

Compressed air diaphragm pumps

Industrial applications / food

Product range







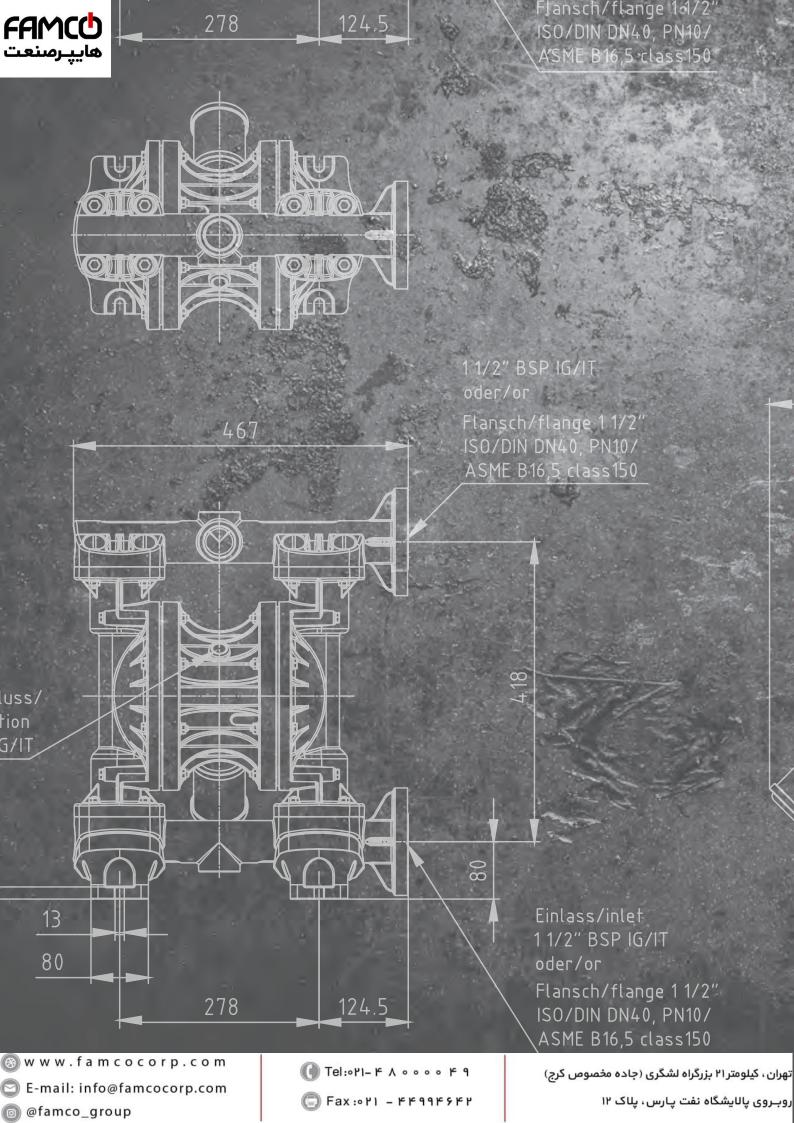
safety is our concern

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Through thick and thin: Lutz Double Diaphragm Pumps

The new series of Lutz double diaphragm pumps combines the characteristics of the previous model with new technical features. They convince with high-quality materials and the latest available technology.

The application possibilities of the double diaphragm pump in sizes 1/4" to 2" are very versatile: From the automotive industry and the waste water sector, to the decanting of chemicals such as acids, alkalis, alcohols and solvents, to the feeding of large-scale plants. But the pumps also reliably solve the tasks assigned in the food sector and when pumping thin-bodied and viscous liquids. As usual, the new generation of double diaphragm pumps is also explosion-proof according to ATEX directive and FDA-compliant.

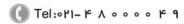
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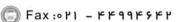
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Variety is the key

Lutz double diaphragm pumps are used in almost all branches of industry.

Since the applications are becoming more and more versatile and demanding, the user can choose from a variety of material, such as high-quality thermoplastics or different metallic variants.

The pumps made of glass fibre reinforced polypropylene (PP) and carbon fibre reinforced polyvinylidene fluoride (PVDF) impress with their high mechanical strength and maximum resistance to aggressive and concentrated acids and alkalis.

In addition to some versions made of plastic all metallic pumps are also explosion-proof according to the current ATEX directive and are suitable for pumping flammable or highly flammable liquids in ATEX zone 1.

FDA-compliant double diaphragm pumps of the PURE series are available for the food sector.

Diaphragm

The available diaphragms made of TFM (PTFE), TPV (EPDM-PP), NBR and FPM are of high quality and can be used for applications in the chemical, food and pharmaceutical industries.

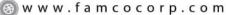
Inside design

By revising the internal geometry, the pump achieves a better and flow-optimised conveying characteristic.

Air control valve

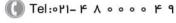
Thanks to the newly designed air control valve, the pumps achieve increased efficiency and simultaneously reduced air consumption (depending on the operating point). Maintenance is also significantly reduced by high-strength and self-lubricating polymers.

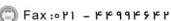




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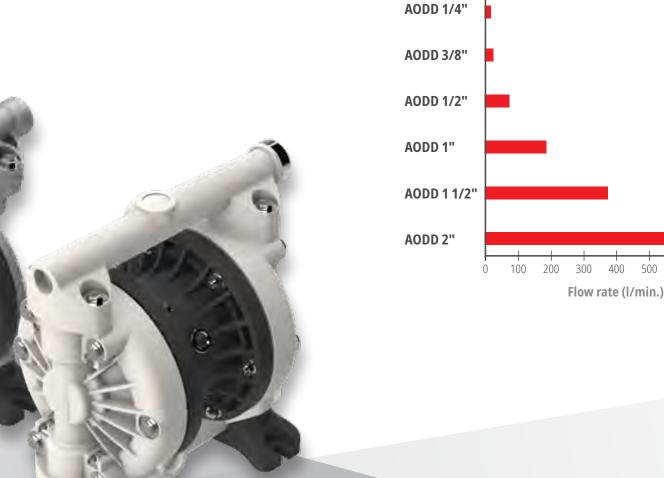
The product advantages at a glance

- High hydraulic performance and optimised air consumption
- Ice-free air system
- Maintenance-optimised design and simple installation
- Integrated muffler up to model size AODD 1"
- Highly resistant TFM (PTFE) diaphragms (modified PTFE)

- Reinforced elastomers and thermoplastic diaphragms
- Can safely run dry
- Self-priming
- PURE variants FDA-compliant
- Pumps explosion-proof according to ATEX directive (explosion protection)
- Absolutely oil-free

Size

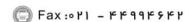
Non-stalling operation





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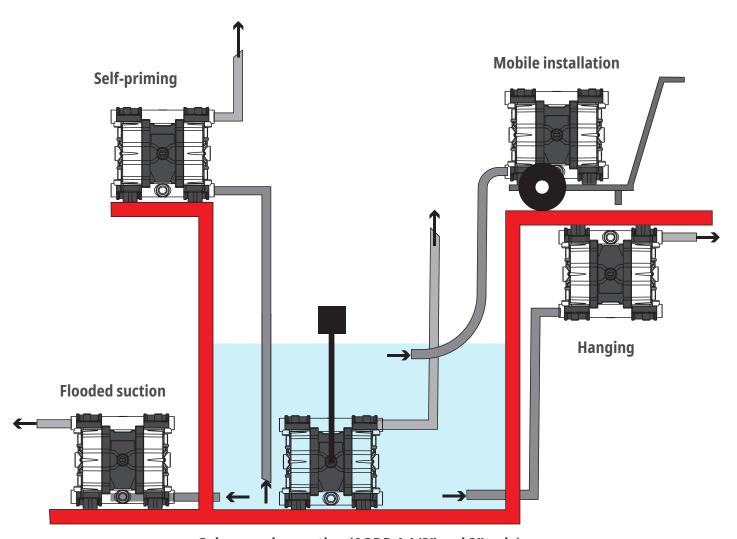


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700



Installation capabilities



Submerged operation (AODD 1 1/2" and 2" only)

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Lutz Double Diaphragm Pumps are designed for a variety of industrial applications.

Stationary or mobile installation

The pumps can be mounted either in a stationary position or, depending on requirements, transported mobile to different places of application to empty the liquids from different containers.

Flooded suction

If the liquid level is above the suction inlet, it is called positive inlet. If the maximum inlet pressure is exceeded, the suction line should have appropriate shut-off valves.

Self-priming

When the suction is below the level of the liquid, the pump has to prime the medium. Lutz double diaphragm pumps can self-prime dry up to 4.5 wc. If the suction pipe is filled, a suction head up to 9 m wc can be reached.

Hanging construction

For special process requirements, the pump can also be SP IG/II installed in a hanging position.

Submerged operation

Pumps of sizes 1 1/2" and 2" can be submerged in liquids and operated there, provided the pump material is sufficiently resistant and the air outlet is above the liquid level.

Accessories

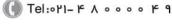
Special vibration dampeners are available to absorb vibrations. Suction lances for various containers and mobile applications are also available as accessories.

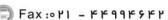
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Functions

The Lutz double diaphragm pumps operate volumetrically and belong to the category of oscillating displacement pumps. The suction and pressure cycle occur simultaneously in alternating phases. The operating principle depends on the volume change of two chambers.

As shown in the scheme below, a positive volume change takes place in one chamber, while a volume decrease occurs in the second chamber. This leads to priming resp. displacement of the pumped liquid.

In detail: The overpressure created in the chamber **(A)** closes the suction valve and opens the pressure valve so that the liquid is pumped into the pressure line. At the same moment, the same procedure occurs in the negative pressure area in the opposite order in chamber **(B)**. The pressure valve closes and the suction valve opens and enables the liquid to flow in on the suction side.

The flow rate results from the product, the number of cycles per time unit and the volume sucked in and discharged again during each cycle.

Due to the high efficiency of the pumps, they can generate delivery heads that are approximately proportional to the applied supply pressure.

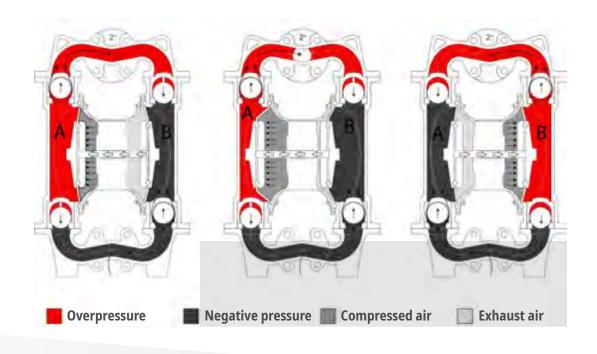
One pump cycle

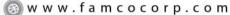
The air control valve conveys compressed air behind one of the two diaphragms **(A)**, which, due to its deformation, causes a volume change in the liquid side chamber and pumps the liquid into the pressure line.

At the same time, the opposite diaphragm **(B)** is in the priming phase, as this is connected to the other diaphragm (A) via the diaphragm rod. The excess air behind the diaphragm in the suction cycle is released to the environment via the air control valve.

When the pressurised diaphragm (A) reaches the stroke limit, the air control valve switches the two inlets to the chamber on the air side of the diaphragm so that the diaphragm (B) is pressurised and the diaphragm (A) is relieved.

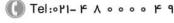
When the pump reaches its original starting point, each diaphragm carried out an air-side and a liquid-side delivery stroke. This sequence of movements forms a complete pump cycle.

