

CUBIC 15

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Product designed and constructed in Italy

PATENTED stall-prevention pneumatic circuit

Operates with non-lubricated air

SELF-PRIMING

Dry operation

ATEX certification for ZONE 1 - ZONE 2

Adjustable operating speed

Extremely versatile

Suitable for pumping fluids in demanding applications

Suitable for continuous use

CUBIC PUMPS CODES ENCODING

ex. ICU15P-NTTPV- -

Internal distributor, Cubic 15, PP casing, NBR air side diaphragm, PTFE product side diaphragm, PTFE balls, PP ball seats, Viton® o-ring.

I	CU15	P	N	T	T	P	V	-	-
INTERNAL DISTRIBUTOR	PUMP MODEL	DAMPER PUMP	AIR-SIDE DIAPHRAGM	PRODUCT-SIDE DIAPHRAGM	BALLS	BALL SEATS	O-RING*	SPLIT MANIFOLD	CONDUCT VERSION
I	MID - Midgetbox (available only in PP/PP+CF) CU15 - Cubic 15	P - Polypropylene EC - ECTFE (Halar) PC - PP+CF	N - NBR	T - PTFE	G - Pyrex® ¹⁾ A - AISI 316 T - PTFE	R - PPS-V K - PEEK ¹⁾ P - PP EC - ECTFE A - AISI 316 I - PE-UHMW	D - EPDM V - Viton® N - NBR T - PTFE	X Split manifold Y NPT thread J Spacer on shaft	C*

1) Only for MIDGETBOX

*C version CONDUCT for standard ATEX ZONE 1Ex II 2/2GD c IIB T135°C

CUBIC 15

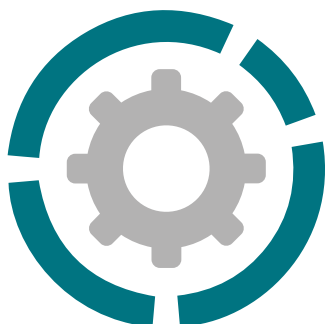
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X
CONDUCT: II 2G Ex h IIb T4 Gb - II 2D Ex h IIIB T135°C Db X



Suction / delivery connections	G 3/8" f(*)
Air fitting	G 3/8" f
Max flow rate*	17 l/min
Max supply air pressure	8 bar
Max head*	80 m
Max negative suction head - dry-running**	3 m
Max negative suction head - pump primed	9,5 m
Max diameter of suspended solids	0.5 mm
Noise level	65 dB
Volume per stroke	10.3 cc

(*) NPT fittings on request

** The value depends on the pump configuration.



PP

Cubic 15



Maximum Dimensions

Height	105 mm
Width	201 mm
Depth	105 mm



Construction materials (casing and manifolds) and net weight

Polypropylene (with glass additive)	1.35 Kg
	Temp. 3°C min. 65°C max

Conductive polypropylene (with carbon additive)	1.35 Kg
	Temp. 3°C min. 65°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE



ECTFE

Cubic 15



Maximum Dimensions

Height	105 mm
Width	201 mm
Depth	105 mm



Construction materials (casing and manifolds) and net weight

ECTFE	1. Kg
	Temp. 3°C min. 95°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE

Any chromatic variations in our polypropylene and PVDF products are due to the special mixtures of the raw materials used. The use of high quantities of, respectively, glass and carbon additives, results in a unique aesthetic that does not affect the quality of the product in any way. Quite the opposite, it highlights its highly technological nature, to the benefit of its performance.

CUBIC 15

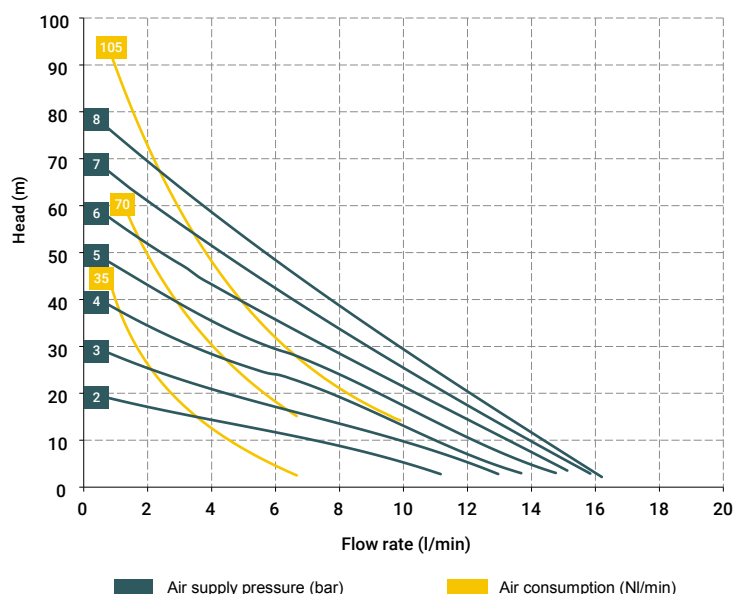
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X



*The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials.

MAIN APPLICATION SECTORS



WATER AND SLUDGE TREATMENT



PACKING, GLUE, PAPER AND PAPER MILLS



CERAMIC, STONE, MARBLE GLASS AND MINING INDUSTRY



GALVANIC AND ELECTRONIC INDUSTRY



CHEMICAL INDUSTRY



GRAPHIC INDUSTRY

T15 distributor material (pneumatic circuit):

- POM

Central material:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)

Diaphragm materials:

- PTFE
- NBR

Caps materials:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF

Balls materials:

- PTFE
- AISI 316
- EPDM

O-ring materials:

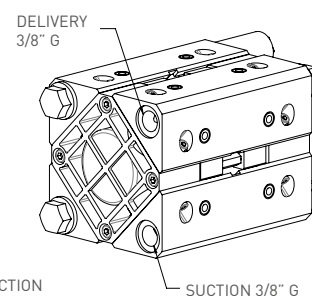
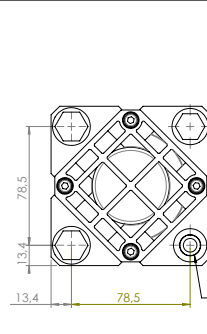
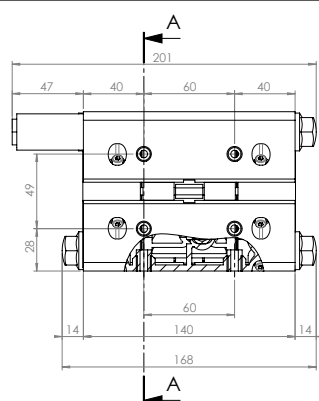
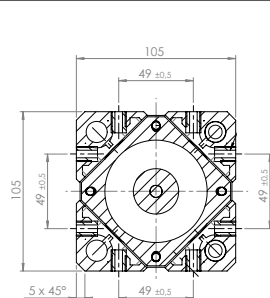
- EPDM
- NBR
- VITON®
- PTFE

Package:

cardboard box - cm 14 x 19 x 14 - weight 0.17 Kg
(the weight refers to the package only, without the pump)

Accessories:

- Equaflex 51
(For the dampener materials refer to the relative technical sheet)
- Foot valve:
- VALVFN000038APP (POLYPROPYLENE)
- VALVFN000038AFV (PVDF)
- Air regulation kit W1000-8-G
- Batch controller
- Cycle counter



SELF-PRIMING USE



UNDER HEAD USE



DRUM TRANSFER



BOXER 7

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



- Product designed and constructed in Italy
- PATENTED stall-prevention pneumatic circuit
- Operates with non-lubricated air
- SELF-PRIMING
- Dry operation
- ATEX certification for ZONE 1 - ZONE 2
- IECEx certification
- Adjustable operating speed
- Extremely versatile
- Suitable for pumping liquids with high viscosity and demanding applications
- Possibility of pumping fluids containing suspended solids
- Possibility of suspended installation
- Manifolds can be supplied with stainless steel reinforcement rings for pumps in PP – PP+CF – PVDF
- Suitable for continuous use

BOXER 7

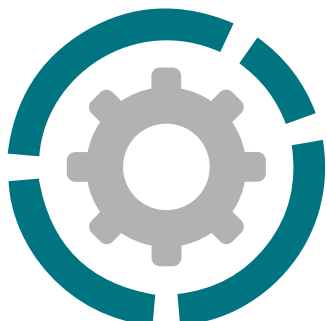
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



Suction / delivery connections	G 1/4" f(*)
Air fitting	G 1/8" f
Max flow rate*	9 l/min
Max supply air pressure	8 bar
Max head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - pump primed	9,5 m
Max diameter of suspended solids	0.5 mm
Noise level	65 dB
Volume per stroke	3.2 cc

