

# seko

## Duotek

### Air operated double diaphragm pumps



**По вопросам продаж и поддержки обращайтесь:**

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# 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 fluids
- 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 quickly 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

|                              |  |  |  |  |  |  |  |
|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Pump type                    | AODD                                                                                | CENTRIFUGAL                                                                         | LOBE                                                                                | GEAR                                                                                 | SCREW                                                                                 | PERISTALTIC                                                                           | PISTON                                                                                |
| Variable Flow & Head Control | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                    | !                                                                                     | !                                                                                     | ✓                                                                                     |
| Deadhead Safely              | ✓                                                                                   | ✓                                                                                   | !                                                                                   | !                                                                                    | !                                                                                     | !                                                                                     | !                                                                                     |
| Dry-Running                  | ✓                                                                                   | X                                                                                   | X                                                                                   | X                                                                                    | X                                                                                     | X                                                                                     | X                                                                                     |
| Dry Self-Priming             | ✓                                                                                   | X                                                                                   | X                                                                                   | ✓                                                                                    | X                                                                                     | ✓                                                                                     | !                                                                                     |
| No Mechanical Alignment      | ✓                                                                                   | X                                                                                   | X                                                                                   | X                                                                                    | X                                                                                     | X                                                                                     | X                                                                                     |
| No Electrical Installation   | ✓                                                                                   | X                                                                                   | X                                                                                   | X                                                                                    | X                                                                                     | X                                                                                     | X                                                                                     |
| Portability                  | ✓                                                                                   | ✓                                                                                   | !                                                                                   | !                                                                                    | !                                                                                     | ✓                                                                                     | !                                                                                     |
| Submersible                  | ✓                                                                                   | !                                                                                   | X                                                                                   | X                                                                                    | X                                                                                     | X                                                                                     | !                                                                                     |
| Seal-less                    | ✓                                                                                   | !                                                                                   | !                                                                                   | !                                                                                    | !                                                                                     | !                                                                                     | !                                                                                     |
| Cavitation Tolerance         | ✓                                                                                   | X                                                                                   | !                                                                                   | !                                                                                    | ✓                                                                                     | !                                                                                     | !                                                                                     |
| Low Shear & Degradation      | ✓                                                                                   | X                                                                                   | ✓                                                                                   | ✓                                                                                    | !                                                                                     | !                                                                                     | !                                                                                     |

✓ = Suitable    ! = Limitations    X = Not Recommended

## 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

### Diaphragm



NBR



EPDM



PTFE



HYTREL



SANTOPRENE

**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.

### Ball Check



NBR



EPDM



PTFE



SS

**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.

### Seat



POLYPROPYLENE



PVDF



ALLUMINUM



SS



PE

**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

### O-rings



VITON



NBR



EPDM



PTFE

**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

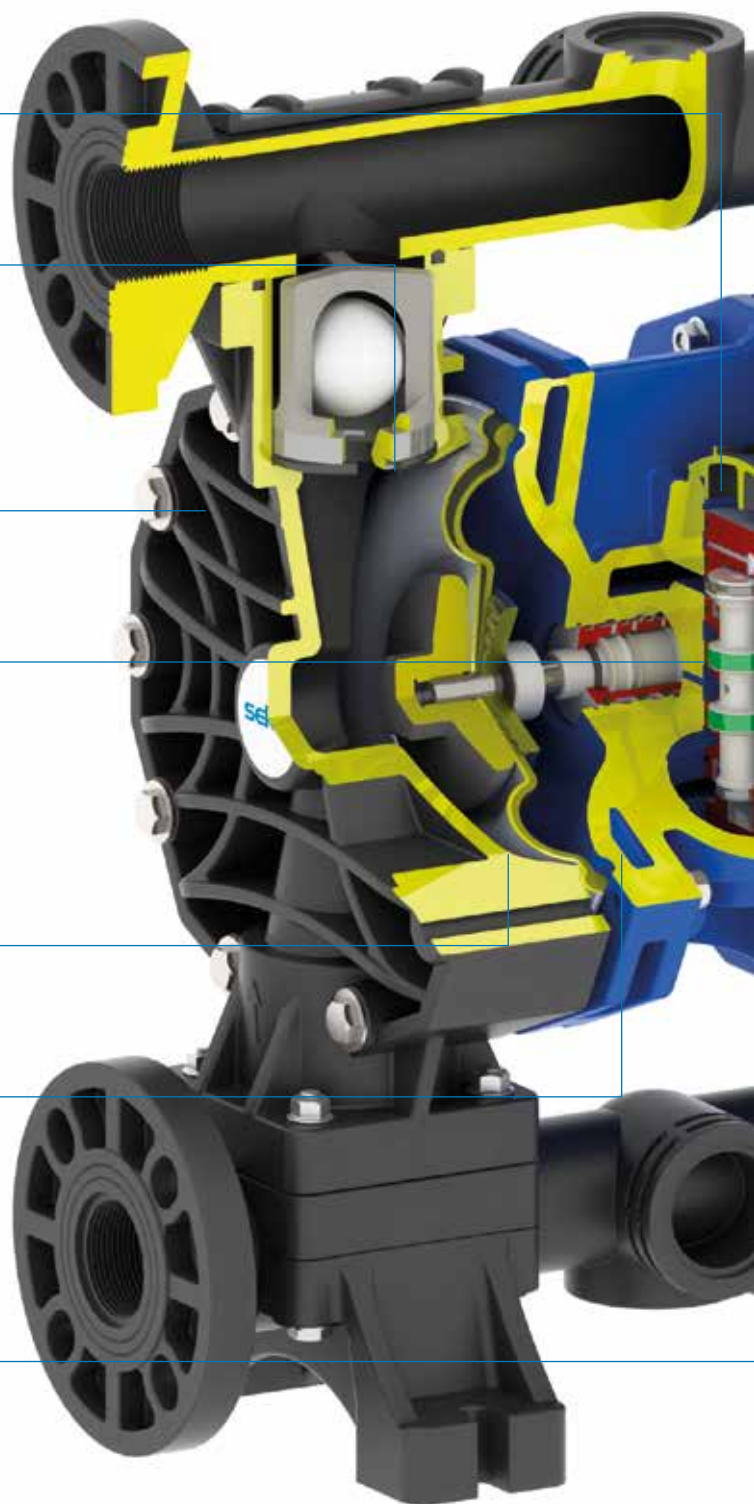
Acetalic shuttle ensures long valve life, auto-lubricated material

