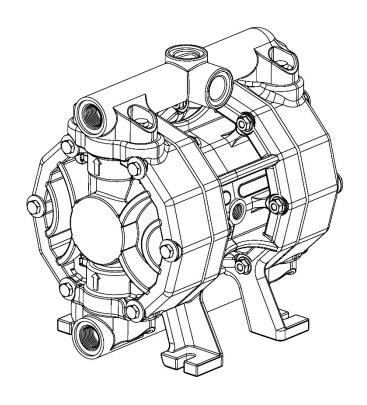
## AF\_0030 DUOTEK Series-Pneumatic Diaphragm Pumps





#### **TECHNICAL DATA**

Connections:

Fluid 1/2"
Air 6 mm
Max Flow-rates: 35 l/min
Max air pressure: 8 Bar

Max delivery head: 80 mt

Max suction head:

Dry 6 mtWet 9.8 mt

Max d. passing solids : 3.5 mmNoise level: 65 dB

• Displacement for cycle: 50 cc

• Pump casing materials:

> PP

o PVDF

o POMc

o AISI 316

Max viscosity: 15.000 cps

DUOTEK diaphragm pumps are characterized by exceptional performance, power and strength, making them ideal for pumping liquids with very high apparent viscosity up to 15.000 cps (at 20°C), even if containing suspended solids.

The stall-prevention pneumatic system assures a safe pump running and it does not need lubricated air. Self-priming dry capacity even with considerable suction head, fine tuning of speed without pressure loss and the possibility of dry operation without suffering damage mean that these pumps offer unrivalled versatility. In addition, the huge choice of construction materials allows selection of optimum chemical compatibility with the fluid and/or environment without neglecting the temperature range.

They are specifically designed for demanding applications with high humidity or in potentially explosive atmospheres (ATEX Certification):

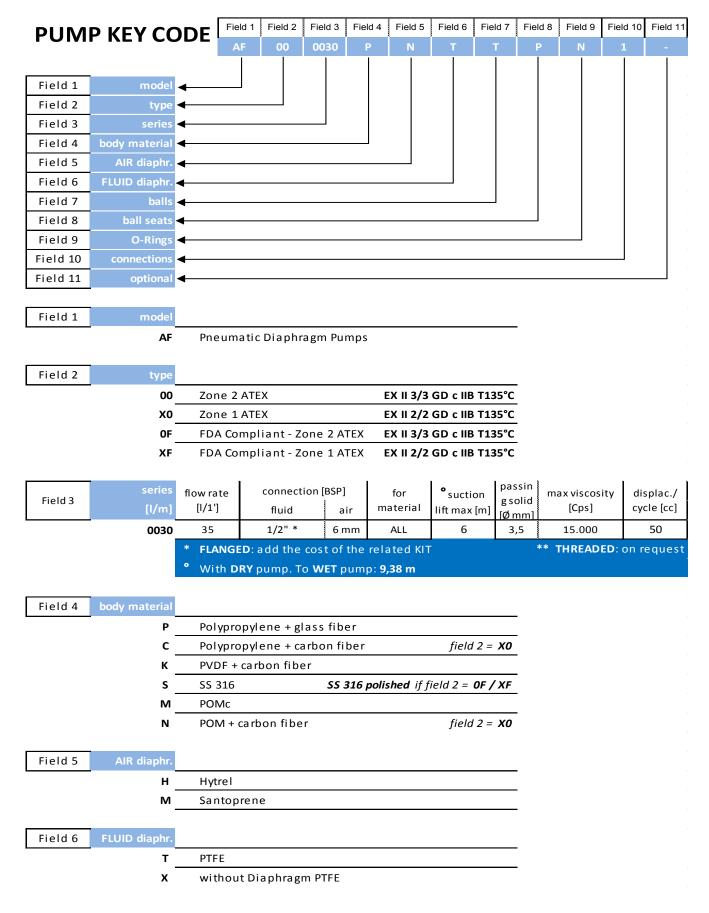
• ATEX Zone 2 in all versions: EX II 3/3 GD c IIB T135°C

• ATEX Zone 1 in all versions: EX II 2/2 GD c IIB T135°C

A special version is **FDA Compliant**, made of AISI 316 electro-polished and equipped with tri-clamp connections, specifically used in the food industry.