(*) NPT fittings on request

** The value depends on the pump configuration.



PP

Boxer 7



Maximum Dimensions

Height	120 mm
Width	138 mm
Depth	68 mm



Construction materials (casing and manifolds) and net weight

Polypropylene (with glass additive)	0.7 Kg
	Temp. 3°C min.
	65°C max
Conductive polypropylene (with carbon additive)	0.7 Kg
	Temp. 3°C min.
	65°C max



PVDF

Boxer 7



Maximum Dimensions

Height	120 mm
Width	138 mm
Depth	68 mm



Construction materials (casing and manifolds) and net weight

PVDF	0.7 Kg
	Max 3°C min.
	95°C max

BOXER 7

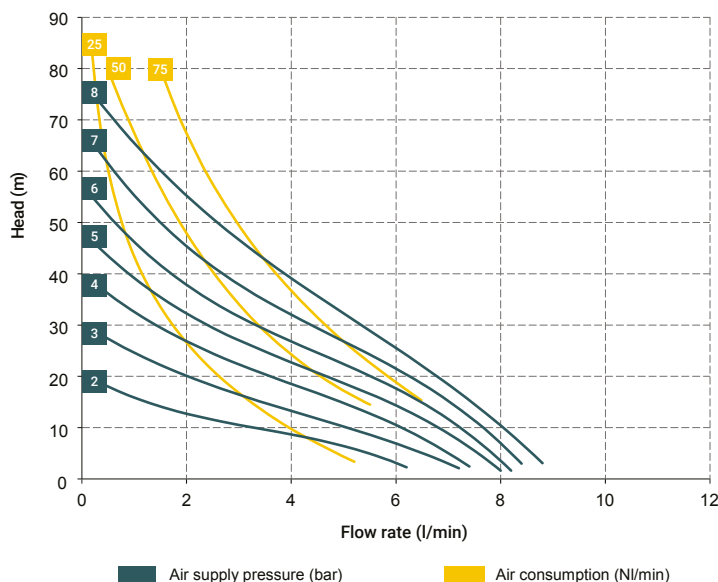
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



*The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials.

Any chromatic variations in our polypropylene and PVDF products are due to the special mixtures of the raw materials used. The use of high quantities of, respectively, glass and carbon additives, results in a unique aesthetic that does not affect the quality of the product in any way. Quite the opposite, it highlights its highly technological nature, to the benefit of its performance.

T10 distributor material (pneumatic circuit):

- POM

Central material:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)

Diaphragm materials:

- PTFE
- NBR

Caps materials:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF

Balls materials:

- PTFE
- AISI 316
- EPDM

O-ring materials

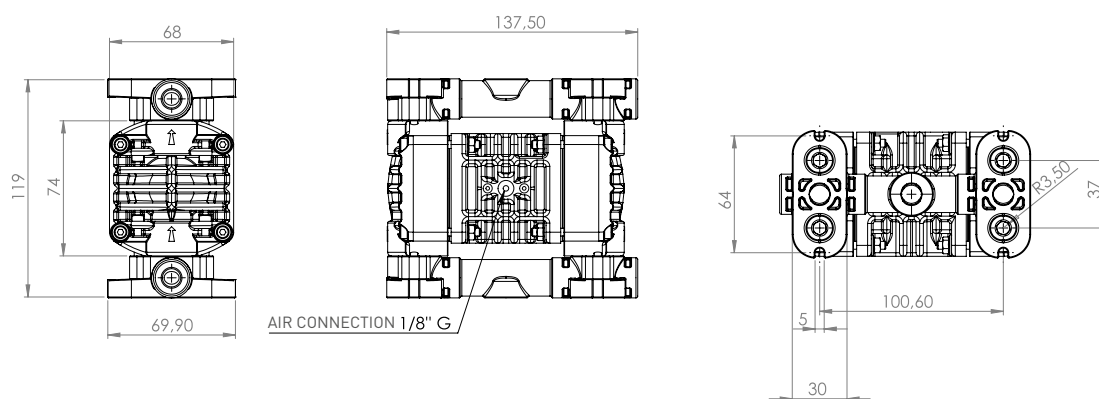
- EPDM
- NBR
- VITON®
- PTFE

Package:

cardboard box – cm 14 x 19 x 14 – weight 0.17 Kg
(the weight refers to the package only, without the pump)

Accessories:

- Equaflex 51
(For the dampener materials refer to the relative technical sheet)
- Air regulation kit W1000-8-G



MAIN APPLICATION SECTORS



WATER AND SLUDGE
TREATMENT



PACKING, GLUE,
PAPER AND PAPER MILLS



CERAMIC, STONE, MAR-
BLE, GLASS AND MINING
INDUSTRY



AUTOMOTIVE



PAINT INDUSTRY



GALVANIC AND ELECTRONIC
INDUSTRY



CHEMICAL
INDUSTRY



GRAPHIC INDUSTRY

BOXER 7

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db

BOXER PUMPS CODES ENCODING

ex. IB50-P-HTTPV--

Internal distributor, Boxer 50, PP casing, Hytrel® air side diaphragm, PTFE product side diaphragm, PTFE balls, PP ball seats, Viton® o-ring.

I	IB50-	P	H	T	T	P	V	-	-
INTERNAL DISTRIBUTOR	PUMP MODEL	DAMPER PUMP	AIR-SIDE DIAPHRAGM	PRODUCT-SIDE DIAPHRAGM	BALLS	BALL SEATS	O-RING	SPLIT MANIFOLD	CONDUCT VERSION
I	B7 Boxer 7 B15 Boxer 15 MICR Microboxer MIN Miniboxer B50 Boxer 50 B81 Boxer 81 B90 Boxer 90 B100 Boxer 100 B150 Boxer 150 B251 Boxer 251 B252 Boxer 252 B502 Boxer 502 B522 Boxer 522 B503 Boxer 503	P - Polypropylene FC - PVDF+CF PC - PP+CF AL - Aluminium A - AISI 316	N - NBR D - EPDM H - Hytrel M - Santoprene	T - PTFE	T - PTFE A - AISI 316 D - EPDM N - NBR	P - Polypropylene F - PVDF A - AISI 316 I - PE-UHMW R - PPS-V L - Aluminium	D - EPDM V - Viton® N - NBR T - PTFE S - Silicone	X* 3* Y* J* W*	C* Z*

*X = split manifold

*3 = 3° central hole on manifold

*Y = "NPT" thread

*J = spacer on shaft

*W = clamp manifold

(all only on request)

C = version CONDUCT for standard ATEX ZONE 1 Ex II 2/2GD c IIB T135°C

Z = version for standard IECEx

(both only on request)

SELF-PRIMING USE



UNDER HEAD USE



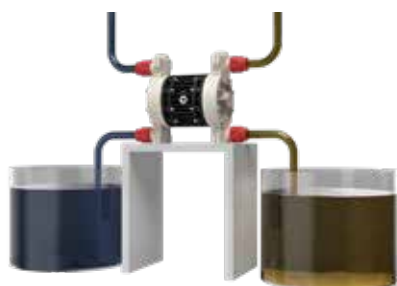
IMMERSED



DRUM TRANSFER



SPLIT SUCTION and DELIVERY



SPLIT SUCTION



BOXER 15

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



- Product designed and constructed in Italy
- PATENTED stall-prevention pneumatic circuit
- Operates with non-lubricated air
- SELF-PRIMING
- Dry operation
- ATEX certification for ZONE 1 - ZONE 2
- IECEx certification
- Adjustable operating speed
- Extremely versatile
- Suitable for pumping liquids with high viscosity and demanding applications
- Possibility of pumping fluids containing suspended solids
- Possibility of suspended installation
- Manifolds can be supplied with stainless steel reinforcement rings for pumps in PP – PP+CF – PVDF
- Suitable for continuous use

BOXER 15

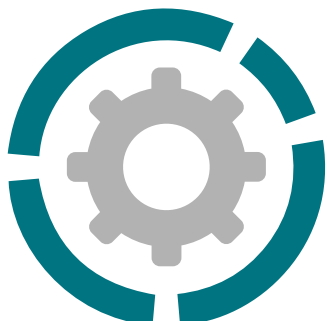
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



Suction / delivery connections	G 3/8" f(*)
Air fitting	G 3/8" f
Max flow rate*	17 l/min
Max supply air pressure	8 bar
Max head*	80 m
Max negative suction head - dry-running**	3 m
Max negative suction head - pump primed	9,5 m
Max diameter of suspended solids	0.5 mm
Noise level	65 dB
Volume per stroke	10.3 cc

