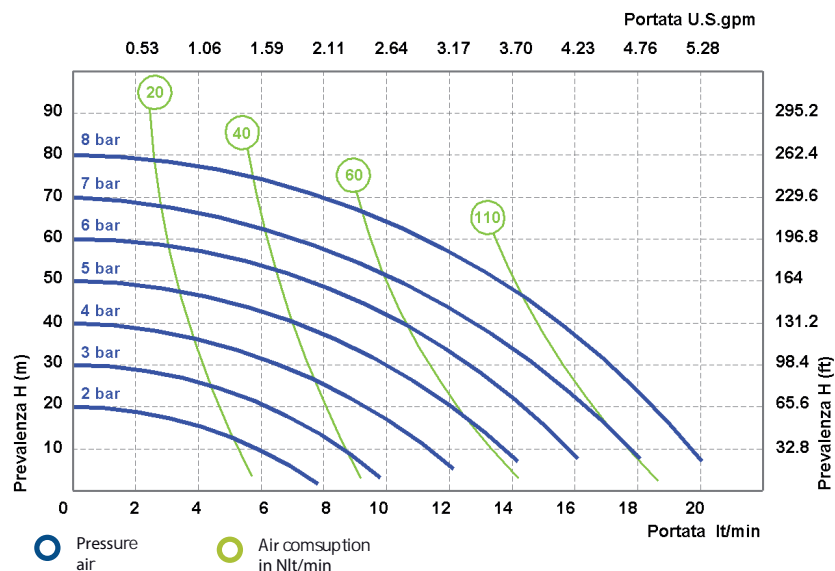
# NIX 018

## Tecnical data

Connections Fluid:	3/8" BSP
Connection air:	6mm
Flowrate Max:	20lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	6m
Suction with fluid :	9,8m
Solid passage Max:	3mm
Noise :	65 dB
Viscosity Max:	12.000 cps

EX II 3/3 GD c IIB T 135°C

## Performance

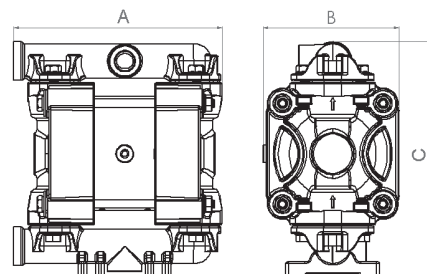


Pressure air Air consumption in Nlt/min

The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20° C, and vary depending on the construction material.

## Dimensions

P	P	PVDF	POMc A	ISI 316
A (mm)	146	146	146	148
B (mm)	96	96	96	92
C (mm)	164	164	164	153
Peso kg	1,1	1,4	1,1	2,1
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX018	P = PP KC = PVDF+CF O = POMc S = SS	NT = NBR+PTFE	T = PTFE S = SS	P = PP K = PVDF O = POMc S = SS	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 5 = NPT	- = zona 2	AB = STANDARD





NIX 030

POMc



PP



PVDF



AISI316L

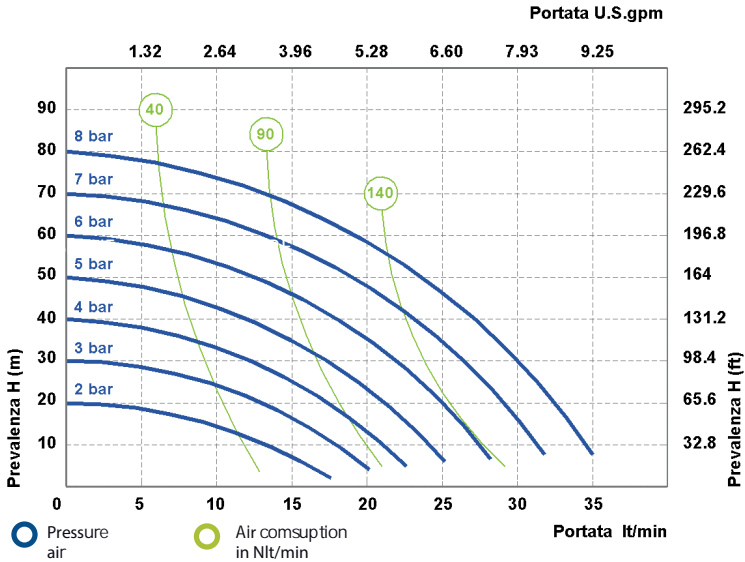


Tecnical data

Connections Fluid:	1/2" BSP
Connection air:	6 mm.
Flowrate Max:	35lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	5m
Suction with fluid :	9,8m
Solid passage Max:	3,5 mm
Noise :	65dB
Viscosity Max:	15.000 cps

EX II 3/3 GD c IIB T 135°C

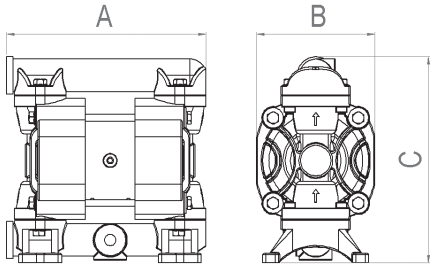
Performance



The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20° C, and vary depending on the construction material.