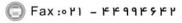




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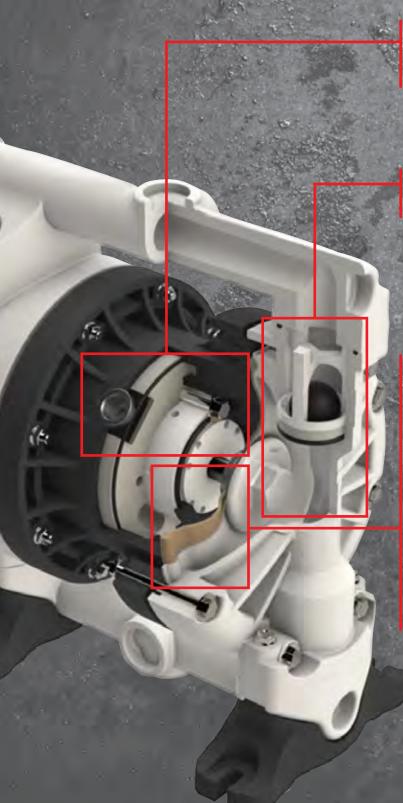
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Special features



Optimised air control valve Increases the efficiency of the pump and reduces the air consumption (depending on the operating point).

Flow-optimised hydraulic system Enables higher flow rates due to lower, internal pressure losses.

Elastomer diaphragms

Use of rubber compounds with embedded nylon fabric to increase mechanical strength. The most common elastomers are based on nitrile butadiene rubber (NBR)

TFM membrane

Modified PTFE that is refined in its molecular structure and thus offers improved characteristics regarding safety and reliability.

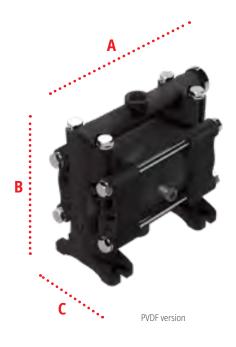
In Lutz double diaphragm pumps, the TFM diaphragm is always supported (by a back-up diaphragm) made of thermoplastic rubber, which increases resistance and service life.



Model 1/4" mini non-metallic

The double diaphragm pump is suitable for pumping small quantities, in the laboratory sector and for occasional filling processes.





Dimensions

PP / PVDF

A 128 **B** 126 **C** 74

Dimensions in mm

Detailed dimensioned drawings are available for download on our website.

Pump type	Materials	Order No.			
	Housing	Diaphragms	Check balls	Seals	
AODD 1/4" mini PPT	PP (glass fibre reinforced)	TFM-NBR (PTFE)	PTFE	PTFE	5260-070
AODD 1/4" mini KNT	PVDF (carbon fibre reinforced)	TFM-NBR (PTFE)	PTFE	PTFE	5261-070

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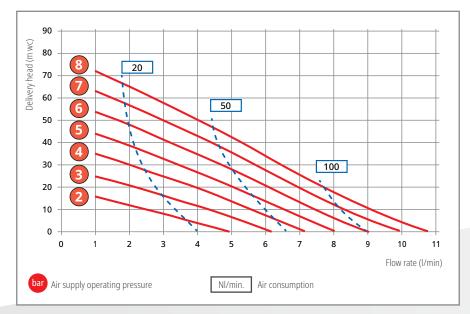
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	AODD 1/4" mini PP	AODD 1/4" mini PVDF
Housing material:	Polypropylene (glass fibre reinforced)	Polyvinylidene fluoride (carbon fibre reinforced
Centre block material:	Polypropylene (carbon fibre reinforced)	Polypropylene (carbon fibre reinforced)
Diaphragm material:	TFM-NBR (PTFE)	TFM-NBR (PTFE)
Valve ball material:	PTFE	PTFE
Seals:	PTFE	PTFE
Valve seat:	PP	PVDF
Max.flow rate:	10.8 l/min.	10.8 l/min.
Max.delivery head:	80 m wc	80 m wc
Max. air pressure:	8 bar	8 bar
Min. air pressure (start-up):	2 bar	2 bar
Max. suction head (dry):	3 m wc	3 m wc
Displacement per chamber:	10 cm ³	10 cm ³
Displacement per cycle:	20 cm ³	20 cm ³
Max. viscosity:	3,500 mPas	3,500 mPas
Sound pressure level (Lp):	63 dB(A)	63 dB(A)
Max. temperature:	60 °C	90 °C
Max. solid size:	ø 1.5 mm	ø 1.5 mm
Air inlet:	ø 4 mm	ø 4 mm
Suction:	1/4" BSP inside thread	1/4" BSP inside thread
Pressure joint:	1/4" BSP inside thread	1/4" BSP inside thread
Weight:	0.7 kg	0.9 kg



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene PTFE

= Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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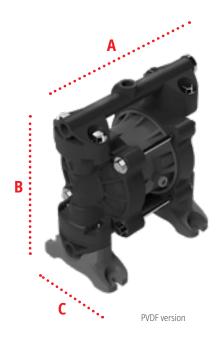
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Model 1/4" non-metallic

The double diaphragm pump is suitable for pumping small quantities, in the laboratory sector and for occasional filling processes.





Dimensions

PP / PVDF

A 183 **B** 203 **C** 107

Dimensions in mm

Detailed dimensioned drawings are available for download on our website.

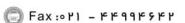
Pump type	Materials	Materials				
	Housing	Diaphragms	Check balls	Seals		
AODD 1/4" PPT	PP (glass fibre reinforced)	TPC-ET + TFM (PTFE)	PTFE	PTFE	5200-000	
AODD 1/4" PPE	PP (glass fibre reinforced)	TPV (EPDM-PP)	EPDM	EPDM	5200-020	
AODD 1/4" PPB	PP (glass fibre reinforced)	NBR	NBR	NBR	5200-040	
AODD 1/4" PPV	PP (glass fibre reinforced)	FPM	FPM	FPM	5200-050	
AODD 1/4" KNT	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5201-010	
AODD 1/4" KNV	PVDF (carbon fibre reinforced)	FPM	FPM	FPM	5201-050	
AODD 1/4" KNTC Ex*€x	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5201-110	
*II 2 G Ex h IIB T4 Gb / II 2 D Ex h IIIB	T135°C Db	ı	ı		'	

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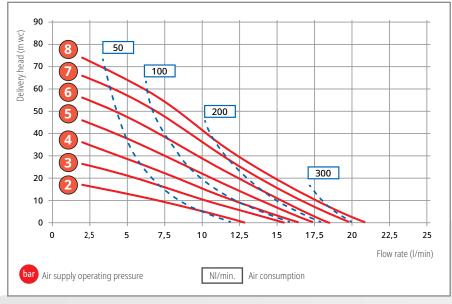
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perating data / dimensions / weights			
	AODD 1/4" PP	AODD 1/4" PVDF	
Housing material:	Polypropylene (glass fibre reinforced)	Polyvinylidene fluoride (carbon fibre reinforced	
Centre block material:	Polypropylene (carbon fibre reinforced)	Polypropylene (carbon fibre reinforced)	
Diaphragm material:	NBR, TPV (EPDM-PP), TPC-ET + TFM (PTFE), FPM	TPV (EPDM-PP) + TFM (PTFE), FPM	
alve ball material:	NBR, EPDM, PTFE, FPM	PTFE, FPM	
eals:	NBR, EPDM, PTFE, FPM	PTFE, FPM	
alve seat:	PP	PVDF	
Max.flow rate:	21 l/min.	21 l/min.	
Max.delivery head:	80 m wc (Type PPE + PPB: max. 50 m wc)	80 m wc	
Max. air pressure:	8 bar	8 bar	
/lin. air pressure (start-up):	2 bar	2 bar	
Max. suction head (dry):	4 m wc	4 m wc	
Displacement per chamber:	35 cm ³	35 cm ³	
Displacement per cycle:	70 cm ³	70 cm ³	
Max. viscosity:	3,500 mPas	3,500 mPas	
Sound pressure level (Lp):	72 dB(A)	72 dB(A)	
Max. temperature:	60 °C	90 °C	
Max. solid size:	ø 3 mm	ø 3 mm	
ir inlet:	ø 4 mm	ø 4 mm	
uction:	1/4" BSP inside thread	1/4" BSP inside thread	
ressure joint:	1/4" BSP inside thread	1/4" BSP inside thread	
Veight:	1.5 kg	1.9 kg	



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer

TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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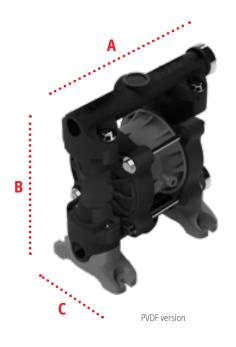
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Model 3/8" non-metallic

The double diaphragm pump is suitable for pumping small quantities, in the laboratory sector and for occasional filling processes.





Dimensions

PP / PVDF

A 193 **B** 209 **C** 107

Dimensions in mm

Detailed dimensioned drawings are available for download on our website.

Pump type	Materials				Order No.
	Housing	Diaphragms	Check balls	Seals	
AODD 3/8" PPT	PP (glass fibre reinforced)	TPC-ET + TFM (PTFE)	PTFE	PTFE	5210-000
AODD 3/8" PPE	PP (glass fibre reinforced)	TPV (EPDM-PP)	EPDM	EPDM	5210-020
AODD 3/8" PPB	PP (glass fibre reinforced)	NBR	NBR	NBR	5210-040
AODD 3/8" KNT	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5211-010
AODD 3/8" KNTC Ex*€x	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5211-110
II 2 G Ex h IIB T4 Gb / II 2 D Ex h IIIB T1	135°C Db	1	1	1	1

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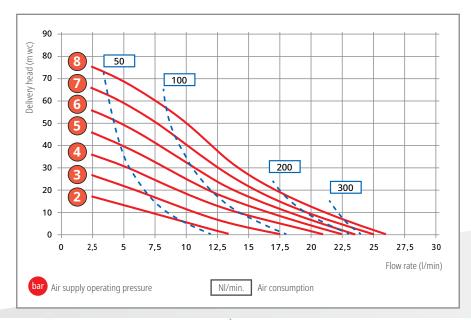
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AODD 3/8" PP		AODD 3/8" PVDF	
Housing material:	Polypropylene (glass fibre reinforced)	Polyvinylidene fluoride (carbon fibre reinforced	
Centre block material:	Polypropylene (carbon fibre reinforced)	Polypropylene (carbon fibre reinforced)	
Diaphragm material:	NBR, TPV (EPDM-PP), TPC-ET + TFM (PTFE)	TPV (EPDM-PP) + TFM (PTFE)	
Valve ball material:	NBR, EPDM, PTFE	PTFE	
Seals:	NBR, EPDM, PTFE	PTFE	
Valve seat:	PP	PVDF	
Max.flow rate:	26.0 l/min.	26.0 l/min.	
Max.delivery head:	80 m wc (Type PPE + PPB: max. 50 m wc)	80 m wc	
Max. air pressure:	8 bar	8 bar	
Min. air pressure (start-up):	2 bar	2 bar	
Max. suction head (dry):	4 m wc	4 m wc	
Displacement per chamber:	35 cm ³	35 cm ³	
Displacement per cycle:	70 cm ³	70 cm ³	
Max. viscosity:	3,500 mPas	3,500 mPas	
Sound pressure level (Lp):	72 dB(A)	72 dB(A)	
Max. temperature:	60 °C	90 °C	
Max. solid size:	ø 3.0 mm	ø 3.0 mm	
Air inlet:	ø 6 mm	ø 6 mm	
Suction:	3/8" BSP inside thread	3/8" BSP inside thread	
Pressure joint:	3/8" BSP inside thread	3/8" BSP inside thread	
Weight:	1.6 kg	2.0 kg	



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene

PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer
TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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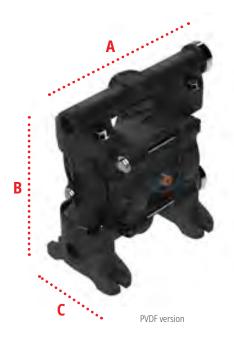
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Model 1/2" mini non-metallic

The double diaphragm pump is suitable for industrial applications as well as for emptying drums, IBCs and tanks.