(*) clamp or NPT available only on request

** The value depends on the pump configuration.



PP

Boxer 15



Maximum Dimensions

Height	151 mm
Width	148 mm
Depth	80 mm



Construction materials (casing and manifolds) and net weight

Polypropylene (with glass additive)	1.1 Kg
	Max 3°C min.
	65°C max

Conductive polypropylene (with carbon additive)	1.1 Kg
	Max 3°C min.
	65°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE



PVDF

Boxer 15



Maximum Dimensions

Height	151 mm
Width	148 mm
Depth	80 mm



Construction materials (casing and manifolds) and net weight

PVDF	1.38 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE

BOXER 15

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



ALU

Boxer 15



Maximum Dimensions

Height	141 mm
Width	153 mm
Depth	80 mm



Construction materials (casing and manifolds) and net weight

ALU	1.9 Kg
	Max 3°C min.
	95°C max



AISI 316 L steel

Boxer 15



Maximum Dimensions

Height	141 mm
Width	153 mm
Depth	80 mm



Construction materials (casing and manifolds) and net weight

AISI 316 L	2.4 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

DUPLEX/W.DUPLEX

BOXER 15

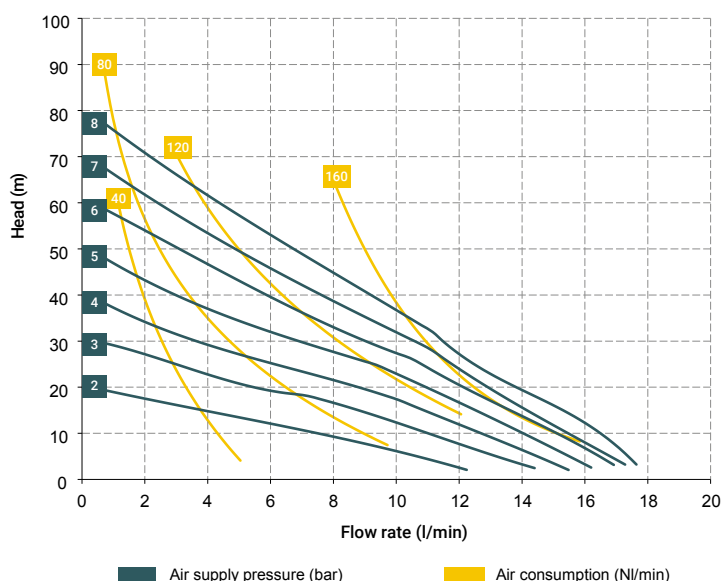
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



*The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials.

Accessories:

- Equaflux 51

(For the dampener materials refer to the relative technical sheet)

Foot valve:

VALVFN000038APP (POLYPROPYLENE)

VALVFN000038AFV (PVDF)

- Air regulation kit W1000-8-G
- Batch controller
- Cycle counter
- Reinforcement rings

Flange kit (DIN flange - ANSI available on request):

KITFLANG-B015 (AISI 316) available on request

KITFLANG-B015 (ALUMINIUM) available on request

KITFLANG-B015 (POLYPROPYLENE)

KITFLANG-B015F (PVDF)

T15 distributor material (pneumatic circuit):

- POM

Central material:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- Aluminium
- DUPLEX/S.DUPLEX

Diaphragm materials:

- PTFE
- NBR

Caps materials:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF
- PPS
- Natural ECTFE
- AISI 316

Balls materials:

- PTFE
- AISI 316
- EPDM

O-ring materials

- EPDM
- NBR
- VITON®
- PTFE

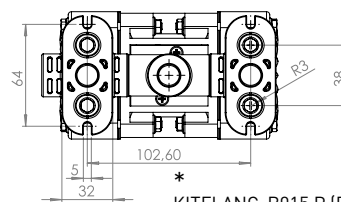
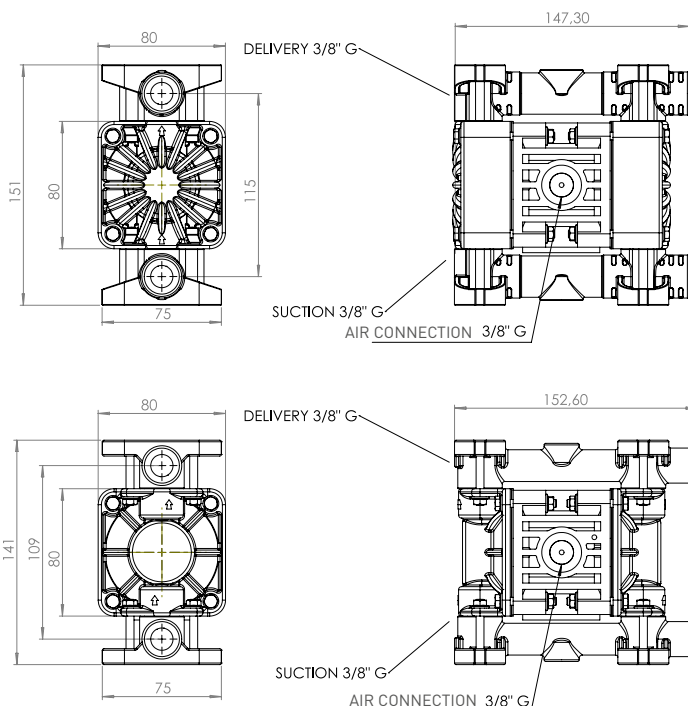
Package:

cardboard box - cm 14 x 20 x 20 - weight 0.4 Kg

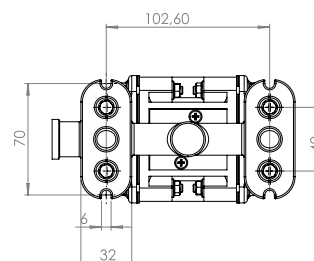
(the weight refers to the package only, without the pump)

PP / PVDF / ALU

AISI



KITFLANG-B015 P (Polipropilene)
KITFLANG-B015 F (PVDF)
KITFLANG-B015 A (AISI 316, su richiesta)
KITFLANG-B015 AL (Alluminio, su richiesta)



BOXER 15

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db

BOXER PUMPS CODES ENCODING

ex. IB50-P-HTTPV--

Internal distributor, Boxer 50, PP casing, Hytrel® air side diaphragm, PTFE product side diaphragm, PTFE balls, PP ball seats, Viton® o-ring.

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INTERNAL DISTRIBUTOR	PUMP MODEL	DAMPER PUMP	AIR-SIDE DIAPHRAGM	PRODUCT-SIDE DIAPHRAGM	BALLS	BALL SEATS	O-RING	SPLIT MANIFOLD	CONDUCT VERSION
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*X = split manifold

*3 = 3° central hole on manifold

*Y = "NPT" thread

*J = spacer on shaft

*W = clamp manifold

(all only on request)

C = version CONDUCT for standard ATEX ZONE 1 Ex II 2/2GD c IIB T135°C

Z = version for standard IECEx

(both only on request)

SELF-PRIMING USE



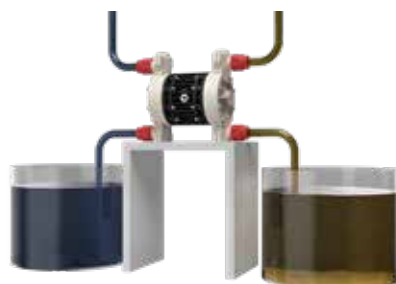
UNDER HEAD USE



DRUM TRANSFER



SPLIT SUCTION
and DELIVERY



SPLIT SUCTION



MAIN APPLICATION SECTORS



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TREATMENT



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CERAMIC, STONE, MAR-
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INDUSTRY



GALVANIC AND ELECTRONIC
INDUSTRY



CHEMICAL INDUSTRY



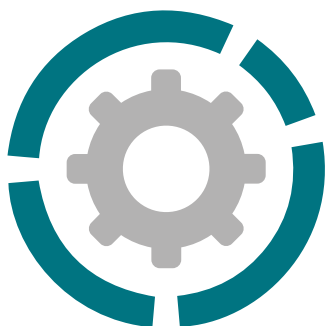
GRAPHIC INDUSTRY

MICROBOXER

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



DEBEM
MADE IN ITALY



Suction / delivery connections	G 1/2" f(*)
Air fitting	G 1/4" f
Max flow rate*	35 l/min
Max supply air pressure	8 bar
Max head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - pump primed	9,5 m
Max diameter of suspended solids	2 mm
Noise level	65 dB
Volume per stroke	30 cc