Dimension

P	P	PVDF	POMc A	ISI
A (mm)	177	177	177 1	82
B (mm)	105	105	105	104
C (mm)	183	183	183	190
Peso kg	1,4	1,7	1,4	2,4
Temperatura MAX	65°C	95°C	95°C	95°C



Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX030	P = PP KC = PVDF+CF O = POMc S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF O = POMc S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE 5 = NPT	- = zona 2	AB = STANDARD



ALU



PP



PVDF



AISI316L



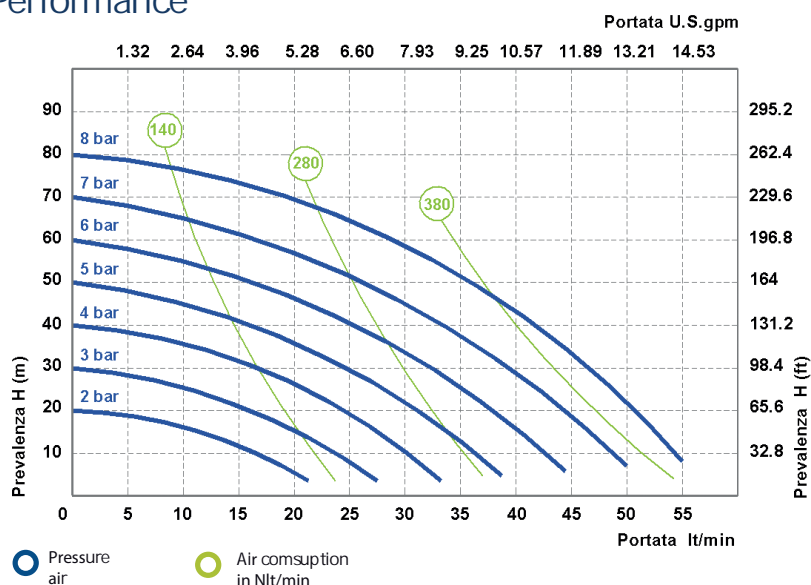
# NIX 050

## Technical data

Connections Fluid:	1/2" BSP
Connection air:	1/4" BSP
Flowrate Max:	55lt/min
Pressure Max:	8 bar
Head Max:	80m
Dry suction Max:	6m
Suction with fluid :	9,8m
Solid passage Max:	3,5 mm
Noise :	68dB
Viscosity Max:	20.000 cps

EX II 3/3 GD c IIB T 135°C

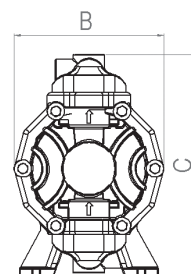
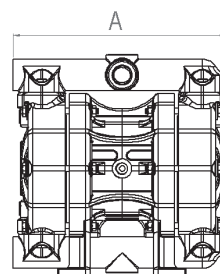
## Performance



The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20° C, and vary depending on the construction material.

## Dimensions

P	P	PVDF	POMc A	ISI
A (mm)	222	222	225	225
B (mm)	156	156	156	156
C (mm)	233	233	230	230
Peso kg	4	4,5	5	6
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX050	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE T MT = SANTOPRENE+PTFE S H = HYTREL M = SANTOPRENE	= PTFE = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE 5 = NPT	- = zona 2	AB = STANDARD