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



Air operated double diaphragm pumps made in PP, PVDF, ALUMINIUM, SS AISI 316, POMc with a flow rate from 8 l/min to 1000 l/min and connection from 1/4" to 3".



### 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 1/4" 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 l/min to 160 l/min and connection from 1/4" to 1".



### DUOTEK TWIN



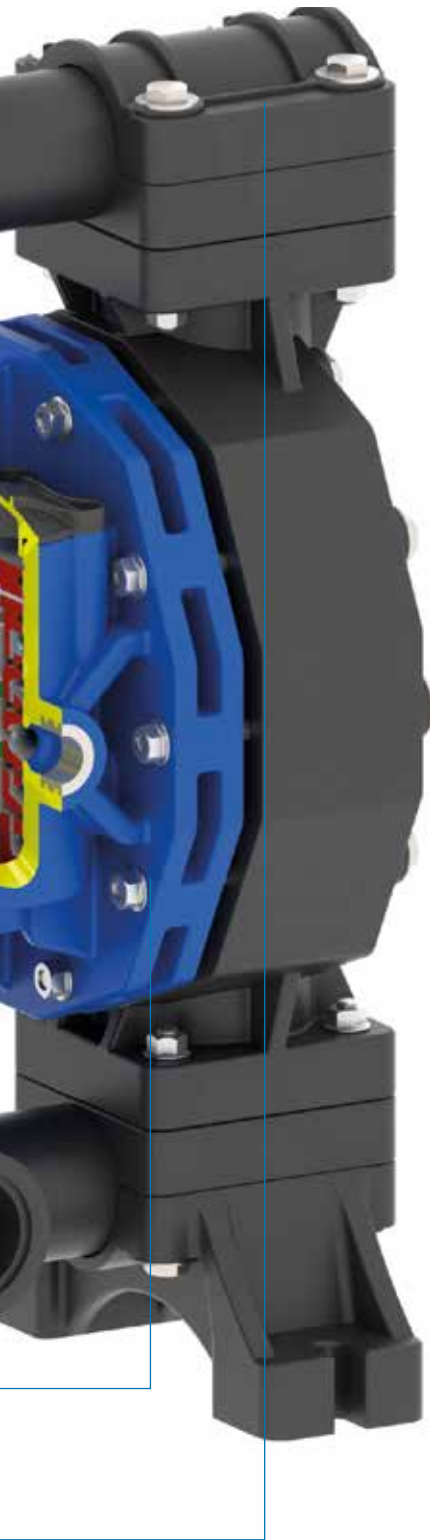
Air operated double diaphragm pumps with special features with double inlet/outlet. Made in PP, PVDF, ALUMINIUM, SS AISI 316, POMc with flow rate from 8 l/min to 700 l/min and connection from 1/4" to 2".



### DAMPER



Pneumatic, automatic pulsation dampers made in PP, PVDF, ALUMINIUM, SS AISI 316, POMc, applicable to all sizes of pump. Available also in ATEX or FOOD version.



# Duotek - Key Code

|          | Field 1         | Field 2 | Field 3 | Field 4 | Field 5 | Field 6 | Field 7 | Field 8 | Field 9 | Field 10 | Field 11 |
|----------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
|          | AF              | 00      | 0050    | P       | D       | T       | D       | P       | T       | 2        | -        |
| Field 1  | Model           |         |         |         |         |         |         |         |         |          |          |
| Field 2  | Type            |         |         |         |         |         |         |         |         |          |          |
| Field 3  | Series          |         |         |         |         |         |         |         |         |          |          |
| Field 4  | Body Material   |         |         |         |         |         |         |         |         |          |          |
| Field 5  | AIR Diaphragm   |         |         |         |         |         |         |         |         |          |          |
| Field 6  | FLUID Diaphragm |         |         |         |         |         |         |         |         |          |          |
| Field 7  | Balls           |         |         |         |         |         |         |         |         |          |          |
| Field 8  | Ball Seats      |         |         |         |         |         |         |         |         |          |          |
| Field 9  | O-Rings         |         |         |         |         |         |         |         |         |          |          |
| Field 10 | Connections     |         |         |         |         |         |         |         |         |          |          |
| Field 11 | Optional        |         |         |         |         |         |         |         |         |          |          |

|         |                              |
|---------|------------------------------|
| Field 1 | <b>Model</b>                 |
|         | AF Pneumatic Diaphragm Pumps |

|         |                |
|---------|----------------|
| Field 2 | <b>Type</b>    |
|         | 00 Zone 2 ATEX |
|         | X0 Zone 1 ATEX |