(*) clamp or NPT available only on request

** The value depends on the pump configuration.

CE



■ Product designed and constructed in Italy

■ PATENTED stall-prevention pneumatic circuit

■ Operates with non-lubricated air

■ SELF-PRIMING

■ Dry operation

■ ATEX certification for ZONE 1 - ZONE 2

■ IECEx certification

■ Adjustable operating speed

■ Extremely versatile

■ Suitable for pumping liquids with high viscosity and demanding applications

■ Possibility of pumping fluids containing suspended solids

■ Possibility of suspended installation

■ Manifolds can be supplied with stainless steel reinforcement rings for pumps in PP – PP+CF – PVDF

■ Suitable for continuous use

Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



PP

Microboxer



Maximum Dimensions

Height	168 mm
Width	165 mm
Depth	120 mm



Construction materials (casing and manifolds) and net weight

Polypropylene (with glass additive)	1.6 Kg
	Max 3°C min.
	65°C max

Conductive polypropylene (with carbon additive)	1.6 Kg
	Max 3°C min.
	65°C max



Construction materials (casing and manifolds) available on request

POMc

UHMWPE



PVDF

Microboxer



Maximum Dimensions

Height	168 mm
Width	165 mm
Depth	120 mm



Construction materials (casing and manifolds) and net weight

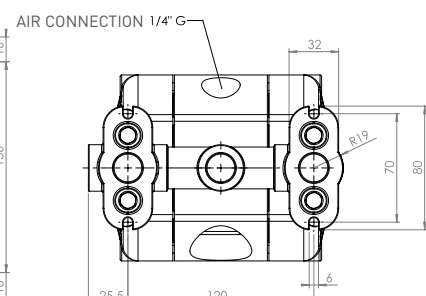
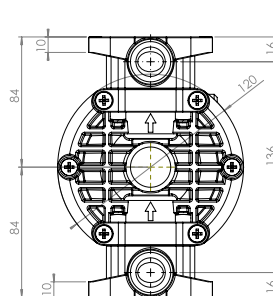
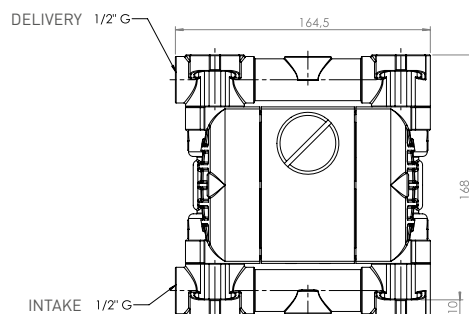
PVDF	1.98 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

POMc

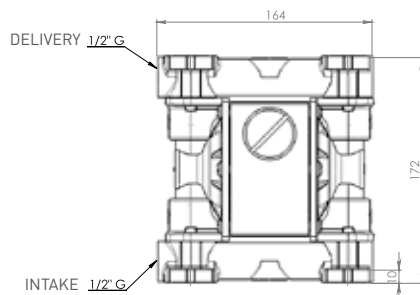
UHMWPE



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



ALU

Microboxer

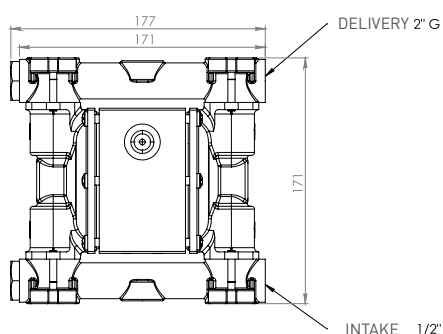
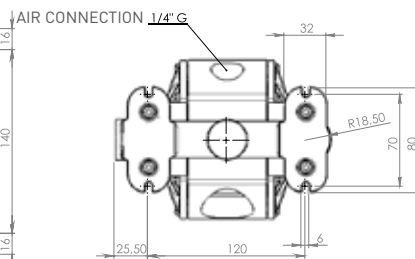
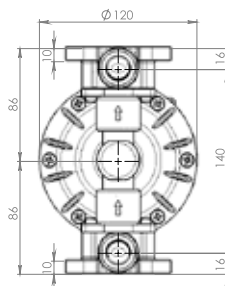
Maximum Dimensions

Height	172 mm
Width	164 mm
Depth	120 mm



Construction materials (casing and manifolds) and net weight

ALU	2.1 Kg
	Max 3°C min.
	95°C max



AISI 316 L

Microboxer

Maximum Dimensions

Height	171 mm
Width	177 mm
Depth	120 mm



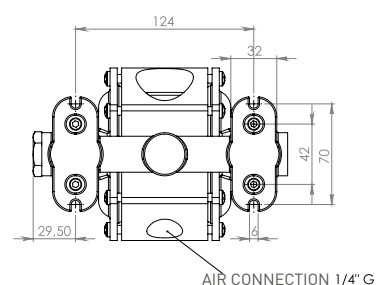
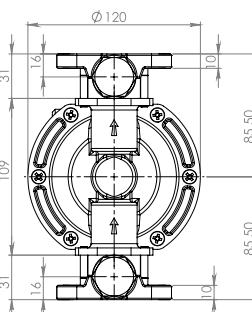
Construction materials (casing and manifolds) and net weight

AISI 316 L	3.75 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

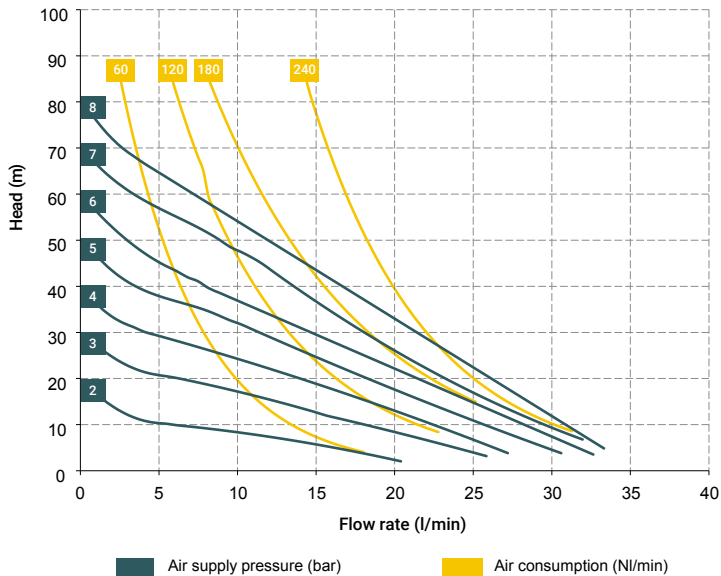
DUPLEX/W.DUPLEX



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



*The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials.

Accessories:

- Equaflux 51

(For the dampener materials refer to the relative technical sheet)

Foot valve:

VALVFN000012APP (POLYPROPYLENE)
VALVFN000012AFV (PVDF)

- Air regulation kit W1000-8-G
- Batch controller
- Cycle counter
- Reinforcement rings

Flange kit (DIN flange - ANSI available on request):

KITFLANG-MINIP (POLYPROPYLENE)
KITFLANG-MINIF (PVDF)
KITFLANG-MINIA (AISI 316)
KITFLANG-B050AL (ALUMINIUM)

MONOSTABLE distributor material

(Distributor + shuttle) - (pneumatic circuit)

- POM

Central material:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- Aluminium
- AISI 316
- DUPLEX/S.DUPLEX

Diaphragm materials:

- PTFE
- HYTREL
- SANTOPRENE
- NBR
- EPDM

Caps materials:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF
- PPS
- Natural ECTFE
- AISI 316

Balls materials:

- PTFE
- AISI 316
- EPDM
- NBR

O-ring materials:

- EPDM
- NBR
- VITON®
- PTFE

Package:

cardboard box - cm 14 x 20 x 20 - weight 0.4 Kg
(the weight refers to the package only, without the pump)

Any chromatic variations in our polypropylene and PVDF products are due to the special mixtures of the raw materials used. The use of high quantities of, respectively, glass and carbon additives, results in a unique aesthetic that does not affect the quality of the product in any way. Quite the opposite, it highlights its highly technological nature, to the benefit of its performance.

MAIN APPLICATION SECTORS



PRODUCTION AND STORAGE
OF BIODIESEL



CHEMICAL INDUSTRY



PAINT INDUSTRY



GALVANIC AND ELECTRONIC
INDUSTRY



GOLD PROCESSING
INDUSTRY



GRAPHIC INDUSTRY

Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db

BOXER PUMPS CODES ENCODING

ex. IB50-P-HTTPV--

Internal distributor, Boxer 50, PP casing, Hytrel® air side diaphragm, PTFE product side diaphragm, PTFE balls, PP ball seats, Viton® o-ring.

