

Duotek

Air operated double diaphragm pumps



По вопросам продаж и поддержки обращайтесь:

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Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12

Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93

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Эл. почта: sok@nt-rt.ru || Сайт: http://seko.nt-rt.ru/

SEKO's Duotek pumps are reknown for their flexibility in pumping difficult liquids at low pressure and flow.

SEKO's Duotek pumps come in many sizes and choices of materials of construction. Almost every type of liquid from highly corrosive acids through high viscosity paints and adhesives, to food and drink products can be pumped. The range of applications is virtually limitless.

Performance

- Variable flow and head pressures, easy to adjust, without sophisticated controls
- Portable and compact for multi-location use, optionally with trolley
- Handles liquids with solids particles: ideal for abrasive and viscous media
- Special Air system: lube-free, non-stall, non-freeze
- Wide Range of sizes and materials suited to variety of conditions and chemical
- Efficient performance: high flow rates through optimal casing designs
- Self-priming dry up to 6 meters: works in suction lift applications
- Efficient air distribution design: low air consumption
- Can customize to specific applications: multiple porting options available along with interface options
- Safe "dead head" function, against closed discharge, without pump damage

Reliability

- 100% wet tested after final assembly: deadheading, priming, and sealing
- All plastic air system: strong and corrosion resistant in harsh environments
- Dry-run without damaging the pump or system: seal-less design
- Service ability: easily maintained and guickly without any special tools

Security

- ATEX certifications in all versions: Conductive plastic pumps available
- Special air exhaust: Designed to operate at low noise levels
- Fully submersible: can be submerged completely according to fluid compatibility
- All Bolted Construction: provides maximum leak resistance and safety















Markets and Applications

Air operated double diaphragm pumps are some of the most versatile solutions on the market. They can be used in a variety of installations in numerous applications.

- AUTOMOTIVE
- AGRICULTURE
- MECHANICAL
- CHEMICAL
- CERAMIC
- FOOD
- BIODIESEL
- CERAMIC
- TEXTILE AND LEATHER
- PAINT AND VARNISH

- NAVAL AND PETROCHEMICAL
- PULP AND PAPER
- MINING
- PHARMACEUTICAL AND COSMETIC
- GALVANIC
- OIL & GAS
- WATER TREATMENT
- PRINTING INKS

Why choose Duotek

	0		4		Model		F
Pump type	AODD	CENTRIFUGAL	LOBE	GEAR	SCREW	PERISTALTIC	PISTON
Variable Flow & Head Control	√	√	√	√	!	!	√
Deadhead Safely	√	√	!	!	!	!	!
Dry-Running	√	х	X	X	X	X	Х
Dry Self-Priming	√	х	X	√	X	√	!
No Mechanical Alignment	√	х	X	X	X	X	X
No Electrical Installation	√	х	X	X	X	X	X
Portability	√	√	!	!	!	√	!
Submersible	√	·!	X	X	X	X	!
Seal-less	√	!	!	!	!	!	!
Cavitation Tolerance	√	X	!	!	√	!	!
Low Shear & Degradation	√	Х	√	√	!	!	!

Materials PUMP CASING

Polypropylene



P Polypropylene: Wide chemical compatibility. General purpose.

Polypropylene+CF



C Conductive Polypropylene: Wide chemical compatibility. General purpose. Groundable.

PVDF+CF



K Conductive PVDF: Strong chemical resistance to acids. High temperature resistance. Groundable..

POMc



M Acetal: Wide range of solvent and hydrocarbons resistance. Good level of abrasion resistance.

POMc+CF



N Conductive Acetal: Wide range of solvent and hydrocarbons. Good level of abrasion resistance. Groundable.

Aluminium



A Aluminium: Wide range of solvent and hydrocarbons. Good level of abrasion resistance.

SS316



S Stainless Steel 316: High level of corrosion and abrasion resistance.

SS316 Electropolished



S Stainless Steel 316 Electropolished: High level of corrosion and abrasion resistance. Food Version.

Materials



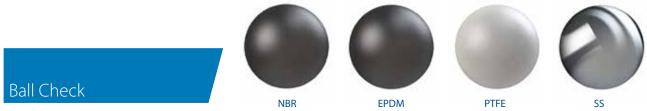
NBR Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals.

EPDM OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.

PTFE Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.

HYTREL Good low temperature properties. Good abrasion resistance.

