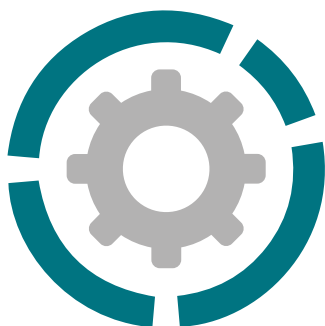


# MICROBOXER

MEMBRÁNOVÁ ČERPADLA POHÁNĚNÁ VZDUCHEM



Sání / výtlačk připojení	G 1/2" f(*)
Připojení vzduchu	G 1/4" f
Maximální průtok*	35 l/min
Maximální tlak vzduchu	8 bar
Maximální výtlačná výška*	80 m
Maximální samonasávací kapacita**	4 m
Maximální NPSH	9,5 m
Maximální průměr pevných částic v kapalině	2 mm
Hlučnost	65 dB
Množství kapaliny vytlačené za jeden cykl	30 cc

(\*) NPT připojení na vyžádání

\*\* Hodnota závisí na nastavení čerpadla



- Veškeré komponenty jsou 100% vyrobené v EU
- Patentovaná funkce zastavení/zaseknutí vzduchového ventilu - anti-stallin system
- Patentovaný vzduchový ventil - 20% spora vzduchu
- Nadstandardní životnost vzduchového ventilu - není nutná lubrikace vzduchu
- Vysoká samonasávací schopnost
- Možnost chodu na sucho po neomezenou dobu, automatické zastavení při přetížení
- Vysoká flexibilita využití čerpadla
- Vysoký výběr konstrukčních materiálů
- Možnost regulace chodu čerpadla (výtlačku a přívodu vzduchu)
- IECEx certifikace
- ATE certifikace pro Z NU 1 - Z NU 2
- Vhodné pro čerpání lepivých kapalin, abrasivních kapalin nebo kapalin s vysokou viskozitou
- Vhodné pro nepřetržitý provoz
- Vysoký výkon a robustní stavba
- Vhodné pro těžké průmyslové aplikace
- Patentovaná "LONG LIFE" membrána (BSPT, 3M příruba)

# MICROBOXER

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

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



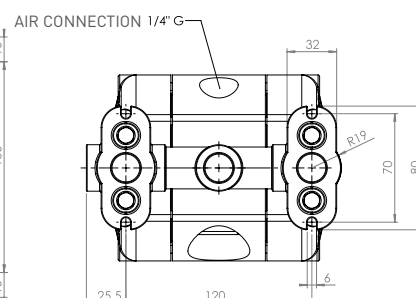
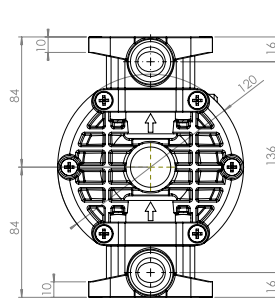
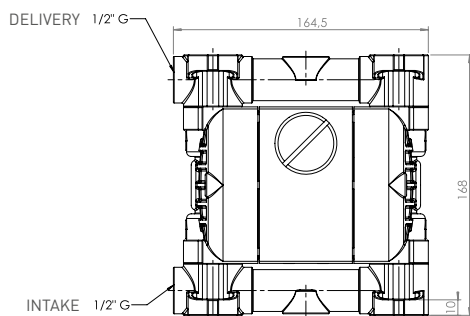
#### Construction materials (casing and manifolds) and net weight

PVDF	1.98 Kg
	Max 3°C min.
	95°C max



#### Construction materials (casing and manifolds) available on request

POMc  
 UHMWPE



# MICROBOXER

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

Microboxer



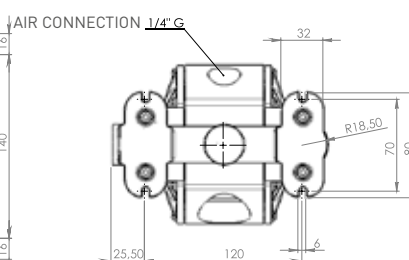
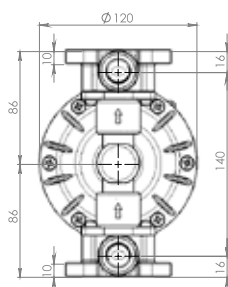
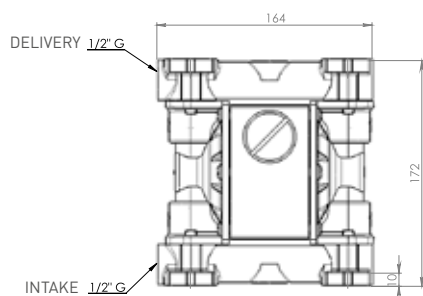
#### Maximum Dimensions