| Field 3 | Series | Flow rate [l/m] | Connections [BSP] |      | ° Suction lift max [m] | Delivery head max [m] | Solid passing [0mm] | Displac. / cycle [cc] | Viscosity max [cps] |
|---------|--------|-----------------|-------------------|------|------------------------|-----------------------|---------------------|-----------------------|---------------------|
|         |        |                 | Fluid             | Air  |                        |                       |                     |                       |                     |
|         | 0007   | 8               | 1/4"              | 4mm  | 3                      |                       | 2.5                 | 18                    | 6,000               |
|         | 0018   | 20              | 3/8"              | 6mm  |                        |                       | 3                   | 30                    | 12,000              |
|         | 0030   | 35              |                   |      |                        |                       |                     | 65                    | 15,000              |
|         | 0050   | 55              | 1/2" *            | 1/4" |                        |                       | 3.5                 | 140                   | 20,000              |
|         | 0065   | 70              |                   |      |                        |                       |                     | 200                   | 25,000              |
|         | 0100   | 110             | 3/4" *            | 3/8" |                        |                       |                     |                       |                     |
|         | 0160   | 170             | 1" *              |      | 6                      | 80                    |                     |                       |                     |
|         | 0250   | 250             | 1 1/4" *          | 1/2" |                        |                       | 7.5                 | 700                   | 35,000              |
|         | 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: add the cost of the related KIT

\*\* THREADED: on request

° With Dry pump. To WET pump: 9.38m

Max AIR pressure: 8 bar

|         |                                |
|---------|--------------------------------|
| Field 4 | <b>Body Material</b>           |
|         | P Polypropylene + Glass Fiber  |
|         | C Polypropylene + Carbon Fiber |
|         | K PVDF + Carbon Fiber          |
|         | A Aluminium                    |
|         | S SS 316                       |
|         | M POM + Carbon Fiber           |
|         | N POM                          |

Field 2: X0

Field 2: X0

|         |                      |            |
|---------|----------------------|------------|
| Field 5 | <b>AIR Diaphragm</b> |            |
|         | H                    | Hytrel     |
|         | M                    | Santoprene |
|         | D                    | EPDM       |
|         | N                    | NBR        |

|         |                        |                        |
|---------|------------------------|------------------------|
| Field 6 | <b>FLUID Diaphragm</b> |                        |
|         | T                      | PTFE                   |
|         | X                      | without Diaphragm PTFE |

|         |              |        |
|---------|--------------|--------|
| Field 7 | <b>Balls</b> |        |
|         | T            | PTFE   |
|         | S            | SS 316 |
|         | D            | EPDM   |
|         | N            | NBR    |

|         |                   |               |
|---------|-------------------|---------------|
| Field 8 | <b>Ball Seats</b> |               |
|         | P                 | Polypropylene |
|         | K                 | PVDF pure     |
|         | S                 | AISI 316      |
|         | A                 | Aluminium     |
|         | M                 | POMc          |
|         | Z                 | PE            |

|         |                |      |
|---------|----------------|------|
| Field 9 | <b>O-Rings</b> |      |
|         | D              | EPDM |
|         | V              | FPM  |
|         | T              | PTFE |
|         | N              | NBR  |

|         |                    |                    |
|---------|--------------------|--------------------|
| Field 9 | <b>Connections</b> |                    |
|         | 1                  | BSP Threaded       |
|         | 2                  | Flanged            |
|         | 4                  | Twin connection    |
|         | 5                  | NPT Threaded       |
|         | 6                  | Reinforcement ring |
|         | 7                  | Extra connections  |

|         |                 |                                        |
|---------|-----------------|----------------------------------------|
| Field 9 | <b>Optional</b> |                                        |
|         | -               | 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 1/4" to 3"

ATEX certification for zone 2

EX II 3/3 GD c IIB T135°C



## Duotek AF7

EX II 3/3 GD c IIB T 135°C

### Technical data

|                      |          |
|----------------------|----------|
| 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 level          | 62 dB    |
| Max viscosity        | 6000 cps |



PP



PVDF+CF



POMc

# Duotek AF18

 EX II 3/3 GD c IIB T 135°C

## 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 |

**PP**



**PVDF+CF**



**POMc**



**SS316**

# Duotek AF30

 EX II 3/3 GD c IIB T 135°C

## Technical data

|                      |           |
|----------------------|-----------|
| 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 |

**PP**



**PVDF+CF**



**POMc**



**SS316**

# Duotek AF50

 EX II 3/3 GD c IIB T 135°C

## Technical data

|                      |           |
|----------------------|-----------|
| Fluid connections    | 1/2" BSP  |
| Air connection       | 1/4" BSP  |
| Max flow rate        | 55 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          | 68 dB     |
| Max viscosity        | 20000 cps |



**PP**



**PVDF+CF**



**ALU**



**SS316**

# Duotek AF65

 EX II 3/3 GD c IIB T 135°C

## Technical data

|                      |           |
|----------------------|-----------|
| 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 |



**PP**



**PVDF+CF**



**ALU**



**SS316**

# Duotek AF100

 **EX II 3/3 GD c IIB T 135°C**

## 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 |



**PP**



**PVDF+CF**



**ALU**



**SS316**

# Duotek AF160

 **EX II 3/3 GD c IIB T 135°C**

## Technical data

|                      |           |
|----------------------|-----------|
| 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 |



**PP**



**PVDF+CF**



**ALU**



**SS316**

# Duotek AF250

 EX II 3/3 GD c IIB T 135°C

## 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  |



PP



PVDF+CF



ALU



SS316

# Duotek AF400

 EX II 3/3 GD c IIB T 135°C

## Technical data

|                      |                         |
|----------------------|-------------------------|
| Fluid connections    | 1" 1/2 BSP <b>DN 40</b> |
| 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               |



PP



PVDF+CF



ALU



SS316

# Duotek AF700

 EX II 3/3 GD c IIB T 135°C

## Technical data

|                      |                     |
|----------------------|---------------------|
| Fluid connections    | 2" BSP <b>DN 50</b> |
| 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           |