I	B50-	P	H	T	T	P	V	-	-
INTERNAL DISTRIBUTOR	PUMP MODEL	DAMPER PUMP	AIR-SIDE DIAPHRAGM	PRODUCT-SIDE DIAPHRAGM	BALLS	BALL SEATS	O-RING	SPLIT MANIFOLD	CONDUCT VERSION
I	B7 Boxer 7 B15 Boxer 15 MICR Microboxer MIN Miniboxer B50 Boxer 50 B81 Boxer 81 B90 Boxer 90 B100 Boxer 100 B150 Boxer 150 B251 Boxer 251 B252 Boxer 252 B502 Boxer 502 B522 Boxer 522 B503 Boxer 503	P - Polypropylene FC - PVDF+CF PC - PP+CF AL - Aluminium A - AISI 316	N - NBR D - EPDM H - Hytrel M - Santoprene	T - PTFE	T - PTFE A - AISI 316 D - EPDM N - NBR	P - Polypropylene F - PVDF A - AISI 316 I - PE-UHMW R - PPS-V L - Aluminium	D - EPDM V - Viton® N - NBR T - PTFE S - Silicone	X* 3* Y* J* W*	C* Z*

*X = split manifold

*3 = 3° central hole on manifold

*Y = "NPT" thread

*J = spacer on shaft

*W = clamp manifold

(all only on request)

C = version CONDUCT for standard ATEX ZONE 1 Ex II 2/2GD c IIB T135°C

Z = version for standard IECEx
(both only on request)

SELF-PRIMING USE



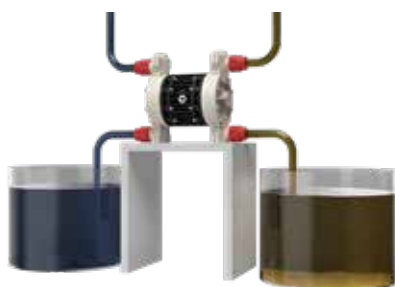
UNDER HEAD USE



DRUM TRANSFER



SPLIT SUCTION and DELIVERY

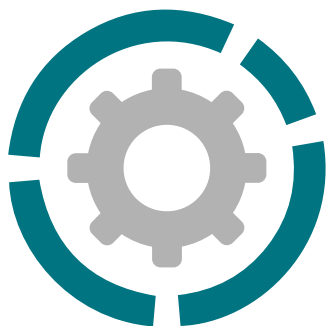


SPLIT SUCTION



BOXER 50 / MINIBOXER

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Suction / delivery connections	G 1/2" or DN 15(*)
Air fitting	G 3/8" f
Max flow rate*	60 l/min
Max supply air pressure	8 bar
Max head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - pump primed	9,5 m
Max diameter of suspended solids	4 mm
Noise level	70 dB
Volume per stroke	67 cc

(*) NPT fittings on request

** The value depends on the pump configuration.

CE



Product designed and constructed in Italy

PATENTED stall-prevention pneumatic circuit

Operates with non-lubricated air

SELF-PRIMING

Dry operation

ATEX certification for ZONE 1 - ZONE 2

IECEx certification

Adjustable operating speed

Extremely versatile

Suitable for pumping liquids with high viscosity and demanding applications

Possibility of pumping fluids containing suspended solids

Possibility of suspended installation

Manifolds can be supplied with stainless steel reinforcement rings for pumps in PP - PP+CF - PVDF

Suitable for continuous use

BOXER 50 / MINIBOXER

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



PP

Boxer 50



Maximum Dimensions

Height	241 mm
Width	247 mm
Depth	153 mm



Construction materials (casing and manifolds) and net weight

Polypropylene (with glass additive)	3.75 Kg
	Max 3°C min.
	65°C max

Conductive polypropylene (with carbon additive)	3.75 Kg
	Max 3°C min.
	65°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE



PVDF

Boxer 50



Maximum Dimensions

Height	241 mm
Width	247 mm
Depth	153 mm



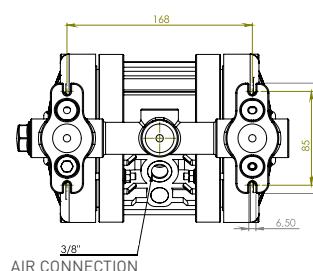
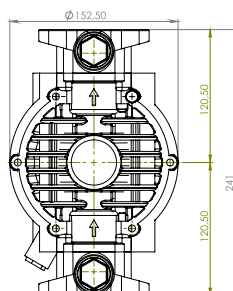
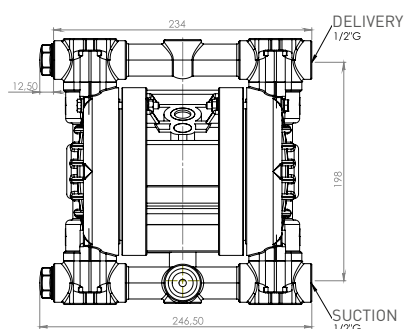
Construction materials (casing and manifolds) and net weight

PVDF	4.25 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE



BOXER 50 / MINIBOXER

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



ALU

Boxer 50



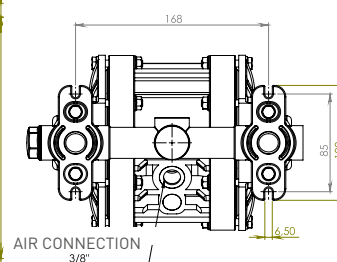
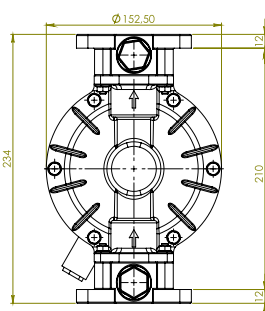
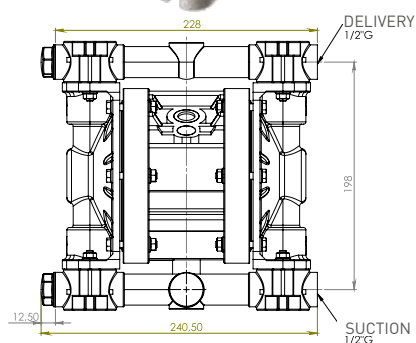
Maximum Dimensions

Height	234 mm
Width	241 mm
Depth	153 mm



Construction materials (casing and manifolds) and net weight

ALU	4.07 Kg
	Max 3°C min.
	95°C max



MINIBOXER

AISI 316 L



Maximum Dimensions

Height	232 mm
Width	230 mm
Depth	153 mm



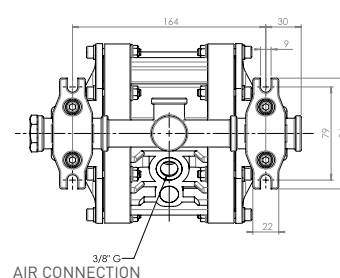
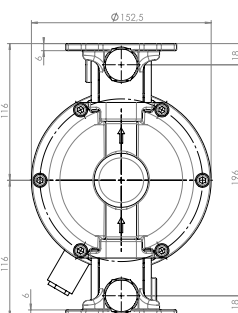
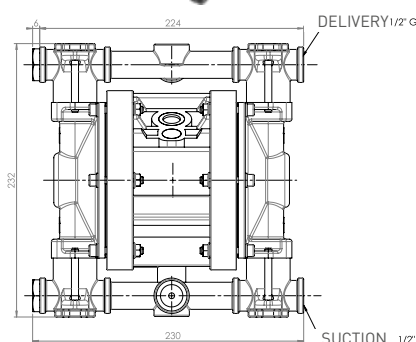
Construction materials (casing and manifolds) and net weight

AISI 316 L	6.3 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

DUPLEX/W.DUPLEX



BOXER 50 / MINIBOXER

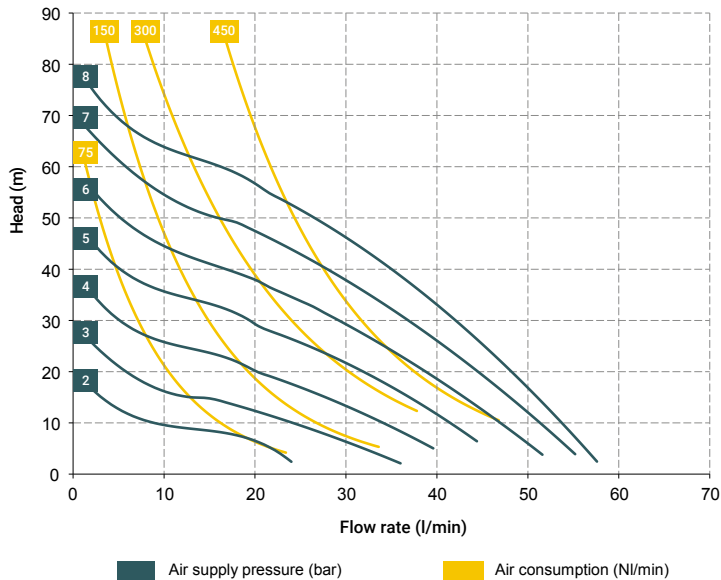
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



*The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials.

