

TECHNICAL DATA

•	Connectior	าร:		
	0	Fluid	1/2"	
	0	Air	3/8"	
•	Max Flow-r	rates:	70 l/mi	in
•	Max air pre	essure:	8 Bar	
•	Max delive	ry head:		80 mt
•	Max suctio	n head:		
	•	Dry	6 mt	
	•	Wet	9.8 mt	
٠	Max d. pas	sing solids	:	3.5 mm
٠	Noise level	1:		72 dB
•	Displacem	ent for cycle:	100 cc	;
٠	Pump casi	ng materials:		
	0	PP		
	0	PVDF		
	0	ALUMINIUM		
	0	AISI 316		
•	Max viscos	sity:	25.000) 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 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 🖾 Zone 1 in all versions: EX II 2/2 GD c IIB T135°C

AODD PUMPS AF_0065 DUOTEK Series–Pneumatic Diaphragm Pumps



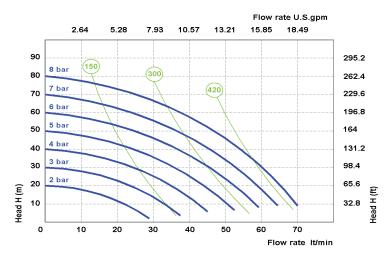
					eld 4 Field 5	Field 6	Field 7	Field 8	Field 9	Field 10	Field 11
PUM	P KEY CC		ld 1 Field 2			1			1		Field II
		A	.F 00	0065	P N	T	Т	P	N	1	-
Field 1	model										
Field 2	type		_								
Field 3	series	•									
Field 4	body material	◀									
Field 5	AIR diaphr.										
Field 6	FLUID diaphr.										
Field 7	balls	◀───									
Field 8	ball seats	◀									
Field 9	O-Rings	•									
Field 10	connections	•									
Field 11	optional	◀									
Field 1	model										
	AF	Pneum	atic Diaphı	ragm Pump	S						
Field 2	type										
	00	Zone 2				GD c IIB					
	X0	Zone 1	ATEX		EX II 2/2	GD c IIB	T135°C				
					1	1	pas	sin		I.	
Field 3	series [I/m]	flow rate	connect	tion [BSP]	for	• suctio			ax viscos	ity di	isplac./
			n	1	material				[Cns]		
		[/1']	fluid	air	material	lift max	[m] [Øn	<u>1m]</u>	[Cps]		rcle [cc]
	0065	70	1/2" *	1/4"	ALL	lift max 6		1m] 5	25.000	су	100
		70 * FLANGE	1/2" * D : add the	1/4" cost of the	ALL related KI	lift max 6	[m] [Øn	1m] 5		су	100
		70 * FLANGE	1/2" *	1/4" cost of the	ALL related KI	lift max 6	[m] [Øn	1m] 5	25.000	су	100
Field 4	0065	70 * FLANGE	1/2" * D : add the	1/4" cost of the	ALL related KI	lift max 6	[m] [Øn	1m] 5	25.000	су	100
Field 4		70 * FLANGE * With D	1/2" * ED: add the RY pump. T	cost of the	ALL related KI	lift max 6	[m] [Øn	1m] 5	25.000	су	100
Field 4	0065 body material	70 FLANGE With D Polypro	1/2" * ED: add the RY pump. T ppylene + g	1/4" cost of the o WET pum	ALL e related KI ⁻ ap: 9,38 m	lift max 6	[m] [øn 3,	1m] 5	25.000	су	100
Field 4	0065 body material P	70 FLANGE With D Polypro Polypro	1/2" * ED: add the RY pump. T	1/4" cost of the o WET pum lass fiber arbon fiber	ALL e related KI ⁻ ap: 9,38 m	lift max 6	[m] [Øn	1m] 5	25.000	су	100
Field 4	0065 body material P C	70 FLANGE With D Polypro Polypro	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fib	1/4" cost of the o WET pum lass fiber arbon fiber	ALL e related KI ⁻ ap: 9,38 m	lift max 6	[m] [øn 3,	1m] 5	25.000	су	100
Field 4	0065 body material P C K	70 FLANGE With D Polypro Polypro PVDF +	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fib	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
Field 4	0065 body material P C K A	70 FLANGE With D Polypro Polypro PVDF + Alumin	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fib	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
Field 4	0065 body material P C K A	70 FLANGE With D Polypro Polypro PVDF + Alumin	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fib	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
	0065 body material P C K A S	70 FLANGE With D Polypro Polypro PVDF + Alumin	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fib	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
	0065 body material P C K A S S	70 FLANGE With D Polypro Polypro PVDF + Alumin SS 316	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fibu ium	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
	0065 body material P C K A S S AIR diaphr. H	70 FLANGE With D Polypro PVDF + Alumin SS 316 Hytrel	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fibu ium	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
	0065 body material P C K A S S AlR diaphr. H M	70 FLANGE With D Polypro Polypro PVDF + Alumin SS 316 Hytrel Santop	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fibu ium	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
Field 5	0065 body material P C K A A S S A IR diaphr. H M D N	70 FLANGE With D Polypro PVDF + Alumin SS 316 Hytrel Santop EPDM	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fibu ium	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
	0065 body material P C K A A S S AIR diaphr. H M D N S	70 FLANGE Vith D Polypro Polypro PVDF + Alumin SS 316 Hytrel Santop EPDM NBR	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fibu ium	1/4" cost of the o WET pum lass fiber arbon fiber er	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
Field 5	0065 body material P C K A A S S A IR diaphr. H M D N	70 FLANGE With D Polypro Polypro PVDF + Alumin SS 316 Hytrel Santop EPDM NBR PTFE	1/2" * ED: add the RY pump. T opylene + g opylene + ca carbon fibo ium	1/4" cost of the fo WET pure lass fiber arbon fiber er SS 316	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100
Field 5	0065 body material P C K A A S S AIR diaphr. H M D N S	70 FLANGE With D Polypro Polypro PVDF + Alumin SS 316 Hytrel Santop EPDM NBR PTFE	1/2" * ED: add the RY pump. T opylene + g opylene + c carbon fibu ium	1/4" cost of the fo WET pure lass fiber arbon fiber er SS 316	ALL e related KI ⁻ ap: 9,38 m	lift max 6 field	[m] [Øn] [Øn] 3, 2 = X0	1m] 5	25.000	су	100



