



# **PHOENIX**

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS

Made in Italy

www.fluimac.com





## fluimac pump solution





### MAIN FEATURES

Fluimac is an original, young and dynamic company built in 2012 for a new concept of product.

It is specialized in providing pump solutions with an innovative and continuously developing design of range.

The huge experience, knowledge and efficiency of its team is the starting point of its own business.

Fluimac stands out for its reliable and prompt technical support and assistance.

The internal research and development department ensures the proficiency of its team, which constantly grows in order to satisfy all the customers' needs.

The company keeps up with the constant evolution of the national and international market and its quality control guarantees innovative and certificated products, which respect current legal standards.

The organization of the warehouse and the assembly/testing department, allows the company to offer short delivery times, immediate check of availability, speedy shipments and fast service assistance. The policy of Fluimac relies also on excellent customer service and a network of efficient, reliable distributors who ensure willingness, quality and technical support. This makes Fluimac a high quality company, grounded in excellence.

# CE CONTROL DE CONTROL







# FUENCE SEL 19. Name of the Market of the Selection of th







FLUIMAC'S CERTIFICATES



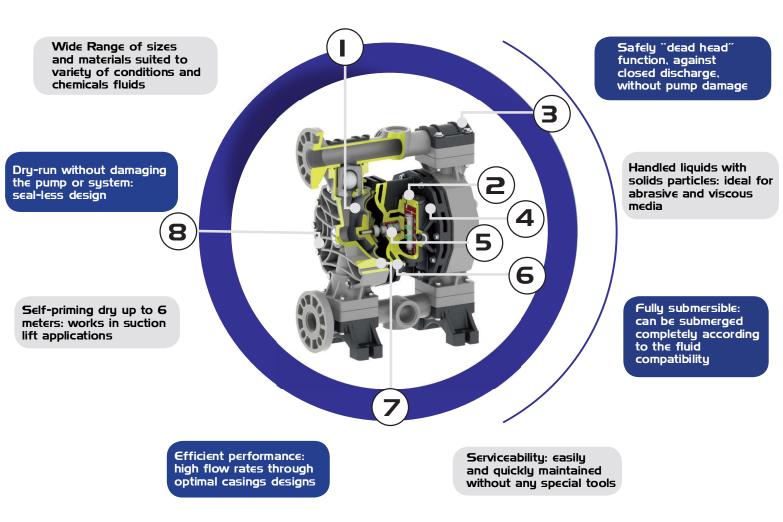






PRODUCTS		RANGE	CERTIFICATES
Air operated double diaphragm pumps have long been recognized as the most flexible pumps of the industry for handling difficult		PHOENIX Air operated double diaphragm pumps Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow-rate from 7 lt/min to 1.000 lt/min. Connection from 1/4" to 3".	C € EHI Ex
liquids at relatively low pressures and flows. The range of applications is virtually limitless. Fluimac AODD pumps come in many sizes and choices of materials of construction. Almost every type of liquid from highly corrosive acids through high viscosity paints		PHOENIX FOOD Air operated double diaphragms pumps Realized in: SS AISI 316 electro-polished. Flow-rate from 20 lt/min to 1.000 lt/min. Tri-Clamp Connection.	
Almost every type of liquid		PHOENIX ATEX Air operated double diaphragms pumps, ATEX certified for zone1. Realized in: PP+CF, PVDF+CF, ALUMINIUM, SS AISI 316, POMc+CF Flow-rate from 7 lt/min to 1.000 lt/min. Connection from ½" to 3".	<b>C €</b> [H[ ⓒ> <b>FD</b> ^
pumped.		ACCURATE PHOENIX  Double diaphragm pumps with remote control  Realized in:  PP, PVDF, ALUMINIUM, SS AISI 316, POMc  Flow-rate from 7 lt/min to 250 lt/min. Connection from 1/4" to 1"1/4.	C € [H[ ⓒ> FD/≥
	Ò	DRUM PHOENIX  Air operated double diaphragms pumps with special features to empty drums and tanks  Realized in:  PP, PVDF, ALUMINIUM, SS AISI 316, POMc  Flow-rate from 20 lt/min to 170 lt/min. Connection from 3/8" to 1".	<b>C €</b> [H[ ⓒ
		TWIN PHOENIX  Air operated double diaphragms pumps with special features with double inlet/outlet  Realized in:  PP, PVDF, ALUMINIUM, SS AISI 316, POMc  Flow-rate from 7 It/min to 700 It/min. Connection from 1/4" to 2".	C € EHI Ex
		SUBMERSIBLE PHOENIX  Air operated double diaphragm pumps with special features, design to be submerged.  Applicable to all size of pumps.	<b>C €</b> [H[ ⓒ>
		POWDER PHOENIX  Air operated double diaphragms pump with special design to handle powder  Realized in: ALU, SS.  Size available 1"½ and 2".	C € [H[ ⓒ> FD/≥
		DAMPER Pneumatic, automatic pulsation dampeners. Realized in: PP, PVDF, ALUMINIUM, SS AISI 316, POMc Applicable to all size of pumps. Available also in ATEX and FOOD version.	