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



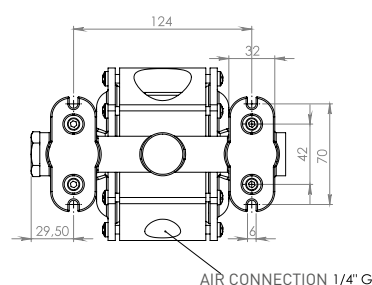
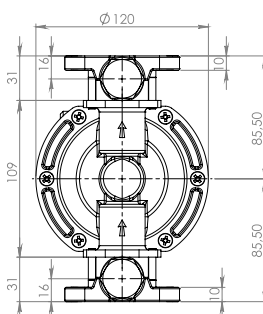
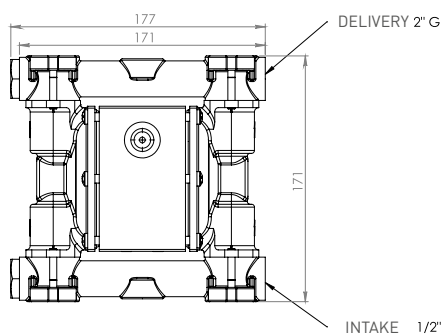
#### Construction materials (casing and manifolds) and net weight

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



#### Construction materials (casing and manifolds) available on request

DUPLEX/W.DUPLEX



# MICROBOXER

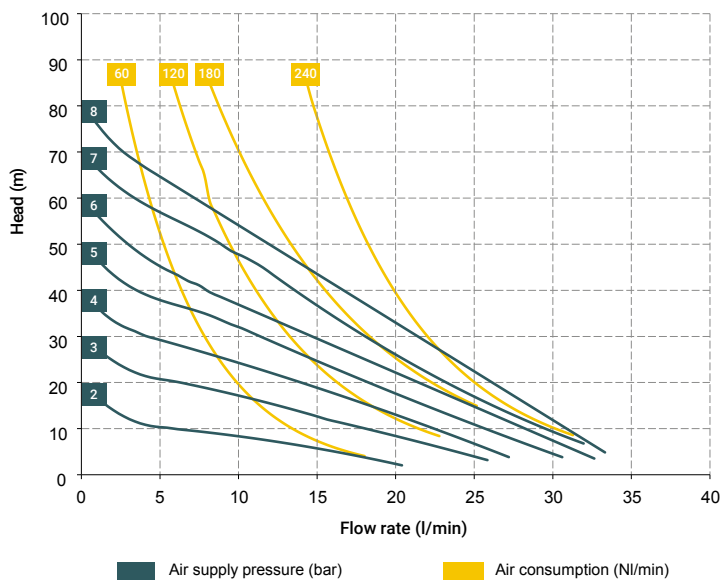
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS



## 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 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	<b>B7</b> Boxer 7 <b>B15</b> Boxer 15 <b>MICR</b> Microboxer <b>MIN</b> Miniboxer <b>B50</b> Boxer 50 <b>B81</b> Boxer 81 <b>B90</b> Boxer 90 <b>B100</b> Boxer 100 <b>B150</b> Boxer 150 <b>B251</b> Boxer 251 <b>B252</b> Boxer 252 <b>B502</b> Boxer 502 <b>B522</b> Boxer 522 <b>B503</b> Boxer 503	<b>P</b> - Polypropylene <b>FC</b> - PVDF+CF <b>PC</b> - PP+CF <b>AL</b> - Aluminium <b>A</b> - AISI 316	<b>N</b> - NBR <b>D</b> - EPDM <b>H</b> - Hytrel <b>M</b> - Santoprene	<b>T</b> - PTFE	<b>T</b> - PTFE <b>A</b> - AISI 316 <b>D</b> - EPDM <b>N</b> - NBR	<b>P</b> - Polypropylene <b>F</b> - PVDF <b>A</b> - AISI 316 <b>I</b> - PE-UHMW <b>R</b> - PPS-V <b>L</b> - Aluminium	<b>D</b> - EPDM <b>V</b> - Viton® <b>N</b> - NBR <b>T</b> - PTFE <b>S</b> - Silicone	<b>X*</b> <b>3*</b> <b>Y*</b> <b>J*</b> <b>W*</b>	<b>C*</b> <b>Z*</b>

\*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

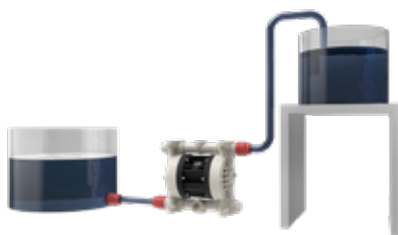
Z = version for standard IECEx

(both only on request)

SELF-PRIMING USE



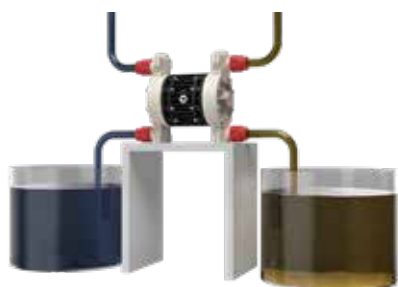
UNDER HEAD USE



DRUM TRANSFER



SPLIT SUCTION and DELIVERY



SPLIT SUCTION