ALU

PP

PVDF

AISI316L

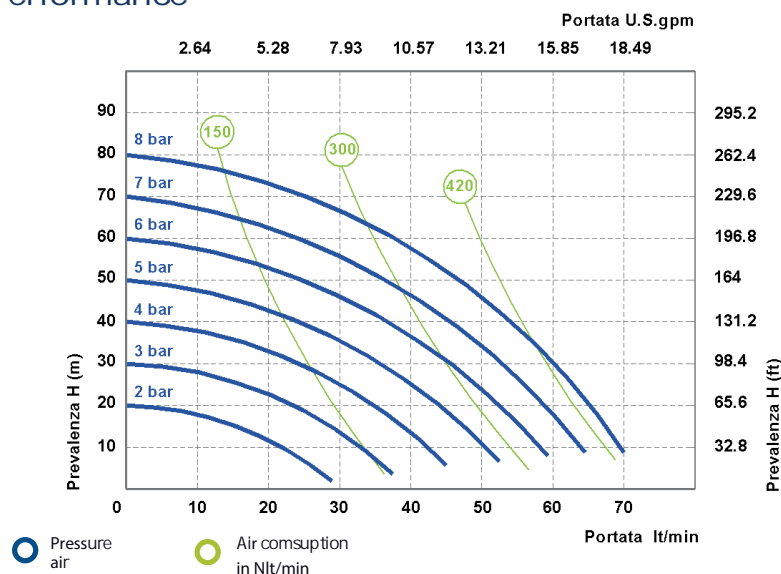
# NIX 065

## Technical data

Connections Fluid:	1/2" BSP
Connection air:	3/8" BSP
Flowrate Max:	70 lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	6m
Suction with fluid :	9,8m
Solid passage Max:	3,5 mm
Noise :	72 dB
Viscosity Max:	25.000 cps

 EX II 3/3 GD c IIB T 135°C

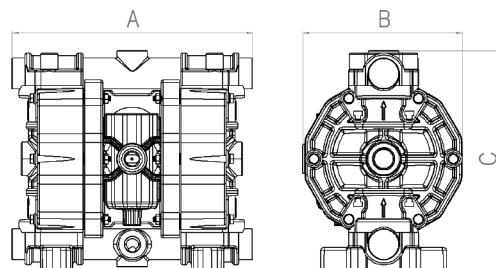
## Performance



The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20° C, and vary depending on the construction material.

## Dimensions

P	P	PVDF	POMc A	ISI
A (mm)	265	265	265	250
B (mm)	175	175	175	175
C (mm)	245	245	245	250
Peso kg	6,5	7	7	9
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX065	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE 5 = NPT	- = zona 2	AB = STANDARD



ALU



PP



PVDF



AISI316L



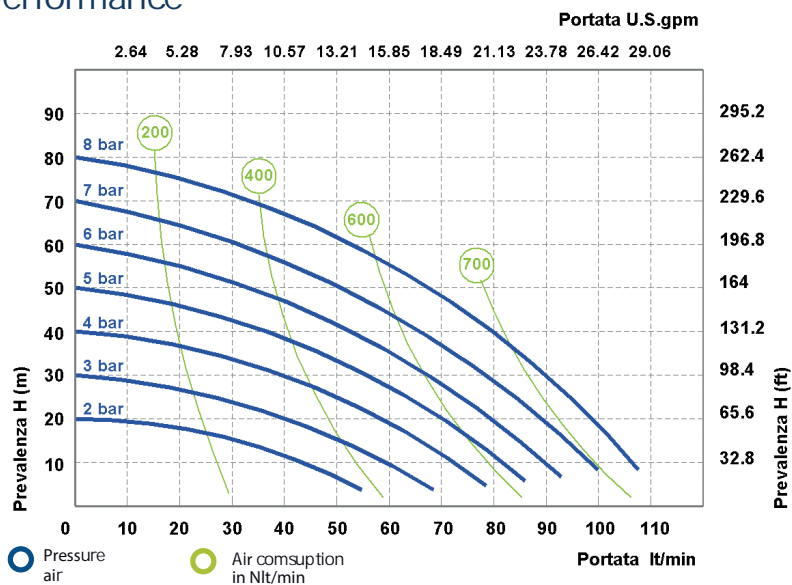
# NIX 100

## Technical data

Connections Fluid:	3/4" BSP
Connection air:	3/8" BSP
Flowrate Max:	110 lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	6m
Suction with fluid :	9,8m
Solid passage Max:	3,5 mm
Noise :	72 dB
Viscosity Max:	25.000 cps

EX II 3/3 GD c IIB T 135°C

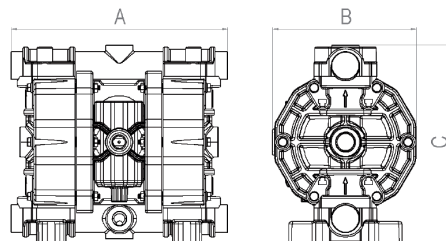
## Performance



The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20° C, and vary depending on the construction material.