**PP**



**PVDF+CF**

**ALU**

**SS316**

# Duotek AF1000

 EX II 3/3 GD c IIB T 135°C

## Technical data

|                      |                     |
|----------------------|---------------------|
| Fluid connections    | 3" BSP <b>DN 80</b> |
| 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           |



**PP**



**PVDF+CF**

**ALU**

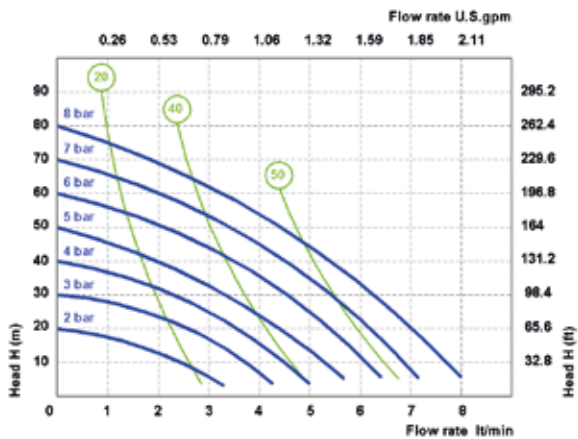
**SS316**

## Performance curves

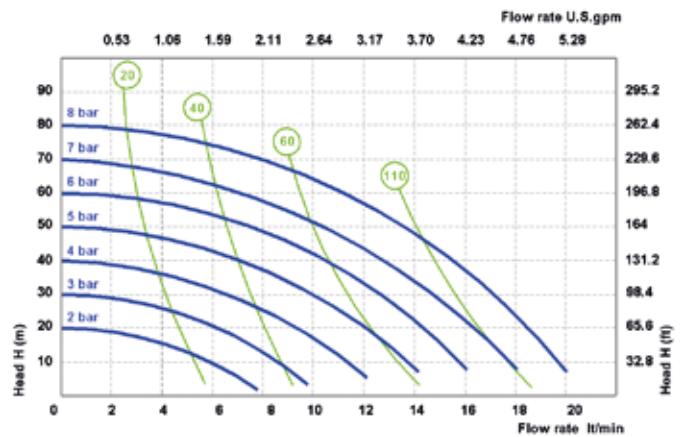
The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