# TECHNICAL FEATURES



1	2	3	4	5	6	7	8
Long-lasting diaphragm construction ensures a consistent performance and a longer operating life.	Efficient air distribution design: low air consumption. Un-balanced pilot spool, precisely controls positioning of the main power spool to eliminate stalling and increase efficiency.	All bolted design for an effective sealing to extended leak-proof service.	Solid polypropylene air chambers and plastic air valve for maximum chemical resistance in highly corrosive environments.	Acetalic shuttle ensures long valve life,auto-lubricated material.	Pneumatic exchanger is easily externally accessible for a quick inspection. Special Air system: lube-free, non-stall, non-freeze.	Special pinch clamping, design to minimize wear and increase life of the diaphragm, and provides a uniform seal to avoid leak.	Special exhaust chamber with double silencer to expand diffusion passages, reduce the icing and assure low noise level.

QUALITY 100% wet tested after final assembly: deadheading, priming and sealing SAFE ATEX certifications in all versions: Conductive plastic pumps available FLEXIBILITY Multiple porting options available along with interface options

# **OPERATION**





Fluid

### **Suction Cycle**

Compressed air fills right inner chamber, causing the opposing diaphragm to create suction, lifting the lower valve ball, pulling in fluid at inlet. Simultaneously, the right chamber is in "Discharge" cycle.

### Discharge Cycle



Compressed air fills left inner chamber, causing upper valve ball to open and discharge fluid. Simultaneously, the right chamber is in "Suction" cycle.

### INSTALLATION















Pump installed below head (positive suction)

when it is necessary to empty completely the container

Self priming pump installed above head (negative suction)

pump initially works with dry column without problem

Pump installed above drum or tank

amua

Pump installed on hopper for high viscosity liquid

with special featuring hopper's height helps the pump to treat the to check fluid. Air pressure has to be high, Suction tube has to be bigger than pump's size

Submerged Suspended Pump installed pump

it is necessary the chemical compatibility

fixing

a mobile unit special version

with a trolley or cart when pump with fixing feet also in the upper must be often part, for ceiling moved

# **9** 0160

- 1050 lt/min

CASING

# ΗТ

**DIAPHRAGM** 

D

**BALL** 

_	l
MODEL	SIZE
P	<b>7</b> - 7 lt/min
PHOENIX	<b>18</b> - 20 lt/min
	<b>30</b> - 35 lt/min
PF PHOENIX FOOD	<b>55</b> - 55 lt/min
	<b>60</b> - 65 lt/min
	<b>90</b> - 100 lt/min
	<b>120</b> - 120 lt/min
AP ACCURATE	<b>170</b> - 170 lt/min
PHOENIX	<b>252</b> - 250 lt/min
	<b>400</b> - 380 lt/min
	<b>700</b> - 700 lt/min
TP TWIN PHOENIX	<b>1000</b> - 1050 lt/mi
PP POWDER PHOENIX	
SP SUBMERSIBLE PHOENIX	



### POLYPROPYLENE Wide chemical compatibility. General purpose.Reinforced







CONDUCTIVE PVDF Strong chemical resistance to acids. High temperature resistance. Groundable.



ACETAL Wide range of solvent and hydrocarbons resistance. Good level of abrasion resistance.

0



CONDUCTIVE ACETAL Wide range of solvent and hydrocarbons. Good level of abrasion resistance. Groundable.



ALUMINIUM Wide range of solvent and hydrocarbons. Good level of abrasion resistance.



SS AISI 316 High level of corrosion and abrasion resistance.



SS - AISI 316 Electropolished High level of corrosion and abrasion resistance. Phoenix Food.



N NBR

Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals



**EPDM** Good with caustic

solutions, dilute acids, ketones and alcohols. Good abrasion resistance



Т PTFE Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.



