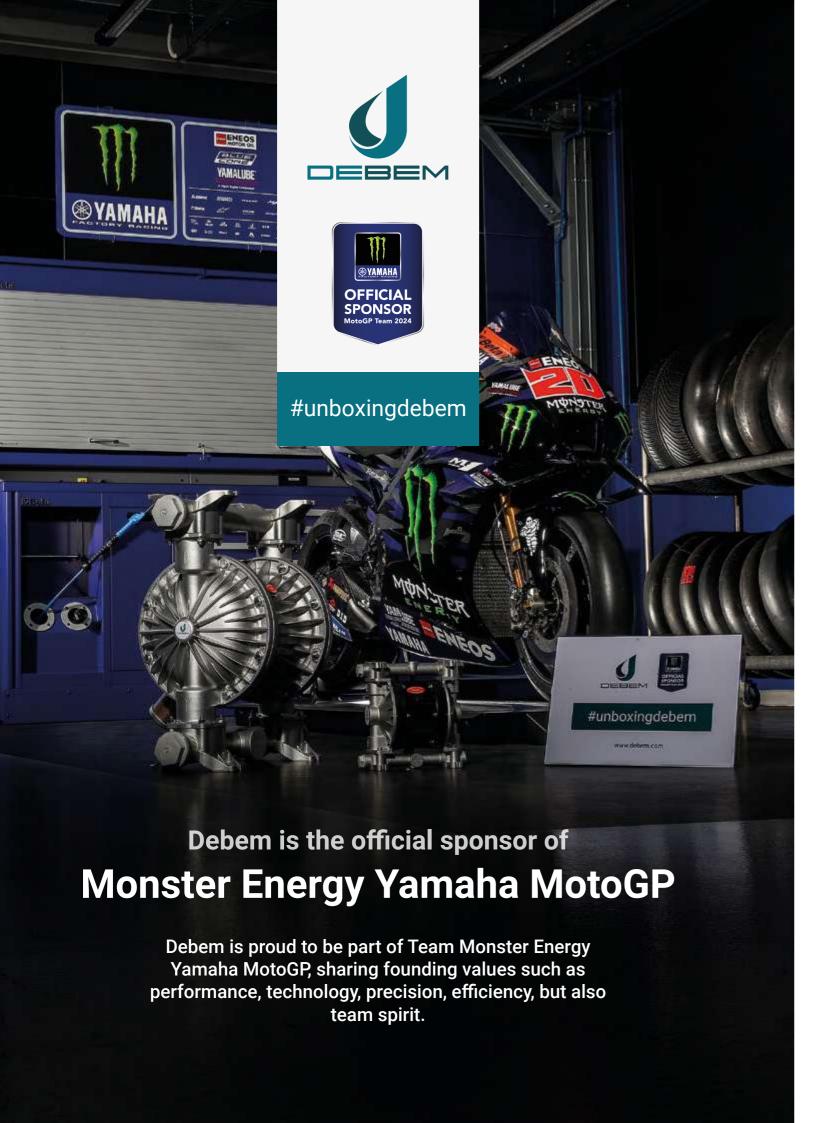




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Why choose us

5 Sustainability









Tradition and innovation

Debem has been leader in the fluid handling sector since 1982



DEBEM'S DNA







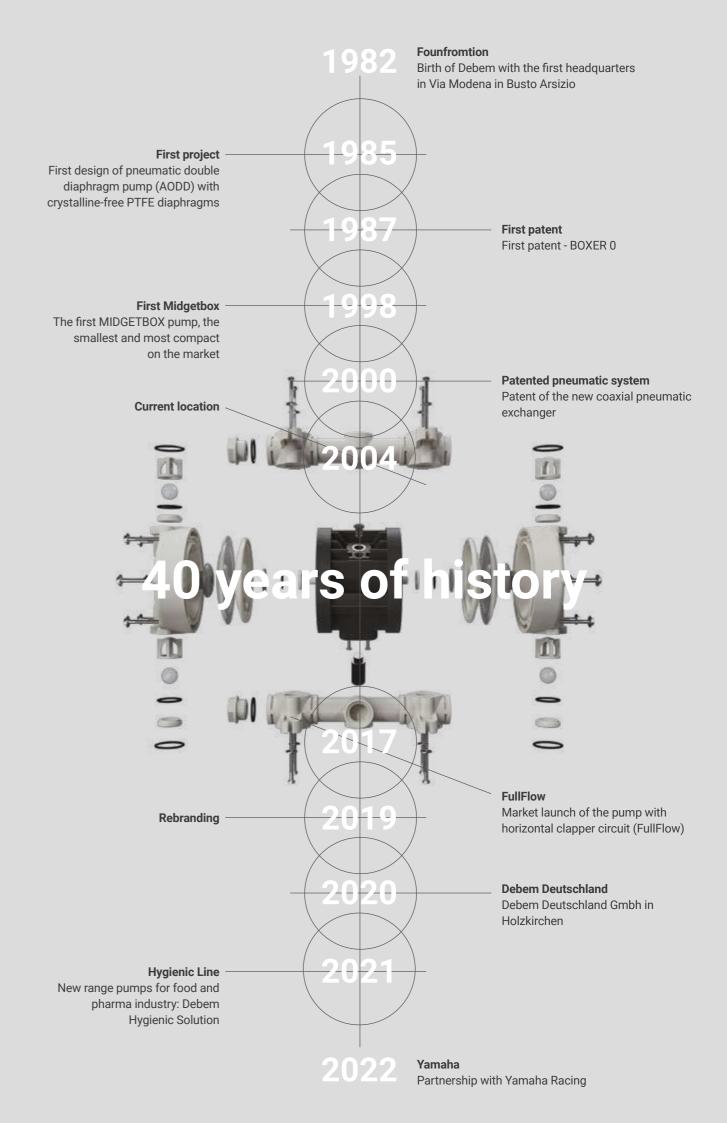
Cohesion



Quality

Innovation

Customer first





Certifications



ATE

All BOXER pneumatic pumps comply with the Community Directives for the free circulation of goods applicable to them. They are also designed to operate in Atex explosion risk environments (ATmosphères and Explosives) for use in Zone 2 – Zone 22 (stanfromrd version), Zone M2 and Zone 1 – Zone 21.1.



ISO 900°

Debem is ISO 9001 certified –the most widespread and famous quality procedure as a funfrommental tool for achieving the group's objectives and continuous commitment aimed at proposing products characterized by an excellent quality-priceratio, studying customized solutions, guaranteeing reliability and punctuality, offering a service that meets customer expectations.



IFCFX

BOXER AODD Pneumatic pumps have IECEx Certification and are produced in compliance with the Ex stanfromrds of products intended for installation in areas at risk of explosion.



American Bureau of Shipping

Debem produces AODD pumps, for applications in the naval sector, in accorfromnce with the A.B.S. rules. - American Bureau of Shipping.

Lean thinking



Efficiency optimization

Our Lean Thinking is a path that makes our company increasingly oriented towards making processes lean and reducing waste, while maintaining the quality of the products unchanged. The focus is always the same: Customer First.

Water and Sludge Treatment

Products

Our products





CUBIC



BOXER



REMOTE CONTROL



FULLFLOW

Air-operated double diaphragm pumps

Our air-operated diaphragm pumps are sturdy and powerful, self-priming (dry negative vacuum), also in demanding conditions. They can transfer liquids with high viscosity and/or with suspended solids.



EQUAFLUX

Pulsation frommpers

Automatic diaphragm pulsation frommpers. Compressed air driven devices that are installed on the delivery side of air-operated pumps. They minimise the pulsations of the fluid and the consequent vibrations, or water hammer, to protect the process equipment.



DM HORIZONTAL MAGNETIC DRIVE



KM HORIZONTAL MAGNETIC DRIVE



MB HORIZONTAL WITH MECHANICAL SEALS



IM VERTICAL CENTRIFUGAL PUMPS

Centrifugal pumps

Horizontal, vertical or magnetic driven plastic centrifugal pumps.



TR PUMPS

Drum pumps

Pneumatic or electrical motor driven drum pumps. Their portable design makes them ideally suited to guickly transfer clean corrosive liquids from drums.

Products Main application sectors



Chemical Industry



Gold processing Industry



Graphic Industry



Ceramic, Stolne, Marble, **Glass and Mining Industry**



Galvanic Industry



Textile and Leather Industry

Automotive and Naval Industry



Production and storage of Biodiesel



Mechanical and Metallurgic Industry

Paint Industry



Packaging, Glue, Paper and Paper Mills Industry









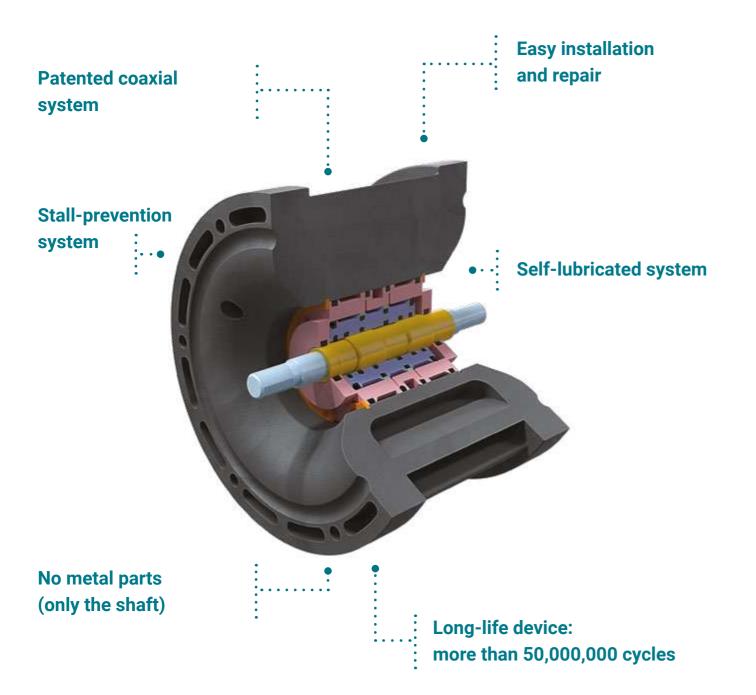
Oil & Gas





Patented exchanger

Amongst the lowest air consuptions on the market



Debem special diaphragms

Long Life Diaphragms

A modern design process, destructing testing, as well as an in depth analysis of the results have allowed Debem to develop the new generation LONG LIFE diaphragms.

