0252 DUOTEK Series-Pneumatic Diaphragm Pumps





TECHNICAL DATA

Connections:

Fluid 1"1/4Air 1/2"

Max Flow-rates: 250 l/minMax air pressure: 8 BarMax delivery head: 80 mt

• Max suction head:

Dry
Wet
9.8 mt
Max solid passing:
7.5 mm
Noise level:
75 dB
Displacement per stroke:
700 cc

· Pump casing materials:

o PP

PVDF+CF

o SS

Max viscosity: 35.000 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 35.000 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.

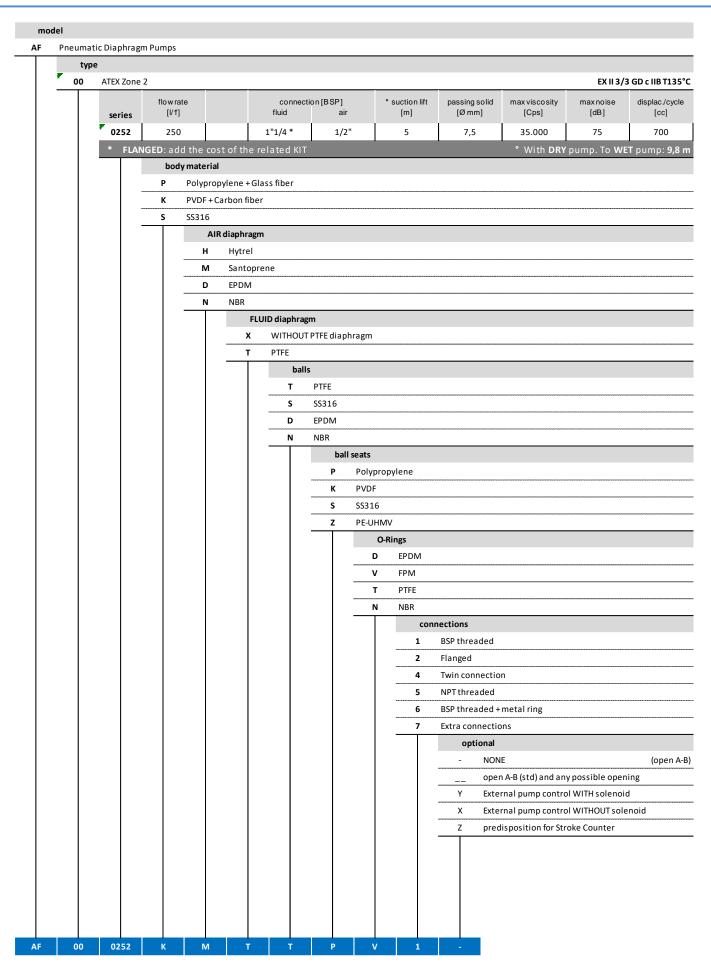
Self-priming dry capacity even with considerable suction head, fine tuning of speed without pressure loss and the possibility of dry operation without suffering damage mean that these pumps offer unrivalled versatility. In addition, the huge choice of construction materials allows selection of optimum 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

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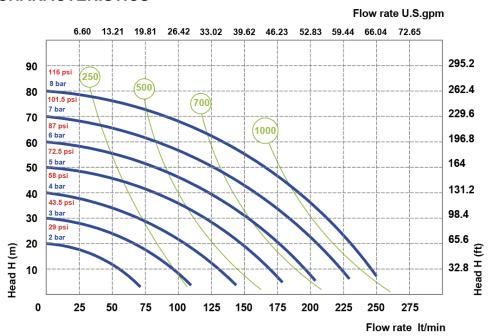




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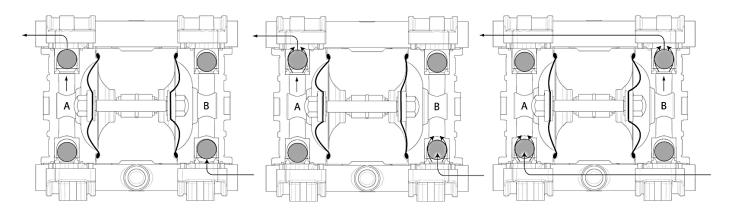
HYDRAULIC CHARACTERISTICS



^{*} 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 de-pressure 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.

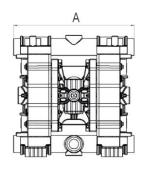


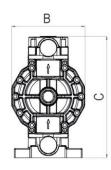
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DIMENSIONS (ALL materials)

	Α	В	С	Weight	Temperature	
PP	396 mm	222 mm	388 mm	15 kg	- 4°C	+ 65°C
PVDF	396 mm	222 mm	388 mm	16 kg	- 20°C	+ 95°C
SS	357 mm	222 mm	374 mm	20 kg	- 20°C	+ 95°C





AVAILABLE CONNECTIONS

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