HYTREL Good low temperature properties. Good abrasion resistance



**SANTOPRENE** solutions and dilute acids.











Good with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance

### T **PTFE**



Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.

### S SS



High level of corrosion and abrasion resistance. Good for viscous fluids.



BALL SEAT

### **GASKET**

### CONNECTIONS

### ATEX ZONE CERTIFICATION

### **PORTS**



### **POLYPROPYLENE**

Wide chemical compatibility. General purpose.



### ٧ VITON

High heat resistance. Good resistance to aggressive chemicals and hydrocarbons.



2 FLANGED

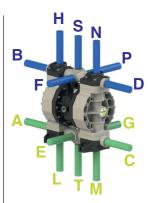
TRI-CLAMP

(PHOENIX FOOD)

ATEX ZONE 2 EX II 3/3 GD h IIB T4

X

ATEX ZONE 1 EX II 2/2 GD h IIB T4



### K **PVDF**

Strong chemical resistance to acids. High temperature resistance.



### Ν **NBR**

Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals.

NPT THREATED

6 - DIN 11851/3 (PHOENIX FOOD )



### **ALUMINIUM**

Wide range of solvent and hydrocarbons. Good level of abrasion resistance.



### D **EPDM**

Good with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.



### **PTFE**

Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.



# S

High level of corrosion and abrasion resistance.



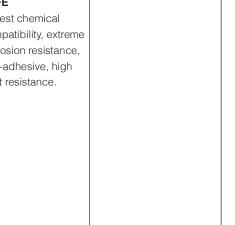
### Z PE

With high molecular weight: High level of abrasion resistance



### 0 **ACETAL**

Wide range of solvent and hydrocarbons resistance. Good level of abrasion resistance.



To select the right FLUIMAC pump for your application, the following factors should be considered to achieve economy of operation, long pump life, and minimal maintenance costs:

- The nature of the medium to be pumped, its viscosity, and the solids content
- Pumping capacity in relation to the desired output
- Suction and pressure conditions

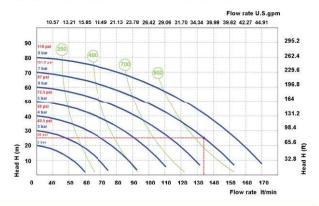
Considering these parameters, an optimal pump size is selected when the intersection of the intended installation "pressure vs. flow rate" is near the middle section of the curves.

### **USING PERFORMANCE CURVES**

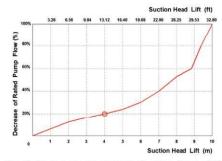
To determine compressed air requirements and proper size for a FLUIMAC AODD pump, two elements of information are required:

- 1 Required Flow Rate
- 2 Total Delivery Head

As an example, consider a P170 pump performance curve, pumping about 135 lt/min at 25m.Point A on the performance curve is where the desired Flow Rate and Total Delivery Head points intersect. This point determines compressed air requirements for the particular pump. At performance point A, the pump will require approximately 7 bar air inlet pressure. To arrive at this figure, follow the solid blue curve to the left to read the air pressure rating in BAR.By looking at the nearest green curve, it is determined the pump will require approximately 900 nl/min (Normal Liter per minute) of air consumption.

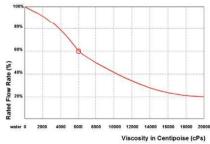


### SPECIFIED SUCTION LIFT



With a suction lift of 4 m, pump rate decreases by approximately 20%. Valid for pumps 3/4" and larger; data varies with pump configuration.

### VISCOUS LIQUIDS PERFORMANCE DATA



During the conveyance of a fluid with a viscosity of 6000cPs, the pump rate decreases to 60% of its rated value (100% = water). Valid for 3/4" pumps & larger.

PUMP TYPE	AODD	CENTRIFUGAL	LOBE	GEAR	SCREW	PERISTALIC	PISTON
	0		4		Petette.		
Variable Flow & Head Control	<b>✓</b>	<b>~</b>	<b>✓</b>	$\checkmark$	!	<b>✓</b>	<b>~</b>
Deadhead Safely	✓	1	!	!	!	Ī	!
Dry-Running	<b>✓</b>	x	x	x	x	<b>✓</b>	x
Dry Self-Priming	<b>✓</b>	x	x	$\checkmark$	х	<b>~</b>	!
No Mechanical Alignment	✓	x	x	x	х	x	x
No Electrical Installation	<b>✓</b>	x	x	x	x	x	x
Portability	<b>✓</b>	✓	!	!	!	<b>✓</b>	!
Submersible	✓	!	x	x	x	x	!
Sealless	<b>✓</b>	!	!	!	!	!	!
Cavitation Tolerance	<b>✓</b>	x	!	!	<b>~</b>	<b>✓</b>	1
Low Shear & Degradation	~	x	<b>✓</b>	$\checkmark$	Ĩ	<b>~</b>	!