Thanks to their profile and construction shape, these products offer a larger working surface and improved

redistribution of the load, reducing the stress and yield of the material to a minimum.



RUBBER DIAPHRAGMS

They are produced with rubber mixtures and special additives that improve their chemical characteristics as well as their mechanical flexural and resistance characteristics.

These diaphragms have a nylon cloth reinforcement that improves stress distribution.

NBR

Inexpensive and particularly suited for petroleum based liquids, oil and abrasive fluids.

EPDM

Good resistance to acids, alkaline and abrasion as well as a good flexibility also at low temperatures.



SANTOPRENE®

THERMOPLASTIC DIAPHRAGMS

Made with thermoplastic polymers, these diaphragms provide a high level of mechanical resistance and stress distribution.

HYTREL®

Exceptional toughness and springback: high resistance to creep, impact and fatigue under bending: excellent flexibility at low temperatures, also retaining its properties to a good extent at high temperatures. It is also resistant to the attack of many industrial chemicals, oils and solvents.

SANTOPRENE®

Excellent resistance to acid and alkaline fluids, high flexural resistance and good abrasion resistance.



PTFE DIAPHRAGMS

This material is known for its considerable resistance to temperature and chemical and corrosive agents. Diaphragms in Debem PTFE undergo a double heat treatment to increase their elasticity and service life. A sample of each batch is subject to destructive tests to check their compliance with the technical requirements.

This diaphragm can be installed combined with one of the ones examined earlier, in order to increase the resistance to the corrosive chemical agents and temperature of the fluid.

Line introduction

Cubic // Boxer



AODD pumps of the Cubic and Boxer series are characterized by high performance and great versatility. The high power and their mechanical resistance make them suitable for handling fluids with high viscosity, even with solid parts in suspension. The anti-stall pneumatic circuit guarantees safe operation and does not require lubricated air. The ability to self-prime dry from significant dra ft heights, combined with the possibility of adjusting the speed without pressure losses and the possibility of running empty without suffering frommage, have given these pumps versatility of use. The vast choice of composition materials allows you to determine the most

suitable configuration for the fluid to be moved. Their construction pri nciple makes them particularly suitable even for heavy-duty applications with high humidity.

Main advantages PATENTED STALL PREVENTION PNEUMATIC **CIRCUIT** LONG LIFE DIAPHRAGMS **HIGH ENERGY EFFICIENCY CUSTOMIZABLE CONNECTIONS EASY AND FAST MAINTENANCE**

CODING BOXER FAMILY CODES

Internal distributor, Boxer 07, PP casing, Hytrel® air side diaphragm, PTFE product side diaphragm, AISI 316 L balls, PP ball seats, EPDM. O-ring.

Pump Model	Pump Body	Membrane Air Side	Membrane Fliud Side	Balls	Ball Seats	O-Ring	Manifold	Version
IB07 - Boxer 07 IB15 - Boxer 15 IMICR - Micr-boxer 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	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 table with complete codes contact Debem sales department.								

Cubic / Boxer RC version

RC Remote Control

Debem's double diaphragm pumps of the RC line have been designed for all the needs of controlling the pump remotely or directly from the machinery on which the pump is installed, ex. during product measurements or dosages. The operation of RC pumps always occurs through compressed air. All the pumps in the RC line are ATEX compliant, in Polypropylene or PVDF for the plastic version or in Aluminum or AISI 316 L for the metal ver-

sions. The properties of the hydraulic part remain the same as the Cubic and Boxer series pumps.



CODING CUBIC FAMILY CODES

Example table, for table with complete codes contact Debem sales department. ex. ICU15P-NTTPV- - Internal distributor, Cubic 15, PP casing, NBR air side diaphraqm, PTFE product side diaphraqm, PTFE balls, PP ball seats, Viton® o-ring.

Pump Model	Pump Body	Membrane Air Side	Membrane Fliud Side	Balls	Ball Seats	O-Ring	Manifold	Version
MID - Midgetbox CU15 - Cubic 15	P - Polypropylene EC - ECTFE (Halar®) PC - PP+CF	N - NBR	T-PTFE	G - Pyrex®1 A - AISI 316 L T - PTFE	R - PPS K - PEEK¹ P - PP E - ECTFE A - AISI 316 L I - PE-UHMW	D - EPDM V - Viton® N - NBR T - PTFE	X Split manifold Y NPT thread	C*

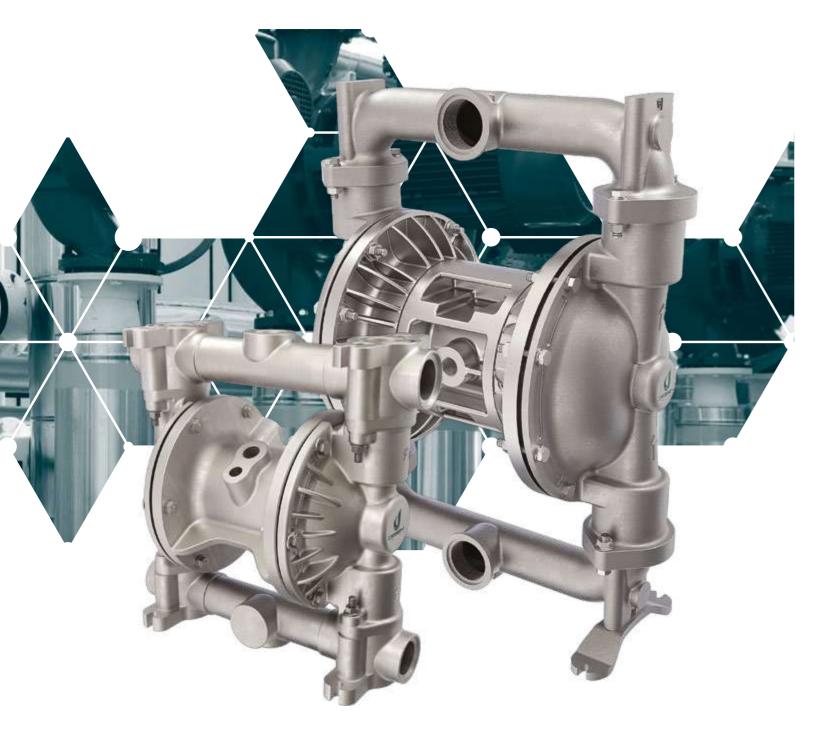
1) Only for Midgetbox *C CONDUCT version for ATEX ZONE 1

Optional

Aluminium cores

Boxer series pumps, irrespective of the material of construction of casing and manifolds, can be supplied with an aluminium control unit. Our aluminium cores are die-cast and manufactured from material of certified Italian origin. The aluminium core conducts heat and electricity excellently. The high conductivity of aluminium makes it a good electrical conductor, excellent

for installation on conductive pumps for ATEX ZONE 1. The aluminium core gives the metal pumps an 88% recyclability rate.



Cubic Midgetbox



Specifications and types



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

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Available in the Remote Control version

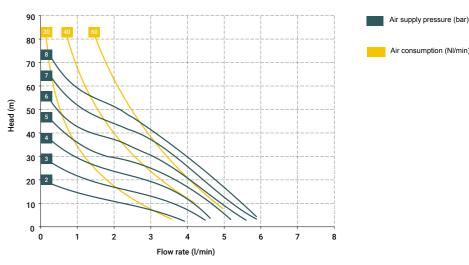
Suction / delivery connections	1/4" f BSPP (*)
Air fitting	1/8" f BSPP
Max. flow rate*	6 l/min
Max. supply air pressur	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	3 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	0 mm
Noise	60 dB

(*) NPT fittings only on request

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

** The value depends on the pump configuration.

Performance Curves



PLASTIC MATERIAL - PP (GF/CF)	Midgetbox
Maximum dimensions	
Height	75 mm
Width	122 mm
Depth	60 mm
Construction mat. (casing and manifolds) and net weight	
POLYPROPYLENE	1,52 Kg
(with glass additive)	Temp. 3°C min.
	remp. 5 6 mm.
	65°C max
CONDUCTIVE POLYPROPYLENE	
CONDUCTIVE POLYPROPYLENE (with carbon additive)	65°C max

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS





Air supply pressure (bar)

Air consumption (NI/min)

Cubic



Any colour variations in our plastic products are due to the special mixtures of the raw materials used. The use of high fillers, glass and long-fibre carbon, provides a distinctive aesthetic that in no way de-tracts from the quality of the product, but rather emphasises its high technical content, to the benefit of performance.