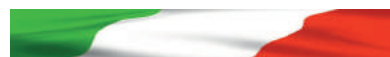
## Dimensions

P	P	PVDF	POMc A	ISI
A (mm)	265	265	265	250
B (mm)	175	175	175	175
C (mm)	245	245	245	250
Peso kg	6,5	7	7	9
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX100	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE 5 = NPT	- = zona 2	AB = STANDARD



ALU



PP



PVDF



AISI316L



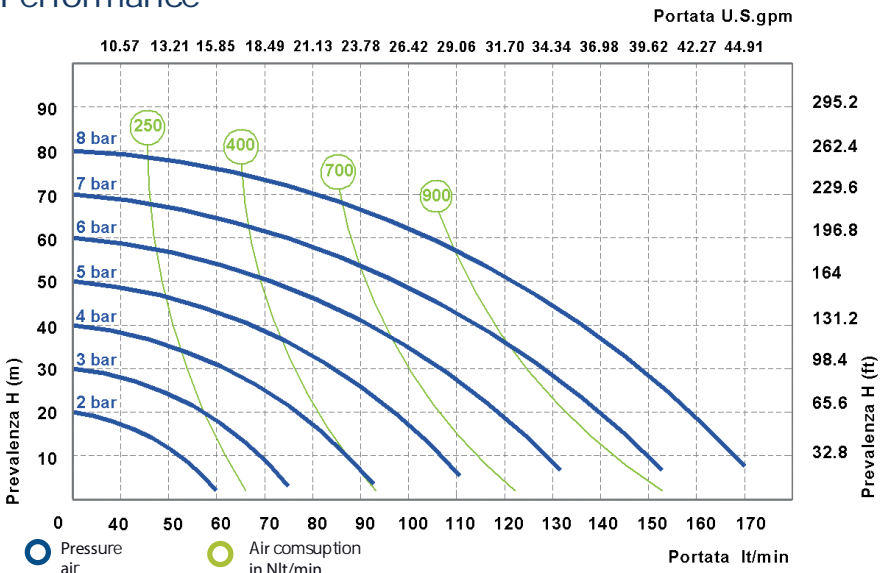
# NIX 160

## Technical data

Connections Fluid:	1" BSP
Connection air:	1/2" BSP
Flowrate Max:	170 lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	6m
Suction with fluid :	9,8m
Solid passage Max:	7,5 mm
Noise :	75dB
Viscosity Max:	35.000 cps

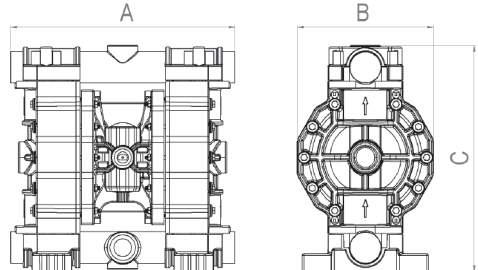
EX II 3/3 GD c IIB T 135°C

## Performance



## Dimensions

P	P	PVDF	POMc A	ISI
A (mm)	370	370	370	360
B (mm)	222	222	222	222
C (mm)	370	370	364	346
Peso kg	15	16	16	20
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX160	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE 5 = NPT	- = zona 2	AB = STANDARD





ALU



PP



PVDF



AISI316L



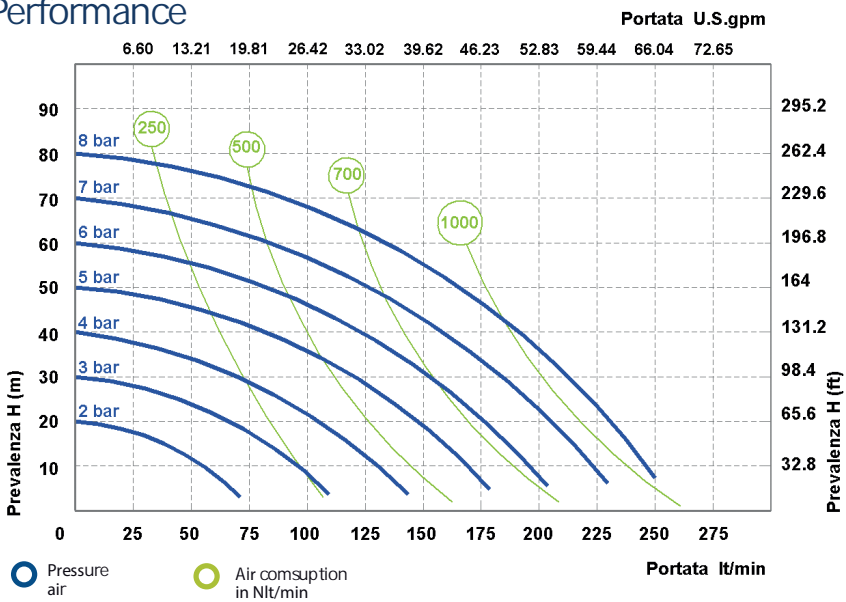
# NIX 250

## Technical data

Connections Fluid:	1"1/4 BSP
Connection air:	1/2" BSP
Flowrate Max:	250 lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	6m
Suction with fluid :	9,8m
Solid passage Max:	7,5 mm
Noise :	75dB
Viscosity Max:	35.000 cps