Dimensions

PP / PVDF

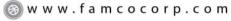
A 193 **B** 209 **C** 107

Dimensions in mm

Detailed dimensioned drawings are available for download on our website.

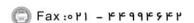
Pump type	Materials	Order No.			
	Housing	Diaphragms	Check balls	Seals	
AODD 1/2" KNTC Ex*€x	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5271-110

*II 2 G Ex h IIB T4 Gb / II 2 D Ex h IIIB T135°C Db



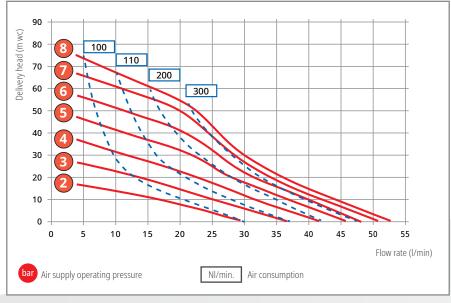
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Operating data / dimensions / weights				
	AODD 1/2" mini PVDF			
Housing material:	Polyvinylidene fluoride (carbon fibre reinforced)			
Centre block material:	Polypropylene (carbon fibre reinforced)			
Diaphragm material:	TPV (EPDM-PP) + TFM (PTFE)			
Valve ball material:	PTFE			
Seals:	PTFE			
Valve seat:	PVDF			
Max.flow rate:	52 l/min.			
Max.delivery head:	80 m wc			
Max. air pressure:	8 bar			
Min. air pressure (start-up):	2 bar			
Max. suction head (dry):	4 m wc			
Displacement per chamber:	35 cm ³			
Displacement per cycle:	70 cm ³			
Max. viscosity:	3,500 mPas			
Sound pressure level (Lp):	72 dB(A)			
Max. temperature:	90 °C			
Max. solid size:	ø 3.0 mm			
Air inlet:	ø 6 mm			
Suction:	1/2" BSP inside thread			
Pressure joint:	1/2" BSP inside thread			
Weight:	2.0 kg			



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer
TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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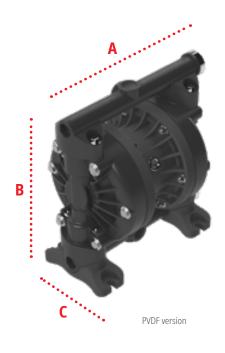
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Model 1/2" non-metallic

The double diaphragm pump is suitable for industrial applications as well as for emptying drums, IBCs and tanks.





Dimensions

PP / PVDF

A 243 **B** 261 **C** 160

Dimensions in mm

Detailed dimensioned drawings are available for download on our website.

When using a needle valve, the thread extension part no. 5000-712 is required.

Pump type	Materials				
	Housing	Diaphragms	Check balls	Seals	
AODD 1/2" PPT	PP (glass fibre reinforced)	TPC-ET + TFM (PTFE)	PTFE	PTFE	5220-000
AODD 1/2" PPE	PP (glass fibre reinforced)	TPV (EPDM-PP)	EPDM	EPDM	5220-020
AODD 1/2" PPB	PP (glass fibre reinforced)	NBR	NBR	NBR	5220-040
AODD 1/2" PPV	PP (glass fibre reinforced)	FPM	FPM	FPM	5220-050
AODD 1/2" PPT Ex*€x	PP (carbon fibre reinforced)	TPC-ET + TFM (PTFE)	PTFE	PTFE	5220-100
AODD 1/2" KNT	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5221-010
AODD 1/2" KNV	PVDF (carbon fibre reinforced)	FPM	FPM	FPM	5221-050
AODD 1/2" KNTC Ex*€x	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5221-110



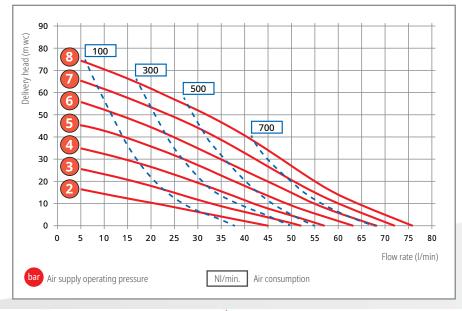
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	AODD 1/2" PP	AODD 1/2" PVDF	
		7000 1/2 1 101	
Housing material:	Polypropylene (glass fibre reinforced/ carbon fibre reinforced)	Polyvinylidene fluoride (carbon fibre reinforced	
Centre block material:	Polypropylene (carbon fibre reinforced)	Polypropylene (carbon fibre reinforced)	
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP), FPM	TPV (EPDM-PP) + TFM (PTFE), FPM	
Valve ball material:	NBR, PTFE, EPDM, FPM	PTFE, FPM, PTFE	
Seals:	NBR, PTFE, EPDM, FPM	PTFE, FPM, PTFE	
Valve seat:	PP	PVDF	
Max.flow rate:	76 l/min.	76 l/min.	
Max.delivery head:	80 m wc (Type PPE + PPB: max. 50 m wc)	80 m wc	
Max. air pressure:	8 bar	8 bar	
Min. air pressure (start-up):	2 bar	2 bar	
Max. suction head (dry):	4 m wc	4 m wc	
Displacement per chamber:	75 cm ³	75 cm ³	
Displacement per cycle:	150 cm ³	150 cm ³	
Max. viscosity:	7,500 mPas	7,500 mPas	
Sound pressure level (Lp):	75 dB(A)	75 dB(A)	
Max. temperature:	60 °C	90 °C	
Max. solid size:	ø 3.2 mm	ø 3.2 mm	
Air inlet:	1/4" BSP inside thread	1/4" BSP inside thread	
Suction:	1/2" BSP inside thread	1/2" BSP inside thread	
Pressure joint:	1/2" BSP inside thread	1/2" BSP inside thread	
Weight:	3.5 kg	4.0 kg	



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer
TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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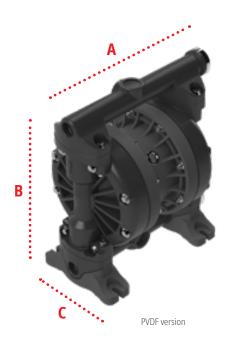
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Model 1" non-metallic

The double diaphragm pump is suitable for industrial applications as well as for emptying drums, IBCs and tanks.





Dimensions

PP / PVDF

A 310 **B** 345 **C** 203

Dimensions in mm

Detailed dimensioned drawings are available for download on our website.

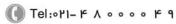
When using a needle valve, the thread extension part no. 5000-712 is required.

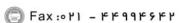
Pump type	Materials	Materials					
	Housing	Diaphragms	Check balls	Seals			
AODD 1" PPT	PP (glass fibre reinforced)	TPC-ET + TFM (PTFE)	PTFE	PTFE	5230-000		
AODD 1" PPE	PP (glass fibre reinforced)	TPV (EPDM-PP)	EPDM	EPDM	5230-020		
AODD 1" PPB	PP (glass fibre reinforced)	NBR	NBR	NBR	5230-040		
AODD 1" PPV	PP (glass fibre reinforced)	FPM	FPM	FPM	5230-050		
AODD 1" KNT	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5231-010		
AODD 1" KNV	PVDF (carbon fibre reinforced)	FPM	FPM	FPM	5231-050		



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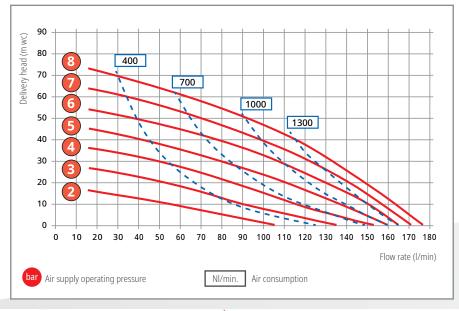
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	AODD 1" PP	AODD 1" PVDF
Housing material:	Polypropylene (glass fibre reinforced)	Polyvinylidene fluoride (carbon fibre reinforced
Centre block material:	Polypropylene (carbon fibre reinforced)	Polypropylene (carbon fibre reinforced)
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP), FPM	TPV (EPDM-PP) + TFM (PTFE), FPM
/alve ball material:	NBR, PTFE, EPDM, FPM	PTFE, FPM
Seals:	NBR, PTFE, EPDM, FPM	PTFE, FPM
/alve seat:	PP	PVDF
Max.flow rate:	175 l/min.	175 l/min.
Max.delivery head:	80 m wc (Type PPE + PPB: max. 50 m wc)	80 m wc
Max. air pressure:	8 bar	8 bar
Min. air pressure (start-up):	2 bar	2 bar
Max. suction head (dry):	4.5 m wc	4.5 m wc
Displacement per chamber:	220 cm ³	220 cm ³
Displacement per cycle:	440 cm ³	440 cm ³
Max. viscosity:	10,000 mPas	10,000 mPas
Sound pressure level (Lp):	80 dB(A)	80 dB(A)
Max. temperature:	60 °C	90 °C
Max. solid size:	ø 6.0 mm	ø 6.0 mm
Air inlet:	3/8" BSP inside thread	3/8" BSP inside thread
Suction:	1" BSP inside thread	1" BSP inside thread
Pressure joint:	1" BSP inside thread	1" BSP inside thread
Weight:	6.4 kg	7.7 kg



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer
TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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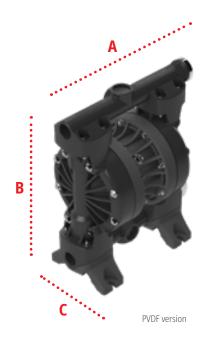
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Model 1 1/2" non-metallic

The double diaphragm pump is suitable for large scale industry and plant feeding as well as for large flow rates





Dimensions

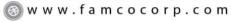
PP / PVDF

A 430 **B** 538 **C** 263*

Dimensions in mm *with muffler 317 mm

Detailed dimensioned drawings are available for download on our website.

Pump type	Materials	Materials			Order No.
	Housing	Diaphragms	Check balls	Seals	
AODD 1 1/2" PPT	PP (glass fibre reinforced)	TPC-ET + TFM (PTFE)	PTFE	PTFE	5240-200
AODD 1 1/2" PPE	PP (glass fibre reinforced)	TPV (EPDM-PP)	EPDM	EPDM	5240-220
AODD 1 1/2" PPB	PP (glass fibre reinforced)	NBR	NBR	NBR	5240-240
AODD 1 1/2" KNT	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5241-310
AODD 1 1/2" KNV	PVDF (carbon fibre reinforced)	FPM	FPM	FPM	5241-350



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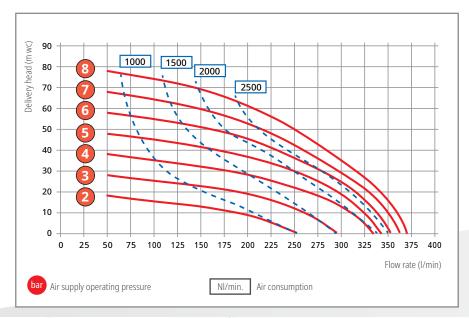
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	AODD 1 1/2" PP	AODD 1 1/2" PVDF
Housing material:	Polypropylene (glass fibre reinforced)	Polyvinylidene fluoride (carbon fibre reinforced)
Centre block material:	Aluminium	Aluminium (corrosion protection lacquered)
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP)	TPV (EPDM-PP) + TFM (PTFE), FPM
Valve ball material:	NBR, PTFE, EPDM	PTFE, FPM
Seals:	NBR, PTFE, EPDM	PTFE, FPM
Valve seat:	PP	PVDF
Max.flow rate:	370 l/min.	370 l/min.
Max.delivery head:	80 m wc (Type PPE + PPB: max. 50 m wc)	80 m wc
Max. air pressure:	8 bar	8 bar
Min. air pressure (start-up):	2 bar	2 bar
Max. suction head (dry):	4.5 m wc	4.5 m wc
Displacement per chamber:	670 cm ³	670 cm ³
Displacement per cycle:	1340 cm ³	1340 cm ³
Max. viscosity:	30,000 mPas	30,000 mPas
Sound pressure level (Lp):	80 dB(A)*	80 dB(A)*
Max. temperature:	60 °C	90 °C
Max. solid size:	ø 7.0 mm	ø 7.0 mm
Air inlet:	1/2" BSP inside thread	1/2" BSP inside thread
Suction:	1 1/2" BSP inside thread	1 1/2" BSP inside thread
Pressure joint:	1 1/2" BSP inside thread	1 1/2" BSP inside thread
Weight:	18.0 kg	24.0 kg

^{*}Measured with standard muffler mounted.