Specifications and types



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 (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Disponibile anche nella versione Controllo Remoto

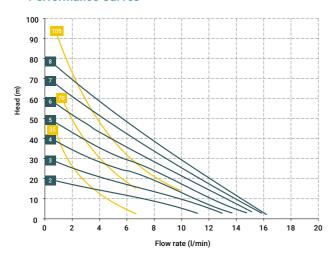
Suction / delivery connections	3/8" f BSPP (*)
Air fitting	3/8" f BSPP
Max. flow rate*	17 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	3 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	0 mm
Noise	65 dB

(*) NPT fittings only on request

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

** The value depends on the pump configuration.

Performance Curves





AIR-OPERATED DOUBLE DIAPHRAGM PUMPS

17







PLASTIC MATERIAL PP (GF/CF)	Cubic 15	
Maximum dimensions		
Height	105 mm	
Width	201 mm	
Depth	105 mm	
Construction mat. (casing and manifolds) and n	et weight	
ECTFE	1,6 Kg	
	Temp. 3°C min.	
	95°C max	

AIR-OPERATED DOUBLE DIAPHRAGM PUMPS







Boxer



Specifications and types



Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

I M2 Ex h I Mb X (*)

 $\begin{tabular}{ll} (\star) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range. \\ \end{tabular}$

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

 $\begin{tabular}{ll} \textbf{(*)} The string relating to mining applications is not applicable on aluminum pumps from the Boxer range. \\ \end{tabular}$

Available in the Remote Control version

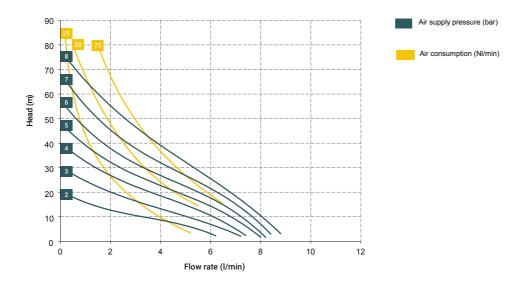
Suction / delivery connections	1/4" f BSPP(*)
Air fitting	1/8" f BSPP
Max. flow rate*	9 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	0,5 mm
Noise	65 dB

(*) NPT fittings only on request

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

** The value depends on the pump configuration.

Performance Curves





19



PLASTIC MATERIAL - PP (GF/CF)	Boxer 7	
Maximum dimensions		
Height	120 mm	
Width	138 mm	
Depth	69 mm	
Construction mat. (casing and manifolds) and net	weight	
POLYPROPYLENE	0,7 Kg	
(with glass additive)	Temp. 3°C min.	
	65°C max	
CONDUCTIVE POLYPROPYLENE	0,7 Kg	
(with carbon additive)	Temp. 3°C min.	
	65°C max	



PLASTIC MATERIAL - PVDF	Boxer 7
Maximum dimensions	
Height	120 mm
Width	138 mm
Depth	70 mm
Construction mat. (casing and manifolds) and	d net weight
PVDF (with carbon additive)	0,9 Kg
	Temp. 3°C min.
	95°C max









Specifications and types



Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Zone M2 I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

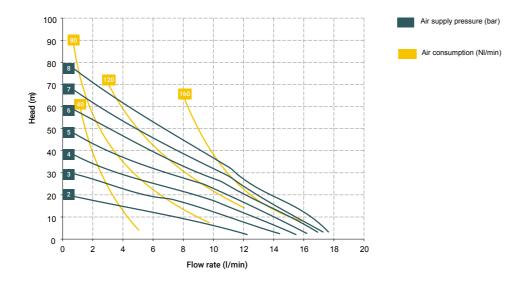
Available in the Remote Control version

Suction / delivery connections Boxer 15	3/8" f BSPP (*)
Suction / delivery connections FFrom Boxer 15	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

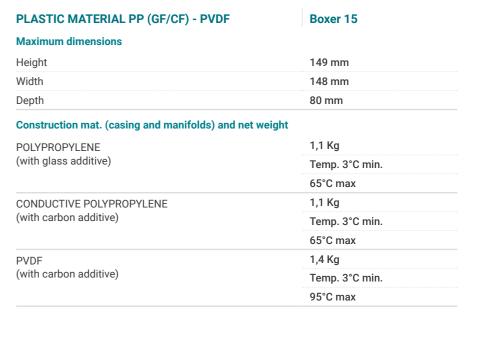
 $(*) \ NPT fittings only on request \\ * The Curvesss and the performances refer to pumps with immersed suction and open delivery$

outlet, with water at 20°C and vary depending on material composition ** The value depends on the pump configuration.

Performance Curves













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	

Boxer 15

Maximum dimensions	
Height	141 mm
Width	153 mm
Depth	80 mm
Construction mat. (casing and m	anifolds) and net weight
ALU	2,4 Kg
	Temp. 3°C min.
	95°C max

METAL MATERIAL - AISI 316 L



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	
ALU	1,9 Kg	
	Temp. 3°C min.	
	95°C max	
Roughness	2,7 μm	

Microboxer







Microboxer







Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Available in the Remote Control version Available with Aluminium cores

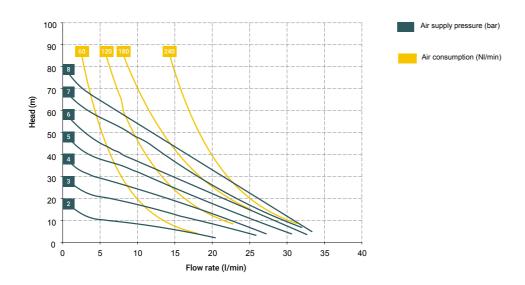
Suction / delivery connections Microboxer	1/2" f BSPP (*)
Suction / delivery connections FFrom Boxer	BS 4825
Air fitting	1/4" f BSPP
Max. flow rate*	35 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	2 mm
Noise	65 dB

(*) NPT fittings only on request

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

** The value depends on the pump configuration.

Performance Curves





PLASTIC MATERIAL (GF/CF) - PVDF	Microboxer
Maximum dimensions	
Height	168 mm
Width	168 mm
Depth	120 mm
Construction mat. (casing and manifolds) and net v	veight
POLYPROPYLENE	1,6 Kg
(with glass additive)	Temp. 3°C min.
	65°C max
CONDUCTIVE POLYPROPYLENE	1,6 Kg
(with carbon additive)	Temp. 3°C min.
	65°C max
PVDF	1,9 Kg
(with carbon additive)	Temp. 3°C min.
	95°C max

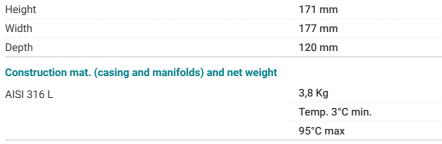




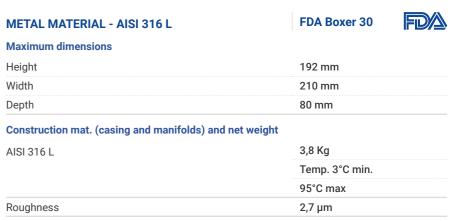


Height	172 mm
Width	164 mm
Depth	120 mm
Construction mat. (casing and manifolds) and net weig	ght
ALU	2 Kg
	Temp. 3°C min.
	95°C max
METAL MATERIAL - AISI 316 L	Microboxer
Maximum dimensions	
Height	171 mm
Width	177 mm
Depth	120 mm

METAL MATERIAL - ALU















Miniboxer



Specifications and types



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 (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Zone M2 I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

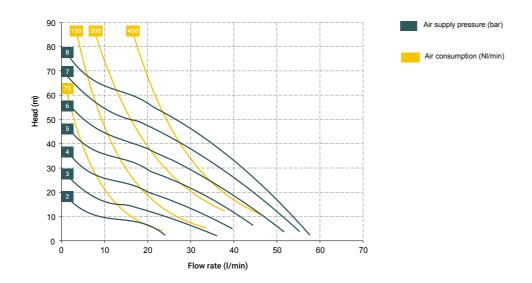
Available in the Remote Control version

Available with Aluminium cores

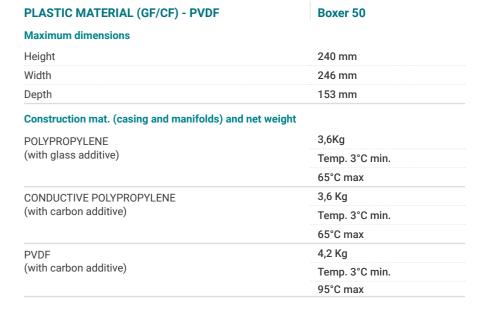
Suction / delivery connections Boxer 50 / Miniboxer	1/2" f BSPP (*)
Suction / delivery connections FFrom Boxer 50	BS 4825
Air fitting	3/8"f BSPP
Max. flow rate*	60 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	4 mm
Noise	70 dB

(*) NPT fittings only on request * The Curvesss and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary depending on material composition. ** The value depends on the pump configuration.

