

TECHNICAL DATA

٠	Connection	ns:		
	0	Fluid	3/8"	
	0	Air	6 mm	
٠	Max Flow-	rates:	20 l/m	in
٠	Max air pre	essure:	8 Bar	
٠	Max delive	ery head:		80 mt
•	Max suction	n head:		
	•	Dry	6 mt	
	•	Wet	9.8 mt	t
•	Max d. pas	ssing solids	:	3 mm
•	Noise leve	-		65 dB
•	Displacem	ent for cycle:	30 cc	
•	-	ng materials:		
	0	PP		
		PVDF		
	0	PVDF		
	0	POMc		
	0	AISI 316		

Max viscosity: 12.0

12.000 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 12.000 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 Sone 2 in all versions: EX II 3/3 GD c IIB T135°C
- ATEX Sone 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.

AODD PUMPS AF_0018 - DUOTEK Series - Pneumatic Diaphragm Pumps



	Р КЕҮ СС		ld 1 Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	B Field 9	Field 1	0 Field 11
FUIVI			F 00	0018	Р	N	т	т	Р	N	1	-
Field 1	model	◀	J									
Field 2	type	•										
Field 3	series	◀										
Field 4	body material	◀										
Field 5	AIR diaphr.	◀										
Field 6	FLUID diaphr.	◀										
Field 7	balls	◀										
Field 8	ball seats	◀										
Field 9	O-Rings	•										4
Field 10	connections	•										4
Field 11	optional	•										
Field 1	model								-			
	AF	Pneum	atic Diaph	ragm Pui	mps							
Field 2	type											
,	00	Zone 2	ATEX			EX II 3/3	GD c IIB	T135°C	-			
	хо	Zone 1	ATEX			EX II 2/2	GD c IIB	T135°C	-			
	OF	FDA Co	mpliant - 2	Zone 2 A	TEX	EX II 3/3	GD c IIB	T135°C	-			
	XF	FDA Co	mpliant - 2	Zone 1 A	TEX	EX II 2/2	GD c IIB	T135°C	-			
Field 3	series	flow rate	connec	tion [BSP]		for	• suctio		ssin r olid r	nax viscos	sity o	displac./
Tield 5	[l/m]	[l/1']	fluid	а	ir n	naterial	lift max	r 1 8°	nm]	[Cps]	С	ycle [cc]
	0018	20	3/8" *	6 n	nm	ALL	6	3	,5	12.000		30
			D: add the						**	THREAD	ED: on	request
		° With D	RY pump. ⁻	То WET р	ump: 9	9,38 m						
r												
Field 4	body material								_			
	Р.		pylene + Į						-			
	C		pylene + o		ber		field	2 = X0	-			
	K		carbon fib						-			
	S	AISI 31	5	AISI 3	316 pol	ished if f	ield 2 = 1	0F / XF	-			
	M	POMc					<u> </u>	2 1/2	-			
	N	POINI + 0	carbon fib	er			јіеїа	2 = X0				
Field 5	AIR diaphr.											
TIETU S	N N	NBR							-			
	IN IN	INDI										
Field 6	FLUID diaphr.											
L	т	PTFE							-			
Field 7	balls											
	т	PTFE							-			
	s	SS 316							-			

Your Choice, Our Commitment

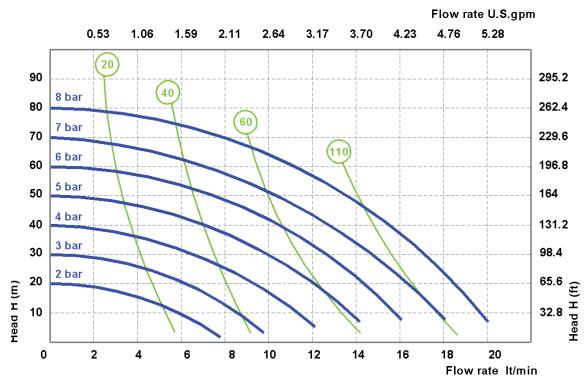
Technical data can be changed without notice. TD_Duotek_AF 0018_Series_rev.0.2

AODD PUMPS

AF_0018 - DUOTEK Series - Pneumatic Diaphragm Pumps

			Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10	Field 11
PUMF	DDF	AF	00	0018	Р	N	Т	т	Р	N	1	-	
Field 8	ball seats												
	Р	Pol	ypropyl	ene						-			
	к	PVE	OF pure							-			
	S	AIS	I 316							-			
	М	POI	Ис							-			
Field 9	O-Rings									_			
	D	EPD	M							_			
	v	FPN	Л							_			
	т	PTF	E							-			
	N	NB	R										
Field 10	connections									-			
	1		P Threat	ed						-			
	2		nged							-			
	3		-Clamp							-			
	5	NP	T Threat	ed									
F : 1144													
Field 11	optional									-			
	-	NO								-			
	E		ernal pu	-						-			
	D	Ext	ernal pu	imp cor	ntrol WI	тноит	solenoid						

HYDRAULIC CHARACTERISTICS



* 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.

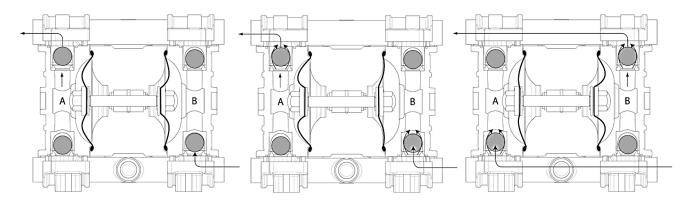
Your Choice, Our Commitment

AODD PUMPS AF_0018 - DUOTEK Series - Pneumatic Diaphragm Pumps SEKO



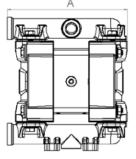
OPERATING PRINCIPLE

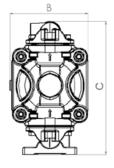
The pneumatic distribution system sends compressed air behind one of the two diaphragms (A), which pushes the fluid towards the delivery circuit. Simultaneously, the opposing diaphragm (B) is located, creating a vacuum in the chamber B, in the suction phase, moved from the shaft that connect the diaphragm 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)

A (mm) 146 146 146 148 B (mm) 96 96 96 92 C (mm) 164 164 164 153 Weight kg 1,1 1,4 1,1 2,1 MAX Temperature 65°C 95°C 95°C 95°C		PP	PVDF	POMc	AISI 316
C (mm)164164164153Weight kg1,11,41,12,1	A (mm)	146	146	146	148
Weight kg 1,1 1,4 1,1 2,1	B (mm)	96	96	96	92
	C (mm)	164	164	164	153
MAX Temperature 65°C 95°C 95°C 95°C	Weight kg	1,1	1,4	1,1	2,1
	MAX Temperature	65°C	95°C	95°C	95°C



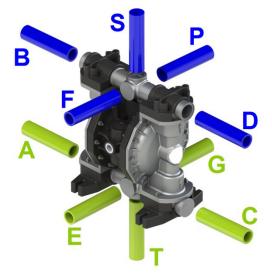


FDA COMPLIANT (AISI 316 electro-polished ONLY)

Casing:	S	AISI 316 electro-polished	148	92
Diaphragm:	N T	NBR - air side PTFE - fluid side		-A-
Pollo :	т	PTFE		
Balls :	S	AISI 316		(A)
Seats:	S	AISI 316		"H
OR:	Т	PTFE		
Connections:	1	BSP		
Connections.	3	Tri-Clamp 1/2"		

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