Accessories:

- Equaflex 100

(For the dampener materials refer to the relative technical sheet)

Foot valve:

VALVFN000012APP (POLYPROPYLENE)
VALVFN000012AFV (PVDF)

- Air regulation kit W1000-8-G
- Batch controller
- Cycle counter
- Reinforcement rings

Flange kit (DIN flange - ANSI available on request):

KITFLANG-MINIP (POLYPROPYLENE)
KITFLANG-MINIF (PVDF)
KITFLANG-MINIA (AISI316)
KITFLANG-B050AL (ALUMINIUM)

T20 distributor material (pneumatic circuit):

- POM

Central material:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- Aluminium
- DUPLEX/S.DUPLEX

Diaphragm materials:

- PTFE
- HYTREL
- SANTOPRENE
- NBR
- EPDM

Caps materials:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF
- PPS
- Natural ECTFE
- AISI 316

Balls materials:

- PTFE
- AISI 316
- EPDM
- NBR

O-ring materials:

- EPDM
- NBR
- VITON®
- PTFE

Package:

cardboard box – cm 23 x 31 x 33 – weight 0.8 Kg
(the weight refers to the package only, without the pump)

Any chromatic variations in our polypropylene and PVDF products are due to the special mixtures of the raw materials used. The use of high quantities of, respectively, glass and carbon additives, results in a unique aesthetic that does not affect the quality of the product in any way. Quite the opposite, it highlights its highly technological nature, to the benefit of its performance.

MAIN APPLICATION SECTORS



AUTOMOTIVE



PRODUCTION AND STORAGE
OF BIODIESEL



PAINT INDUSTRY



CHEMICAL INDUSTRY



OIL & GAS



GRAPHIC INDUSTRY



CERAMIC, STONE, MARBLE
GLASS AND MINING
INDUSTRY



GALVANIC AND ELECTRONIC
INDUSTRY



GOLD PROCESSING INDUSTRY



MECHANICAL AND METAL-
LURGIC INDUSTRY



PACKING, GLUE,
PAPER AND PAPER MILLS



BOXER 50



MINIBOXER

BOXER 50 / MINIBOXER

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db

BOXER PUMPS CODES ENCODING

ex. IB50-P-HTTPV--

Internal distributor, Boxer 50, PP casing, Hytrel® air side diaphragm, PTFE product side diaphragm, PTFE balls, PP ball seats, Viton® o-ring.

I	IB50-	P	H	T	T	P	V	-	-
INTERNAL DISTRIBUTOR	PUMP MODEL	DAMPER PUMP	AIR-SIDE DIAPHRAGM	PRODUCT-SIDE DIAPHRAGM	BALLS	BALL SEATS	O-RING	SPLIT MANIFOLD	CONDUCT VERSION
I	B7 Boxer 7 B15 Boxer 15 MICR Microboxer MIN Miniboxer B50 Boxer 50 B81 Boxer 81 B90 Boxer 90 B100 Boxer 100 B150 Boxer 150 B251 Boxer 251 B252 Boxer 252 B502 Boxer 502 B522 Boxer 522 B503 Boxer 503	P - Polypropylene FC - PVDF+CF PC - PP+CF AL - Aluminium A - AISI 316	N - NBR D - EPDM H - Hytrel M - Santoprene	T - PTFE	T - PTFE A - AISI 316 D - EPDM N - NBR	P - Polypropylene F - PVDF A - AISI 316 I - PE-UHMW R - PPS-V L - Aluminium	D - EPDM V - Viton® N - NBR T - PTFE S - Silicone	X* 3* Y* J* W*	C* Z*

*X = split manifold

*3 = 3° central hole on manifold

*Y = "NPT" thread

*J = spacer on shaft

*W = clamp manifold

(all only on request)

C = version CONDUCT for standard ATEX ZONE 1 Ex II 2/2GD c IIB T135°C

Z = version for standard IECEx
(both only on request)

SELF-PRIMING USE



UNDER HEAD USE



IMMERSED



DRUM TRANSFER



SPLIT SUCTION and DELIVERY

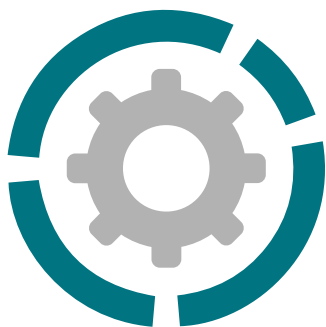


SPLIT SUCTION



BOXER 81 / BOXER 90

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



(*) NPT fittings on request

** The value depends on the pump configuration.

Suction / delivery connections	G 1" or DN 25(*)
Air fitting	G 3/8" f
Max flow rate*	110 l/min
Max supply air pressure	8 bar
Max head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - pump primed	9,5 m
Max diameter of suspended solids	4 mm
Noise level	70 dB
Volume per stroke	100 cc

CE



- Product designed and constructed in Italy
- PATENTED stall-prevention pneumatic circuit
- Operates with non-lubricated air
- SELF-PRIMING
- Dry operation
- ATEX certification for ZONE 1 - ZONE 2
- IECEx certification
- Adjustable operating speed
- Extremely versatile
- Suitable for pumping liquids with high viscosity and demanding applications
- Possibility of pumping fluids containing suspended solids
- Possibility of suspended installation
- Manifolds can be supplied with stainless steel reinforcement rings for pumps in PP - PP+CF - PVDF
- Suitable for continuous use

BOXER 81 / BOXER 90

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



PP

Boxer 81



Maximum Dimensions

Height	274 mm
Width	308 mm
Depth	170 mm



Construction materials (casing and manifolds) and net weight

Polypropylene (with glass additive)	5 Kg
	Max 3°C min. 65°C max
Conductive polypropylene (with carbon additive)	5 Kg
	Max 3°C min. 65°C max



Construction materials (casing and manifolds) available on request

POMc

UHMWPE



PVDF

Boxer 81



Maximum Dimensions

Height	274 mm
Width	308 mm
Depth	170 mm



Construction materials (casing and manifolds) and net weight

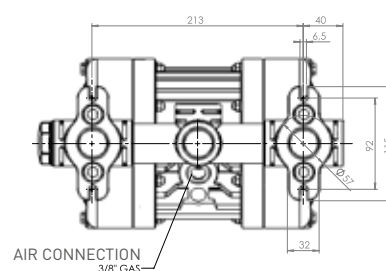
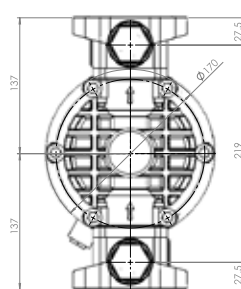
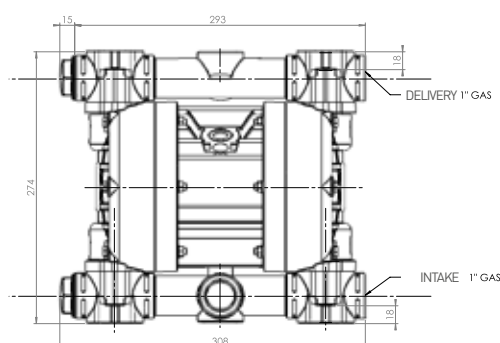
PVDF	6 Kg
	Max 3°C min. 95°C max



Construction materials (casing and manifolds) available on request

POMc

UHMWPE



BOXER 81 / BOXER 90

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



Electropolished AISI 316

Boxer 81



Maximum Dimensions

Height	275 mm
Width	305 mm
Depth	170 mm



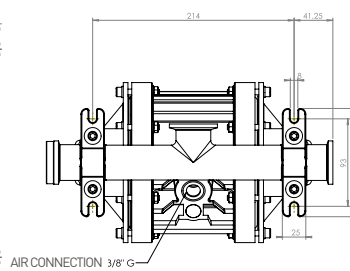
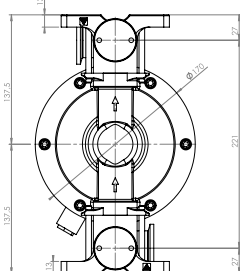
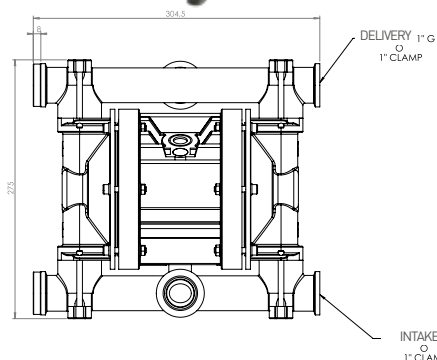
Construction materials (casing and manifolds) and net weight