PUMP KEY COD	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10	Field 11
	AF	00	0065	Р	Ν	т	т	Р	Ν	1	-
Field 7 balls								-			
т	PTFE							-			
S	SS 316							-			
D	EPDM							-			
Ν	NBR										
Field 8 ball seats											
P	Polypropyl	ene						_			
к	PVDF pure							-			
S	AISI 316							-			
Α	Aluminiun	า						_			
Z	PE-UHMW										
Field 9 O-Rings								_			
D	EPDM							-			
V	FPM							-			
т	PTFE							-			
Ν	NBR										
Field 10 connections											
1	BSP Threat	e d						-			
2	Flanged							-			
5	NPT Threat	ted						-			
Field 11 optional											
	NONE							-			
								-			



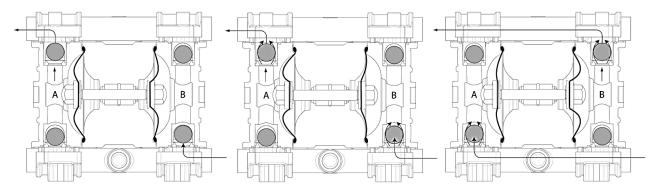
HYDRAULIC CHARACTERISTICS



* 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.

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	В
	PP	PVDF	ALU	AISI		
A (mm)	265	265	265	250		
B (mm)	175	175	175	175		20160
C (mm)	245	245	245	250		
Weight kg	6,5	7	7	9		
MAX Temperature	65°C	95°C	95°C	95°C		

Your Choice, Our Commitment



AVAILABLE CONNECTIONS

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