SANTOPRENE Solutions and dilute acids.



NBR Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals.

EPDM OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.

PTFE Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.

SS High level of corrosion and abrasion resistance. Good for viscous fluids.



POLYPROPYLENE Wide chemical compatibility. General purpose.

PVDF Strong chemical resistance to acids. High temperature resistance.

ALUMINUM Wide range of solvent and hydrocarbons. Good level of abrasion resistance.

SS High level of corrosion and abrasion resistance.

PE with high molecular weight: High level of abrasion resistance



VITON High heat resistance. Good resistance to aggressive chemicals and hydrocarbons.

NBR Good for petroleum-based fluids, water, oils, hydrocarbons and MILD chemicals

EPDM OK with caustic solutions, dilute acids, ketones and alcohols. Good abrasion resistance.

PTFE Widest chemical compatibility, extreme corrosion resistance, non-adhesive, high heat resistance.

Technical features

Un-balanced pilot spool, precisely controls positioning of the main power spool to eliminate stalling and increase efficiency

Long-lasting diaphragm construction ensures a consistent performance and a longer operating life

Special exhaust chamber with double silencer to expand diffusion passages, reduce the icing and assure low noise level

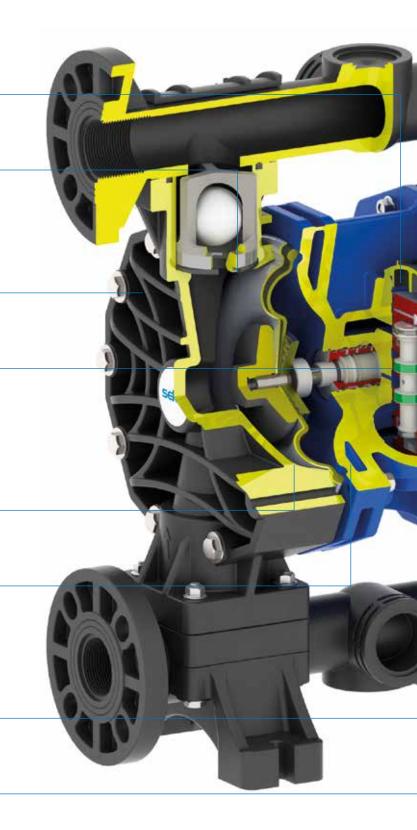
Acetalic shuttle ensures long valve life, autolubricated material

Special pinch clamping, design to minimize wear and increase life of the diaphragm, and provides a uniform seal to avoid leak

Pneumatic exchanger is easily externally accessible for a quick inspection

Solid polypropylene air chambers and plastic air valve for maximum chemical resistance in highly corrosive environments

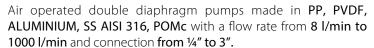
All bolted design for an effective sealing to extended leak-proof service



Product range

DUOTEK







DUOTEK FOOD



Air operated double diaphragm pumps made in SS AISI 316 electro-polished with a flow rate from 8 l/min to 1000 l/ min and Tri-Clamp Connection.



DUOTEK ATEX





Air operated double diaphragm pumps, ATEX certified for zone 1. Made in PP+CF, PVDF+CF, ALUMINIUM, SS AISI 316, POMc+CF with flow rate from 8 l/min to 1000 l/min and connection from ¼" to 3".



DUOTEK ACCURATE



Double diaphragm pumps with remote control made in PP, PVDF, ALUMINIUM, SS AISI 316, POMc with flow rate from 8 l/min to 700 l/min and connection from 1/4" to 2".



DUOTEK DRUM









Air operated double diaphragm pumps with special features to empty drums and tanks. made in PP, PVDF, ALUMINIUM, SS AISI 316, POMc with flow rate from 8 I/min to 160 I/min and connection from 1/4" to 1".