Electropolished AISI 316	10.6 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE



BOXER 90

ALU



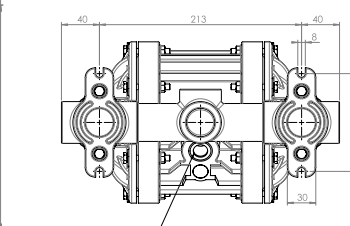
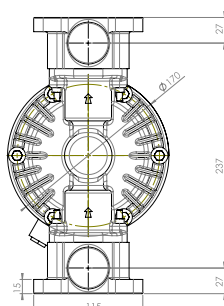
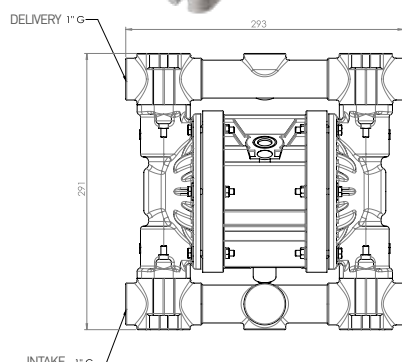
Maximum Dimensions

Height	291 mm
Width	293 mm
Depth	170 mm



Construction materials (casing and manifolds) and net weight

ALU	7 Kg
	Max 3°C min.
	95°C max



BOXER 81 / BOXER 90

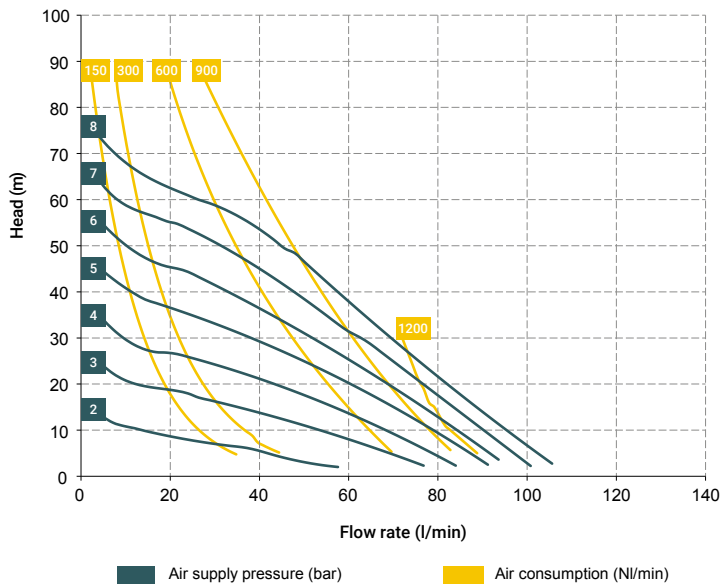
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



*The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials.

Accessories:

- Equaflex 100
- (For the dampener materials refer to the relative technical sheet)
- Truck model 01

Foot valve:

VALVFN0000100APP (POLYPROPYLENE)
VALVFN0000100AFV (PVDF)

- Air regulation kit W3000-10-G
- Batch controller
- Cycle counter
- Reinforcement rings

Flange kit (DIN flange - ANSI available on request):

KITFLANG-B081P (POLYPROPYLENE)
KITFLANG-B081F (PVDF)
KITFLANG-B080A (AISI 316)
KITFLANG-B081AL (ALUMINIUM)

T20 distributor material (pneumatic circuit):

- POM

Central material:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- Aisi 316
- Aluminum
- DUPLEX/S.DUPLEX

Diaphragm materials:

- PTFE
- HYTREL
- SANTOPRENE
- NBR
- EPDM

Caps materials:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF
- PPS
- AISI 316

Balls materials:

- PTFE
- AISI 316
- EPDM
- NBR

O-ring materials:

- EPDM
- NBR
- VITON®
- PTFE

Package:

cardboard box – cm 24 x 39 x 37 – weight 1.2 Kg
(the weight refers to the package only, without the pump)

Any chromatic variations in our polypropylene and PVDF products are due to the special mixtures of the raw materials used. The use of high quantities of, respectively, glass and carbon additives, results in a unique aesthetic that does not affect the quality of the product in any way. Quite the opposite, it highlights its highly technological nature, to the benefit of its performance.

MAIN APPLICATION SECTORS



AUTOMOTIVE



PRODUCTION AND STORAGE
OF BIODIESEL



WATER AND SLUDGE
TREATMENT



CHEMICAL
INDUSTRY



OIL & GAS



GRAPHIC INDUSTRY



CERAMIC, STONE, MARBLE
GLASS AND MINING
INDUSTRY



PAINT
INDUSTRY



GOLD PROCESSING
INDUSTRY



PACKING, GLUE,
PAPER AND PAPER MILLS



TEXTILE AND LEATHER
INDUSTRY



MECHANICAL AND METAL-
LURGIC INDUSTRY



GALVANIC AND ELECTRONIC
INDUSTRY

BOXER 81 / BOXER 90

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db

BOXER PUMPS CODES ENCODING

ex. IB50-P-HTTPV--

Internal distributor, Boxer 50, PP casing, Hytrel® air side diaphragm, PTFE product side diaphragm, PTFE balls, PP ball seats, Viton® o-ring.

I	IB50-	P	H	T	T	P	V	-	-
INTERNAL DISTRIBUTOR	PUMP MODEL	DAMPER PUMP	AIR-SIDE DIAPHRAGM	PRODUCT-SIDE DIAPHRAGM	BALLS	BALL SEATS	O-RING	SPLIT MANIFOLD	CONDUCT VERSION
I	B7 Boxer 7 B15 Boxer 15 MICR Microboxer MIN Miniboxer B50 Boxer 50 B81 Boxer 81 B90 Boxer 90 B100 Boxer 100 B150 Boxer 150 B251 Boxer 251 B252 Boxer 252 B502 Boxer 502 B522 Boxer 522 B503 Boxer 503	P - Polypropylene FC - PVDF+CF PC - PP+CF AL - Aluminium A - AISI 316	N - NBR D - EPDM H - Hytrel M - Santoprene	T - PTFE	T - PTFE A - AISI 316 D - EPDM N - NBR	P - Polypropylene F - PVDF A - AISI 316 I - PE-UHMW R - PPS-V L - Aluminium	D - EPDM V - Viton® N - NBR T - PTFE S - Silicone	X* 3* Y* J* W*	C* Z*

*X = split manifold

*3 = 3° central hole on manifold

*Y = "NPT" thread

*J = spacer on shaft

*W = clamp manifold

(all only on request)

C = version CONDUCT for standard ATEX ZONE 1 Ex II 2/2GD c IIB T135°C

Z = version for standard IECEx
(both only on request)

SELF-PRIMING USE



UNDER HEAD USE



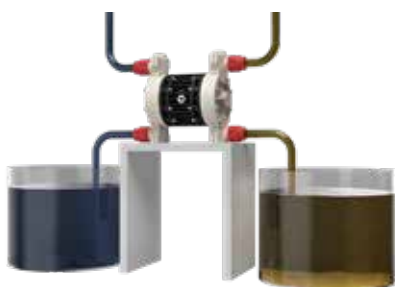
IMMERSED



DRUM TRANSFER



SPLIT SUCTION and DELIVERY



SPLIT SUCTION

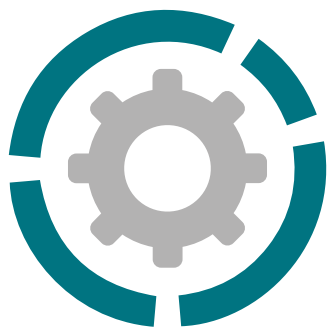


BOXER 100

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



DEBEM
MADE IN ITALY



Suction / delivery connections	G 1" or DN 25(*)
Air fitting	G 3/8" f
Max flow rate*	160 l/min
Max supply air pressure	8 bar
Max head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - pump primed	9,5 m
Max diameter of suspended solids	4 mm
Noise level	75 dB
Volume per stroke	222 cc

(*) NPT fittings on request

** The value depends on the pump configuration.



Product designed and constructed in Italy

PATENTED stall-prevention pneumatic circuit

Operates with non-lubricated air

SELF-PRIMING

Dry operation

ATEX certification for ZONE 1 - ZONE 2

IECEx certification

Adjustable operating speed

Extremely versatile

Suitable for pumping liquids with high viscosity and demanding applications

Possibility of pumping fluids containing suspended solids

Possibility of suspended installation

Manifolds can be supplied with stainless steel reinforcement rings for pumps in PP – PP+CF – PVDF

