BOXER 100
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

Specifications:

- 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.


BOXER 100
AIR-OPERATED DOUBLE DIAPHRAGM PUMPS

Specifications and types

**PP**

<table>
<thead>
<tr>
<th>Maximum Dimensions</th>
<th>Boxer 100</th>
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<tbody>
<tr>
<td>Height</td>
<td>325 mm</td>
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<tr>
<td>Width</td>
<td>329 mm</td>
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<tr>
<td>Depth</td>
<td>202 mm</td>
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</tbody>
</table>

**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**

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<thead>
<tr>
<th>Maximum Dimensions</th>
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<td>Depth</td>
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**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

ALU

Maximum Dimensions

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Construction materials (casing and manifolds) and net weight

ALU

8.5 Kg
Max 3°C min.
95°C max

Electropolished AISI 316

Maximum Dimensions

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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

T20 distributor material (pneumatic circuit):
• POM

Central material:
• Polypropylene (with glass additive)
• Conductive polypropylene (with carbon additive)
• Alsi 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.

ACCESSORIES:
• Equaflux 200
• 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)

MAIN APPLICATION SECTORS

- AUTOMOTIVE
- PRODUCTION AND STORAGE OF BIODIESEL
- WATER AND SLUDGE TREATMENT
- PHARMACEUTICAL INDUSTRY
- OIL & GAS

- GRAPHIC INDUSTRY
- CERAMIC, STONE, MARBLE GLASS AND MIRROR INDUSTRY
- PAINT INDUSTRY
- PACKING, GLUE, SOLO PROCESSING INDUSTRY

- TEXTILE AND LEATHER INDUSTRY
- MECHANICAL, AND METAL- LURGIC INDUSTRY
- GALVANIC AND ELECTRONIC INDUSTRY
# BOXER 100

**AIR-OPERATED DOUBLE DIAPHRAGM PUMPS**

## Specifications and types

### 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.

<table>
<thead>
<tr>
<th>I</th>
<th>IB50-</th>
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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)

<table>
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<tr>
<th>C</th>
<th>version CONDUCT for standard ATEX ZONE 1 Ex II 2/2GD c IIB T135°C</th>
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<tr>
<td>Z</td>
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### SELF-PRIMING USE

### UNDER HEAD USE

### IMMERSED

### DRUM TRANSFER

**SPLIT SUCTION**

**SPLIT SUCTION and DELIVERY**