DUOTEK TWIN

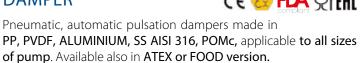






DAMPER





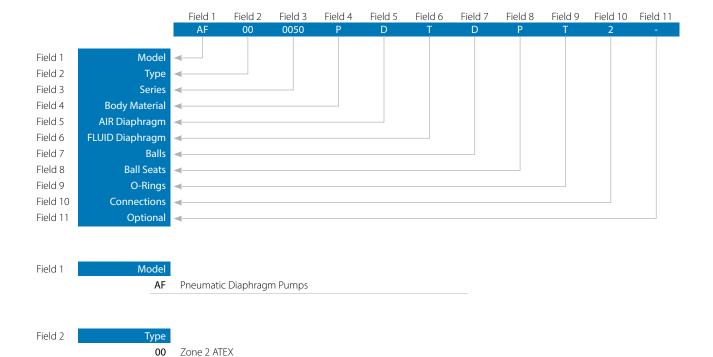




X0

Zone 1 ATEX

Duotek - Key Code



Field 3	Series	Flow rate [I/m]	Connectic Fluid	ons [BSP] Air	° Suction lift max [m]	Delivery head max [m]	Solid passing [0mm]	Displac. / cycle [cc]	Viscosity max [cps]	
	0007	8	1/4"	4mm	3		2.5	18	6,000	
	0018	20	3/8"	C	6mm 1/4"		3	30	12,000	
	0030	35		omm			3.5	65	15,000	
	0050	55	1/2" *	1/4"				140	20,000	
	0065	70		3/8" 6			5.5	200	25,000	
	0100	110	3/4" *		3/8	6	80		200	23,000
	0160	170	1″ *		6	0		7.5	700	35,000
	0250	250	1″1/4 *				7.5	700	33,000	
	0400	380	DN40 - 1"1/2					8	1,200	40,000
	0700	700	DN50 - 2"					8.5	3,050	50,000
	1000	1050	3″ **	3/4			10	7,000	55,000	
		* FLANGED: a	add the cost of th	ne related KIT			** THREA	ADED: on reque	st	

 $^{^{\}circ}\,$ With Dry pump. To WET pump: 9.38m

Max AIR pressure: 8 bar

Field 4	Body Mat	erial		
		Р	Polypropylene + Glass Fiber	
		C	Polypropylene + Carbon Fiber	Field 2: X0
		K	PVDF + Carbon Fiber	
		Α	Aluminium	
		S	SS 316	
		M	POM + Carbon Fiber	
		N	POM	Field 2: X0

Field 5	AIR Diaphragm	
	Н	Hytrel
	M	Santoprene
	D	EPDM
	N	NBR
Field 6	FLUID Diaphragm	
		PTFE
	X	without Diaphragm PTFE
Field 7	Balls	
110.07	T	PTFE
		SS 316
	D	EPDM
	N	NBR
Field 8	Ball Seats	
	P	Polypropylene
	K	PVDF pure
		AISI 316 Aluminium
	M	POMc
	Z	PE
Field 9	O-Rings	
	D	EPDM
	V	FPM
		PTFE
	N	NBR
Field 9	Connections	
	1	BSP Threaded
	2	Flanged
	4	Twin connection
	5	NPTThreaded
	6	Reinforcement ring
	7	Extra connections
E		
Field 9	Optional	Maria
	 	None
	E	External pump control WITH solenoid
	D	External pump control WITHOUT solenoid

Duotek

Air operated double diaphragm pumps

Air operated double diaphragm pumps have long been recognized as the most flexible pumps of the industry for handling difficult liquids at relatively low pressures and flows. The range of applications is virtually limitless. SEKO AODD pumps come in many sizes and choices of materials of construction. Almost every type of liquid from highly corrosive acids through high viscosity paints and adhesives, to food and drink products can be pumped.

Made in PP, PVDF, ALUMINIUM, SS AISI 316, POMc Flow rate from 8 l/min to 1000 l/min Connection from ¼" to 3" ATEX certification for zone 2 EX II 3/3 GD c IIB T135°C



Duotek AF7



Fluid connections	1/4" BSP
Air connection	4 mm
Max flow rate	8 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	3 m
Max suction lift wet	9.8 m
Max solid passing	2.5 mm
Noise leve	62 dB
Max viscosity	6000 cps



PVDF+CF

POMc



Technical data

Fluid connections	3/8" BSP
Air connection	6 mm
Max flow rate	20 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	6 m
Max suction lift wet	9.8 m
Max solid passing	3 mm
Noise level	65 dB
Max viscosity	12000 cps



Duotek AF30



Fluid connections	1/2" BSP
Air connection	6 mm
Max flow rate	35 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	5 m
Max suction lift wet	9.8 m
Max solid passing	3.5 mm
Noise level	65 dB
Max viscosity	15000 cps