EX II 3/3 GD c IIB T 135°C

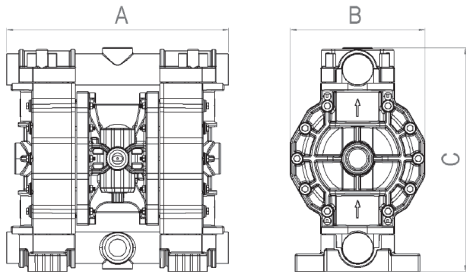
## Performance



The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20° C, and vary depending on the construction material.

## Dimensions

P	P	PVDF	POMc A	ISI
A (mm)	370	370	370	360
B (mm)	222	222	222	222
C (mm)	370	370	364	346
Peso kg	15	16	16	20
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX250	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE 5 = NPT	- = zona 2	AB = STANDARD



ALU



PP



PVDF



AISI316L



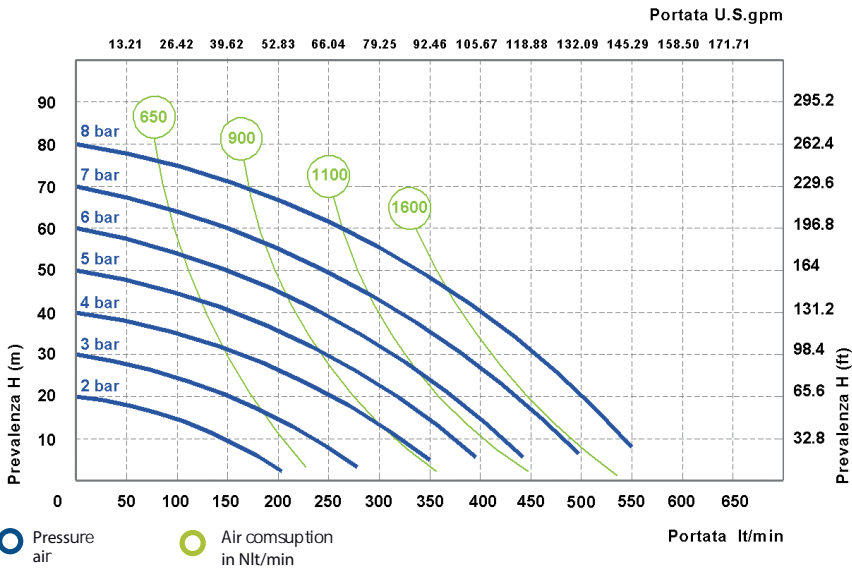
# NIX 500

## Technical data

Connections Fluid:	1"1/2BSP DN40
Connection air:	3/4" BSP
Flowrate Max:	550lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	5m
Suction with fluid :	9,8m
Solid passage Max:	7,5 mm
Noise :	78dB
Viscosity Max:	50.000 cps

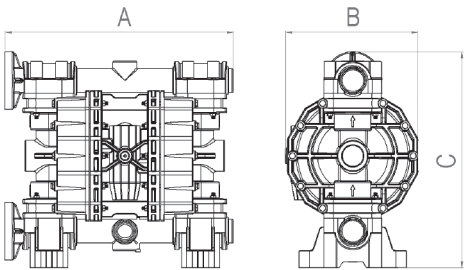
EX II 3/3 GD c IIB T 135°C

## Performance



## Dimensions

	PP	PVDF	ALU	AISI
A (mm)	595	595	595 5	82
B (mm)	345	345	345	345
C (mm)	565	565	560	570
Peso kg	31	36	36	60
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX250	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE 5 = NPT	- = zona 2	AB = STANDARD