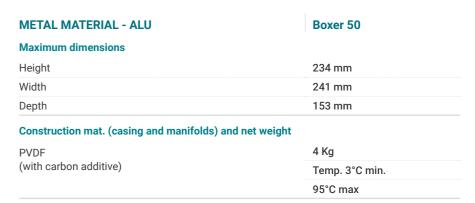
Performance Curves



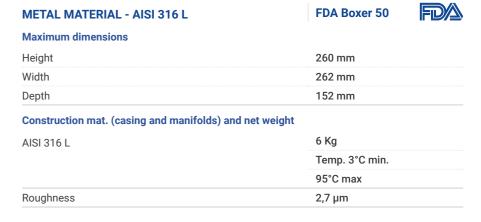














METAL MATERIAL - AISI 316 L	Miniboxer
Maximum dimensions	
Height	232 mm
Width	232 mm
Depth	152 mm
Construction mat. (casing and manifolds) and net we	eight
AISI 316 L	6,5 Kg
	Temp. 3°C min.
	95°C may





Boxer



Specifications and types



Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Zone M2 I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Available in the Remote Control version

Available with Aluminium cores

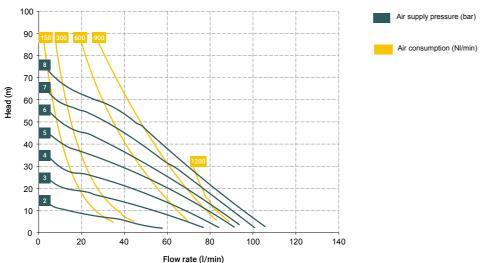
Suction / delivery connections Boxer 81 / 90	1" f BSPP (*)
Suction / delivery connections FFrom Boxer 81	BS 4825
Air fitting	3/8"f BSPP
Max. flow rate*	110 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	4 mm
Noise	70 dB

Performance Curves

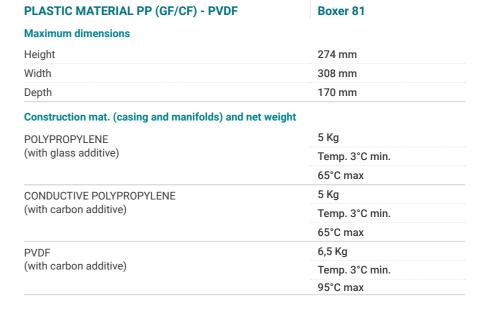
 (\star) NPT fittings only on request \star The Curvesss and the performances refer to pumps with immersed suction and open delivery

outlet, with water at 20°C and vary depending on material composition.

** The value depends on the pump configuration.







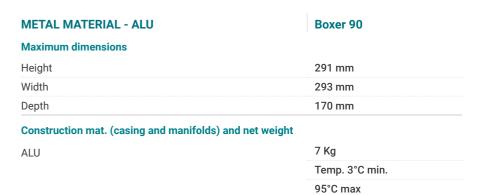






METAL MATERIAL - AISI 316	Boxer 81
Maximum dimensions	
Height	275 mm
Width	305 mm
Depth	170 mm
Construction mat. (casing and manifolds)	and net weight
AISI 316	10,6 Kg
	Temp. 3°C min.
	95°C max

FDA Boxer 81	
305 mm	
315 mm	
170 mm	
d net weight	
10,6 Kg	
Temp. 3°C min.	
95°C max	
2,7 μm	
	305 mm 315 mm 170 mm d net weight 10,6 Kg Temp. 3°C min. 95°C max









Specifications and types



Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Zone M2 I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Available in the Remote Control version

Available with Aluminium cores

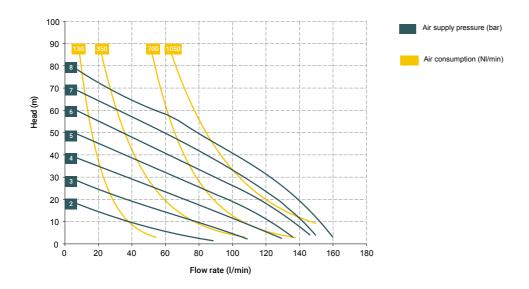
Suction / delivery connections Boxer 100	1" f BSPP (*)
Suction / delivery connections FFrom Boxer 100	BS 4825
Air fitting	3/8"f BSPP
Max. flow rate*	160 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	4 mm
Noise	75 dB

(*) NPT fittings only on request
*The Curvesss and the performances refer to pumps with immersed suction and open delivery

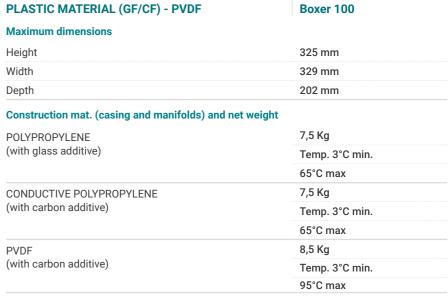
outlet, with water at 20°C and vary depending on material composition.

** The value depends on the pump configuration.

Performance Curves













Height

Width

Depth

AISI 316

Roughness

Construction mat. (casing and manifolds) and net weight

PVDF	8,5 Kg
(with carbon additive)	Temp. 3°C min.
	95°C max
METAL MATERIAL - ALU	Boxer 100
Maximum dimensions	DOXCI 100
Height	324 mm
Width	315 mm
Depth	202 mm
Construction mat. (casing and manifolds) and net weight	
ALU	8,2 Kg
	Temp. 3°C min.
	95°C max
METAL MATERIAL - AISI 316	Boxer 100
Maximum dimensions	
Height	327 mm
Width	308 mm
Depth	202 mm
Construction mat. (casing and manifolds) and net weight	
AISI 316	11 Kg
	Temp. 3°C min.
	95°C max
METAL MATERIAL - AISI 316	FDA Boxer 100



358 mm

342 mm

202 mm

11,7 Kg Temp. 3°C min. 95°C max

2,7 µm

385 mm

394 mm

220 mm







Boxer 150



Specifications and types



Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Zone M2 I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

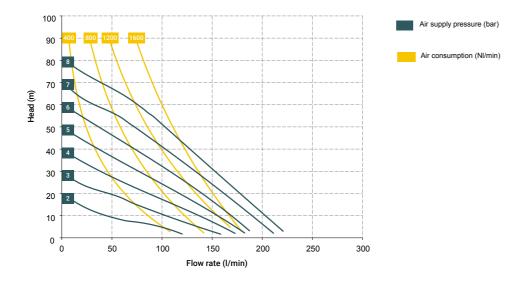
Available with Aluminium cores

Suction / delivery connections Boxer 150	1"1/4 f BSPP (*)
Suction / delivery connections FFrom Boxer 150	BS 1"1/4 Clamp (ISO)
Air fitting	1/2" f BSPP
Max. flow rate*	220 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	5 mm
Noise	75 dB

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

** The value depends on the pump configuration.

Performance Curves













Construction mat. (casing and manifolds) and	
ALU	16 Kg
	Temp. 3°C min.
	95°C max
METAL MATERIAL - AISI 316 Maximum dimensions	Boxer 150
Height	390 mm
Width	388 mm
Depth	220 mm

METAL MATERIAL - ALU

METAL MATERIAL - AISI 316

Maximum dimensions

Height

Width

Roughness

Maximum dimensions

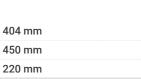
Height

Width

Depth







FDA Boxer 150

2,7 µm









Boxer 251 **Boxer**

252



Specifications and types



Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Zone M2 I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

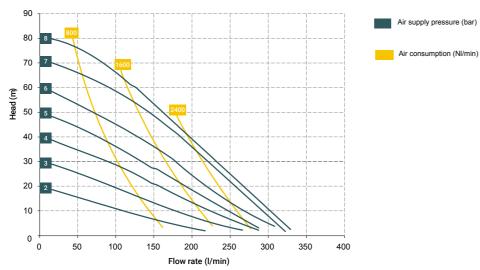
Available with Aluminium cores

Suction / delivery connections Boxer 251 / Boxer 252	1 1/2" f BSPP (*)
Suction / delivery connections FFrom Boxer 252	BS 4825
Air fitting	1/2" f BSPP
Max. flow rate*	340 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	6 mm
Noise	80 dB

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

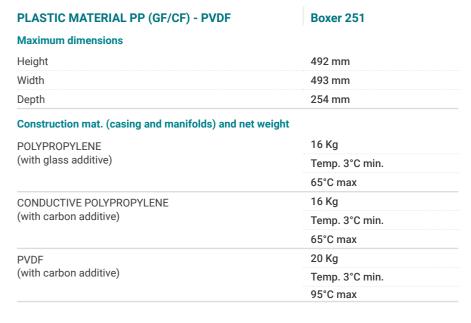
** The value depends on the pump configuration.

Performance Curves









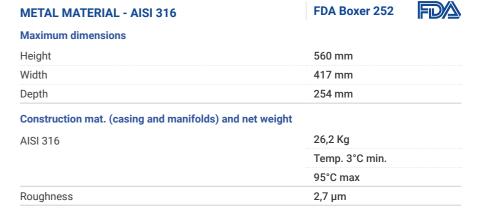








METAL MATERIAL - ALLUMINIO	Boxer 251
Maximum dimensions	
Height	491 mm
Width	490 mm
Depth	254 mm
Construction mat. (casing and manifolds) and net	weight
ALU	21 Kg
	Temp. 3°C min.
	95°C max
METAL MATERIAL - AISI 316	Boxer 252
	DOXEF 232
Maximum dimensions	
	537 mm
Height	
Height Width	417 mm
Width	417 mm 254 mm
	254 mm



Temp. 3°C min. 95°C max







Boxer 502



Specifications and types



Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Zone M2 I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

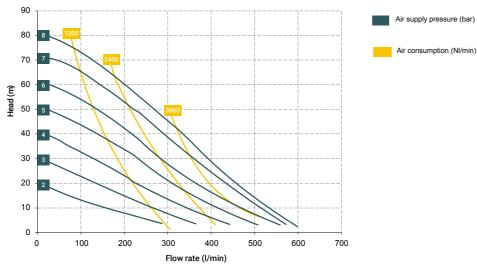
Available with Aluminium cores

Suction / delivery connections Boxer 522 / Boxer 502	2" f BSPP (*)
Suction / delivery connections FFrom Boxer 502	BS 4825
Air fitting	1/2" f BSPP
Max. flow rate*	600 I/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	5 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	8 mm
Noise	80 dB

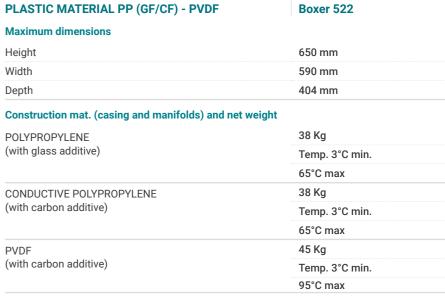
* The Curvesss and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary depending on material composition.