# PHOENIX FOOD

Air operated double diaphragms pumps Realized in:

SS AISI 3I6 electro-polished Flow-rate from 20lt/min to I.000 lt/min

Tri-Clamp Connection.

ATEX certification

Atex zone 2 - EX II 3/3 GD h IIB T4
Atex zone I - EX II 2/2 GD h IIB T4



# **PF 18**



**AISI 316 ELECTRO-POLISHED** 

Fluid connections 3/4" TRI-CLAMP

Air connection 6 mm

Max. Flow rate 20 lt/min

Max air pressure 7 bar

Max delivery head 70 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 2,5 mm

Noise level: **65 dB** 

Max Viscosity: **10.000 cps** 

Displacement per Stroke: 30 CC ~

EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

1							+
U-		<b>1</b>				1	50 I
	P		97			<b>₹</b> \'	<u> </u>
	Щ	<b>©</b>	$\ \ $		# ( <b>\$</b>	<b>)</b>	) 1 S
						7	<b>S</b>
Π-		_					
IJ_		<b>}</b> △t				<u> </u>	
	1.06 1	.59 2.11				ow rate l	
0.53			2.64	3.17 3	3.70 4.	23 4.7	ь
101.5 psi	20	.59 2.11	2.64	3.17 3	3.70 4.	23 4.7	
101.5 psi 7 bar		40		3.17 3	3.70 4.	23 4.7	229
101.5 psi 7 bar 70 87 psi 6 bar		h	2.64			23 4.7	229
101.5 psi 7 bar 70 87 psi 6 bar 72.5 psi		h		3.17		23 4.7	229
101.5 psi 7 bar 87 psi 6 bar 72.5 psi 5 bar 88 psi		h				23 4.7	229 196
101.5 psi 7 bar 87 psi 6 bar 72.5 psi 58 psi 4 bar 43.5 psi		h				23 4.7	229 196 164
101.5 psi (17 bar 7 bar 7 bar 87 psi 6 bar 7.5 psi 55 psi 55 bar 58 psi 4 bar 13.5 psi 3.5 psi 3.5 psi 3.5 psi 29 psi 29 psi		h				23 4.7	229 196
101.5 psi   7 bar   7		h				23 4.7	229 196 164 131 98.
0 101.5 psi 7 psi 60 60 psi		h				23 4.7	196 164 131 98.
101.5 pai 10	20)	4	(6)	(100			229 196 164 131 98. 65.
101.5 psi   7 bar   7		h		(100	14 16		229 196 164 131 98. 65.

The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

Net Weight	Temperature
2,3 Kg	-20°C +95°C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0018	S = SS POLISHED	<b>HT =</b> HYTREL+PTFE	T = PTFE S = SS	<b>S</b> = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 <b>X</b> = zone 1	AB = STANDARD

### PHOENIX FOOD 30

### **TECHNICAL DATA**

### PERFORMANCE

# **PF 30**



**AISI 316 ELECTRO-POLISHED** 

Fluid connections 1" TRI-CLAMP
Air connection 6 mm

Max. Flow rate 35 lt/min

Max air pressure 7 bar

Max delivery head 70 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 3 mm

Noise level: 65 dB

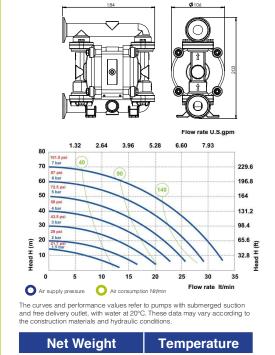
Max Viscosity: 15.000 cps

Displacement per Stroke: 65 CC ~

EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.