ALU



PP



PVDF



AISI316L



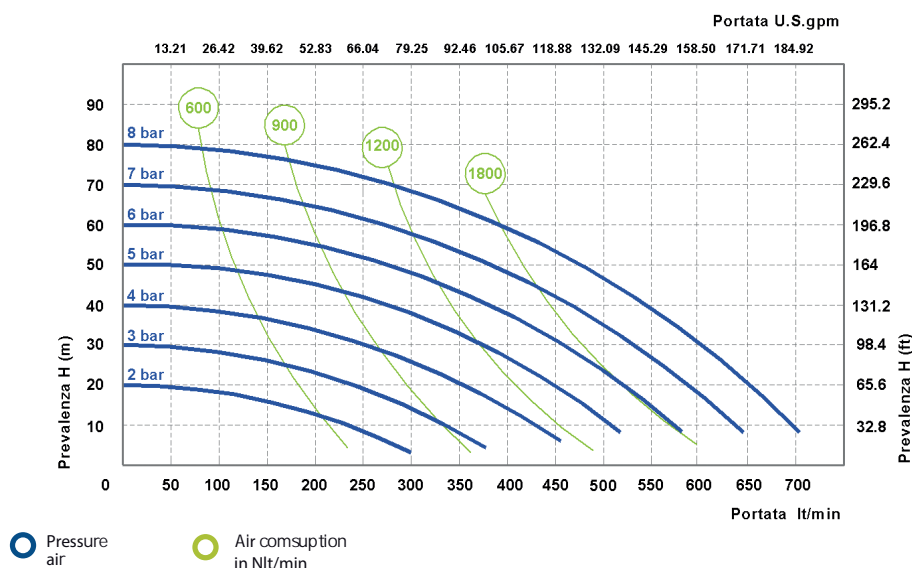
# NIX 700

## Technical data

Connections Fluid:	2" BSP DN50
Connection air:	3/4" BSP
Flowrate Max:	700 lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	5m
Suction with fluid :	9,8m
Solid passage Max:	7,5 mm
Noise :	78dB
Viscosity Max:	50.000 cps

EX II 3/3 GD c IIB T 135°C

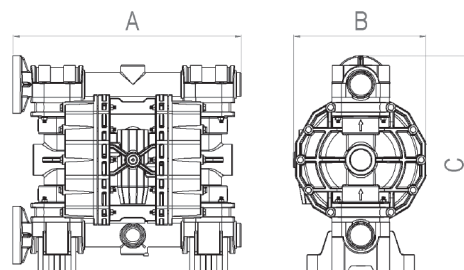
## Performance



The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20°C, and vary depending on the construction material.

## Dimensions

	PP	PVDF	ALU	AISI
A (mm)	595	595	595 4	87
B (mm)	345	345	345	345
C (mm)	565	565	560	599
Peso kg	31	36	36	46
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX700	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE 5 = NPT	- = zona 2	AB = STANDARD



ALU

PP

PVDF

AISI316L

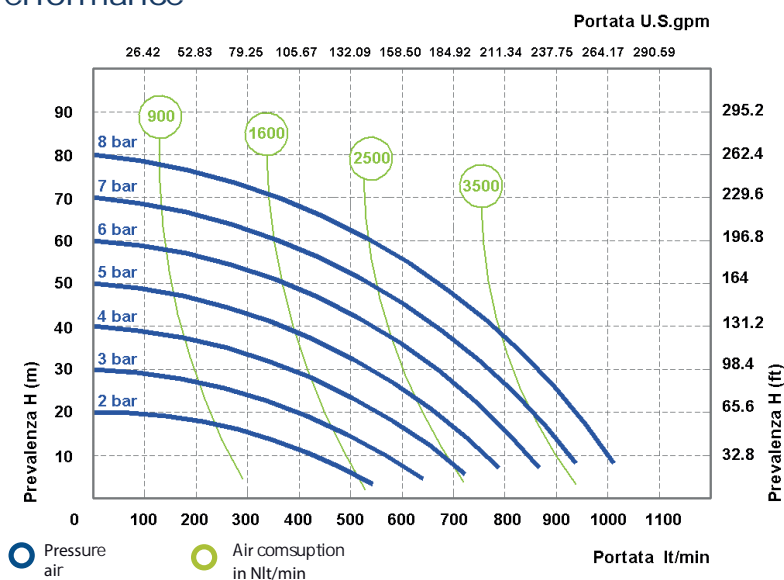
# NIX 1000

## Technical data

Connections Fluid:	3" BSP DN80
Connection air:	3/4" BSP
Flowrate Max:	1050 lt/min
Pressure Max:	8 bar
Head Max:	80 m
Dry suction Max:	5m
Suction with fluid :	9,8m
Solid passage Max:	10 mm
Noise :	78dB
Viscosity Max:	55.000 cps

 EX II 3/3 GD c IIB T 135°C

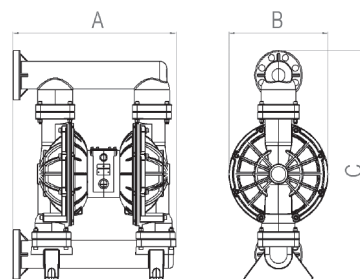
## Performance



The curves and performances refer to pumps with submerged suction and free outlet delivery, with water at 20° C, and vary depending on the construction material.