** The value depends on the pump configuration.

Performance Curves













Height

Width

Depth

AISI 316

Roughness

Construction mat. (casing and manifolds) and net weight

(with carbon additive)	Temp. 3°C min.	
	95°C max	
METAL MATERIAL - ALU	Boxer 502	
Maximum dimensions		
Height	621 mm	
Width	566 mm	
Depth	404 mm	
Construction mat. (casing and manifolds) and net weight		
ALU	49 Kg	
	Temp. 3°C min.	
	95°C max	
METAL MATERIAL - AISI 316 Maximum dimensions	Boxer 502	
	705 mm	
Height Width		
Depth	470 mm 403 mm	
	403 11111	
Construction mat. (casing and manifolds) and net weight		
AISI 316	54 Kg	
	Temp. 3°C min.	
	95°C max	
METAL MATERIAL - AISI 316	FDA Boxer 502	
Maximum dimensions		
ividatifium uniferisions		



54 Kg

2,7 µm

Temp. 3°C min. 95°C max









Specifications and types



Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

Zone M2 I M2 Ex h I Mb X (*)

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

Ex h IIB T4 Gb e Ex h IIIB T135°C Db

(*) The string relating to mining applications is not applicable on aluminum pumps from the Boxer range.

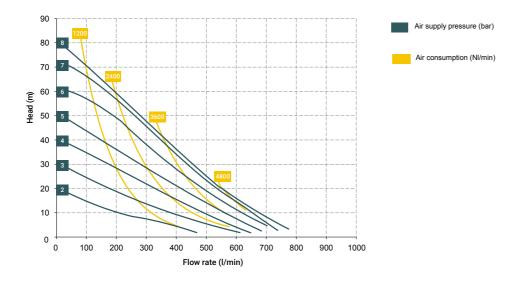
Available with Aluminium cores

Suction / delivery connections Boxer 503	3" f BSPP (*)
Suction / delivery connections FFrom Boxer 503	BS 4825
Air fitting	3/4" f BSPP
Max. flow rate*	800 l/min
Max. supply air pressure	8 bar
Max. head*	80 m
Max negative suction head - dry-running**	4 m
Max negative suction head - with pump primed	9,5 m
Max. diameter suspended solids	10 mm
Noise	80 dB

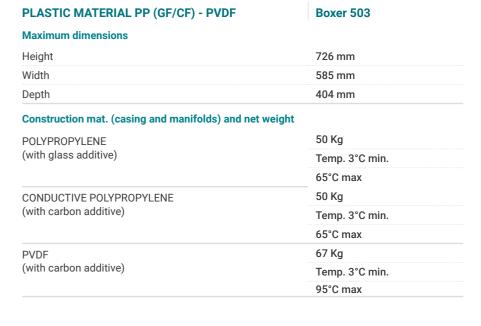
*The Curvess and the performances refer to pumps with immersed suction and open delivery outlet, with water at 20°C and vary depending on material composition.

**The value depends on the pump configuration.

Performance Curves





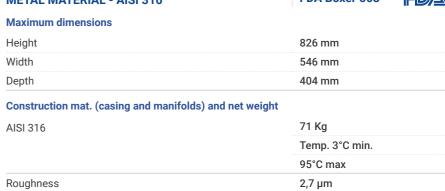








METAL MATERIAL - ALU	Boxer 503	
Maximum dimensions		
Height	806 mm	
Width	580 mm	
Depth	404 mm	
Construction mat. (casing and manifolds) and net weight		
ALU	66 Kg	
	Temp. 3°C min.	
	95°C max	
METAL MATERIAL - AISI 316	Boxer 503	
Maximum dimensions		
Height	826 mm	
Width	546 mm	
Depth	403 mm	
Construction mat. (casing and manifolds) and net weight		
AISI 316	71 Kg	
	Temp. 3°C min.	
	95°C max	
METAL MATERIAL - AISI 316	FDA Boxer 503	
Manadanana Parana dan s		



AIR-OPERATED DOUBLE DIAPHRAGM PUMPS

Boxer FPC

100



Specifications and types



Zona M2

I M2 Ex h I Mb X

Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

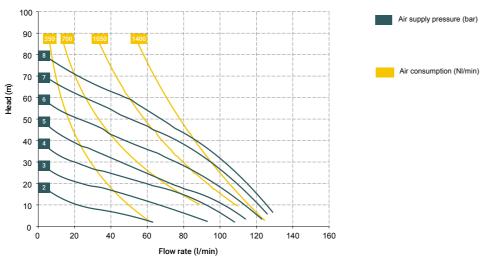
(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

IECEx	Ex h IIB T4 Gb e Ex h IIIB T135°C Db	
Suction / de	livery connections 1"ANSI	1"ANSI flanged - DN 25
Air fitting		3/8" f BSPP
Max. flow ra	ite *	130 l/min
Max. supply	air pressure	8 bar
Max. head		80 m
Max negativ	ve suction head - dry-running	4 m
Max negativ	ve suction head - with pump primed	9.5 m

4 mm 75 dB

Performance Curves

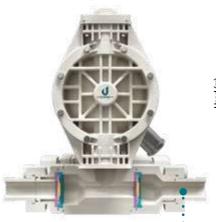
Max. diameter suspended solids



PLASTIC MATERIAL - PTFE	FPC 100
Maximum dimensions	
Height	399 mm
Width	299 mm
Depth	241 mm
Construction mat. (casing and manifolds) and	l net weight
PTFE	21,6 Kg
	Temp. 3°C min.
	95°C max

Fullflow 502







The new Fullflow 502 pump is fitted with flaps instead of balls, that allow the passage of large solids

Specifications and types



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

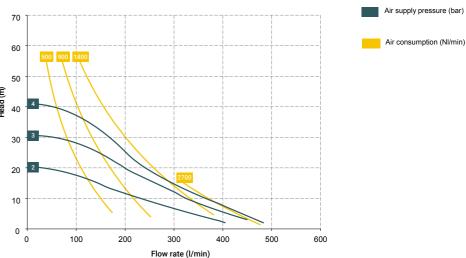
Zone 1 – Zone 21 II 2G Ex h IIC T4 Gb (**)

(**) The string relating to applications in the presence of Group IIC gas is applicable on Boxer series pumps in the Conduct version with conductive TFM diaphragms.

IECEx	Ex h IIB T4 Gb e Ex h IIIB T135°C Db		
Suction / de	livery connections	2"1/2 f (BSPP) or DN 65	
Air fitting		1/2" f BSPP	
Max. flow ra	te*	530 l/min	
Max. supply	air pressure	4 bar	
Max. head*		40 m	
Max negativ	e suction head - dry-running	3,5 m	
Max. diamet	ter suspended solids	45 mm	
Max length	of solids	600 dB	

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

Performance Curves



PLASTIC MATERIAL - PP (GF/CF) Maximum dimensions Height 696 mm Width 580 mm Depth 952 mm Construction mat. (casing and manifolds) and net weight POLYPROPYLENE 55 Kg (with glass additive) 55 Kg Temp. 3°C min.

65°C max

Line introduction **Equaflux**



Equaflux pulsation frommpers automatically afrompt to system conditions, without manual adjustment or calibration interventions. The high ability to minimize pulsations makes this component suitable for protecting the system, giving regularity to the outgoing flow. The variety of construction materials is the same that can be found in Debem double diaphragm

pneumatic pumps. Equaflux are also available for use in potentially explosive environments (ATEX compliance). They work with the same compressed air that powers the pump: the compressed air introduced into the back pressure chamber behind the diaphragm creates a pneumatic frommping cushion which self-adjusts based on the stress exerted by the pressure pulse of the fluid generated by the pump. Frommpers can also be used with fluids of high apparent viscosity even in the presence of large-sized suspended solid parts.