3,8 Kg

-20°C +95°C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0030	S = SS POLISHED	<b>HT =</b> HYTREL+PTFE	T = PTFE S = SS	<b>S =</b> SS	<b>T =</b> PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 <b>X</b> = zone 1	AB = STANDARD

### TECHNICAL DATA

### PERFORMANCE

# **PF 60**



**AISI 316 ELECTRO-POLISHED** 

Fluid connections 1" TRI-CLAMP
Air connection 1/4" BSP

Max. Flow rate 65 lt/min

Max air pressure 8 bar

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9.8 m

Max Solid passing 3,5 mm

Noise level: 72 dB

Max Viscosity: 20.000 cps

Displacement per Stroke: 140 CC ~

EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

		<b>ച</b>		
		<b>₩</b>	$\square$	<sub>4</sub>
				<b>?</b> ₹
$\sqrt{1}$		W 1/4	$^{\prime\prime}$ W	
M. TE		7 <b>7</b> 7 N	M	<i>////</i>
		<u> </u>		
N CONTRACTOR		₽n	8	₹
h-littin-				_
			Flow rate U.S.	gpm
2.64 5.2	8 7.93 10.57	13.21 15.85	18.49	
2.64 5.2			T T	
90				295.
90 116 psi 5 bar	(280)			295.
90 116 pdi 8 bar 101.5 pu	Y	370)		262.
90 116 psi (140) 80 101.5 pti 101.5 pti 87 psi	Y	370		262.
90 116 ppd (140) 80 101.5 ppd 70 70 70 0 87 ppd 60 72.5 ppd 72.5 p	Y	370		262. 229. 196.
90 116 ppd 140 180 101.5 ppd 101.5 p	Y	370		262. 229. 196.
90 114 ppd (140) 80 80 80 100.5 ppd	Y	370		262. 229. 196. 164
90 116pd (140) 80 8 bar 101.5 pd 70 70 70 87 pd 60 6 bar 72.5 pd 72.5 pd 73.5 pd 40 4 bar	Y	370		262. 229. 196.
90 114 ppi (Ad) 80 114 ppi (Ad	Y	370		262. 229. 196. 164
90 114 ppi (Ad) 80 114 ppi (Ad	Y	370		262. 229. 196. 164 131. 98.4
90   116 pair   (40)   80   116 pair   (40)   116 pair   (40) pair	Y	370	\	262. 229. 196. 164 131. 98.4 65.6

The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

Net Weight	Temperature
7,3 Kg	-20°C +95°C

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0060	S = SS POLISHED	<b>HT =</b> HYTREL+PTFE	T = PTFE S = SS	<b>S</b> = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 <b>X</b> = zone 1	AB = STANDARD

### PHOENIX FOOD 120

### **TECHNICAL DATA**

### PERFORMANCE

# **PF I20**



**AISI 316 ELECTRO-POLISHED** 

Fluid connections 1"1/2"TRI-CLAMP

Air connection 3/8" BSP

Max. Flow rate 120 lt/min

Max air pressure 8 bar

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 4 mm

Noise level: 72 dB

Max Viscosity: 25.000 cps

Displacement per Stroke: 200 CC ~

EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

# Flow rate U.S.gpm 2.64 5.28 7.93 10.57 13.21 15.85 18.49 21.13 23.78 26.42 29.06 196 197 295.2 295.2 295.2 295.2 295.3 196.3 196.3 298.4 197 298.4 298.4 298.4 298.4 298.6 198.4 298.4 298.4 298.4 298.4 298.4 298.4 298.4 298.4 298.6 298.4 298.6 298.4 298.6 298.4 298.6 298.4 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 298.6 29

-20°C +95°C

9,6 Kg

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0120	S = SS POLISHED	<b>HT =</b> HYTREL+PTFE	<b>T =</b> PTFE <b>S =</b> SS	<b>S</b> = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6= DIN	- = zone 2 <b>X</b> = zone 1	AB = STANDARD

# **PF I70**



**AISI 316 ELECTRO-POLISHED** 

Fluid connections 1"1/2 TRI-CLAMP

Air connection 1/2" BSP

Max. Flow rate 170 lt/min

Max air pressure 8 bar

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 7,5 mm

Noise level: **75 dB** 

Max Viscosity: **35.000 cps** 

Displacement per Stroke: 700 CC ~

EX II 3/3 GD h IIB T4 (STD. zone 2)

(Ex) EX II 2/2 GD h IIB T4 (zone 1)