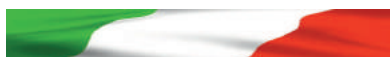
## Dimensions

	PP	PVDF	ALU	AISI
A (mm)	685	685	570	570
B (mm)	417	417	420	420
C (mm)	933	933	838	838
Peso kg	50	55	55	120
Temperatura MAX	65°C	95°C	95°C	95°C



## Composition

MOD.	Body	DIAPHRAGM	VALVES	SEATS	O-RINGS	CONNECTIONS	ATEX	POSITION
NIX1000	P = PP KC = PVDF+CF A = ALU S = SS	MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGIATE	- = zona 2	AB = STANDARD



# NIXATEX

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## Atex

NIX, NIX FOOD e DAMPER

EX II 3/3 GD c IIB T135°C Standard version Body in PP, PVDF, ALLUMINIO e SS AISI 316 POMc

NIX ATEX, NIX FOOD ATEX e DAMPER ATEX

EX II 2/2 GD c IIB T135°C ATEX version, Body in PP+CF (conductive), PVDF+CF(conductive), ALLUMINUM e SS AISI 316 POMc+C F

### II 2/2 GD:

Surface equipment for use in areas where gases, vapors or mists and clouds of combustible dust in the air occur from time to time during normal operation in both the external and internal zones.

### II 3/3 GD:

Surface equipment for use in areas where gases, vapors or mists and clouds of combustible dust in the air cannot occur during normal operation or can rarely occur for a short period

**c:** Equipment in constructive protection mode (EN 13463-5)

**IIB:** Exclusion of the following products: Hydrogen, acetylene, carbon sulphide

### T 135°:

Permitted temperature class. The user must process the fluids that comply with this temperature classification, taking into consideration the instructions in the manual and the provisions of the regulations in force.

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# NIXFOOD

Double diaphragm pneumatic Pumps



AISI 316 electro-polished

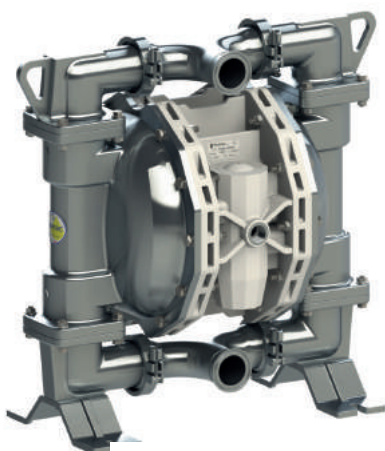
Flowrate 18lt/min to 1.000 lt/min

Connections Tri-Clamp.

ATEX Certification

Atex zona 2 - EX II 3/3 GD c IIB T 135°C

Atex zona 1 - EX II 2/2 GD c IIB T 135°C



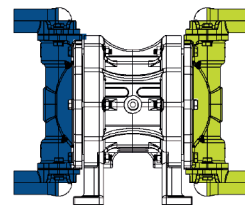
# SPECIAL PUMPS



DRUMPUMPS pumps are designed for emptying drums and tanks, to supply an economical and durable alternative to other pumping systems. In order to handle a wide range of fluids, DP pumps are available in all materials of construction.

The pumps can be easily and quickly placed on the drums thanks to the anti-vibration feet.

The tank is completely emptied, thanks to the rigid suction pipe.



DOUBLE N IX PUMPS pumps are mainly used in the textile and paper industry.

These double action pumps are capable of simultaneously transferring two different fluids independently.

All this is achieved by using connections of separate suction and delivery, maintaining keeping the two treated fluids separate from each other.