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene

PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer
TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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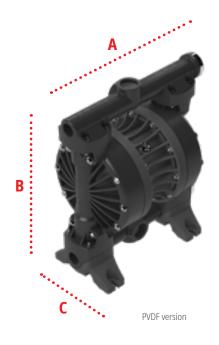
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Model 2" non-metallic

The double diaphragm pump is suitable for large scale industry and plant feeding as well as for large flow rates and higher viscosities.





Dimensions

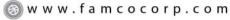
PP / PVDF

A 563 **B** 663 **C** 345*

Dimensions in mm *with muffler 381 mm

Detailed dimensioned drawings are available for download on our website.

Pump type	Materials	Materials			Order No.
	Housing	Diaphragms	Check balls	Seals	
AODD 2" PPT	PP (glass fibre reinforced)	TPC-ET + TFM (PTFE)	PTFE	PTFE	5250-200
AODD 2" PPE	PP (glass fibre reinforced)	TPV (EPDM-PP)	EPDM	EPDM	5250-220
AODD 2" PPB	PP (glass fibre reinforced)	NBR	NBR	NBR	5250-240
AODD 2" KNT	PVDF (carbon fibre reinforced)	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5251-310
AODD 2" KNV	PVDF (carbon fibre reinforced)	FPM	FPM	FPM	5251-350



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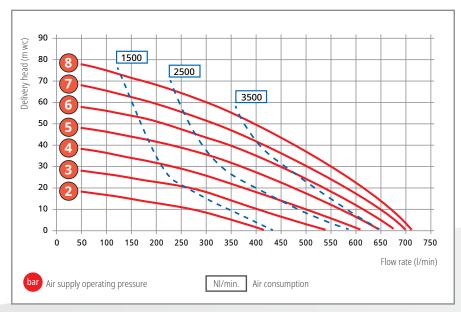
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	AODD 2" PP	AODD 2" PVDF
Housing material:	Polypropylene (glass fibre reinforced)	Polyvinylidene fluoride (carbon fibre reinforced
Centre block material:	Aluminium	Aluminium (corrosion protection lacquered)
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP)	TPV (EPDM-PP) + TFM (PTFE), FPM
Valve ball material:	NBR, PTFE, EPDM	PTFE, FPM
Seals:	NBR, PTFE, EPDM	PTFE, FPM
Valve seat:	PP	PVDF
Max.flow rate:	715 l/min.	715 l/min.
Max.delivery head:	80 m wc (Type PPE + PPB: max. 50 m wc)	80 m wc
Max. air pressure:	8 bar	8 bar
Min. air pressure (start-up):	2 bar	2 bar
Max. suction head (dry):	4.5 m wc	4.5 m wc
Displacement per chamber:	1910 cm ³	1910 cm ³
Displacement per cycle:	3820 cm ³	3820 cm ³
Max. viscosity:	30,000 mPas	30,000 mPas
Sound pressure level (Lp):	80 dB(A)*	80 dB(A)*
Max. temperature:	60 °C	90 °C
Max. solid size:	ø 9.0 mm	ø 9.0 mm
Air inlet:	3/4" BSP inside thread	3/4" BSP inside thread
Suction:	2" BSP inside thread	2" BSP inside thread
Pressure joint:	2" BSP inside thread	2" BSP inside thread
Weight:	34.0 kg (PPT) / 43.0 kg (PPE, PPB)	40.0 kg

^{*}Measured with standard muffler mounted.



= Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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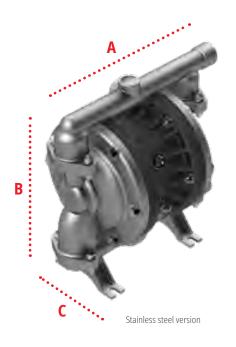
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Model 1/2" metallic

The double diaphragm pump is suitable for industrial applications as well as for emptying drums, IBCs and tanks.





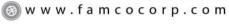
Dimensions		
Alu	A 246 B 254 C 160	
Stainless steel	A 247 B 248 C 160	

Dimensions in mm

Detailed dimensioned drawings are available for download on our website

When using a needle valve, the thread extension part no. 5000-712 is required.

Pump type	Materials	Materials		Order No.	
	Housing	Diaphragms	Check balls	Seals	
AODD 1/2" ALT Ex* ⟨€x⟩	Aluminium	TPC-ET + TFM (PTFE)	PTFE	PTFE	5222-100
AODD 1/2" ALE Ex* ⟨€x⟩	Aluminium	TPV (EPDM-PP)	EPDM	EPDM	5222-120
AODD 1/2" ALB Ex* €x ∕	Aluminium	NBR	NBR	NBR	5222-140
AODD 1/2" ALV Ex* ⟨€x⟩	Aluminium	FPM	FPM	FPM	5222-150
AODD 1/2" SST Ex* ⟨€x⟩	Stainless steel	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5223-110
AODD 1/2" SSE Ex* ⟨€x⟩	Stainless steel	TPV (EPDM-PP)	EPDM	EPDM	5223-120
AODD 1/2" SSB Ex* €x ∕	Stainless steel	NBR	NBR	NBR	5223-140
AODD 1/2" SSV Ex* ⟨€x⟩	Stainless steel	FPM	FPM	FPM	5223-150



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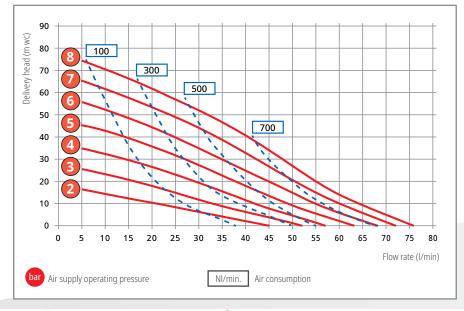
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	AODD 1/2" Aluminium	AODD 1/2" Stainless steel
Housing material:	Aluminium	Stainless steel 1.4404 (316 L)
Centre block material:	Polypropylene (carbon fibre reinforced)	Polypropylene (carbon fibre reinforced)
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP), FPM	NBR, TPV (EPDM-PP) + TFM (PTFE), TPV (EPDM-PP), FPM
/alve ball material:	NBR, PTFE, EPDM, FPM	NBR, PTFE, EPDM, FPM
Seals:	NBR, PTFE, EPDM, FPM	NBR, PTFE, EPDM, FPM
/alve seat:	Aluminium	Stainless steel
Max.flow rate:	76 l/min.	76 l/min.
Max.delivery head:	80 m wc (Type ALE + ALB: max. 50 m wc)	80 m wc (Type SSE + SSB: max. 50 m wc)
Max. air pressure:	8 bar	8 bar
Min. air pressure (start-up):	2 bar	2 bar
Max. suction head (dry):	4 m wc	4 m wc
Displacement per chamber:	75 cm ³	75 cm ³
Displacement per cycle:	150 cm ³	150 cm ³
Max. viscosity:	7,500 mPas	7,500 mPas
Sound pressure level (Lp):	75 dB(A)	75 dB(A)
Max. temperature:	100 °C	100 °C
Max. solid size:	ø 3.2 mm	ø 3.8 mm
Air inlet:	1/4" BSP inside thread	1/4" BSP inside thread
Suction:	1/2" BSP inside thread	1/2" BSP inside thread
Pressure joint:	1/2" BSP inside thread	1/2" BSP inside thread
Weight:	4.0 kg	6.0 kg



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene

PTFE = Polytetrafluoroethylene TPC-ET = Thermoplastic polyester elastomer

TFM (PTFE) = Inermopiastic polyester elastome = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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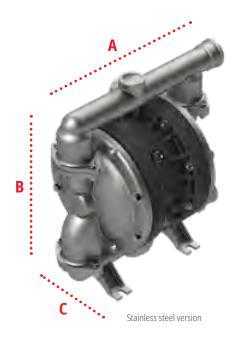
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Model 1" metallic

The double diaphragm pump is suitable for industrial applications as well as for emptying drums, IBCs and tanks.





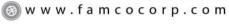
Dimensions		
Alu	A 310 B 335 C 203	
Stainless steel	A 312 B 322 C 204	

Dimensions in mm

Detailed dimensioned drawings are available for download on our website

When using a needle valve, the thread extension part no. 5000-712 is required.

Pump type	Materials	Materials			Order No.
	Housing	Diaphragms	Check balls	Seals	
AODD 1" ALT Ex* ⟨€x⟩	Aluminium	TPC-ET + TFM (PTFE)	PTFE	PTFE	5232-100
AODD 1" ALE Ex* ⟨€x⟩	Aluminium	TPV (EPDM-PP)	EPDM	EPDM	5232-120
AODD 1" ALB Ex* ⟨€x⟩	Aluminium	NBR	NBR	NBR	5232-140
AODD 1" ALV Ex* ⟨€x⟩	Aluminium	FPM	FPM	FPM	5232-150
AODD 1" SST Ex* ⟨€x⟩	Stainless steel	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5233-110
AODD 1" SSE Ex* ⟨€x⟩	Stainless steel	TPV (EPDM-PP)	EPDM	EPDM	5233-120
AODD 1" SSB Ex* ⟨€x⟩	Stainless steel	NBR	NBR	NBR	5233-140
AODD 1" SSV Ex* ⟨€x⟩	Stainless steel	FPM	FPM	FPM	5233-150



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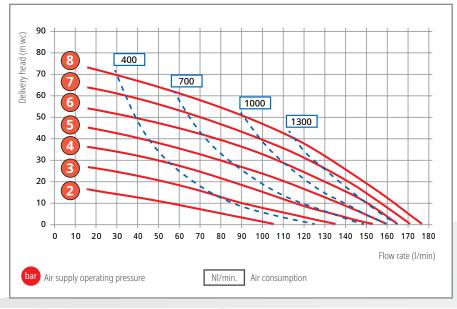
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	AODD 1" Aluminium	AODD 1" Stainless steel
	AODD I Alullillidill	AODD 1 Stalliess steel
Housing material:	Aluminium	Stainless steel 1.4404 (316 L)
Centre block material:	Polypropylene (carbon fibre reinforced)	Polypropylene (carbon fibre reinforced)
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP), FPM	NBR, TPV (EPDM-PP) + TFM (PTFE), TPV (EPDM-PP), FPM
Valve ball material:	NBR, PTFE, EPDM, FPM	NBR, PTFE, EPDM, FPM
Seals:	NBR, PTFE, EPDM, FPM	NBR, PTFE, EPDM, FPM
Valve seat:	Aluminium	Stainless steel
Max.flow rate:	175 l/min.	175 l/min.
Max.delivery head:	80 m wc (Type ALE + ALB: max. 50 m wc)	80 m wc (Type SSE + SSB: max. 50 m wc)
Max. air pressure:	8 bar	8 bar
Min. air pressure (start-up):	2 bar	2 bar
Max. suction head (dry):	4.5 m wc	4.5 m wc
Displacement per chamber:	220 cm ³	220 cm ³
Displacement per cycle:	440 cm ³	440 cm ³
Max. viscosity:	10,000 mPas	10,000 mPas
Sound pressure level (Lp):	80 dB(A)	80 dB(A)
Max. temperature:	100 °C	100 °C
Max. solid size:	ø 6.0 mm	ø 6.0 mm
Air inlet:	3/8" BSP inside thread	3/8" BSP inside thread
Suction:	1" BSP inside thread	1" BSP inside thread
Pressure joint:	1" BSP inside thread	1" BSP inside thread
Weight:	7.8 kg	11.0 kg



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene

PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer
TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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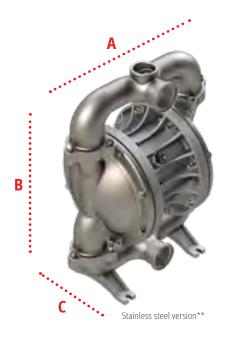
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Model 1 1/2" metallic

The double diaphragm pump is suitable for large scale industry and plant feeding as well as for large flow rates and higher viscosities.