Technical data

1/2" BSP
1/4" BSP
55 l/min
8 bar
80 m
6 m
9.8 m
3.5 mm
68 dB
20000 cps



Duotek AF65



Fluid connections	1/2" BSP
Air connection	3/8" BSP
Max flow rate	70 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	6 m
Max suction lift wet	9.8 m
Max solid passing	3.5 mm
Noise level	72 dB
Max viscosity	25000 cps





Technical data

Fluid connections	3/4" BSP
Air connection	3/8" BSP
Max flow rate	110 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	6 m
Max suction lift wet	9.8 m
Max solid passing	3.5 mm
Noise level	72 dB
Max viscosity	25000 cps



Duotek AF160



Fluid connections	1" BSP
Air connection	1/2" BSP
Max flow rate	170 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	6 m
Max suction lift wet	9.8 m
Max solid passing	7.5 mm
Noise level	75 dB
Max viscosity	35000 cps





Technical data

Fluid connections	1" 1/4 BSP
Air connection	1/2" BSP
Max flow rate	250 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	6 m
Max suction lift wet	9.8 m
Max solid passing	7.5 mm
Noise level	75 dB
Max viscosity	35000 cps



Duotek AF400



Fluid connections	1" 1/2 BSP DN 40
Air connection	3/4" BSP
Max flow rate	380 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	5 m
Max suction lift wet	9.8 m
Max solid passing	8 mm
Noise level	78 dB
Max viscosity	40000 cps





Technical data

Fluid connections	2" BSP DN 50
Air connection	3/4" BSP
Max flow rate	700 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	5 m
Max suction lift wet	9.8 m
Max solid passing	8.5 mm
Noise level	78 dB
Max viscosity	50000 cps



Duotek AF1000



Fluid connections	3" BSP DN 80
Air connection	3/4" BSP
Max flow rate	1050 l/min
Max air pressure	8 bar
Max delivery head	80 m
Max suction lift dry	5 m
Max suction lift wet	9.8 m
Max solid passing	10 mm
Noise level	78 dB
Max viscosity	55000 cps

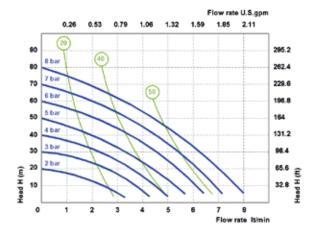


Performance curves

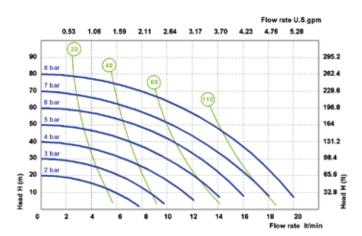
The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