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

			_		- h	
Læ	⇒((	21			Q	
4		<b>—</b>			-	
7	7 1	<del>-</del> 40	<b>TT</b>	\ <b>6</b> /\\\		$\theta$
			Na		$M \setminus M$	o
ľ			<i>I</i>   <i>I</i>   <i>I</i>	111	M/J	<i>[]</i>
				169	7	7
		- 74 IE	امصما	100		
- 4				■		
		<b>√</b>		7	Ø	
阜			T			
Ľ.		<u>ا</u>	T		Flow rat	te U.S.apn
10.57 13.3	1 15.85 18.49 2	21.13 23.78 2	6.42 29.06 3	1.70 34.34 36.		te U.S.gpn 7 44.91
	1 15.85 18.49 2	21.13 23.78 2	6.42 29.06 3	1.70 34.34 36.		
90 116 psi 250		21.13 23.78 2	6.42 29.06 3	1.70 34.34 36.		
90 116 psi 250 8 bar 101.5 psi	11 15.85 18.49 2	21.13 23.78 2	6.42 29.06 3	1.70 34.34 36.		
90 116 psi 250 8 bar 101.5 psi 7 bar 70 87 psi			6.42 29.06 3	1.70 34.34 36.		
90 116 psi 250) 8 bar 250) 80 101.5 pai 7 bar			6.42 29.06 3	1.70 34.34 36.		

The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

Net Weight	Temperature
17.01/	0000 .0500

17,2 Kg -20°C +95°C

90 100 110 120 130 140

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0170	S = SS POLISHED	<b>HT</b> =HYTREL+PTFE	<b>T</b> = PTFE <b>S</b> = SS	<b>S</b> = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 <b>X</b> = zone 1	AB = STANDARD

### PHOENIX FOOD 400

### **TECHNICAL DATA**

### PERFORMANCE

# **PF 400**



**AISI 316 ELECTRO-POLISHED** 

Fluid connections 2" TRI-CLAMP
Air connection 1/2" BSP

Max. Flow rate 380 lt/min

Max air pressure 8 bar
Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 8 mm

Noise level: **78 dB** 

Max Viscosity: 40.000 cps

Displacement per Stroke: 1200 CC ~

EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

# Flow rate U.S.gpm Flow rate U.S

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0400	S = SS POLISHED	HT = HYTREL+PTFE	<b>T =</b> PTFE <b>S =</b> SS	<b>S</b> = SS	<b>T =</b> PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 <b>X</b> = zone 1	EF = STANDARD

# **PF 700**



**AISI 316 ELECTRO-POLISHED** 

Fluid connections 2"1/2 TRI-CLAMP

Air connection 3/4" BSP

Max. Flow rate 700 lt/min

Max air pressure 8 bar

Max delivery head 80 m

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Max Solid passing 8,5 mm

Noise level: 78 dB

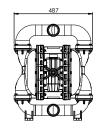
Max Viscosity: 50.000 cps

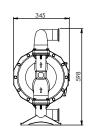
Displacement per Stroke: 3050 CC ~

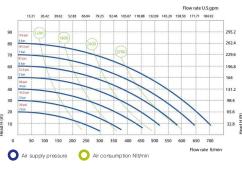
EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.







The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

Net Weight	Temperature			
51 Ka	-20°C +95°C			

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF0700	S = SS POLISHED	<b>HT =</b> HYTREL+PTFE	<b>T =</b> PTFE <b>S =</b> SS	<b>S</b> = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 <b>X</b> = zone 1	<b>EF =</b> STANDARD

### PHOENIX FOOD 1000

### **TECHNICAL DATA**

### PERFORMANCE

## **PF 1000**



**AISI 316 ELECTRO-POLISHED** 

Fluid connections 3" BSP

3/4" BSP Air connection

Max air pressure 8 bar

1050 lt/min

12 mm

Max delivery head 80 m

Max. Flow rate

Max Solid passing

Max Suction Lift Dry 5 m

Max Suction Lift Wet 9,8 m

Noise level: 82 dB

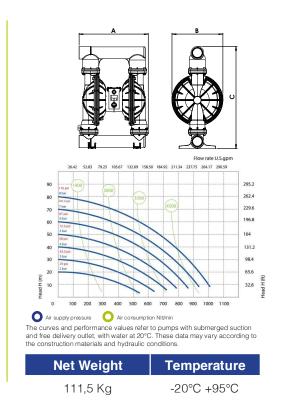
Max Viscosity: 55.000 cps

Displacement per Stroke: 9750 CC ~

EX II 3/3 GD h IIB T4 (STD. zone 2)

EX II 2/2 GD h IIB T4 (zone 1)

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.



MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
PF1000	<b>S</b> = SS POLISHED	HT = HYTREL+PTFE	<b>T =</b> PTFE <b>S =</b> SS	S = SS	T = PTFE	3 = TRI-CLAMP 1 = BSP 6 = DIN	- = zone 2 <b>X</b> = zone 1	AB = STANDARD