Dimensions	
Alu	A 467 B 573 C 264*
Stainless steel	A 400 B 501 C 263*
Dimonsions in mm *wit	th mufflor 217 mm

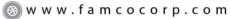
Dimensions in mm *with muffler 317 mm

Detailed dimensioned drawings are available for download on our website.

**Contrary to the illustration, the outlet connection is delivered rotated by 180° .

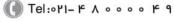
Pump type	Materials				Order No.
	Housing	Diaphragms	Check balls	Seals	
AODD 1 1/2" ALT Ex* (Ex)	Aluminium	TPC-ET + TFM (PTFE)	PTFE	PTFE	5242-200
AODD 1 1/2" ALE Ex* ⟨€x⟩	Aluminium	TPV (EPDM-PP)	EPDM	EPDM	5242-220
AODD 1 1/2" ALB Ex* ⟨€x⟩	Aluminium	NBR	NBR	NBR	5242-240
AODD 1 1/2" SST Ex* ⟨€x⟩	Stainless steel	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5243-310
AODD 1 1/2" SSE Ex* ⟨€x⟩	Stainless steel	TPV (EPDM-PP)	EPDM	EPDM	5243-320
AODD 1 1/2" SSB Ex* ⟨€x⟩	Stainless steel	NBR	NBR	NBR	5243-340
AODD 1 1/2" SSV Ex* ⟨€x⟩	Stainless steel	FPM	FPM	FPM	5243-350

*II 2 G Ex h IIB T4 Gb / II 2 D Ex h IIIB T135°C Db



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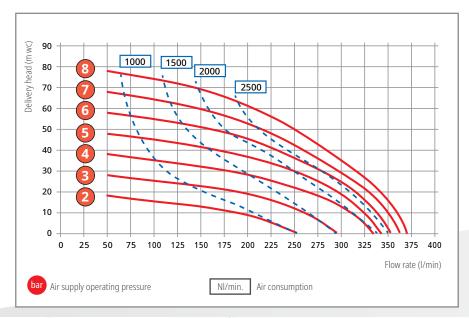


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	AODD 1 1/2" Aluminium	AODD 1 1/2" Stainless steel		
Housing material:	Aluminium	Stainless steel 1.4404 (316 L)		
Centre block material:	Aluminium	Aluminium (corrosion protection lacquered)		
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP)	NBR, TPV (EPDM-PP) + TFM (PTFE), TPV (EPDM-PP), FPM		
Valve ball material:	NBR, PTFE, EPDM	NBR, PTFE, EPDM, FPM		
Seals:	NBR, PTFE, EPDM	NBR, PTFE, EPDM, FPM		
Valve seat:	Aluminium	Stainless steel		
Max.flow rate:	370 l/min.	370 l/min.		
Max.delivery head:	80 m wc (Type ALE + ALB: max. 50 m wc)	80 m wc (Type SSE + SSB: max. 50 m wc)		
Max. air pressure:	8 bar	8 bar		
Min. air pressure (start-up):	2 bar	2 bar		
Max. suction head (dry):	4.5 m wc	4.5 m wc		
Displacement per chamber:	670 cm ³	670 cm ³		
Displacement per cycle:	1340 cm ³	1340 cm ³		
Max. viscosity:	30,000 mPas	30,000 mPas		
Sound pressure level (Lp):	80 dB(A)*	80 dB(A)*		
Max. temperature:	100 °C	100 °C		
Max. solid size:	ø 7.0 mm	ø 7.0 mm		
Air inlet:	1/2" BSP inside thread	1/2" BSP inside thread		
Suction:	Flange DIN DN40 PN10/ ASME B16.5 1 1/2" class150 or 1 1/2" BSP inside thread (included)	1 1/2" BSP inside thread		
Pressure joint:	Flange DIN DN40 PN10/ ASME B16.5 1 1/2" class150 or 1 1/2" BSP inside thread (included)	1 1/2" BSP inside thread		
Weight:	25.0 kg	28.0 kg		

^{*}Measured with standard muffler mounted.



= Ethylene propylene diene rubber

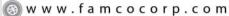
FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound



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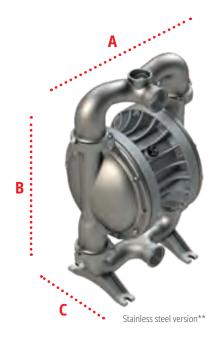
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Model 2" metallic

The double diaphragm pump is suitable for large scale industry and plant feeding as well as for large flow rates and higher viscosities.





Dimensions				
Alu	A 594 B 688 C 345*			
Stainless steel	A 478 B 694 C 346*			

Dimensions in mm *with muffler 381 mm

Detailed dimensioned drawings are available for download on our website.

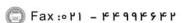
^{**}Contrary to the illustration, the outlet connection is delivered rotated by 180° .

Pump type	Materials	Materials			Order No.
	Housing	Diaphragms	Check balls	Seals	
AODD 2" ALT Ex* ⟨€x⟩	Aluminium	TPC-ET + TFM (PTFE)	PTFE	PTFE	5252-200
AODD 2" ALE Ex* €x>	Aluminium	TPV (EPDM-PP)	EPDM	EPDM	5252-220
AODD 2" ALB Ex* €x	Aluminium	NBR	NBR	NBR	5252-240
AODD 2" SST Ex* €x	Stainless steel	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5253-310
AODD 2" SSE Ex* ⟨€x⟩	Stainless steel	TPV (EPDM-PP)	EPDM	EPDM	5253-320
AODD 2" SSB Ex* €x ∕	Stainless steel	NBR	NBR	NBR	5253-340
AODD 2" SSV Ex* €x	Stainless steel	FPM	FPM	FPM	5253-350

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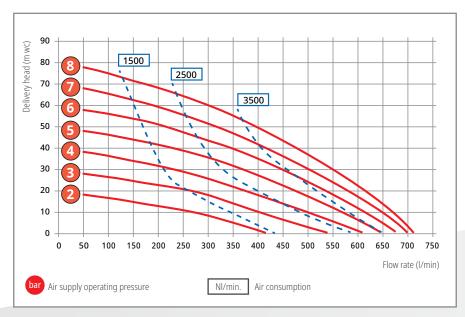
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	AODD 2" Aluminium	AODD 2" Stainless steel		
Housing material:	Aluminium	Stainless steel 1.4404 (316 L)		
Centre block material:	Aluminium	Aluminium (corrosion protection lacquered)		
Diaphragm material:	NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP)	NBR, TPV (EPDM-PP) + TFM (PTFE), TPV (EPDM-PP), FPM		
Valve ball material:	NBR, PTFE, EPDM	NBR, PTFE, EPDM, FPM		
Seals:	NBR, PTFE, EPDM	NBR, PTFE, EPDM, FPM		
Valve seat:	Aluminium	Stainless steel		
Max.flow rate:	715 l/min.	715 l/min.		
Max.delivery head:	80 m wc (Type ALE + ALB: max. 50 m wc)	80 m wc (Type SSE + SSB: max. 50 m wc)		
Max. air pressure:	8 bar	8 bar		
Min. air pressure (start-up):	2 bar	2 bar		
Max. suction head (dry):	4.5 m wc	4.5 m wc		
Displacement per chamber:	1910 cm ³	1910 cm ³		
Displacement per cycle:	3820 cm ³	3820 cm ³		
Max. viscosity:	30,000 mPas	30,000 mPas		
Sound pressure level (Lp):	80 dB(A)*	80 dB(A)*		
Max. temperature:	100 °C	100 °C		
Max. solid size:	ø 9.0 mm	ø 9.0 mm		
Air inlet:	3/4" BSP inside thread	3/4" BSP inside thread		
Suction:	Flange DIN DN50 PN10/ ASME B16.5 2" class150 or 2" BSP inside thread (included)	2" BSP inside thread		
Pressure joint:	Flange DIN DN50 PN10/ ASME B16.5 2" class150 or 2" BSP inside thread (included)	2" BSP inside thread		
Weight:	44.0 kg	54.0 kg		

^{*}Measured with standard muffler mounted.



EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene

PTFE = Polytetrafluoroethylene

TPC-ET = Thermoplastic polyester elastomer
TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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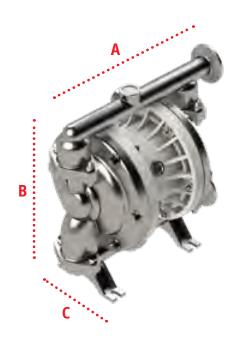
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Model 1/2" PURE Stainless steel

The double diaphragm pump is suitable for the food and pharmaceutical industry as well as for emptying drums, IBCs and tanks.





Dimensions

Stainless steel

A 247 **B** 253 **C** 160

Dimensions in mm

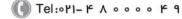
Detailed dimensioned drawings are available for download on our website.



Pump type	Materials	Materials			Order No.
	Housing	Diaphragms	Check balls	Seals	
AODD 1/2" SST PURE	Stainless steel	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5224-410

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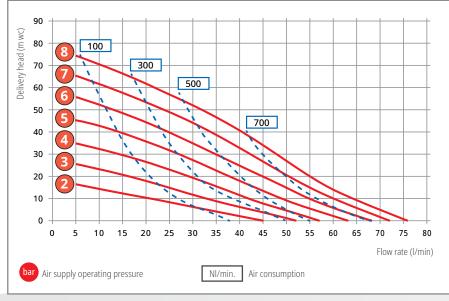
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	AODD 1/2" PURE stainless steel
Housing material:	Stainless steel 1.4404 (316 L) electropolished
Centre block material:	Polypropylene (glass fibre reinforced)
Diaphragm material:	TPV (EPDM-PP) + TFM (PTFE)
Valve ball material:	PTFE
Seals:	PTFE
/alve seat:	Stainless steel
Max.flow rate:	76 l/min.
Max.delivery head:	80 m wc
Max. air pressure:	8 bar
Min. air pressure (start-up):	2 bar
Max. suction head (dry):	4 m wc
Displacement per chamber:	75 cm ³
Displacement per cycle:	150 cm ³
Max. viscosity:	7,500 mPas
Sound pressure level (Lp):	75 dB(A)
Max. temperature:	100 °C
Max. solid size:	ø 3.8 mm
nir inlet:	1/4" BSP inside thread
uction:	Tri-Clamp 1" (flange ø 50.5 mm, groove ø 43.5 mm)
Pressure joint:	Tri-Clamp 1" (flange ø 50.5 mm, groove ø 43.5 mm)
Weight:	6.0 kg



EPDM = Ethylene propylene diene rubber

= Polypropylene PTFE = Polytetrafluoroethylene TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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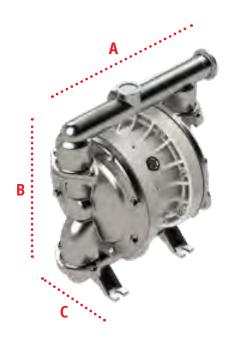
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Model 1" PURE Stainless steel

The double diaphragm pump is suitable for the food and pharmaceutical industry as well as for emptying drums, IBCs and tanks.