Air supply pressure Air consumption NIt/min

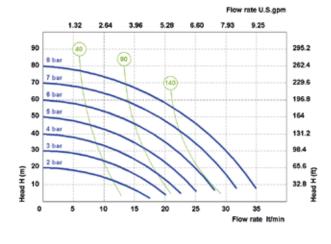
Duotek AF7



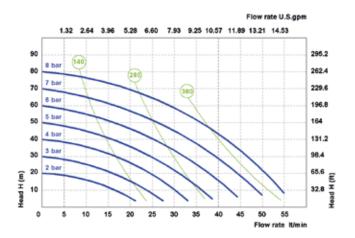
Duotek AF18



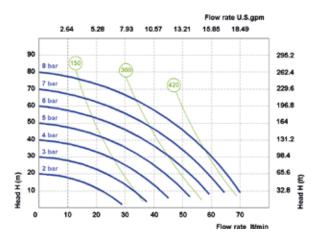
Duotek AF30



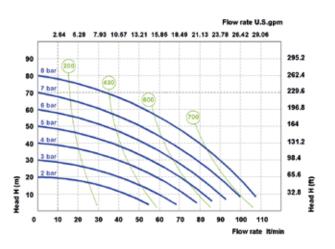
Duotek AF50

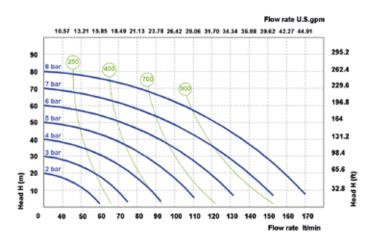


Duotek AF65

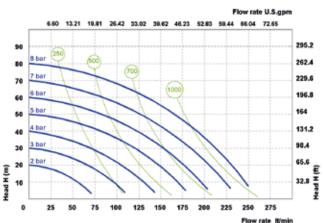


Duotek AF100

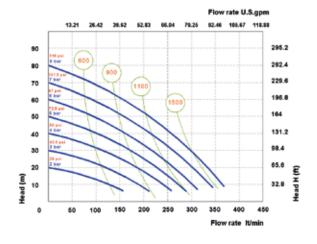




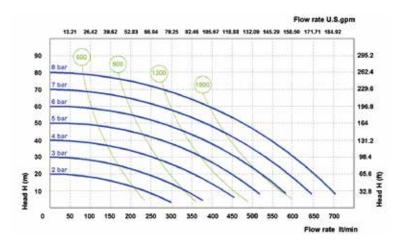
Duotek AF250



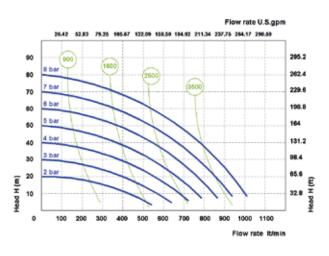
Duotek AF400



Duotek AF700



Duotek AF1000



Duotek Food

Air operated double diaphragm pumps

Made in SS316 electro-polished Flow rate from 8 l/min to 1000 l/min Tri-Clamp Connection ATEX certification

Atex zone 2 - EX II 3/3 GD c IIB T 135°C Atex zone 1 - EX II 2/2 GD c IIB T 135°C





Duotek Food AF18



Fluid connections	Tri-Clamp 1/2"
Air connection	6 mm
Max flow rate	20 l/min
Max air pressure	8 bar
Max viscosity	12000 cps



$\begin{array}{c} \text{Duotek Food} \\ AF30 \end{array}$



Technical data

Fluid connections	Tri-Clamp 1"
Air connection	6 mm
Max flow rate	35 l/min
Max air pressure	8 bar
Max viscosity	15000 cps



SS316 ELECTRO-POLISHED

Duotek Food AF50



Fluid connections	Tri-Clamp 1"
Air connection	1/4" BSP
Max flow rate	55 l/min
Max air pressure	8 bar
Max viscosity	20000 cps



SS316 ELECTRO-POLISHED

Duotek Food AF100



Technical data

Fluid connections	Tri-Clamp 1"
Air connection	3/8" BSP
Max flow rate	110 l/min
Max air pressure	8 bar
Max viscosity	25000 cps



Duotek Food AF160



Fluid connections	Tri-Clamp 1"1/2
Air connection	1/2" BSP
Max flow rate	170 l/min
Max air pressure	8 bar
Max viscosity	35000 cps



Duotek Food AF400



Technical data

Fluid connections	Tri-Clamp 2"
Air connection	3/4" BSP
Max flow rate	380 l/min
Max air pressure	8 bar
Max viscosity	40000 cps



Duotek Food AF700



Fluid connections	Tri-Clamp 2"1/2
Air connection	3/4" BSP
Max flow rate	700 l/min
Max air pressure	8 bar
Max viscosity	50000 cps



Duotek Food AF1000



Technical data

Fluid connections	3" BSP
Air connection	3/4" BSP
Max flow rate	1050 l/min
Max air pressure	8 bar
Max viscosity	55000 cps



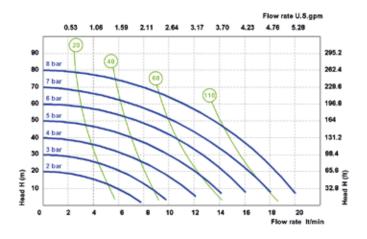
SS316 ELECTRO-POLISHED

Performance curves

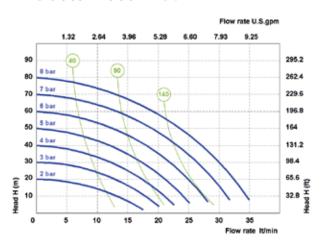
The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.



