Boxer 15

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Specifications and types

Ex	Zone 2 – Zone 22	II 3G Ex h IIB T4 Gc e II 3D Ex h IIIB T135°C Dc X
	Zone 1 – Zone 21	II 2G Ex h IIB T4 Gb e II 2D Ex h IIIB T135°C Db X
	Zone 1 – Zone 21	II 2G Ex h IIC T4 Gb
	Zone M2	I M2 Ex h I Mb X *
	IECEx	Ex h IIB T4 Gb e Ex h IIIB T135°C Db

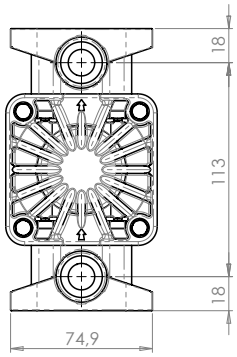
** The IIC Group gas application string is applicable on Boxer series pumps in Conduct version with conductive TFM membranes.
* The mining application string does not apply to aluminium pumps in the Boxer range

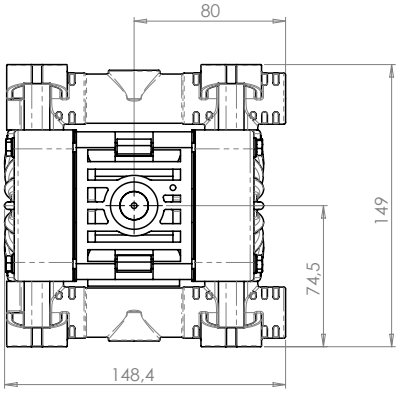
Suction / delivery connections Boxer 15	3/8" f BSPP (*)
Suction / delivery connections FDA Boxer 15	3/4" Clamp BS 4825'
Air fitting	3/8" f BSPP
Max. flow rate*	17 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	3 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	0,5 mm
Noise	65 dB

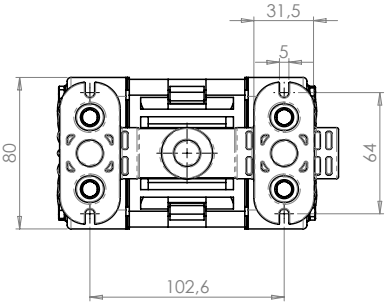
(*) NPT connections on request
* Curves and performance refer to pumps with submerged suction and free delivery port, with water at 20°C and vary depending on material composition.
** Value depends on pump configuration.



PLASTIC MATERIAL PP (GF/CF) - PVDF	Boxer 15
Maximum dimensions	
Height	149 mm
Width	148 mm
Depth	80 mm
Construction mat. (casing and manifolds) and net weight	
POLYPROPYLENE (with glass filler)	1,1 Kg Temp. 3°C min. 65°C max
CONDUCTIVE POLYPROPYLENE (with carbon filler)	1,1 Kg Temp. 3°C min. 65°C max
PVDF (with carbon filler)	1,4 Kg Temp. 3°C min. 95°C max







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Boxer 15

Specifications and types

Ex	Zone 2 – Zone 22	II 3G Ex h IIB T4 Gc e II 3D Ex h IIIB T135°C Dc X
	Zone 1 – Zone 21	II 2G Ex h IIB T4 Gb e II 2D Ex h IIIB T135°C Db X
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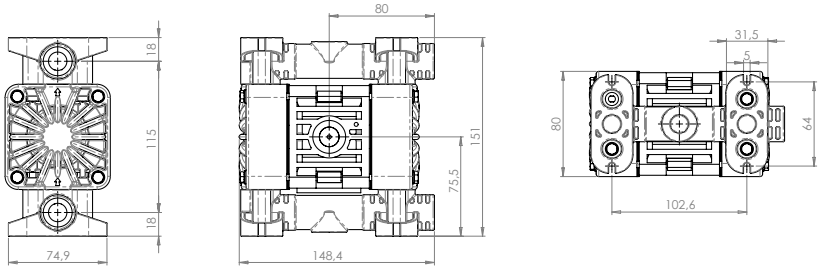
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METAL MATERIAL - ALU — Boxer 15