Dimensions

Stainless steel

A 310 **B** 322 **C** 204

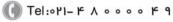
Dimensions in mm

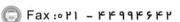
Detailed dimensioned drawings are available for download on our website.



Pump type	Materials	Materials			Order No.
	Housing	Diaphragms	Check balls	Seals	
AODD 1" SST PURE	Stainless steel	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5234-410

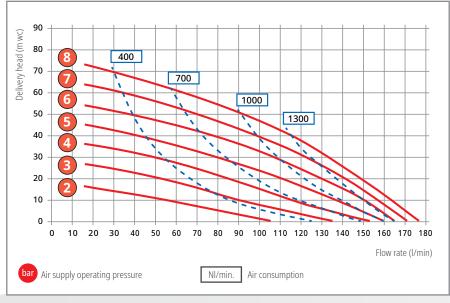
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	AODD 4// DUDE statules stand
	AODD 1" PURE stainless steel
Housing material:	Stainless steel 1.4404 (316 L) electropolished
Centre block material:	Polypropylene (glass fibre reinforced)
Diaphragm material:	TPV (EPDM-PP) + TFM (PTFE)
Valve ball material:	PTFE
Seals:	PTFE
Valve seat:	Stainless steel
Max.flow rate:	175 l/min.
Max.delivery head:	80 m wc
Max. air pressure:	8 bar
Min. air pressure (start-up):	2 bar
Max. suction head (dry):	4.5 m wc
Displacement per chamber:	220 cm ³
Displacement per cycle:	440 cm ³
Max. viscosity:	10,000 mPas
Sound pressure level (Lp):	80 dB(A)
Max. temperature:	100 °C
Max. solid size:	ø 6.0 mm
Air inlet:	3/8" BSP inside thread
Suction:	Tri-Clamp 1 1/2" (flange ø 50.5 mm, groove ø 43.5 mm)
Pressure joint:	Tri-Clamp 1 1/2" (flange ø 50.5 mm, groove ø 43.5 mm)
Weight:	11.0 kg



Description of material:

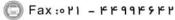
EPDM = Ethylene propylene diene rubber

PP = Polypropylene PTFE = Polytetrafluoroethylene TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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Model 1 1/2" PURE Stainless steel

The double diaphragm pump is suitable for the food and pharmaceutical industry as well as for large flow rates and higher viscosities.





Dimensions

Stainless steel

A 400 **B** 501 **C** 263*

Dimensions in mm *with muffler 317 mm

Detailed dimensioned drawings are available for download

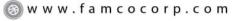
on our website.



Contrary to the illustration, the outlet connection is delivered rotated by 180°.

Pump type	Materials	Order No.			
	Housing	Diaphragms	Check balls	Seals	
AODD 1 1/2" SST Ex PURE* (Ex)	Stainless steel	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5244-410

*II 2 G Ex h IIB T4 Gb / II 2 D Ex h IIIB T135°C Db



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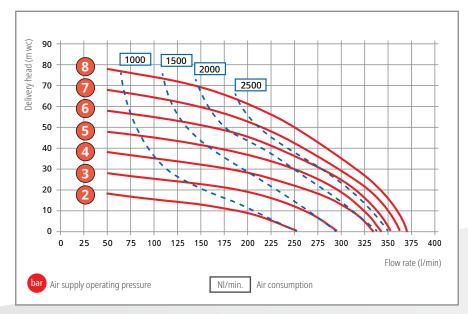
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	AORD 4 4 (OUR DURE)
	AODD 1 1/2" PURE stainless steel
Housing material:	Stainless steel 1.4404 (316 L) electropolished
Centre block material:	Aluminium (food paintwork)
Diaphragm material:	TPV (EPDM-PP) + TFM (PTFE)
Valve ball material:	PTFE
Seals:	PTFE
√alve seat:	Stainless steel
Max.flow rate:	370 l/min.
Max.delivery head:	80 m wc
Max. air pressure:	8 bar
Min. air pressure (start-up):	2 bar
Max. suction head (dry):	4.5 m wc
Displacement per chamber:	670 cm ³
Displacement per cycle:	1340 cm ³
Max. viscosity:	30,000 mPas
Sound pressure level (Lp):	80 dB(A)*
Max. temperature:	100 °C
Max. solid size:	ø 7.0 mm
Air inlet:	1/2" BSP inside thread
Suction:	Tri-Clamp 2" (flange ø 64 mm, groove ø 56.5 mm)
Pressure joint:	Tri-Clamp 2" (flange ø 64 mm, groove ø 56.5 mm)
Weight:	26.0 kg

^{*}Measured with standard muffler mounted.



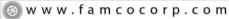
Description of material:

EPDM = Ethylene propylene diene rubber

PP = Polypropylene PTFE = Polytetrafluoroethylene

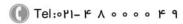
TFM (PTFE) = Modified polytetrafluoroethylene

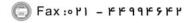
TPV (EPDM-PP) = EPDM/PP compound



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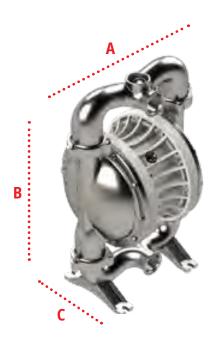




Model 2" PURE Stainless steel

The double diaphragm pump is suitable for the food and pharmaceutical industry as well as for large flow rates and higher viscosities.





Dimensions

Stainless steel

A 478 **B** 694 **C** 346*

Dimensions in mm *with muffler 381 mm

Detailed dimensioned drawings are available for download

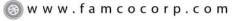
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Contrary to the illustration, the outlet connection is delivered rotated by 180°.

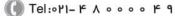
Pump type	Materials	Order No.			
	Housing	Diaphragms	Check balls	Seals	
AODD 2" SST Ex PURE* (Ex)	Stainless steel	TPV (EPDM-PP) + TFM (PTFE)	PTFE	PTFE	5254-410

*II 2 G Ex h IIB T4 Gb / II 2 D Ex h IIIB T135°C Db



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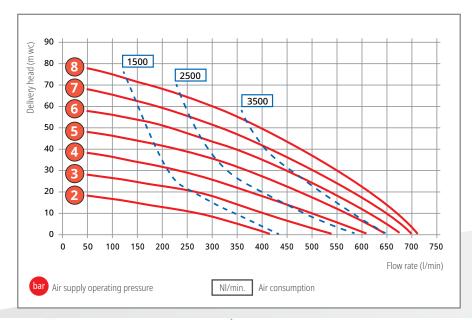


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	AODD 3// DUDE stainless stand
	AODD 2" PURE stainless steel
Housing material:	Stainless steel 1.4404 (316 L) electropolished
Centre block material:	Aluminium (food paintwork)
Diaphragm material:	TPV (EPDM-PP) + TFM (PTFE)
Valve ball material:	PTFE
Seals:	PTFE
Valve seat:	Stainless steel
Max.flow rate:	715 l/min.
Max.delivery head:	80 m wc
Max. air pressure:	8 bar
Min. air pressure (start-up):	2 bar
Max. suction head (dry):	4.5 m wc
Displacement per chamber:	1910 cm ³
Displacement per cycle:	3820 cm ³
Max. viscosity:	30,000 mPas
Sound pressure level:	80 dB(A)*
Max. temperature:	100 °C
Max. solid size:	ø 9.0 mm
Air inlet:	3/4" BSP inside thread
Suction:	Tri-Clamp 2 1/2" (flange ø 77.5 mm, groove ø 70.5 mm)
ressure joint:	Tri-Clamp 2 1/2" (flange ø 77.5 mm, groove ø 70.5 mm)
Weight:	49.0 kg

^{*}Measured with standard muffler mounted.



Description of material:

EPDM = Ethylene propylene diene rubber

FPM = Fluorine rubber

NBR = Acrylonitrile butadiene rubber

PP = Polypropylene

PTFE = Polytetrafluoroethylene

TFM (PTFE) = Modified polytetrafluoroethylene

TPV (EPDM-PP) = EPDM/PP compound

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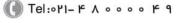


Product detail	Specification			Order No.		
	Pipe fitting					
The state of the s	Permits direct connection of	Permits direct connection of hoses on pressure joint/suction joint of the pump.				
	PP PVDF	DN 8 x G 1/4 OT DN 8 x G 1/4 OT	AODD 1/4" AODD 1/4"	5000-314 5000-315		
	Coupling connector					
	Permits direct connection c	of hoses on pressure joint/	suction joint of the pump.			
	PP PVDF Brass Stainless steel (1.4571) PP PP PP PP PVDF Brass Stainless steel (1.4571) Stainless steel (1.4571) PP Stainless steel (1.4571)	DN 8 x G 1/4 OT DN 8 x G 1/4 OT DN 9 x G 1/4 OT DN 9 x G 1/4 OT DN 12 x G 1/4 OT DN 12 x G 1/2 OT DN 20 x G 1/2 OT DN 12 x G 1/2 OT DN 20 x G 1/2 OT DN 20 x G 1/2 OT DN 25 x G 1 OT DN 25 x G 1 OT	AODD 1/4" AODD 1/4" AODD 1/4" AODD 1/4" AODD 1/4" AODD 1/2" AODD 1/1	5000-020 5000-021 5000-022 5000-023 5000-024 5000-030 5000-031 5000-032 5000-033 0300-215 5000-037 5000-038		
	Hose connections					
	For the direct connection o	Hose connector with union nut (+ seal for metal connections) For the direct connection of hoses with different diameters to the pressure/suction joint of the double diaphragm pump.				
	PP PP PP PP PVDF PVDF PP PP PP PP PP Alu Alu Alu Stainless steel (1.4571) Stainless steel (1.4571)	DN 13 x G 1 1/4 IT DN 19 x G 1 1/4 IT DN 25 x G 1 1/4 IT DN 19 x G 1 IT DN 19 x G 1 1/4 IT DN 25 x G 1 1/4 IT DN 25 x G 1 1/4 IT DN 25 x G 1 1/4 IT DN 32 x G 1 1/4 IT DN 25 x G 1 1/4 IT DN 32 x G 1 1/4 IT DN 32 x G 1 1/4 IT DN 32 x G 1 1/4 IT DN 19 x G 1 1/4 IT DN 19 x G 1 1/4 IT DN 19 x G 1 1/4 IT DN 25 x G 1 1/4 IT DN 32 x G 1 1/4 IT DN 32 x G 1 1/4 IT	AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2" AODD 1"	0204-409 0204-410 0204-411 0204-438 0204-421 0204-422 0204-410 0204-411 0204-412 0204-421 0204-422 0204-403 0204-404 0204-405 0204-400 0204-401		
	Hose connections					
	Hose connector with union	nut and seal				
	Stainless steel (1.4571) PP PVDF Stainless steel (1.4571)	DN 38 x G 1 1/2 IT DN 50 x G 2 IT DN 50 x G 2 IT DN 50 x G 2 IT	AODD 1 1/2" AODD 2" AODD 2" AODD 2"	0204-418 5000-250 5000-251 5000-253		

