

TECHNICAL DATA

•	Connection	าร:				
	0	Fluid	3/4"			
	0	Air	3/8"			
•	Max Flow-	rates:	110 l/min			
•	Max air pre	essure:	8 Bar			
٠	Max delive	ry head:		80 mt		
٠	Max suctio	n head:				
	•	Dry	6 mt			
	•	Wet	9.8 mt			
•	Max d. pas	sing solids	:	3.5 mm		
•	Noise leve	l:		72 dB		
•	Displacem	ent for cycle:	100 cc			
•	Pump casi	ng materials:				
	0	PP				
	0	PVDF				
	0	ALUMINIUM				
	0	AISI 316				
٠	Max viscos	sity:	25.000) cps		

SE

DUOTEK diaphragm pumps are characterized by exceptional performance, power and strength, making them ideal for pumping liquids with very high apparent viscosity up to 25.000 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 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.

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AODD PUMPS AF_0100 DUOTEK Series–Pneumatic Diaphragm Pumps

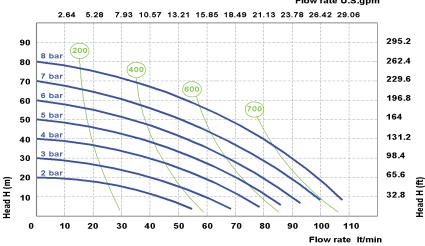


				1 1		1					
PUMI	P KEY CC			Field 3 Fi	eld 4 Field 5 P N	Field 6	Field 7	Field 8 P	Field 9 N	Field 10	Field 11
		A								1	
Field 1	model	4									
Field 2	type	↓									
Field 3	series	· •									
Field 4	body material	· •									
Field 5	AIR diaphr.										
Field 6	FLUID diaphr.										
Field 7	balls	-									
Field 8	ball seats	┥									
Field 9	O-Rings										
Field 10	connections										
Field 11	optional	◀									
	,										
Field 1	model										
	AF	Pneum	atic Diaph	ragm Pump	S						
Field 2	type	I									
	00	Zone 2	ATEX		EX II 3/3	GD c IIB	T135°C				
	xo	Zone 1	ATEX		EX II 2/2	GD c IIB	T135°C				
	OF	FDA Co	mpliant - Z	one 2 ATE	EX II 3/3	GD c IIB	T135°C				
	XF	FDA Co	mpliant - Z	one 1 ATE	EX II 2/2	GD c IIB	T135°C				
								. ,			
Field 3	series	flow rate	connect	tion [BSP]	for	• suctio	on gsol		ax viscosi	•	splac./
Tield S	[l/m]	[l/1']	fluid	air	material	lift max	[m] [Ø mr		[Cps]	су	cle [cc]
	0100	110	3/4" *	3/8"	ALL	6	3,5	1	25.000		100
					e related KI	Т		** -	THREADE	D : on r	equest
		° With D	RY pump. T	o WET pun	np: 9,38 m						
Field 4	body material										
	Р		pylene + g								
	C			arbon fibe	r	field	2 = X0				
	K		carbon fib	er			<u> </u>				
	A	Alumin	ium								
	S	SS 316		55 316	polished if j	field 2 = 0	DF / XF				
Field 5	AIR diaphr.										
Field 5											
	Н	Hytrel	***								
	м	Santop	rene								
	M	Santop EPDM	rene								
	м	Santop	rene								
Field 6	M D N	Santop EPDM	rene								
Field 6	M D N FLUID diaphr.	Santop EPDM NBR	rene								
Field 6	M D N FLUID diaphr. T	Santop EPDM NBR PTFE		m PTEF							
	M D N FLUID diaphr. T X	Santop EPDM NBR PTFE	rene t Diaphrag	m PTFE							
fo@createf	M D N FLUID diaphr. T X	Santop EPDM NBR PTFE	t Diaphrag					Ψel	· 00420 °	782 714	2 652
fo@createf	M D N FLUID diaphr. T X	Santop EPDM NBR PTFE	t Diaphrag	m PTFE	S.T.O.		Technic		: 00420 5		
fo@createf ww.createfl Dur Choic	M D N FLUID diaphr. T X flow.cz low.cz	Santop EPDM NBR PTFE	t Diaphrag		5.r.o.		Technic	al data	: 00420 2 i can be ch Duotek_AF	nanged v	vithout no

AODD PUMPS AF_0100 DUOTEK Series–Pneumatic Diaphragm Pumps



PUMF	KEY CO	DE	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10	Field
			AF	00	0030	Р	N	Т	Т	Р	N	1	-
Field 7	balls												
	т	PTF	F							_			
	s	SS 3								-			
	D	EPD								-			
	N	NBF	R							-			
Field 8	ball seats												
	P	Poly	propyl	ene						_			
	к	PVD	F + car	bon fib	er					_			
	s	AISI	316							_			
	Α	Alu	miniun	n						_			
	Z	PE-U	JHMW										
Field 9	O-Rings									-			
	D	EPD	Μ							_			
	v _	FPN								_			
	т_	PTF								-			
	N	NBF	R										
Field 10	connections												
	1	BSP	Threat	ed						_			
	2	Flar	nged							-			
	3	TRI-	Clamp							_			
	5	NPT	Threat	ted						-			
Field 11	optional									_			
		NON	NE							-			
	E _					TH solei				_			
	D	Exte	ernal p	ump coi	ntrol W	тноит	solenoid	1					



* 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.

info@createflow.cz www.createflow.cz Vour Choice

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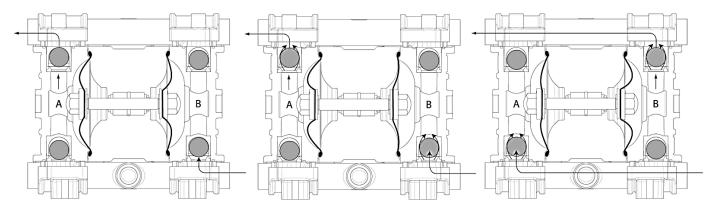
Technical data can be changed without notice. TD_Duotek_AF 0100_Series_rev.0.2





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
PP	PVDF	ALU	AISI	
A (mm) 265	5 265	265	250	
B (mm) 175	5 175	175	175	
C (mm) 245	5 245	245	250	
Weight kg 6,5	7	7	9	
MAX Temperature 65°	C 95°C	95°C	95°C	

FDA COMPLIANT (AISI 316 electro-polished ONLY)

Casing:	S	AISI 316 electro-polished	250	175
Diaphragm	Н	HYTREL - air side		
Diaphragm:	Т	PTFE - fluid side		
Balls :	т	PTFE		
	S	AISI 316		
Seats:	S	AISI 316		
OR:	Т	PTFE		
Connections:	1	BSP		
	3	Tri-Clamp 1"		

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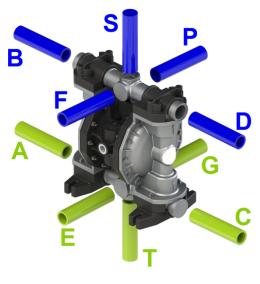
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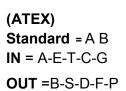
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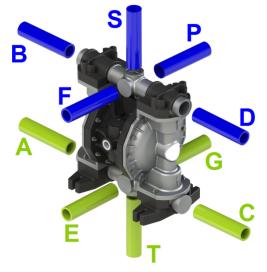


AVAILABLE CONNECTIONS

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







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