# AF\_0030 DUOTEK Series-Pneumatic Diaphragm Pumps





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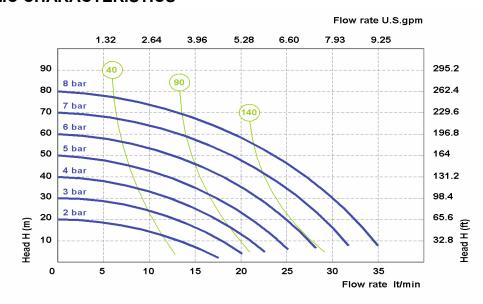
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# AF\_0030 DUOTEK Series-Pneumatic Diaphragm Pumps



<b>PUMP KEY</b>	CODE	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10	Field 11
I OWII KEI	CODL	AF	00	0030	Р	N	T	T	Р	N	1	-
Field 7	palls								_			
		FE							_			
		SS 316						•				
	-	EPDM						_				
	<b>N</b> NE	NBR										
Field 8 ball s	oots											
Field 6 Dall S		Lypropyl	ono						-			
		Polypropylene PVDF + carbon fiber										
	-	AISI 316										
		POMc										
	-	PE-UHMW										
Field 9 O-R	ings											
	<b>D</b> EP	DM							•			
	V FF	М							_			
	<b>T</b> PT	FE							<del>-</del> -			
	N NE	3R										
Field 10 connect									_			
	-	P Threat	:e d						_			
		Flanged										
		TRI-Clamp 1"										
	5 N	NPT Threated										
Field 11 option									_			
	- <u>N</u>	ONE							-			

### **HYDRAULIC CHARACTERISTICS**



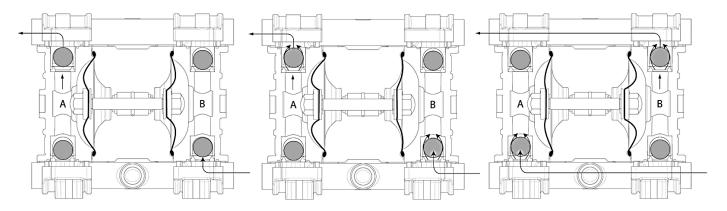
<sup>\*</sup> The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

## AF\_0030 DUOTEK Series-Pneumatic Diaphragm Pumps



#### **OPERATING PRINCIPLE**

The pneumatic distribution system sends compressed air behind one of the two diaphragms (A), which pushes the fluid towards the delivery circuit. Simultaneously, the opposing diaphragm (B) is located, creating a vacuum in the chamber B, in the suction phase, moved from the shaft that connect the diaphragm to the other (A). In this way the product is sucked from the intake manifold, thanks to depressure created in the fluid chamber. When the diaphragm (A), under pressure, reaches the limit of the stroke the distributor switches the two inputs, and the cycle starts again. At the same time, the balls open and close, alternating the chamber A and B, in the closed situation for suction and open delivery in the situation.

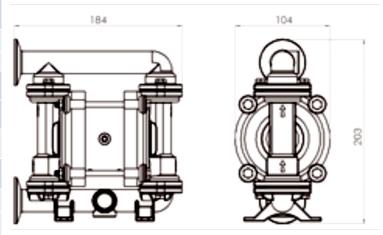


### **DIMENSIONS** ( ALL materials )

					Α	В .
	PP	PVDF	POMc	AISI		
A (mm)	177	177	177	182		
B (mm)	105	105	105	104		OF THO
C (mm)	183	183	183	190		
Weight kg	1,4	1,7	1,4	2,4	<b>∭</b> │◎│ <b>∭</b>	
MAX Temperature	65°C	95°C	95°C	95°C		

### FDA COMPLIANT (AISI 316 electro-polished ONLY)

Casing:	S	AISI 316 electro-polished		
Diaphragm:	Н	HYTREL - air side		
Diapriragiti.	T	PTFE - fluid side		
Balls :	Т	PTFE		
Dalls .	S	AISI 316		
Seats:	S	AISI 316		
OR:	T	PTFE		
Connections:	1	BSP		
Connections.	3	Tri-Clamp 1/2"		



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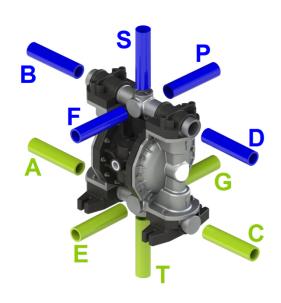
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# AF\_0030 DUOTEK Series-Pneumatic Diaphragm Pumps

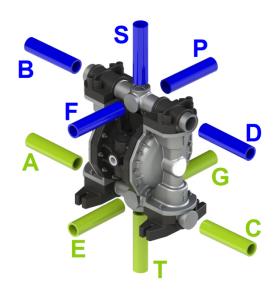


### **AVAILABLE CONNECTIONS**

Standard = A B IN = A-E-T-C-G OUT =B-S-D-F-P



(ATEX) Standard = A B IN = A-E-T-C-G OUT =B-S-D-F-P



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