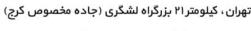




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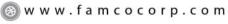


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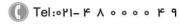


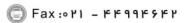
Product detail	Specification	Order No.			
	Hose connections wit	h Tri-clamp			
	For connecting the delivery Consisting of: Hose connec				
	Connection: Tri-Clamp 1" and 1 1/2" Tri-Clamp 2" Tri-Clamp 2" Tri-Clamp 2" Tri-Clamp 2" Tri-Clamp 2"	Hose nominal diameter: DN 19 (3/4") DN 19 (3/4") DN 25 (1") DN 25 (1") DN 32 (1 1/4") DN 32 (1 1/4") DN 38 (1 1/2") DN 30 (2") DN 50 (2")	Seal: EPDM FPM	for pump: 1/2" and 1" PURE 1 1/2" PURE 1 1/2" PURE 1 1/2" PURE 1 1/2" PURE	0204-870 = 0204-871 = 0204-872 = 0204-873 = 0204-875 = 0204-876 = 0204-877 = 0172-746 = 0204-878 = 0204-879 = 0204-880 =
	Reducing nipple (pro	duct side)			
	PP PVC PVC PVDF Stainless steel (1.4571) Stainless steel (1.4571) Stainless steel (1.4571) Brass	G 1/2 OT x G 1 1/4 OT G 1/2 OT x G 1 OT G 1/2 OT x G 1 1/4 OT G 1/2 OT x G 1 1/4 OT G 1/2 OT x G 3/4 OT G 1/2 OT x G 1 OT G 1/2 OT x G 1 1/4 OT G 1/2 OT x G 1 1/4 OT	AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2"		5000-060 5000-065 5000-066 5000-061 5000-067 5000-068 5000-063 5000-064
	PP PVC PVDF Brass Stainless steel (1.4571)	G 1 OT x G 1 1/4 OT G 1 OT x G 1 1/4 OT	AODD 1" AODD 1" AODD 1" AODD 1" AODD 1"		0373-076 5000-069 5000-071 5000-072 5000-073
	Hexagonal double nip	ople (product side)			
	Stainless steel (1.4571) Stainless steel (1.4571) Stainless steel (1.4571) Stainless steel (1.4571)	G 1/2 OT G 1 OT G 1 1/2 OT G 2 OT	AODD 1/2" AODD 1" AODD 1 1/2" AODD 2"		0300-008 0300-143 0300-134 0300-105
	Threaded flanges				
8	Complete with screws and PP PVDF Alu Stainless steel (1.4571) PP Alu Stainless steel (1.4571) PVDF	DN 40 x G 1 1/2 OT DN 40 x G 1 1/2 OT DN 38 x G 1 1/2 OT DN 38 x G 1 1/2 OT DN 50 x G 2 OT	AODD 1 1/2" AODD 1 1/2" AODD 1 1/2" AODD 1 1/2" AODD 2" AODD 2" AODD 2" AODD 2"		5000-620 5000-621 5000-260 5000-261 5000-262 5000-263 5000-264 5000-265













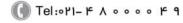


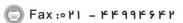
Product detail	Specification	Order No.		
	Hose connections			
	Safety connection for miconnection threads.	rent		
a Thur	Brass Stainless steel (1.4571) Brass Stainless steel (1.4571)	DN 13 x G 1/2 IT DN 13 x G 1/2 IT DN 19 x G 3/4 IT DN 19 x G 3/4 IT	AODD 1/2" AODD 1/2" AODD 1/2" AODD 1/2"	5000-102 = 5000-103 = 5000-104 = 5000-105 =
	Brass Brass for mineral oil hos Stainless steel (1.4571)	DN 25 x G 1 OT se DN 25 x G 1 IT DN 25 x G 1 OT	AODD 1" AODD 1" AODD 1"	0302-010 • 0302-112 • 0302-013 •
	Brass Stainless steel (1.4571)	DN 38 x G 1 1/2 IT DN 38 x G 1 1/2 IT	AODD 1 1/2" AODD 1 1/2"	0302-091 - 0302-092 -
⟨£x⟩	Brass Stainless steel (1.4571)	DN 50 x G 2 IT DN 50 x G 2 IT	AODD 2" AODD 2"	5000-100 - 5000-101 -
	Hose coupling with	Tri-clamp		
	explosive atmospheres. conductive hose and pu The ohmic resistance be Consisting of: Hose conn Material: Stainless steel Connection: for National	The hose coupling must ensimp/armature. etween the fittings must be length, clamp collars, locking (1.4404) hose nominal diameter: Se	clamp and seal. al: Pump: DM AODD 1 1/2" Ex PURE 🔄	0204-868 •
	Suction tube			
	Stainless steel (1.4571) Stainless steel (1.4571) Stainless steel (1.4571) PP PP	Outer-Ø 41 mm, Length 100 Outer-Ø 41 mm, Length 120 Outer-Ø 41 mm, Length 100 Outer-Ø 41 mm, Length 120 Outer-Ø 41 mm, Length 120 Outer-Ø 41 mm, Length 120 Outer-Ø 41 mm, Length 120	00 mm	0204-229 0204-355 0204-228 0204-356 5000-120 5000-119 5000-118
	Suction pipe compl			
	Stainless steel (1.4571)	Outer-Ø 41 mm, Length 120	00 mm Connection: G 1 1/4 OT	5000-294
	Foot strainer			
			Mesh size 20 x 2 mm Mesh size 20 x 2 mm Mesh size 20 x 2 mm	0204-617 0343-177 0343-187













Product detail	Specification		Order No.
	Suction strainer		
100	Suitable for suction hose		
	Stainless steel (1.4571) / PA Stainless steel (1.4571)	G 1 1/4 0T G 1 1/4 0T	5000-283 5000-284
	Vibration dampener set		
	For vibration damping for free-star consisting of 4 vibration dampene with thread M6 with thread M8 For vibration damping for foot mo consisting of 4 vibration dampene with thread M6 with thread M8 with thread M12	rs incl. fixing material unting rs incl. fixing material	5000-219 5000-218 5000-216 5000-215 5000-217
	Equipotential bonding cable	2	
	Serves to create electrically conductions container as earthing and equipot	ctive connection between explosion-proof pump and ential bonding function.	
(Ex)	2 m long AODD 1/4 2 m long AODD 1 1.	" to AODD 1" /2" to AODD 2"	5000-700 5 000-701
	Hose clips		
	Hose clips made of stainless steel hoses to the hose connection.	with threaded screw for connecting the different types of	
	Nominal diameter: DN 9 (3/8") DN 13 (1/2") DN 19 (3/4") DN 25 (1") DN 32 - 38 (1 1/4" - 1 1/2") DN 50 (2")		0301-156 0301-403 0301-400 0301-401 0302-402 0302-403



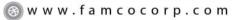


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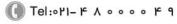


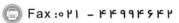
Product detail		Specification			Order No.
		PVC spiral hose, fabric re	einforced		
		Hose is made of PVC , with wov For aggressive, non-flammable complies with EU regulations 1	e liquids. Hose for food li	iquids, smooth inside and outside,	
•	Pall	Operating pressure: Temperature of liquid:	max. 14 bar -5 up to +65°C		
		Nominal diameter: DN 19 (3/4") DN 25 (1") DN 32 (1 1/4") DN 38 (1 1/2") DN 50 (2")	Weight: 0.45 kg/m 0.67 kg/m 0.80 kg/m 1.15 kg/m 1.60 kg/m		0374-466 0374-467 0374-468 0374-469 0374-470
		PTFE hose			
		Temperature range of applicat Operating pressure:	ion: - 30 to + 100 °C max. 6.5 bar at 20	Negative pressure: max. 0.7 bar °C (0.3 bar abs.)	
		Material: PTFE PTFE	Nominal diameter DN 8 DN 13	:	0374-444 0374-445
		Mineral oil hose			
	Inner rubber made of NBR, outer rubber made of NBR. Not suitable for the suction ope Electrically conductive: Type Ω -CL (<10 6 Ohm between the fittings) according to TRbF 50 appendix B (TRbF 131/2).				
	€x>	Temperature of liquid: Material: NBR NBR NBR	-25 up to +65°C Nominal diameter: DN 13 DN 19 DN 25	Operating pressure: max. 10 bar max. 10 bar max. 10 bar	0374-446 = 0374-461 = 0374-462 =
		Inner rubber NBR, outer rubbe Electrically conductive: Type Ω <i>i</i> the hose wall) according to DIN			
	Œx ∑	Temperature of liquid: Material: NBR NBR NBR	-30 up to +90°C Nominal diameter: DN 32 DN 38 DN 50	Operating pressure: max. 16 bar max. 16 bar max. 16 bar	0374-413 = 0374-414 = 0374-448 =





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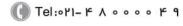


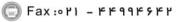
Product detail	Specificat	ion			Order No.
	Solvent hose	2			
€ x	conductive: Typ according to DI		een the fittings, <10 ⁹ Oh	/PVC-Compound. Electrically m through the hose wall) Negative pressure: max. 0.9 bar (0.1 bar abs.)	0374-449
	Universal ch	emical hose			
	Electrically cond	nade of cross-linked po ductive: Type Ω/T (<10 ⁱ to DIN EN 12115:201 [°]		rubber made of EPDM. gs, <10 ⁹ Ohm through the hose	
	Temperature of Material: U-PE U-PE U-PE U-PE U-PE U-PE	Fliquid: -30 up to +100 Nominal diameter: DN 13 DN 19 DN 25 DN 32 DN 38 DN 50	O°C Operating pressure: max. 16 bar	Negative pressure: max. 0.9 bar (0.1 bar abs.) max. 0.9 bar (0.1 bar abs.)	0374-474
	Special chen	nical hose FEP			
	between the fitti liquids!)		N 12115:2011. (NOT suita	y conductive: Type Ω-C (<10 ⁶ Ohm able for non-conductive, flammable Negative pressure: max. 0.9 bar (0.1 bar abs.)	0374-428 0374-429 0374-430 0374-455 0374-456
	Special chen	nical hose PTFE			
				rically conductive: Type Ω/T (<10 ⁶ cording to DIN EN 12115:2011.	
⟨Ex⟩	Temperature of Material: PTFE PTFE	Fliquid: -30 up to +150 Nominal diameter: DN 19 DN 25	O°C Operating pressure: max. 16 bar max. 16 bar	Negative pressure: max. 0.9 bar (0.1 bar abs.) max. 0.9 bar (0.1 bar abs.)	0374-481 • 0374-482 •





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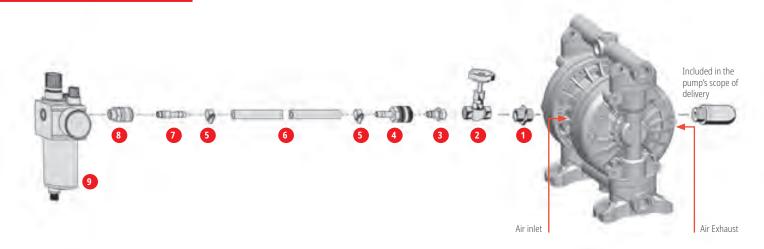