Maximum dimensions	
Height	151 mm
Width	148 mm
Depth	80 mm

Construction mat. (casing and manifolds) and net weight	
ALU	1,9 Kg Temp. 3°C min. 95°C max

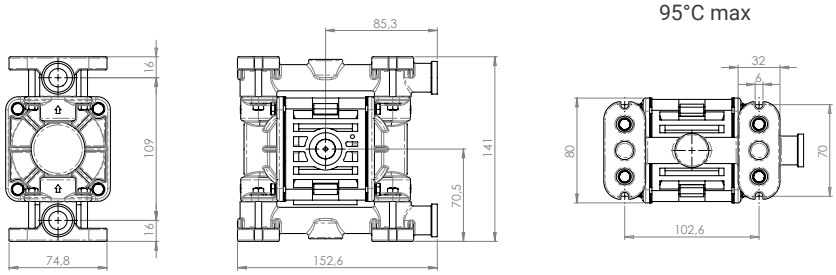




METAL MATERIAL - AISI 316 L — Boxer 15

Maximum dimensions	
Height	141 mm
Width	153 mm
Depth	80 mm

Construction mat. (casing and manifolds) and net weight	
AISI 316 L	2,4 Kg Temp. 3°C min. 95°C max



FDA BOXER 15



METAL MATERIAL - AISI 316 L — FDA Boxer 15

Maximum dimensions	
Height	162 mm
Width	160 mm
Depth	80 mm

Construction mat. (casing and manifolds) and net weight	
AISI 316 L	2,4 Kg Temp. 3°C min. 95°C max

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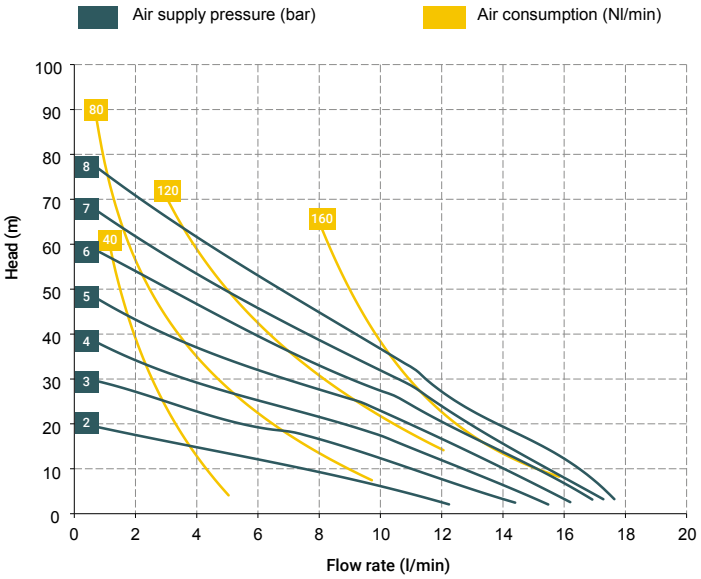
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Boxer 15

Specifications and types

Ex	Zone 2 – Zone 22	II 3G Ex h IIB T4 Gc e II 3D Ex h IIIB T135°C Dc X
	Zone 1 – Zone 21	II 2G Ex h IIB T4 Gb e II 2D Ex h IIIB T135°C Db X
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	Zone M2	I M2 Ex h I Mb X *
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* The curves and performances refer to pumps with immersed suction and open delivery outlet with water at 20 °C and vary according to the composition materials.