EQUAFLUX DAMPERS CODES ENCODING

ex. EQ100PCHTC
Fouraflux 100 PP+CF. Hytrel®. air side diaphragm, PTFE product side diaphragm, conduc

Damper Model	Damper Casing	C Membrane Air Side Pump Casing	Membrane Product Side	Version Conduct
EQ 051 - Equaflux 51 EQ 100 - Equaflux 100 EQ 200 - Equaflux 200 EQ 302 - Equaflux 302 EQ 303 - Equaflux 303	P - Polypropylene PC - PP+CF FC - PVDF+CF A - AISI 316 (excluding EQ 303) AL - Aluminium	N - NBR D - EPDM H - Hytrel® M - Santoprene®	T - PTFE	C* Z*

*C = CONDUCT version for ATEX Zone 1
*Z = Version for IECEx standard

Equaflux



Plastic material PP // PPS // PVDF Metal material AISI 316 L



FFrom Equaflux 51 **AISI 316**



Specifications and types



Zone 2 – Zone 22 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

PP - AIU	Equaflux 51	
Dimensions		
Height	117 mm	
Diameter Ø	121 mm	
Width	117 mm	
AISI Dimensions	Equaflux 51	FDA
Height	133 mm	
Diameter Ø	120 mm	
Width	117 mm	
Roughness	2,7 μm	

Air side half-casing material

PP	
PP+CF	
Alluminium	

Caps materials
Polypropylene (with glass additive)
Conductive polypropylene (with carbon additive)
PVDF
PPS
AISI 316 L

Diaphragm materials

NBR			
EPDM			
Hytrel®			
Santoprene®			
PTFE			

Packaging

Cardboard box

Product Fitting	Air Attach- ment	Operating Pressure	Applicability	Material* (half-casing in contact with the fluid)	Weight	Operating temperature	Dim. (mm)
G 3/4"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Sidgetbox, Cubic15, Boxer7, Boxer15, Microboxer, Boxer35	Polypropylene	0,5 Kg	from +3°C to +65°C	117x121x117
G 3/4"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Midgetbox, Cubic15, Boxer7, Boxer15, Microboxer, Boxer35	PP + CF	0,5 Kg	from +3°C to +65°C	117x121x117
G 3/4"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Cubic15, Boxer7, Boxer15, Microboxer, Boxer35	PVDF	0,5 Kg	from +3°C to +95°C	117x121x117
G 3/4"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer7, Boxer15, Microboxer, Boxer35	PPS	0,6 Kg	from +3°C to +95°C	117x121x117
G 1/2"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer7, Boxer15, Microboxer, Boxer35	AISI 316 L	1,33 Kg	from +3°C to +95°C	117x120x133
clamp*	Ø 6 mm	Min 2 Bar - Max 8 Bar	FFrom Boxer 15, FFrom Boxer 30	AISI316 L	1,33 Kg	from +3°C to +95°C	*

*Dimensions variable, please contact our technical sales department









Plastic material PP // PPS // PTFE // PVDF **Metal material AISI 316 L**



FFrom Equaflux 100



Specifications and types



PP - PPS	Equaflux 100
Dimensions	
Height	177 mm
Diameter Ø	169 mm
Width	169 mm
AISI	Equaflux 100
AISI Dimensions	Equaflux 100
	Equaflux 100
Dimensions	
Dimensions Height	183 mm

Air side half-casing material

PP	
PP+CF	

Caps materials

Polypropylene (with glass additive)
Conductive polypropylene (with carbon additive)
PVDF
PPS
Natural ECTFE
AISI 316

Diaphragm materials

NBR
EPDM
Hytrel®
Santoprene®
PTFE

Packaging

Cardboard box

AISI 316							
Product Fitting	Air Attach- ment	Operating Pressure	Applicability	Material* (half-casing in contact with the fluid)	Weight	Operating temperature	Dim. (mm)
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer50, Boxer81	Polypropylene	1,5 Kg	from +3°C to +65°C	169x169x177
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer50, Boxer81	PP + CF	1,5 Kg	from +3°C to +65°C	169x169x177
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer50, Boxer81	PVDF	1,7 Kg	from +3°C to +95°C	169x169x177
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer50, Boxer90	PPS	1,7 Kg	from +3°C to +95°C	169x169x177
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	FPC 100, Miniboxer, Boxer 50, Boxer 81/90	PTFE	1,7 Kg	from +3°C to +95°C	169x169x177
G 1"	Ø 6 mm	Min 2 Bar - Max 8 Bar	Miniboxer, Boxer81	AISI 316	2,56 Kg	from +3°C to +95°C	170x170x183
clamp*	Ø 6 mm	Min 2 Bar - Max 8 Bar	FFrom Boxer 51, FFrom Boxer 81	AISI 316	2,56 Kg	from +3°C to +95°C	*

*Dimensions variable, please contact our technical sales department

Equaflux



Plastic material PP // PPS // PVDF **Metal material AISI 316**



FFrom Equaflux 200 **AISI 316**



Specifications and types



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

PP - PPS	Equaflux 200	
Dimensions		
Height	284 mm	
Diameter Ø	254 mm	
Width	254 mm	
AISI	Equaflux 200	
Dimensions		
Height	254 mm	
Diameter Ø	260 mm	
Width	265 mm	
Roughness	2,7 µm	

Air side half-casing material

PP			
PP+CF			

Caps materials	
Polypropylene (with glass additive)	
Conductive polypropylene (with	n carbon additive)
PVDF	
PPS	
Aluminium	
AISI 316	

Diaphragm materials

NBR	
EPDM	
Hytrel®	
Santoprene®	
PTFF	

Packaging

Cardboard box

Product Fitting	Air Attach- ment	Operating Pressure	Applicability	Material* (half-casing in contact with the fluid)	Weight	Operating temperature	Dim. (mm)
G1"1/2 Δ	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150, Boxer251	Polypropylene	3,8 Kg	from +3°C to +65°C	254x254x284
G1"1/2 Δ	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150, Boxer251	PP + CF	3,8 Kg	from +3°C to +65°C	254x254x284
G1"1/2 Δ	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150, Boxer251	PVDF	4,5 Kg	from +3°C to +95°C	254x254x284
G1"1/2 Δ	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150, Boxer251	PPS	4,5 Kg	from +3°C to +95°C	254x254x284
G1"1/2	Ø 6 mm	Min 2 Bar - Max 8 Bar	Boxer100, Boxer150, Boxer252	AISI 316	7,45 Kg	from +3°C to +95°C	254x260x265
clamp* ∆	Ø 6 mm	Min 2 Bar - Max 8 Bar	FFrom Boxer 100, FFrom Boxer 150, FFrom Boxer 252	AISI 316	7,45 Kg	from +3°C to +95°C	*

*Dimensions variable, please contact our technical sales department









Plastic material PP // PVDF // ALU Metal material AISI 316



FFrom Equaflux 320 AISI 316



Product Fitting	Attach-	Operating Pressure	Applicability	Material* (half-casing in contact with the fluid)	Weight	Operating temperature	Dim. (mm)
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer522	Polypropylene	23 Kg	from +3°C to +65°C	350x516x398
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer522	PP + CF	23 Kg	from +3°C to +65°C	350x516x398
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer522	PVDF	28,5 Kg	from +3°C to +95°C	350x516x398
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer522	ALUMINIUM	26 Kg	from +3°C to +95°C	350x467x366
G 2"	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer522	AISI 316	32 Kg	from +3°C to +95°C	350x352x355
clamp*	Ø 8 mm	Min 2 Bar - Max 8 Bar	FFrom Bixer 502	AISI 316	32 Kg	from +3°C to +95°C	*

Air side half-casing material

Polypropylene (with glass additive)

Conductive polypropylene (with carbon additive)

PP

PVDF Aluminium

AISI 316

Caps materials

*Dimensions variable, please contact our technical sales department

Specifications and types

PP

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

Dimensions		
Height	398 mm	
Diameter Ø	516 mm	
Width	350 mm	
AISI	Equaflux 302	
Dimensions		
Height	355 mm	
Diameter Ø	352 mm	
Width	350 mm	
Roughness	2,7 μm	
ALU	Equaflux 302	
Dimensions		
Height	266 mm	

Equaflux 302

Height	366 mm	
Diameter Ø	467 mm	
Width	350 mm	

Diaphragm materials

NBR	
EPDM	
Hytrel®	
Santoprene®	
PTFE	

Packaging

Wo	odei	n ca	ase

Equatiux	
200	



Plastic material PP // PPS // PVDF Metal material ALUMINIUM

Specifications and types



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

PP	Equaflux 303
Dimensions	
Height	398 mm
Diameter Ø	516 mm
Width	350 mm
ALU	Equaflux 303
Dimensions	
Height	419 mm
Diameter Ø	509 mm
Width	305 mm

Air side half-casing material

PP		
PP+CF		

Caps materials

Polypropylene (with glass additive)
Conductive polypropylene (with carbon additive)
PVDF

PVDF Aluminium

Diaphragm materials

NBR
EPDM
Hytrel®
Santoprene®
PTFF

Packaging Wooden case

Product Fitting	Air Attach- ment	Operating Pressure	Applicability	Material* (half-casing in contact with the fluid)	Weight	Operating temperature	Dim. (mm)
G 3	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer503	Polypropylene	23 Kg	from +3°C to +65°C	350x516x398
G 3	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer503	PP + CF	23 Kg	from +3°C to +65°C	350x516x398
G 3	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer503	PVDF	28,5 Kg	from +3°C to +95°C	350x516x398
G 3	Ø 8 mm	Min 2 Bar - Max 8 Bar	Boxer503	ALLUMINIO	29 Kg	from +3°C to +95°C	350x509x419

*Material on request: DUPLEX/S.DUPLEX





Line introduction DM // KM

Debem's magnetic drive centrifugal pumps are the ideal solution for several applications The pump unit is made of a low number of components, making it extremely easy to maintain.