○ Air supply pressure ○ Air consumption Nlt/min

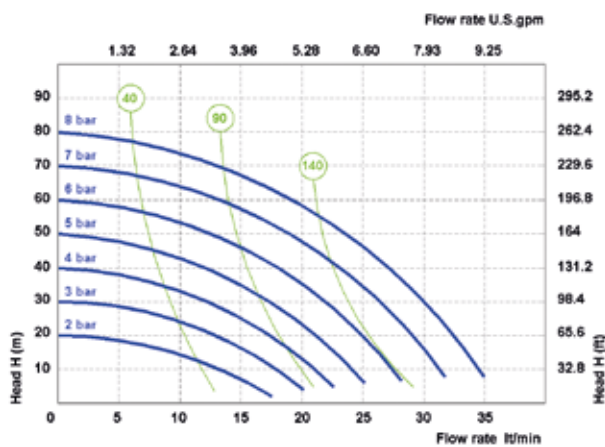
### Duotek AF7



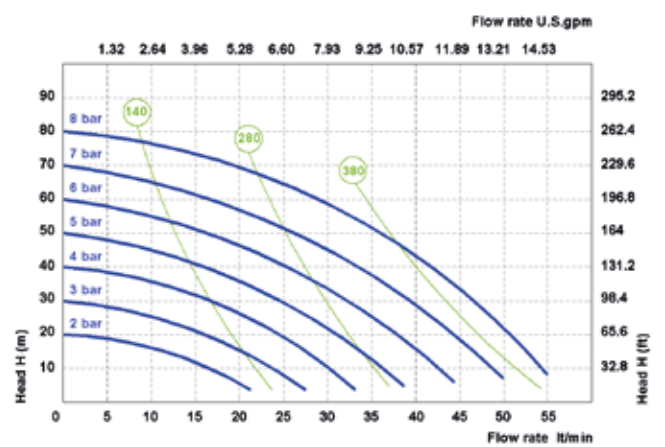
### Duotek AF18



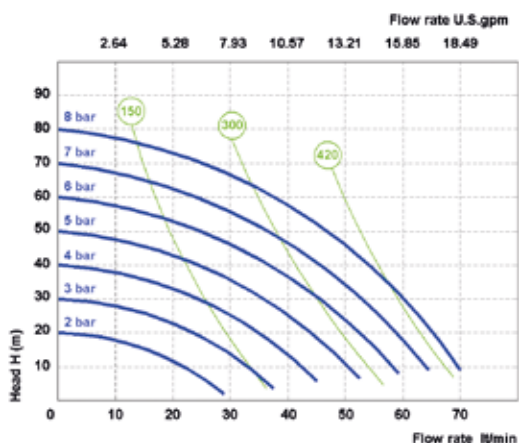
### Duotek AF30



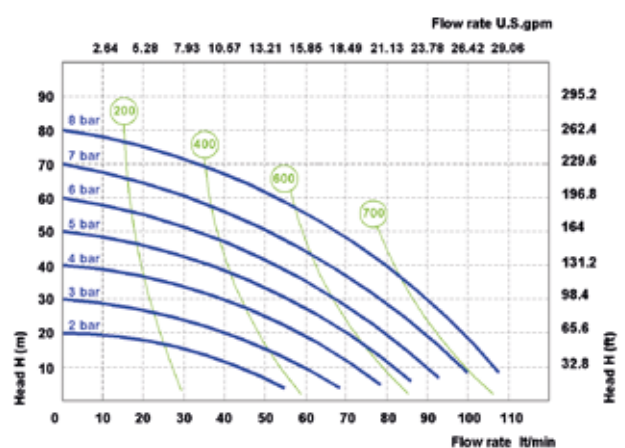
### Duotek AF50



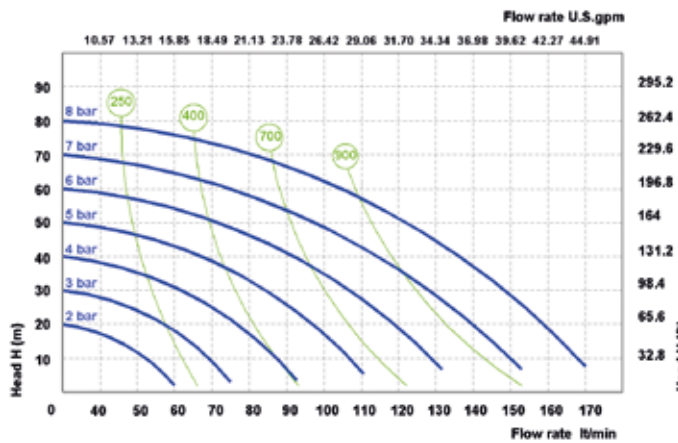
### Duotek AF65



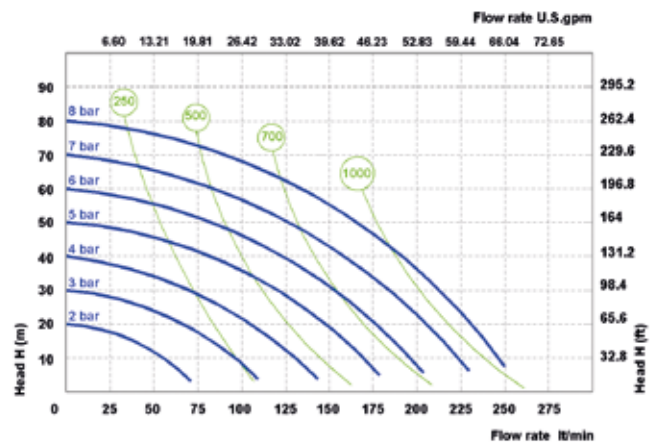
### Duotek AF100



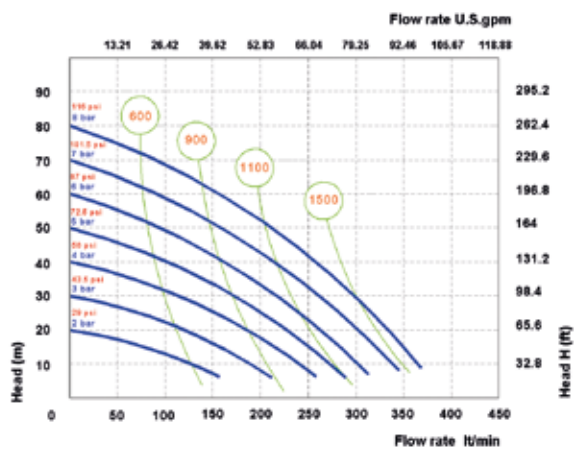
## Duotek AF160



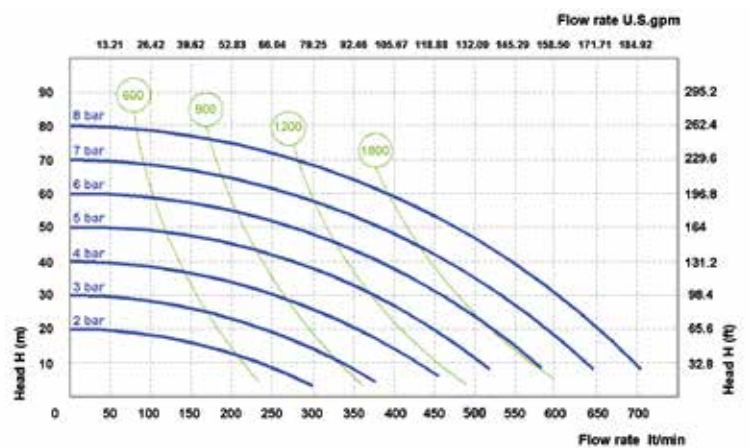
## Duotek AF250



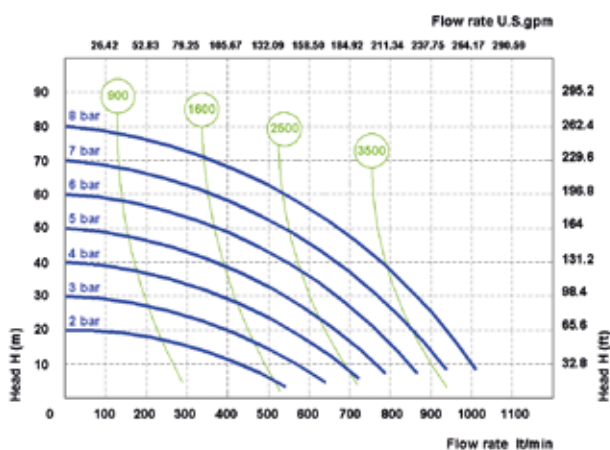
## Duotek AF400



## 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



### Technical data

|                   |                |
|-------------------|----------------|
| 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      |



**SS316 ELECTRO-POLISHED**

## Duotek Food AF30



### 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



### Technical data

|                   |              |
|-------------------|--------------|
| 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    |



**SS316 ELECTRO-POLISHED**

## Duotek Food AF160



### Technical data

|                   |                  |
|-------------------|------------------|
| 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        |



**SS316 ELECTRO-POLISHED**

## 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    |



**SS316 ELECTRO-POLISHED**

## Duotek Food AF700



### Technical data

|                   |                  |
|-------------------|------------------|
| 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        |