BOXER 15 (PP):
A1 - A2 - A4 - A5 - A6 - M1 - M2- M4 - M5 - M6

BOXER 15 (PVDF):
A1 - A2 - A4 - A5 - A6 - M1 - M2- M4 - M5 - M6

BOXER 15 (INOX):
A1 - A2 - A4 - A5 - A6 - M1 - M2- M4 - M5 - M6

BOXER 15 (ALU):
A1 - A2 - A4 - A5 - A6 - M1 - M2- M4 - M5 - M6



Standard fittings:
- Suction: A1
- Delivery: M1

T15 distributor material (compressed air circuit)
- POM

Core material
- Polypropylene (with glass filler)
- Conductive polypropylene (with carbon filler)
- Aluminium

Diaphragm materials
- PTFE
- NBR

Cap materials
- Polypropylene (with glass filler)
- Conductive polypropylene (with carbon filler)
- PVDF
- PPS
- Natural ECTFE
- AISI 316 L

Ball materials
- PTFE
- AISI 316 L
- EPDM

O-ring materials
- EPDM
- NBR
- VITON®
- PTFE

Packaging
Cardboard box - 14 x 20 x 20 cm - weight 0.4 kg
(the weight refers only to the packaging without the pump inside)

Accessories
- Equaflux 51 (For damper materials, please refer to the technical data sheet)
- Foot valve
- Air regulation kit
- Batch controller
- Stroke counter
- Reinforcement rings
- Flange kit (DIN flanges - ANSI on request)

Any colour variations in our polypropylene and PVDF products are due to the special blends of the raw materials used. The use of high levels of glass and long-fiber carbon filler result in a unique colour that does not in any way affect the quality of the product; on the contrary, it points to the high level of content used to ensure outstanding performance.

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Boxer 15

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BOXER PUMPS CODES ENCODING

ex. IB15-P-HTTPV--
Internal distributor, Boxer 15, body PP, air-side diaph. Hytrel®, product-side diaph. PTFE, AISI 316 L balls, PP ball seats, EPDM O-Ring.

IB07-	P	H	T	T	P	V	-	-
PUMP MODEL	**PUMP BODY**	**AIR-SIDE DIAPHRAGM**	**FLUID-SIDE DIAPHRAGM**	**BALLS**	**BALL SEATS**	**O-RING**	**MANIFOLD**	**VERSION**
IB07 - Boxer 07 IB15 - Boxer 15 IMICR - Microboxer IB35 - Boxer 35 IB50 - Boxer 50 IMIN - Miniboxer IB81 - Boxer 81 IB90 - Boxer 90 IB100 - Boxer 100 IB150 - Boxer 150 IB251 - Boxer 251 IB252 - Boxer 252 IB522 - Boxer 522 IB502 - Boxer 502 IB503 - Boxer 503	P - PP PC - PP+CF FC - PVDF+CF A - AISI 316 (L) AL - ALU	N - NBR D - EPDM H - Hytrel® M - Santoprene®	T - PTFE	T - PTFE A - AISI 316 L D - EPDM N - NBR	P - Polypropylene F - PVDF A - AISI 316 L I - PE-UHMW R - PPS L - Aluminium	D - EPDM V - Viton® N - NBR T - PTFE	X* 3* Y* W* K*	C* Z*

Example table, for the table with the complete codes please contact the Debem sales department.

*X = split manifold
*3 = 3rd hole on the manifold
*Y = manifold with NPT fitting
*W = clamp manifold
*K = manifold with reinforcement rings (all on request only)

C = CONDUCT version for ATEX ZONE 1
Z = Version for IECEx Standard



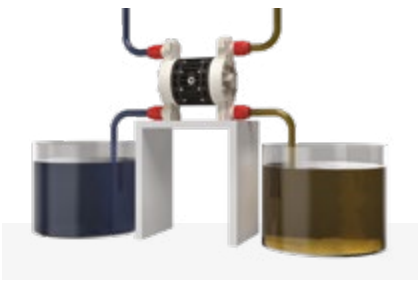
Self priming



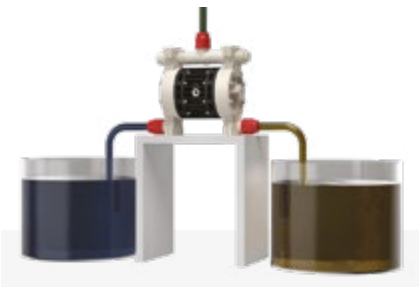
Under head



Drum Transfer



Split Suction and Delivery



Split Suction

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