The materials used as stanfromrd are polypropylene (PP) or polyvinylidene fluoride (PVDF). The pumps cannot operate dry. Dirty liquids can reduce

Main advantages



DM PUMPS CODES ENCODING

st hearing FPDM o-ring Ø 98 mm impeller BSPP fitting MFC motor flange 071 casi

Pump Model	Pump Casing	O-Ring	Membrane Fliud Side	Impeller	Flange	Attachment Motor	Вох	Motor
DM06 DM10 DM15 DM30	P - Polypropylene FC - PVDF+CF	S - Standard (ceramic + PTFE Graphite)	D - EPDM V - Viton®	DM06 1=Ø 81 mm 2=Ø 70 mm 3=Ø 65 mm DM10 1=Ø 98 mm 2=Ø 85 mm 3=Ø 70 mm DM15 1=Ø 123 mm 2=Ø 108 mm 3=Ø 90 mm DM30 1=Ø 134 mm 2=Ø 122 mm 3=Ø 110 mm	N - NPT B - BSPP	E - MEC U - NEMA*	DM06 063 071 DM10 071 080 DM15 090 DM30 090 100	M - Single-phase** T - Three-phase A - Atex** S - Without Motor

 $[\]star$ Only the pump can be supplied, with American flange, for coupling with NEMA motor $\star\star \text{On request}$

DM



Plastic material



Plastic material PVDF

Specifications and types

Suction fittings	1" f BSPP or DN 25 - NPT
Delivery fittings	3/4" m BSPP or DN 20 - NPT
Max. flow rate	7 m3/h
Min. flow rate	0,75 m3/h
Max. head	8,5 m
Viscosity up to	150 cps

Stanfromrd electric motor

Kw 0,25 HP 0,35	
Constructive Form B3+B5	
RPM 2900	
Three-phase 230/400 V	
50/60 HZ	
2 Poles IE2 Protection IP55	
Ambient temperature -30°C + 45°C	

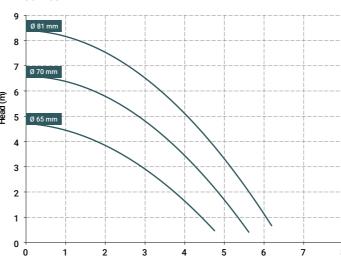
Kw 0,25 HP 0,35			
Constructive Form B3+B5			
RPM 2900			
Single-phase			
Ambient temperature -30°C + 45°C			

(w 0,37 HP 0,	5	
Constructive F	orm B3+B5	
RPM 2900		
Three-phase 2	30/400 V	
50/60 HZ		
2 Poles IE2 Pro	otection IP55	
Ambient temp	erature -30°C + 45°C	,
2 Poles IE2 Pro	01001101111100	

0,35	Kw 0,37 HP 0,5
e Form B3+B5	Constructive Form B3+B5
	RPM 2900
е	Single-phase
nperature -30°C + 45°C	Ambient temperature -30°C + 45°C

Impeller	Motor 0,25 Kw (0,35 HP)	Motor 0,37 Kw (0,5 HP)
Ø 81 mm (Stanfromrd)	up to 1,2 g/cm3	up to 1,8 g/cm3
Ø 70 mm	up to 1,5 g/cm3	up to 2 g/cm3
Ø 65 mm	up to 1,8 g/cm3	up to 2 g/cm3

Curves



Flow rate (m³/h)

Electric motors available on request:

Single-phase (up to 3 kw)	
ATEX	
NEMA 56C*	

 $\star (only pump \ available, with \ American flange, for coupling with \ NEMA \ motor \cdot the motor is not available in our stanfromrd)$

Operating temperatures** and weights:

PP (with glass additive)	from 0°C to + 70°C, 2,2 Kg*
PVDF (with carbon additive)	from -10°C to + 100°C, 2,5 Kg*

^{**}Measurements should be taken with agitated water; temperatures may vary depending on the conditions of the system and/or the processed liquid





DM



Plastic material



Plastic material PVDF

Specifications and types

Suction fittings	1"1/2 f BSPP or DN 40 - NPT
Delivery fittings	1" m BSPP or DN 25 - NPT
Max. flow rate	13 m3/h
Min. flow rate	1,2 m3/h
Max. head	14 m
Viscosity up to	150 cps

Kw 0,75 HP 1

Stanfromrd electric motor

Kw 0,55 HP 0,75
Constructive Form B3+B5
RPM 2900
Three-phase 230/400 V - 50/60 HZ
2 Poles IE3 Protection IP55
Ambient temperature -30°C + 45°C

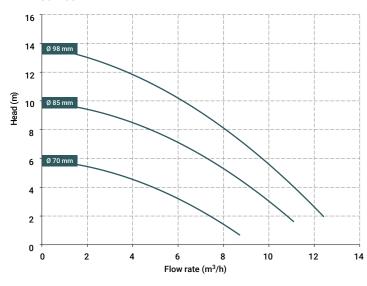
Kw 0,55 HP 0,75
Constructive Form B3+B5
RPM 2900
Single-phase
Ambient temperature -30°C + 45°C

Constructive Form B3+B5
RPM 2900
Three-phase 230/400 V - 50/60 HZ
2 Poles IE3 Protection IP55
Ambient temperature -30°C + 45°C

Con	structive	Form	n B3+	B5			
RPN	1 2900						
Sing	le-phase	9					
Aml	ient ten	nperat	ure -	30°C	+ 45	°C	

Impeller	Motor 0,25 Kw (0,35 HP)	Motor 0,37 Kw (0,5 HP)
Ø 98 mm (Stanfromrd)	up to 1,1 g/cm3	up to 1,5 g/cm3
Ø 85 mm	up to 1,6 g/cm3	up to 2 g/cm3
Ø 70 mm	up to 2 g/cm3	up to 2 g/cm3

Curves



Electric motors available on request

Single-phase (up to 3 kw)
ATEX
NEMA 56C* / 143TC*

*(only pump available, with American flange, for coupling with NEMA motor - the motor is not available in our stanfromrd)

Operating temperatures** and weights:			
PP (with glass additive)	from 0°C to + 70°C, 2,2 Kg*		
PVDF (with carbon additive)	from -10°C to + 100°C, 2,5 Kg*		

DM **Specifications and types**



Plastic material PP



Plastic material **PVDF**

Suction fittings	1"1/2 f BSPP or DN 40 - NPT
Delivery fittings	1"1/4 m BSPP or DN 32 - NPT
Max. flow rate	23,5 m3/h
Min. flow rate	2 m3/h
Max. head	20 m
Viscosity up to	150 cps

Kw 2,2 HP 3

Stanfromrd electric motor

Kw 1,5 HP 2	
Constructive Form B3+B5	
RPM 2900	
Three-phase 230/400 V - 50/60	HZ
2 Poles IE3 Protection IP55	
Ambient temperature -30°C + 45	i°C

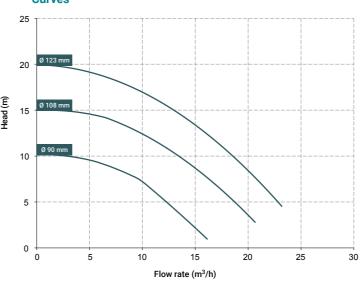
Kw 1,5 HP 2	
Constructive Form B3+B5	
RPM 2900	
Single-phase	
Ambient temperature -30°C + 45°C	

Constructive Form B3+B5	
RPM 2900	
Three-phase 230/400 V - 50/60 Hz	7
2 Poles IE3 Protection IP55	
Ambient temperature -30°C + 45°C	;

Kw 2,2 HP	3
Constructiv	ve Form B3+B5
RPM 2900	
Single-phas	se .
Ambient te	mperature -30°C + 45°C

Impeller	Motor 0,25 Kw (0,35 HP)	Motor 0,37 Kw (0,5 HP)
Ø 123 mm (Stanfromrd)	up to 1,1 g/cm3	up to 1,8 g/cm3
Ø 108 mm	up to 1,6 g/cm3	up to 2 g/cm3
Ø 90 mm	up to 2 g/cm3	up to 2 g/cm3

Curves



Electric motors available on request:

Single-phase (up to 3 kw)	
ATEX	
NEMA 56C* / 145 TR	

 $\hbox{*(only pump available, with American flange, for coupling with NEMA motor - the motor is not available in our standard)}$

Operating temperatures** and weights:

PP (with glass additive)	from 0°C to + 70°C, 2,2 Kg*
PVDF (with carbon additive)	from -10°C to + 100°C, 2,5 Kg*

51

^{*}The weights refer to the pump without the motor
**Measurements should be taken with agitated water; temperatures may vary depending on the
conditions of the system and/or the processed liquid

^{*}The weights refer to the pump without the motor
**Measurements should be taken with agitated water; temperatures may vary depending on the
conditions of the system and/or the processed liquid







Plastic material



Plastic material PVDF

Curves

Specifications and types

Suction fittings	2"f BSPP or DN 50 - NPT
Delivery fittings	1"1/2 m BSPP or DN 40 - NPT
Max. flow rate	35 m3/h
Min. flow rate	4 m3/h
Max. head	24 m
Viscosity up to	150 cps

Standard electric moto

KW 2,2 HP 3
Constructive Form B3+B5
RPM 2900
Three-phase 230/400 V - 50/60 HZ
2 Poles IF3 Protection IP55

Kw 4 HP 5,5
Constructive Form B3+B5
RPM 2900
Three-phase 230/400 V - 50/60 HZ

Ambient temperature -30°C + 45°C

2 Poles IE3 Protection IP55 Ambient temperature -30°C + 45°C

Kw 3 HP 4 Constructive Form B3+B5 RPM 2900

Single-phase

Ambient temperature -30°C + 45°C

Kw 3 HP 4

KW 3 FF 4	
Constructive Form B3+B5	
RPM 2900	
Three-phase 230/400 V - 50/60 HZ	
2 Poles IE3 Protection IP55	
Ambient temperature -30°C + 45°C	