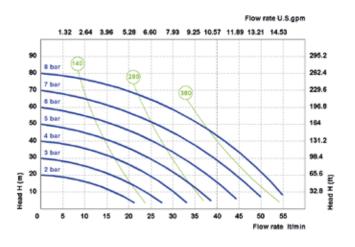
Duotek Food AF18



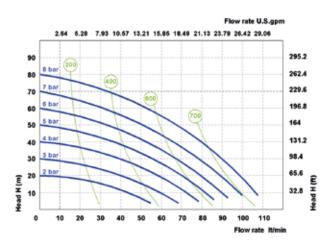
Duotek Food AF30



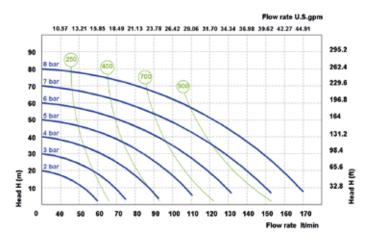
Duotek Food AF50



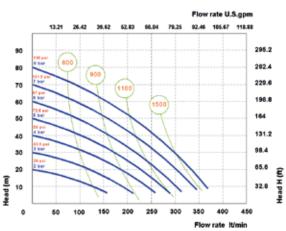
Duotek Food AF100



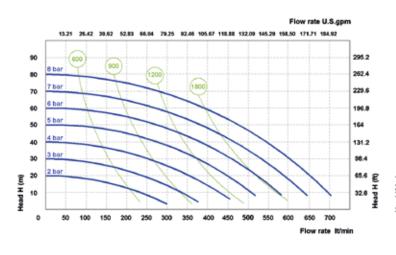
Duotek Food AF160



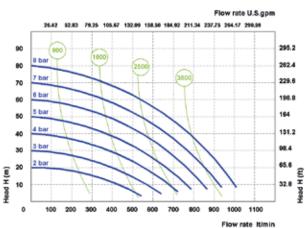
Duotek Food AF400



Duotek Food AF700



Duotek Food AF1000



Special pumps

Air operated double diaphragm pumps with special features

DUOTEK ATEX certification zone1 ATEX
ACCURATE DUOTEK remote control
DRUM DUOTEK to empty drums and tanks
TWIN DUOTEK with double inlet/outlet



Special Pumps Duotek Atex &

Technical data

Appropriate submissions have been made to Bureau Veritas to confirm that SEKO AODD pumps and pulsation dampers conform to the ATEX Directive 94/9/CE and are constructed with materials for zone 1 certification.

Main applications

- Petrol-Chemical Industry
- Painting industry
- Flexographic industry
- Automotive industry
- Food industry





European ATEX Directive 94/9/CE

- 6 II 2/2 GD c IIB T 135°C
- Safety symbols DIN 40012 Annex A
- II Equipment Group surface
- 2/2 Equipment category 2 Level of protection High level Zone 1
- GD Type of explosive atmospheres (group II) G = Gas vapours D = Dust
- c Equipment protection constructional safety (EN 13463-5).
- IIB Group of gas IIB Ethylene. Exclusion of the following products Hydrogen, acetylene, carbon disulphide.

T 135° (T4)

Temperature class (group II): Maximum surface temperature [°C] 135

Special Pumps

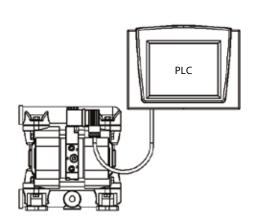
Accurate Duotek

Technical data

ACCURATE DUOTEK Pumps give you the necessary external pump control for exacting applications such as batching. Featuring a direct electrical interface that utilizes electrical impulses to stroke the pump instead of differential pressure, the ACCURATE DUOTEK provides an easily controlled variable stroke rate.

Note PLC and computer system not included.



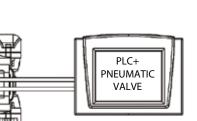


Main applications

- Chemical industry
- Flexographic industry
- Painting industry
- Wastewater technology
- Printing industry

Pumps

AF7; AF18; AF30; AF50; AF65; AF100; AF160; AF250













Special Pumps Drum Duotek

Technical data

DRUM DUOTEK are designed for emptying drums and containers, and provide an economical and wear resistant alternative to other pumping systems. In order to handle a wide range of fluids, DP pumps are available in all materials. The pump can be quickly and easily mounted on the drum with its feet. The drum will be completely emptied with a suction pipe.

Main applications

- Chemical industry
- Waste disposal technology
- Automotive industry
- Food industry

Pumps

AF18; AF30; AF50; AF65; AF100; AF160



Special Pumps Twin Duotek

Technical data

TWIN DUOTEK are mainly used in the textile and paper processing industry. These dual action pumps are able to transfer two different media independently and simultaneously. This is accomplished by using separate connections on the suction and discharge ports, keeping two pumped media isolated from each other, preventing unwanted mixing.

