

Boxer 35

Specifications and types

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

Zone M2 I M2 Ex h I Mb X* Ex h IIB T4 Gb e Ex h IIIB T135°C Db

* The string relating to mining applications is not applicable to aluminium BOXER range pumps

Suction / delivery connections	1/2" f BSPP (*)
Air fitting	3/8" f BSPP
Max. flow rate*	35 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	2 mm
Noise	65 dB

(*) NPT fittings only on request

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



PLASTIC MATERIAL - PP (GF/CF)

Boxer 35



Maximum dimensions				
Height	168 mm			
Width	288 mm			
Depth	120 mm			



Construction mat. (casing and manifolds) and net weight

POLYPROPYLENE 1,8 Kg (with glass additive) Temp. 3°C min. 65°C max **CONDUCTIVE POLYPROPYLENE** Temp. 3°C min.

(with carbon additive)

65°C max

PLASTIC MATERIAL - PVDF

Boxer 35



1	Maximum dimensions					
	Height	168 mm				
	Width	288 mm				
	Depth	120 mm				



Construction mat. (casing and manifolds) and net weight

1,98 Kg **PVDF** (with carbon additive) Temp. 3°C min. 95°C max

^{**} The value depends on the pump configuration.



Boxer 35

Specifications and types

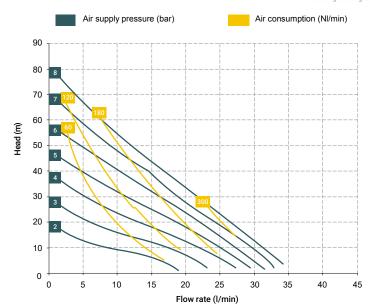


Zone 2 - Zone 22 Zone 1 – Zone 21

II 3G Ex h IIB T4 Gc e II 3D Ex h IIIB T135°C Dc X II 2G Ex h IIB T4 Gb e II 2D Ex h IIIB T135°C Db X

Zone M2 I M2 Ex h I Mb X3

Ex h IIB T4 Gb e Ex h IIIB T135°C Db The string relating to mining applications is not applicable to aluminium BOXER range pumps



BOXER 35 (PP):

A1 - A2 - A4 - M1 - M2 - M4

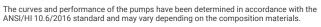
BOXER 35 (PVDF):

A1 - A2 - A4 - M1 - M2 - M4

Standard fittings:

Suction: A1

Delivery: M1



A4

Debem procedure

- 1. The suction manifold positioned with a positive head of 50 cm.
 2. The maximum length of the suction pipe is 50 cm without bends, elbows, filters, or other 3. The diameter of the suction pipe must be the same diameter as the manifold or larger.
- 4. The discharge pipe, including the flow meter, must not exceed 1 meter and must be the same diameter as the manifold.
- 5. If testing with longer pipes is necessary, pipes of larger diameter must be used, otherwise the data may be distorted.

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

MONOSTABLE distributor material (Distributor + spool) - (compressed air circuit)

Core material

- Polypropylene
- · PP+CF

Diaphragm materials

- PTFE
- HYTREL®
- SANTOPRENE
- NBR

Cap materials

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

Ball materials

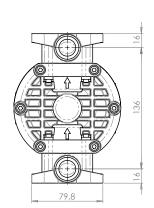
- PTFE
- AISI 316 L
- EPDM
- NBR

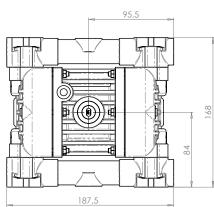
O-ring materials

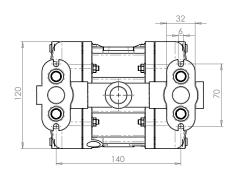
- EPDM
- NBR
- VITON®
- PTFE

Accessories

- Equaflux 51(For damper materials, please refer to the technical data sheet)
- Foot valve
- · Air regulation kit W1000-8-G
- · Batch controller
- · Stroke counter
- · Reinforcement rings
- · Flange kit (DIN flanges ANSI on request)











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Zone M2 Ex h IIB T4 Gb e Ex h IIIB T135°C Db

BOXER PUMPS CODES ENCODING

ex. IMICR-P-HTTPV-Internal distributor, Boxer 35, body PP, air-side diaph. Hytrel®, product-side diaph. PTFE, AISI 316 L balls, PP ball seats, EPDM 0-Ring.

IB07-	Р	Н	Т	Т	Р	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



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