## DAMPER

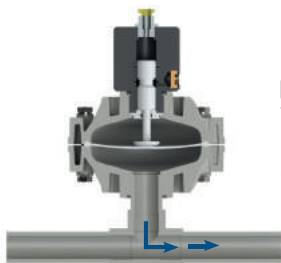
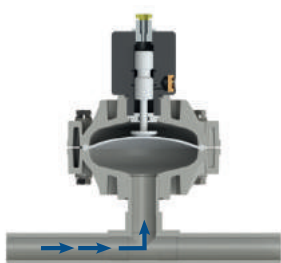
The pulsation damper works actively with compressed air, with an automatic valve and the membrane, it turns out to be the best system to dampen all the pump pulsations

### Applications

- Measurements and dosage
- It dampens the pressure peaks of the delivery, increasing accuracy
- Press filters
- Spraying
- Constant spray pattern.
- FILLS
- Eliminate filling and splashing errors.
- Transfer
- Eliminates harmful water hammers, safeguarding pipes and valves.



Significant reduction of pulsations,  
-70% - 80%

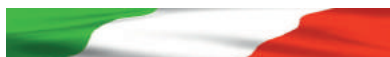


### Operation

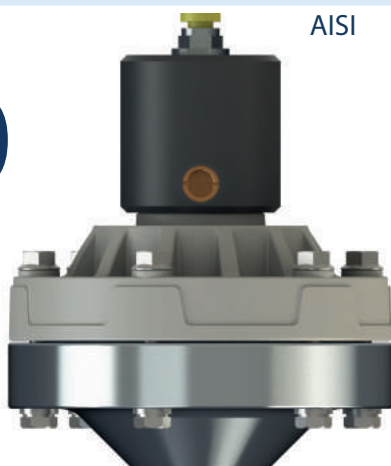
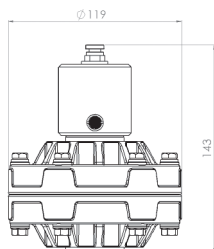
Il fluido pulsante dalla mandata, spinge la membrana  
The pulsating fluid from the delivery pushes the diaphragm upwards where it is cushioned by the air in the pneumatic chamber. The bending of the diaphragm absorbs the pulsation compensating for the low flow phase of the pump suction

PP, PVDF, ALLUMINUM, AISI 316L, POMC

Available ATEX o FOOD.



## Damper DP020



AISI

PVDF+CF



POMc



PPV

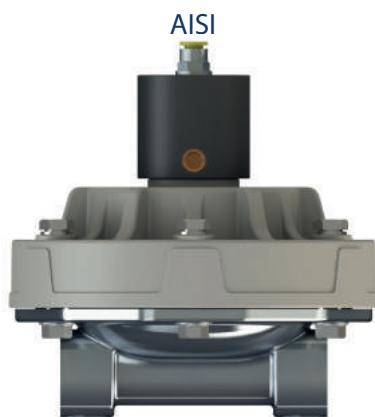
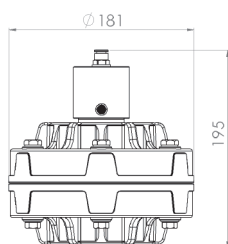


### Technical data

Connections chemical: 3/4"  
Connection air: 6 mm  
Max Pressure : 8 bar

FOR NIX:  
007 - 018 - 03.0  
FOR NIX:  
FOR NIX:

## Damper DP025



AISI

PVDF+CF



POMc



PP

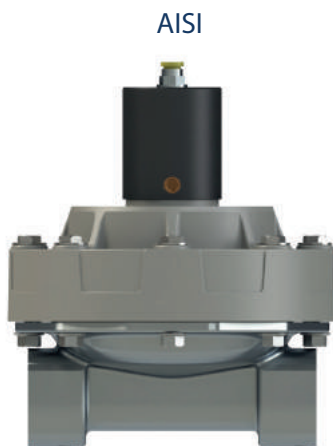
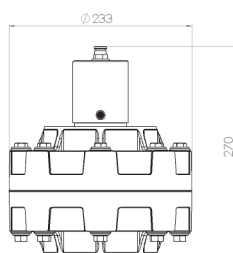


### Technical data

Connections chemicals: 1"  
Connection air: 8 mm  
Max Pressure : 8 bar

FOR NIX:  
050 - 065 - 10.0

## Damper DP040



AISI

PVDF+CF



POMc



PP

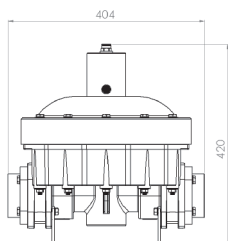


### Technical data

Connections chemicals: 1 1/2"  
Connection air: 10 mm  
Max Pressure: 8 bar

FOR NIX:  
160 - 250

## Damper DP050



AISI

PVDF+CF



ALUP



P



### Technical data

Connections chemicals: 2"  
Connection air: 12 mm  
Max Pressure: 8 bar

FOR NIX:  
500 - 700 - 1000



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