

TECHNICAL DATA

•	Connectior	าร:				
	0	Fluid	1/2"			
	0	Air	1⁄4"			
٠	Max Flow-r	rates:	55 l/min			
•	Max air pre	essure:	8 Bar			
•	Max delive	ry head:		80 mt		
•	Max suctio	n head:				
	•	Dry	6 mt			
	•	Wet	9.8 mt			
•	Max d. pas	sing solids	:	3.5 mm		
•	Noise level	:		68 dB		
•	Displacem	ent for cycle:	85 cc			
•	Pump casi	ng materials:				
	0	PP				
	0	PVDF				
	0	ALUMINIUM				
	0	AISI 316				
		.,	~~ ~~			

• Max viscosity: 20.000 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 20.000 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):

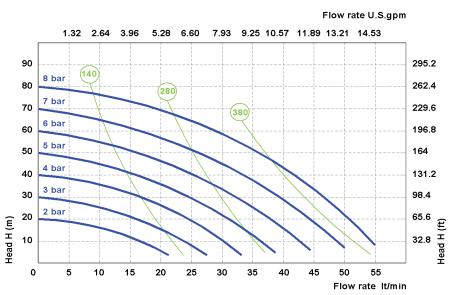
- ATEX 🖄 Zone 2 in all versions: EX II 3/3 GD c IIB T135°C
- ATEX Sone 1 in all versions: EX II 2/2 GD c IIB T135°C

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

PUM	Р КЕҮ СС		ld 1 Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10	Field 11
			.F 00	0050	Р	Ν	т	т	Р	Ν	1	-
Field 1	model	◀]									
Field 2	type	•										
Field 3	series	•										
Field 4	body material											
Field 5 Field 6	AIR diaphr.											
Field 7	FLUID diaphr. balls	•										
Field 8	ball seats											
Field 9	O-Rings											
Field 10	connections											
Field 11	optional											
		-										
Field 1	model											
	AF	Pneum	atic Diaphı	agm Pun	nps				•			
Field 2	type											
	00	Zone 2				EX II 3/3			-			
	X0	Zone 1				EX II 2/2						
	OF		mpliant - Z			EX II 3/3			-			
	XF	FDA Co	mpliant - Z	one 1 AI	EX I	EX II 2/2	GD c IIB	T135°C				
	series	flow rate	connect	ion [BSP]	I	for	• suctio	pas	sin	ax viscos	ity di	splac./
Field 3	[l/m]	[l/1']	fluid	aiı	r m	aterial	lift max	gso	olid ''' nm]	[Cps]		cle [cc]
	0050	55	1/2" *	6 m	m	ALL	6	3,	1	20.000		85
		* FLANG	D : add the	cost of t	he rela	ated KIT		,	** '	THREAD	ED: on r	equest
		• With D	RY pump. T	ο WET ρι	ump: 9	,38 m						
Field 4	body material								_			
	Р	Polypro	pylene + g	lass fibe	r				-			
	С	Polypropylene + carbon fiber field 2 = XO										
	К	PVDF +	carbon fib	er								
	Α	Alumir	ium									
	S	SS 316		SS 3	16 poli	shed if f	ield 2 = 1	0F / XF	-			
Field 5	AIR diaphr.								-			
	н	Hytrel							-			
	M	Santop	rene						-			
Field 6	FLUID diaphr.											
FIEld 0	FLUID diaphr.	PTFE							-			
	x		t Diaphrag						-			
	~	withou	rorahing									

		Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10	Field 11
PUMP KEY CO	JUE	AF	00	0050	Р	N	т	Т	Р	N	1	-
Field 7 balls									_			
т	PTFE	Ξ							_			
S	SS 3	16							_			
D	EPD	М							_			
Ν	NBR	l										
Field 8 ball seats									-			
Р		propyl							_			
К			oon fibe	er					-			
S	AISI								-			
Α		ninium	1						-			
Z	PE-L	JHMW										
Field 9 O-Rings									-			
D	EPD								-			
v	FPM								-			
T	PTFE NBR								-			
IN	INDI											
Field 10 connections												
1	BSP	Threat	ed						-			
2		nged							-			
3		Clamp							-			
5		Threat	ed						_			
Field 11 optional												
	NON	1E							-			

HYDRAULIC CHARACTERISTICS

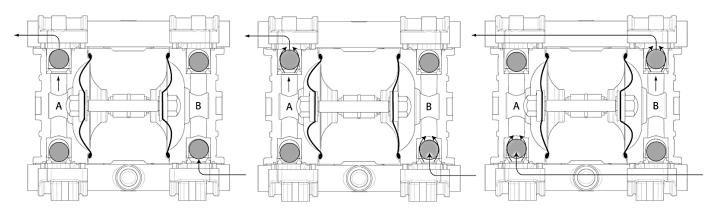


* The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

info@createflow.cz www.createflow.cz

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)

	PP	PVDF	ALU	AISI
A (mm)	222	222	225	225
B (mm)	156	156	156	156
C (mm)	233	233	230	230
Weight kg	4	4,5	5	6
MAX Temperature	65°C	95°C	95°C	95°C

FDA COMPLIANT (AISI 316 electro-polished ONLY)

Casing:	S	AISI 316 electro-polished	228	156
Diaphragm:	H T	HYTREL - air side PTFE - fluid side		
Delle i	т	PTFE		
Balls :	S	AISI 316		
Seats:	S	AISI 316		
OR:	т	PTFE		
Connections:	1	BSP		
	3	Tri-Clamp 1"		

А

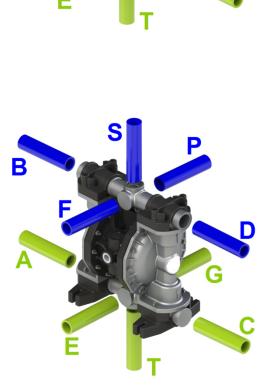
В

C

AVAILABLE CONNECTIONS

В

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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