

Air-operated double diaphragm volumetric pumps, ATEX – IECEx certified, constructed in polypropylene or PVDF in the plastic version or in aluminium or AISI 316 L for the metal versions. BOXER pumps are ideal for pumping liquids with high apparent viscosity, even if containing suspended solids. The vast range of materials available for the parts in contact with the flu-

id, such as pump casings and manifolds, diaphragms, balls, ball seats and o-rings, makes them compatible with any type of fluid present on the market. They can be used in numerous applications such as the following industries: chemical, graphic, paint, galvanic, ceramic, naval, textile, leather, mechanical, oil and many more.

- **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**
- **Nozzles available with clamp connections and DIN 11851 (only pumps in AISI 316)**
- **LONG LIFE profile diaphragms (available in different elastomers) for greater resistance and longer life**
- **Suitable for continuous use**

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.

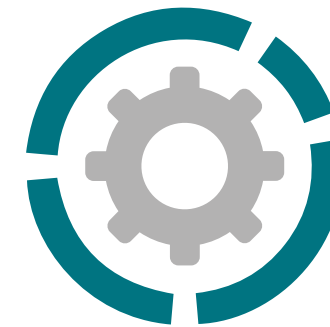
I	B81-	P	H	T	A	P	D	-	-
INTERNAL DISTRIBUTOR	PUMP MODEL	PUMP CASING	AIR-SIDE DIAPHRAGM	FLUID-SIDE DIAPHRAGM	BALLS	BALL SEATS	O-RING	SPLIT MANIFOLD	CONDUCT VERSION
I	B7 Boxer 7 B15 Boxer 15 MICR Microboxer MIN Miniboxer B35 Boxer 35 B50 Boxer 50 B81 Boxer 81 B90 Boxer90 B100 Boxer 100 B150 Boxer 150 B251 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)



Specifications and types



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

STANDARD: II 3G Ex h IIB T4 Gc, II 3D Ex h IIB T135°C Dc (zone 2)
CONDUCT: II 2G Ex h IIB T4 Gb, II 2D Ex h IIB T135°C Db (zone 1)



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)	- Temp. 3°C min. -

PVDF Boxer 7

Maximum Dimensions	
Height	120 mm
Width	138 mm
Depth	68 mm

Construction materials (casing and manifolds) and net weight	
PVDF	- Temp. 3°C min. 95°C max

(*) Available with NPT connections (on request)

*The curves and performance are referred to pumps with submerged suction and a free delivery outlet with water at 20°C, and vary according to the construction material.
** The value depends on the configuration of the pump.

MAIN APPLICATION SECTORS