**SS316  
ELECTRO-  
POLISHED**

# 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**

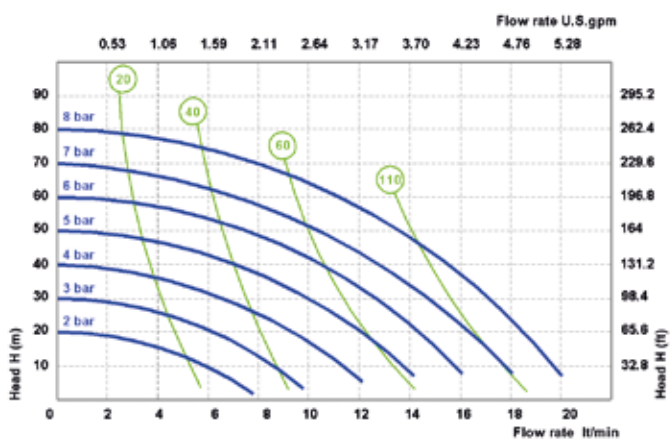


## Performance curves

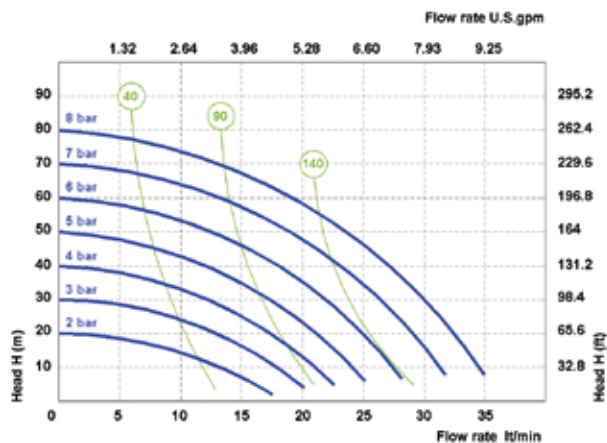
The curves and performance values refer to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.