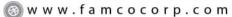




Accessories for compressed air supply



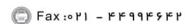
Product detail	Specification	n		Order No.
0	Double nipple			
	Brass Brass	G 3/8 OT G 3/4 OT		0302-157 5000-171
The same of the sa	Reducing nipp	le		
	Brass Brass Red cast iron * Depending on th	G 1/4 OT x 3/8 IT* G 1/2 OT x 3/8 IT* G 1/2 OT x 3/4 OT ne size, a combination of double and redu	cing nipple is required	5000-710 5000-711 0372-007
	Thread extensi	on		
	Brass When using a nee	G 3/8 Length: 40 mm dle valve with 1/2" and 1" pump sizes		5000-712
2	Needle valve			
100	Regulates the air v	volume to the double diaphragm pump		
	Brass	G 3/8	AODD 1/4" AODD 1/2"	5000-160
	Brass	G 3/4	AODD 172" AODD 1" AODD 1 1/2" AODD 2"	5000-161
3	Nipple (male p	art)		
	Brass (NW 7.2)	G 3/8 OT	AODD 1/4" AODD 1/2"	0372-045
1	Brass (NW 7.2)	G 1/2 OT (When using an air flow control valve)	AODD 1" AODD 1/4" AODD 1/2"	5000-179
	Brass (NW 10)	G 3/4 OT	AODD 1" AODD 1 1/2" AODD 2"	5000-172





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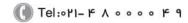


Product detail	Specificati	on					Order No.
4	Hose coupling						
	Self-closing Brass (NW 7.2) Brass (NW 7.2) Brass (NW 10)		DN 9 DN 13 DN 13		AODD 1/4" AODD 1/2" and 1" AODD 1 1/2" and 2"		0372-166 0372-167 5000-165
5	Hose clamp						
00	(Chromated stee for compressed	air hose D	DN 9 DN 13				0301-156 0301-403
6	Compressed	Compressed air hose					
	PVC hose with ir max. operating p	D	layer bar at 20°C DN 9 DN 13				0373-153 0373-154
7	Coupling connector						
-	For connecting on coupling (NW 7.2) for compressed air hose DN 9 DN 13				0372-155 0372-039		
8	Coupling						
Married S.	Self-locking in brass. For screwing into the filter pressure regulator Brass (NW 7.2) G 3/8 OT				0372-154		
9	Filter pressure regulator						
	Inlet pressure: Filter element: Housing:	max. 16 bar 5 μm, Cellpor Zinc-Pressure casi G 3/8	Dia t	bient temp.: phragms and sea AODD 1/4" to AC		max. 60 °C NBR	5000-178
is in	Inlet pressure: Filter element:	max. 16 bar 40 µm, sinter bro		bient temp.: phragms and sea	als:	max. 60 °C NBR	
*	Housing:	Aluminium G 3/4	for	AODD 1 1/2" to <i>I</i>	40DD 2"		5000-173
	Air connection set for 1/4" mini, 1/4", 3/8", 1/2" mini						
	Air connection set with adapter for coupling (NW 7.2) or compressed air hose with inner diameter 9mm*. *only available as set					5000-300	



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Adjustable pulsation dampeners

Mode of operation

Pulsation dampeners are containers filled with a gas cushion. A diaphragm separates the gas cushion from the system fluid. The dampeners store and discharge a part of the stroke volume in the stroke rhythm of the diaphragm pump, whereby the gas cushion is compressed or decompressed accordingly. This makes the pulsating flow rate of the pump almost uniform.

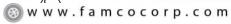
Benefits of pulsation dampeners

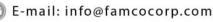
- Prevents pipe vibrations that cause material fatigue and pipe bursts.
- Compensation of pressure surges (water hammer) protects built-in fittings.
- Ensure almost uniform volume flow, which increases the accuracy of flow meters.
- Explosion-proof models with approval according to ATEX.

Installation

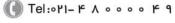
Pulsation dampeners should be installed as close as possible to the pump. On models with adjustable air control the dampener pressure can be adjusted or readjusted in case of pressure fluctuations. The air supply is parallel to the air supply of the double diaphragm pump.

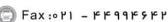
Product detail	Specification	Specification					
	Pulsation dampe	Pulsation dampener PD III D for AODD 1/4"					
	Housing materials: Diaphragms: Connection medium: Connection air: Operating pressure: Volume: Air control: Weight:	Diaphragms: PTFE, EPDM, NBR and FPM Connection medium: G 1/2 IT Connection air: 1/4 NPT OT Operating pressure: max. 10 bar Volume: approx. 0.16 dm³, respectively approx. 0.13 dm³ with PTFE-diaphragm Air control: adjustable					
	Type PD III D – P – B	Housing material PP (in contact with the product) PP (not in contact with the product)	Diaphragms NBR	5000-350			
110	PD III D – P – ND	PP (in contact with the product) PP (not in contact with the product) PP (not in contact with the product)	EPDM	5000-351			
	PD III D – P – T	PP (in contact with the product) PP (not in contact with the product)	PTFE	5000-352			
	PD III D – P – V	PP (in contact with the product) PP (not in contact with the product)	FPM	5000-353			
W	PD III D – K – T	PVDF (in contact with the product) PVDF (not in contact with the product)		5000-354			
$\langle \mathcal{E}_{\mathbf{x}} \rangle$	PD III D – S – T Ex II 2	GD IIB T4 Stainless steel, 1.4571 (in contact with Stainless steel, 1.4571 (not in contact wi		5000-357			
	Pulsation damper	ner for AODD 1/2" DT 50 / DTX 70	PD II F				
	Housing materials: Diaphragms: Connection medium: Connection air: Operating pressure: Air control: Weight:	PE, PTFE and SS (1.4571) PTFE, EPDM, NBR G 1/2 IT / G 3/4 stainless steel G 1/4 IT max. 8 bar automatically approx. 1.4 up to 2.1 kg	SS (1.4571) FPM G 3/4 IT 1/4 NPT OT max. 10 bar adjustable approx. 4.5 kg				





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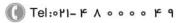


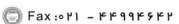
Product detail	Specification			Order No.
€x>	Type DT 50 PN DT 50 PE DT 50 PT DT 50 TT DT 50 TT DT X 70 ST Ex II 2 GD IIB T4 PD II F – S – V Ex II 2 GD IIB T4	Housing material PE (in contact with the product) PE (in contact with the product) PE (in contact with the product) PTFE (in contact with the product) Stainless steel, 1.4404 (in contact with the product) Stainless steel, 1.4571 (in contact with the product		5000-410 5000-411 5000-412 5000-413 5000-414 5000-363
	Pulsation dampener for A	AODD 1" DT 100 / DTX 120	PD II D	
	Housing materials: Diaphragms: Connection medium: Connection air: Operating pressure: Air control: Weight:	PE, PTFE and SS (1.4571) PTFE, EPDM, NBR G 1 IT G 1/4 IT max. 8 bar automatically approx. 2.8 up to 4.6 kg	SS (1.4571) FPM G 3/4 IT 1/4 NPT OT max. 10 bar adjustable approx. 6 kg	
	Type DT 100 PN DT 100 PE DT 100 PT DT 100 TT	Housing material PE (in contact with the product) PE (in contact with the product) PE (in contact with the product) PTFE (in contact with the product)	Diaphragms NBR EPDM PTFE PTFE	5000-415 5000-416 5000-417 5000-418
₩ €x	DT X 120 ST Ex II 2 GD IIB T4 PD II D – S – V Ex II 2 GD IIB T4	Stainless steel, 1.4404 (in contact with the product) Stainless steel, 1.4571 (in contact with the product)		5000-419 5 000-369
	Pulsation dampener PD	I D for AODD 1 1/2" and AODD 2"		
	Housing materials: Diaphragms: Connection medium: Connection air: Operating pressure: Volume: Air control: Weight:	PP, PVDF and stainless steel (1.4571) PTFE, EPDM, NBR and FPM G 2 IT 1/4 NPT OT max. 10 bar approx. 6 dm³, respectively approx. 5.8 dm³ with PT adjustable approx. 7.2 up to 19 kg	FE-diaphragm	
2	Type PDID-P-B	Housing material PP (in contact with the product) PP (not in contact with the product)	Diaphragms NBR	5000-370
	PDID - P - ND PDID - P - T	PP (in contact with the product) PP (in contact with the product) PP (not in contact with the product) PVDE (in contact with the product)	EPDM PTFE	5000-371 5000-372
	PD I D = K = T	PVDF (in contact with the product) PP (not in contact with the product) C-steel (in contact with the product)	PTFE NBR	5000-373 5000-374
W		C-steel (not in contact with the product)		
€ x		Stainless steel, 1.4571 (in contact with the product) Stainless steel, 1.4571 (not in contact with the product) Stainless steel, 1.4571 (in contact with the product) Stainless steel, 1.4571 (not in contact with the product)	FPM	5000-375 - 5000-376 -



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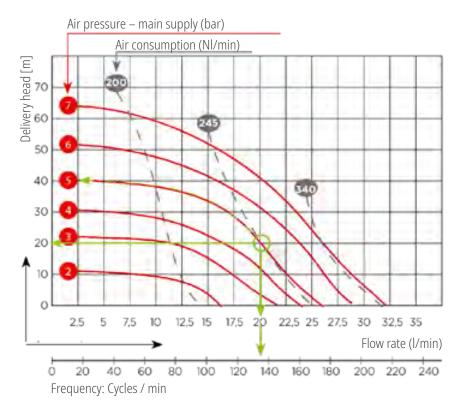
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Advices for selecting a double diaphragm pump

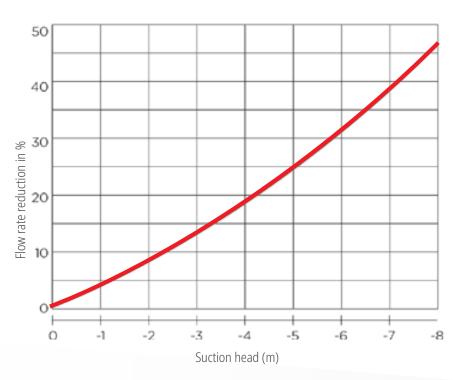


Operating point – Example:

Flow rate 20 l/min – Delivery head 20 m.

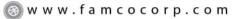
- Air pressure main supply: 5 bar
- Air consumption: approx. 245 Nl/min
- Frequency: approx. 135 cycles/min.

Percentage flow reduction in relation to the suction head



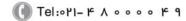
If liquids have to be sucked in from a lower level, this reduces the flow rate of the pump.

The maximum suction head is a function of the system characteristics (hydraulic losses), the physical properties of the liquid (density, viscosity, boiling point) and the pressure difference affecting both diaphragms.



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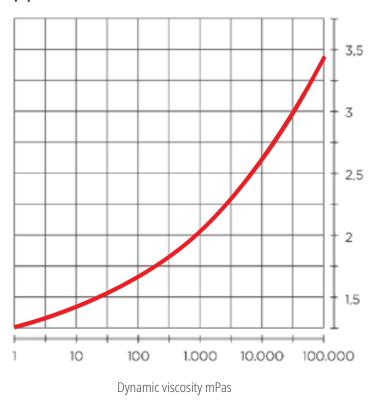
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Viscous liquids

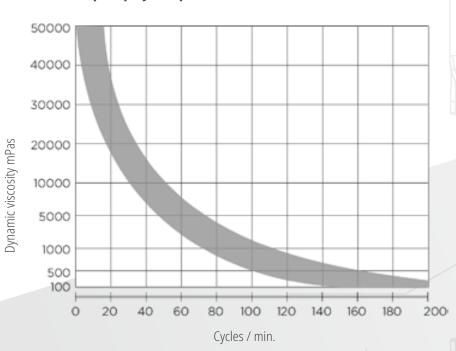
Multiplication coefficient for pipe line diameter



Multiplication coefficient for pipe diameter related to a non-viscous liquid and constant hydraulic losses.

For pumping viscous liquids, we recommend enlarging the suction and pressure side piping/hosing according to the multipliers mentioned.





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