Suitable for continuous use

BOXER 100

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



PP

Boxer 100



Maximum Dimensions

Height	325 mm
Width	329 mm
Depth	202 mm



Construction materials (casing and manifolds) and net weight

Polypropylene (with glass additive)	7.6 Kg
	Max 3°C min.
	65°C max

Conductive polypropylene (with carbon additive)	7.6 Kg
	Max 3°C min.
	65°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE



PVDF

Boxer 100



Maximum Dimensions

Height	325 mm
Width	329 mm
Depth	202 mm



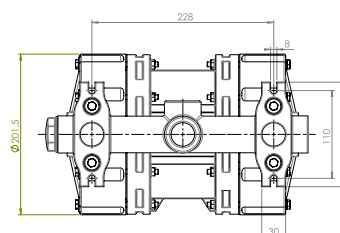
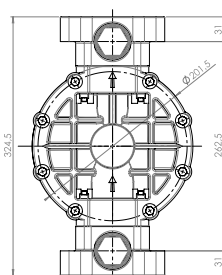
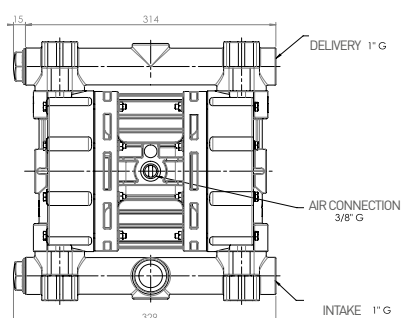
Construction materials (casing and manifolds) and net weight

PVDF	9.6 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

POMc
UHMWPE



BOXER 100

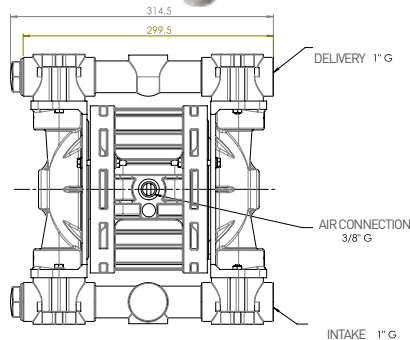
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



STANDARD: II 3G Ex h IIB T4 Gc - II 3D Ex h IIIB T135°C Dc X - I M2 Ex h I Mb X
CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



ALU

Boxer 100

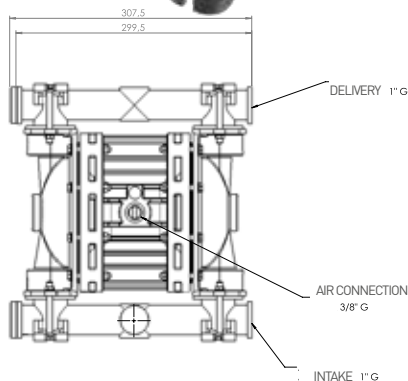
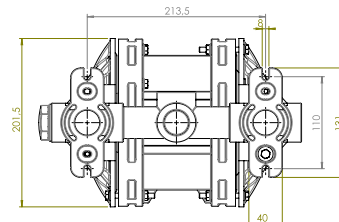
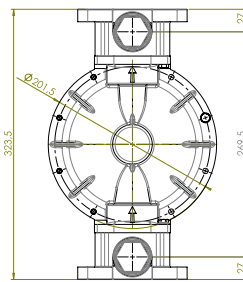
Maximum Dimensions

Height	324 mm
Width	315 mm
Depth	202 mm



Construction materials (casing and manifolds) and net weight

ALU	8.5 Kg
	Max 3°C min.
	95°C max



Electropolished AISI 316

Boxer 100

Maximum Dimensions

Height	327 mm
Width	308 mm
Depth	202 mm



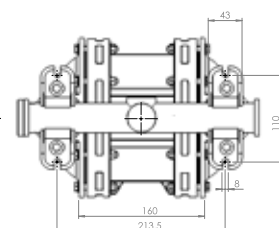
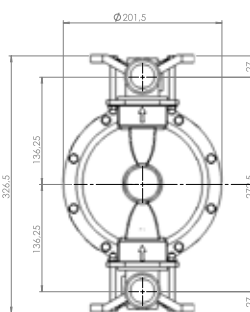
Construction materials (casing and manifolds) and net weight

Electropolished AISI 316	11.7 Kg
	Max 3°C min.
	95°C max



Construction materials (casing and manifolds) available on request

DUPLEX/W.DUPLEX



BOXER 100

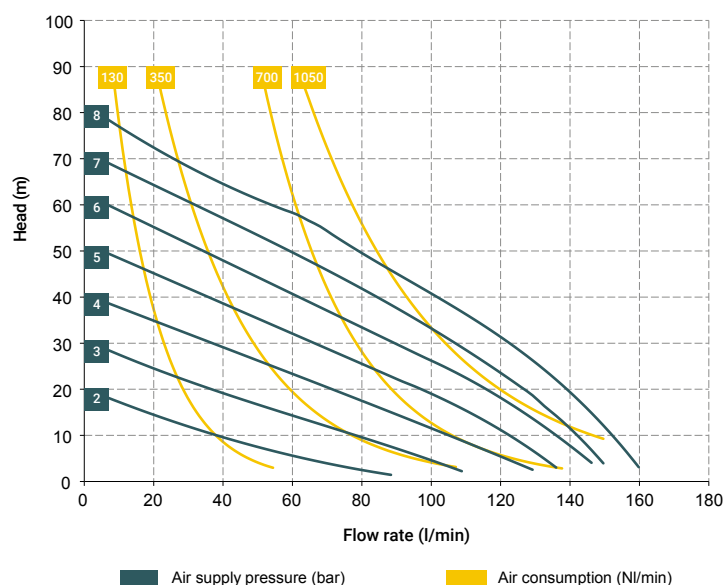
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



Specifications and types



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CONDUCT: II 2G Ex h IIB T4 Gb - II 2D Ex h IIIB T135°C Db X - Ex h IIB T4 Gb - Ex h IIIB T135°C Db



*The curves and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary based on the composition materials.

Accessories:

- Equaflux 200
- (For the dampener materials refer to the relative technical sheet)
- Truck model 01

Foot valve:

VALVFN0000100APP (POLYPROPYLENE)
VALVFN0000100AFV (PVDF)

- Air regulation kit W3000-10-G
- Batch controller
- Cycle counter
- Reinforcement rings

Flange kit (DIN flange - ANSI available on request):

KITFLANG-B100P (POLYPROPYLENE)
KITFLANG-B100F (PVDF)
KITFLANG-B100A (AISI 316)
KITFLANG-B100AL (ALUMINIUM)

T20 distributor material (pneumatic circuit):

- POM

Central material:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- Aluminium
- Aisi 316
- DUPLEX/S.DUPLEX

Diaphragm materials:

- PTFE
- HYTREL
- SANTOPRENE
- NBR
- EPDM

Caps materials:

- Polypropylene (with glass additive)
- Conductive polypropylene (with carbon additive)
- PVDF
- Aluminium
- Natural ECTFE
- AISI 316

Balls materials:

- PTFE
- AISI 316
- EPDM
- NBR

O-ring materials:

- EPDM
- NBR
- VITON®
- PTFE

Package:

cardboard box - cm 27 x 39 x 41 - weight 1.4 Kg
(the weight refers to the package only, without the pump)

Any chromatic variations in our polypropylene and PVDF products are due to the special mixtures of the raw materials used. The use of high quantities of, respectively, glass and carbon additives, results in a unique aesthetic that does not affect the quality of the product in any way. Quite the opposite, it highlights its highly technological nature, to the benefit of its performance.

MAIN APPLICATION SECTORS



AUTOMOTIVE



PRODUCTION AND STORAGE
OF BIODIESEL



WATER AND SLUDGE
TREATMENT



PHARMACEUTICAL
INDUSTRY



OIL & GAS



GRAPHIC INDUSTRY



CERAMIC, STONE, MARBLE
GLASS AND MINING
INDUSTRY



PAINT INDUSTRY



PACKING, GLUE, GOLD PROCESSING INDUSTRY
PAPER AND PAPER MILLS



TEXTILE AND LEATHER
INDUSTRY



MECHANICAL AND METAL-
LURGIC INDUSTRY



GALVANIC AND ELECTRONIC
INDUSTRY

BOXER 100

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SPLIT SUCTION and DELIVERY



SPLIT SUCTION