Main applications

- Chemical industry
- Flexographic industry
- Painting industry
- Wastewater technology
- Printing industry



Pumps

AF18; AF30; AF50; AF65; AF100; AF160; AF250; AF400

Damper

Pneumatic, automatic pulsation dampers

Made in PP, PVDF, ALUMINIUM, SS AISI 316, POMc Applicable to all size of pumps Available also in ATEX or FOOD version



The active pulsation damper is the most efficient way to remove pressure variations on the discharge of the pump. SEKO pulsation damper work actively with compressed air and a diaphragm, automatically setting the correct pressure to minimize the pulsations. Pulsation dampers require minimum maintenance and are, subject to the requirements of the application, available in the same housing and diaphragm materials as the pump.

Applications

- Metering/Injection/Dosing
- Equalizes discharge pressure spikes, increasing accuracy
- Filter Press/In-line Filters
- Increases filter efficiency and life by providing a smooth flow
- Spraying
- Smooth, consistent spray pattern
- Filling
- Eliminates inconsistent filling and splashing.
- Transfer
- Eliminates harmful water hammer, preventing pipe and valve damage

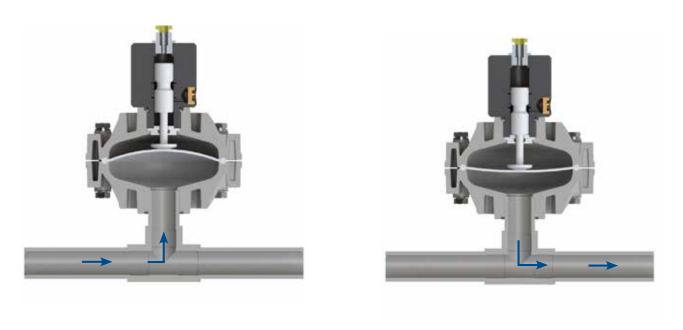


Significant Pulsation Reduction with an average 70% - 80% pulsation reduction in high back pressure applications.

How it works

The pulsating flow of the discharge forces the diaphragm upwards where it is cushioned by the air in the chamber. The flexing of the diaphragm absorbs the pulsation giving a smooth flow.





Damper DAF20

Technical data

Fluid connections	3/4"
Air connection	6 mm
Max air pressure	8 bar





Damper DAF25

Fluid connections	1"
Air connection	8 mm
Max air pressure	8 bar



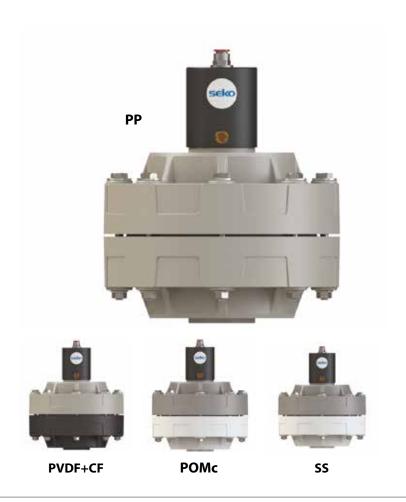


Damper DAF40

Technical data

Fluid connections	1″1/2
Air connection	10 mm
Max air pressure	8 bar





Damper DAF50

Fluid connections	2"
Air connection	12 mm
Max air pressure	8 bar





Accessories



AIR REGULATION KIT

Adjust and set air pressure and air flow rate with a filter regulator, pressure gauge and air valve unit.



SWITCH VALVES

Remotely start and stop with a solenoid or pneumatic valve for the air pump.



STROKE COUNTER

Counts the number of strokes. connected to a control. It allows various types of monitoring.



Allows pumps to be transportable



ANTI VIBRATION FEET KIT

Reduces physical vibration from AODD pump operation.



FLANGE CONNECTION KIT

Adapt a pump from BSP type connection to flanges with this



DIAPHRAGM FAILURE DETECTION FLUI-GUARD

The Electronic Leak Detector provides a signal via warning lights, an audible alarm, and the pump can be shut down.





PNEUMATIC OR ELECTRONIC BATCH CONTROL

Pneumatic and electronic batcher can control any SEKO AODD pump allowing you to set the cycles amount.

По вопросам продаж и поддержки обращайтесь:

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