○ Air supply pressure ○ Air consumption l/min

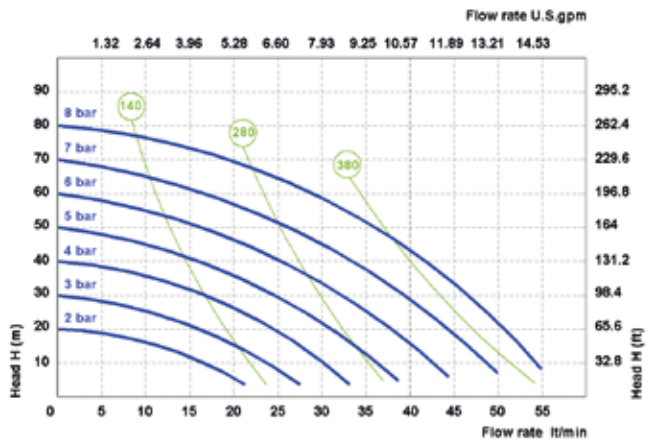
### Duotek Food AF18



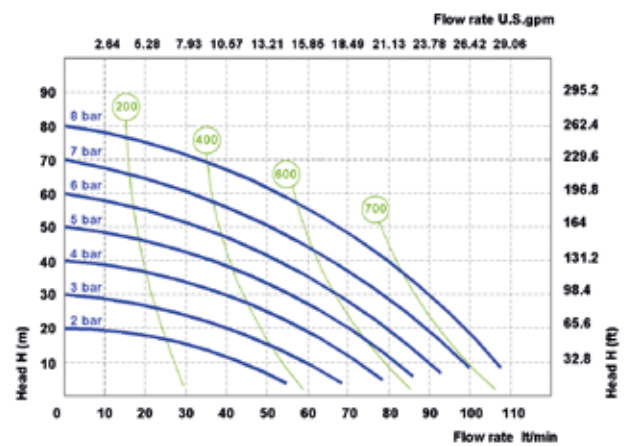
### Duotek Food AF30



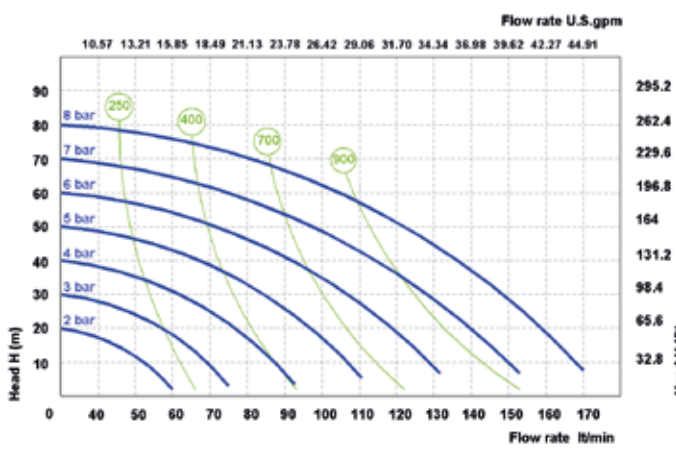
## Duotek Food AF50



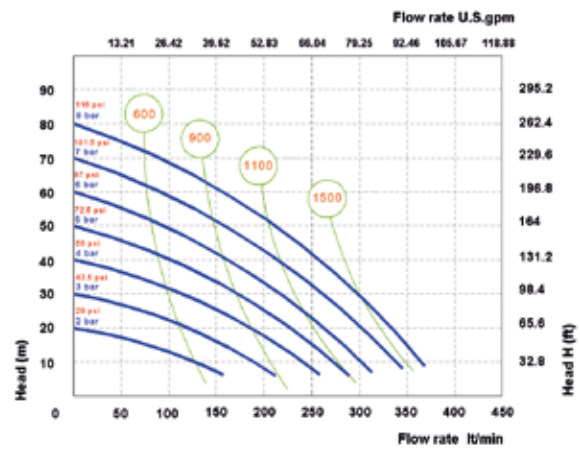
## Duotek Food AF100



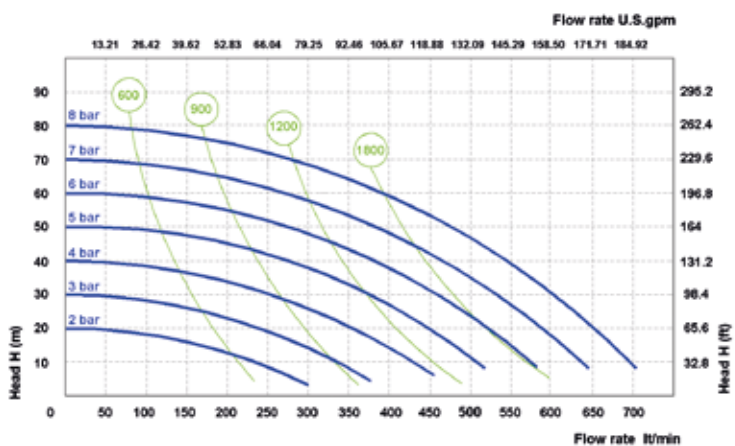
## Duotek Food AF160



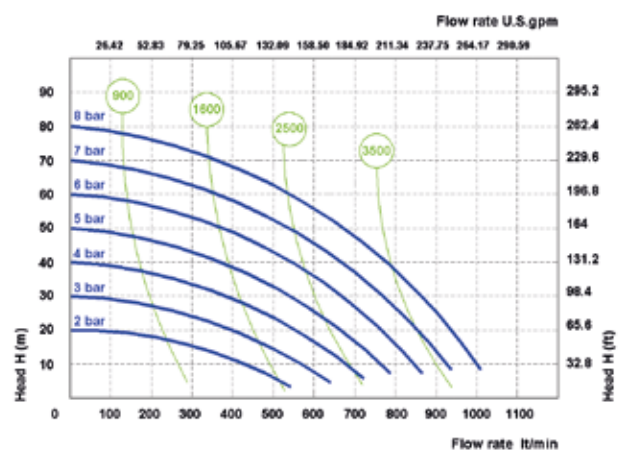
## Duotek Food AF400



## 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



PP + CF POMc + CF PVDF + CF ALU SS 

## Pumps

AF7; AF18; AF30; AF50; AF65;  
AF100; AF160; AF250; AF400;  
AF700; AF1000

## European ATEX Directive 94/9/CE

 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

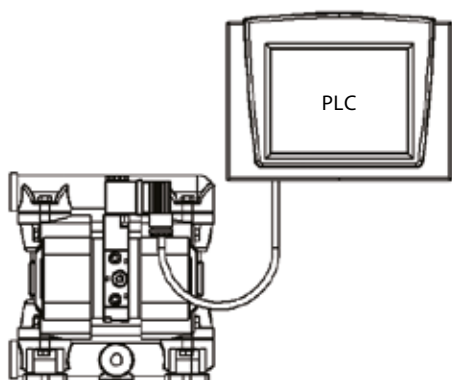
# Special Pumps

## 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.

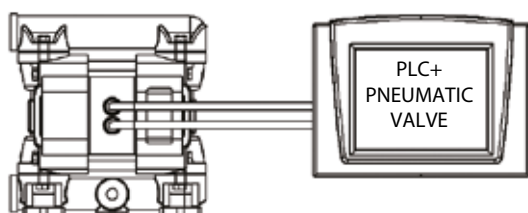


### Main applications

- 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

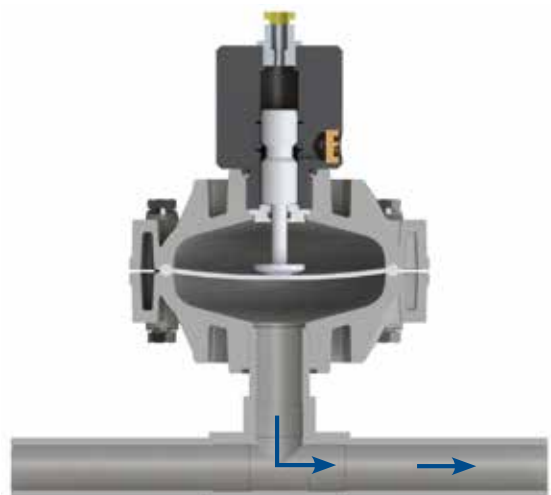
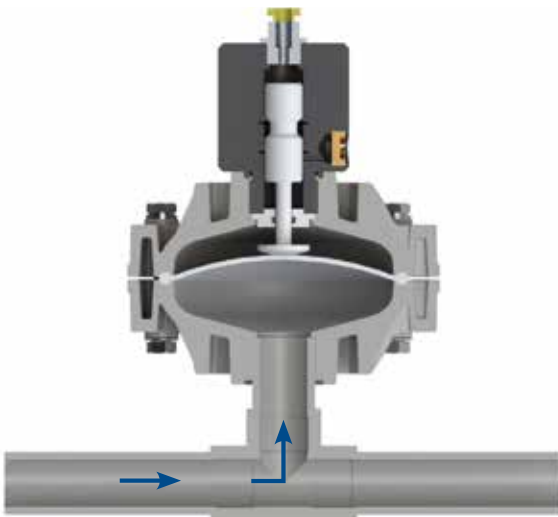
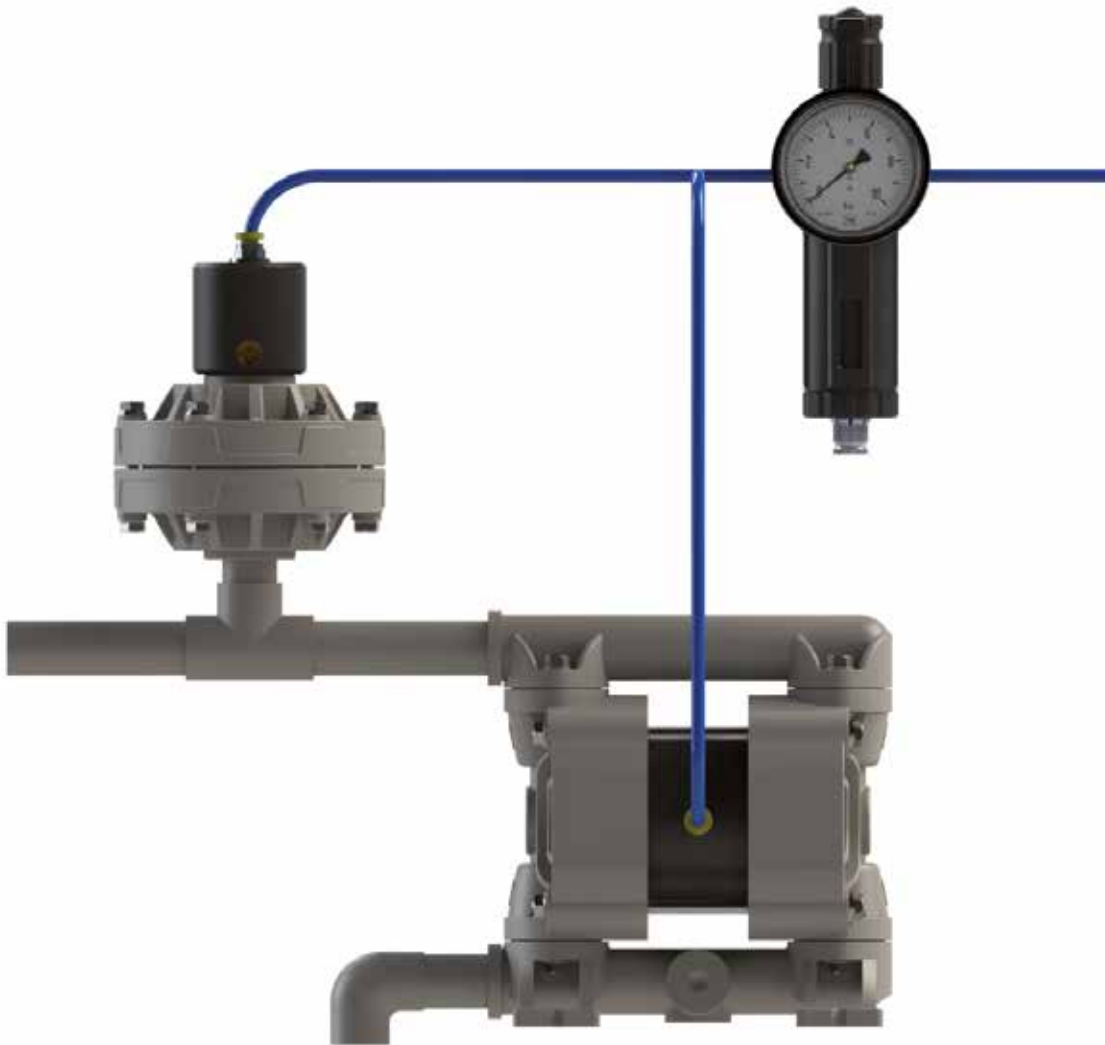
- Metering/ Injection/Dosing
- Equalizes discharge pressure spikes, increasing accuracy
- Filter Press/In-line Filters
- Increases filter efficiency and life by providing a smooth flow
- Spraying
- Smooth, consistent spray pattern
- Filling
- Eliminates inconsistent filling and splashing.
- Transfer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

APPLY TO  
7 - 18 - 30



PVDF+CF



POMc



SS

# Damper DAF25

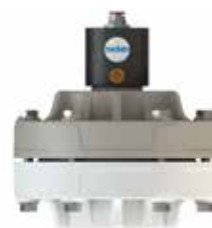
## Technical data

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

APPLY TO  
50 - 65 - 100



PVDF+CF



POMc



SS

# Damper DAF40

## Technical data

|                   |       |
|-------------------|-------|
| Fluid connections | 1"1/2 |
| Air connection    | 10 mm |
| Max air pressure  | 8 bar |

**APPLY TO  
160 - 250 - 400**



# Damper DAF50

## Technical data

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

**APPLY TO  
700 - 1000**



# 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.



## INOX TROLLEY

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 kit.



## 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:

Архангельск +7 (8182) 45-71-35  
Астрахань +7 (8512) 99-46-80  
Барнаул +7 (3852) 37-96-76  
Белгород +7 (4722) 20-58-80  
Брянск +7 (4832) 32-17-25  
Владивосток +7 (4232) 49-26-85  
Волгоград +7 (8442) 45-94-42  
Екатеринбург +7 (343) 302-14-75  
Ижевск +7 (3412) 20-90-75  
Казань +7 (843) 207-19-05  
Калуга +7 (4842) 33-35-03

Кемерово +7 (3842) 21-56-70  
Киров +7 (8332) 20-58-70  
Краснодар +7 (861) 238-86-59  
Красноярск +7 (391) 989-82-67  
Курск +7 (4712) 23-80-45  
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Ярославль +7 (4852) 67-02-35

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телефон: 8 800 511 88 70