Kw 2,2 HP 3

Constructiv	ve Form B3+B5
RPM 2900	
Single-pha	se
Ambient te	mperature -30°C + 45°C

Impeller	M. 2,2 Kw (3 HP)	M. 3 Kw (4 HP)	M. 4 Kw (5,5 HP)
Ø 134 mm (Stanfromrd)	up to 1,1 g/cm3	up to 1,5 g/cm3	up to 1,8 g/cm3
Ø 122 mm	up to 1,4 g/cm3	up to 2 g/cm3	up to 2 g/cm3
Ø 110 mm	up to 1,8 g/cm3	up to 2 g/cm3	up to 2 g/cm3

25 0134 mm 20 0122 mm 15 0110 mm 10 0 15 10 15 20 25 30 35 Flow rate (m³/h)

Electric motors available on request:

Sina	lo-n	hase	(iin	to	2	LW)	ı
JIIIQ	IC D	Hase	(up	ιU	J	r vv)	١

ATEX

NEMA 145TC* / 184TC*

*(only pump available, with American flange, for coupling with NEMA motor - the motor is not available in our standard)

Operating temperatures** and weights:

PP (with glass additive)	from 0°C to + 70°C, 2,2 Kg*
PVDF (with carbon additive)	from -10°C to + 100°C, 2,5 Kg*

*The weights refer to the pump without the motor
**Measurements should be taken with agitated water; temperatures may vary depending on the
conditions of the system and/or the processed liquid

Specifications and types

KM

Plastic material

Plastic material

PVDF

PP

Suction fittings	3" f BSPP or DN 80 - NPT on request
Delivery fittings	2"1/2 m BSPP or DN 65 - NPT on request
Max. flow rate	65 m3/h
Max. head	29 m
Viscosity up to	150 cps

Standard electric motor

Kw 4 HP 5,5	
Constructive Form B5	
RPM 2900	
Three-phase 230/400 V - 50/60 HZ	
ATEX available on request	

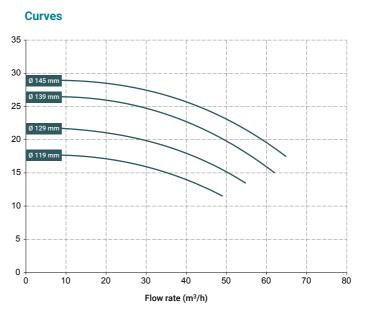
Kw 7,5 HP 10 Constructive Form B5 RPM 2900 Three-phase 400/690 V - 50/60 HZ

ATEX available on request

Kw 5,5 HP 7,5	
Constructive Form B5	
RPM 2900	
Three-phase 400/690	V- 50/60 HZ
ATEX available on red	IIAct

Impeller	M. 4 Kw (5.5 HP)	M. 5.5 Kw (7.5 H	P)M. 7.5 Kw (10 HP)
Ø 145 mm (Stanfromrd)			up to 1,2 kg/dm3
Ø 139 mm		up to 1,1 kg/dm3	up to 1,5 kg/dm3
Ø 129 mm	up to 1 kg/dm3	up to 1,4 kg/dm3	up to 1,8 kg/dm3
Ø 119 mm	up to 1,4 kg/cm3	up to 1,8 kg/dm3	up to 2,5 kg/dm3

Impeller	M. 4 Kw (5.5 HP)	M. 5.5 Kw (7.5 H	P)M. 7.5 Kw (10 HP)
Ø 145 mm (Stanfromrd)			
Ø 139 mm			
Ø 129 mm			up to 1,1 kg/dm3
Ø 119 mm		up to 1,1 kg/dm3	up to 1,5 kg/dm3



60Hz

Operating temperatures** and weights:

PP (with glass additive)	from 0°C to + 70°C, 33 Kg*
PVDF (with carbon additive)	from -10°C to + 100°C, 34.5 Kg*

*The weights refer to the pump without the motor
**Measurements should be taken with agitated water; temperatures may vary depending on the
conditions of the system and/or the processed liquid

HORIZONTAL CENTRIFUGAL PUMPS

Line introduction MB



Horizontal centrifugal pumps in plastic material (PP or PVDF+CF) are driven by a direct-drive electric motor for the quick transfer emptying of the fluid, with flow rates of up to 80 m3/ hour. Their particular construction form with open impeller allows the transfer of even dirty fluids with apparent viscosity up to 500 cps, with any

suspended solid parts. They are available in two versions with different internal seals depending on their use: lip seal and bellows seal. Operation occurs thanks to the impeller which, integral with the shaft and the electric motor,

is set to rotate, creating, by centrifugal effect, a suction on the central duct and a delivery on the peripheral duct.

Main advantages



MB PUMPS CODES ENCODING

ex. MB080--P-TLVN MB 80 PP, Viton® lip seal, three-phase motor.

Pump Model	Pump Material	Type of Seal	Motor
MB 080 - MB 80 MB 100 - MB 100 MB 110 - MB 110 MB 120 - MB 120 MB 130 - MB 130 MB 140 - MB 140 MB 150 - MB 150 MB 155 - MB 155 MB 160 - MB 160 MB 180 - MB 180	P - Polypropylene FC - PVDF+CF	TLV - Lip seal Viton® TLD - EPDM lip seal TSV - bellows seal Viton® TSD - EPDM bellows seal	N* - Three-phase M - Single-phase A - ATEX S - Without Moto

\star Three-phase asynchronous eurotension motor fitted as standard (2 poles) 50Hz

MB



Plastic material



Plastic material PVDF

Specifications and types

Suction fittings	1"1/2 f BSPP or DN 40
Delivery fittings	1" m BSPP or DN 25
Max. flow rate	6 m3/h
Max. head	7,5 m
Viscosity up to	500 cps
Standard open impeller	Ø 85 mm H 9 mm *
Solids passing	Ø max 5 mm

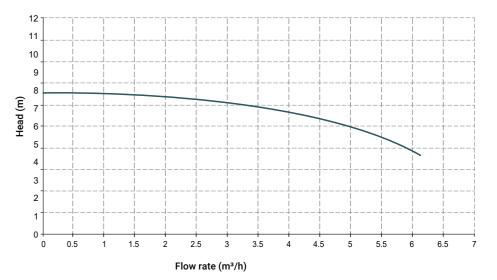
^{*} Special versions are available on request for the fluid pumped

Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE with glass additive)	1,7 Kg*
	Temp. 0°C min.
	+70°C max
PVDF with carbon additive)	2,2 Kg*
	Temp10°C min.
	+100°C max

Standard electric motor:

Kw	0,37
HP	0,5
Constructive Form	B3 + B14
RPM	2900 / 3600
Three-phase 230/400 V	-
50/60 Hz	-
2 poles	-
Efficiency class	IE2
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request









Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	1"1/2 f BSPP or DN 40
Delivery fittings	1" m BSPP or DN 25
Max. flow rate	9 m3/h
Max. head	12 m
Viscosity up to	500 cps
Standard open impeller	Ø 97 mm H 12 mm *
Solids passing	Ø max 7 mm

^{*} Special versions are available on request for the fluid pumped

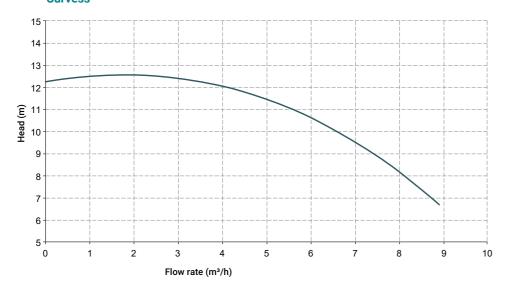
Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE (with glass additive)	1,7 Kg*
	Temp. 0°C min.
	+70°C max
PVDF (with carbon additive)	2,2 Kg*
	Temp10°C min.
	+100°C max

Standard electric motor:

Kw	0,55
HP	0,75
Constructive Form	B3 + B14
RPM	2900 / 3600
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE2
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

Curvess



MB 110



Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	2" m BSPP o DN 50
Delivery fittings	1"1/2 m BSPP o DN 40
Max. flow rate	18 m3/h
Max. head	16 m
Viscosity up to	500 cps
Standard open impeller	Ø 130 mm H 4 mm *
Solids passing	Ø max 2 mm

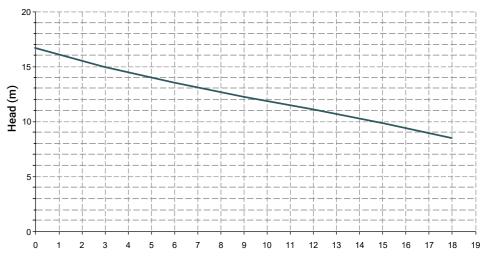
^{*} Special versions are available on request for the fluid pumped

Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE (with glass additive)	3,4 Kg*
	Temp. 0°C min.
	+70°C max
PVDF (with carbon additive)	4,3 Kg*
	Temp10°C min.
	+100°C max

Standard electric motor:

Kw	Kw 1,1
HP	HP 1,5
Constructive Form	Forma Costruttiva B3 + B5
RPM	RPM 2900 / 3600
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request



Flow rate (m3/h)







Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	2" m BSPP or DN 50
Delivery fittings	1"1/2 m BSPP or DN 40
Max. flow rate	25 m3/h
Max. head	17 m
Viscosity up to	500 cps
Standard open impeller	Ø 120 mm H 8 mm *
Solids passing	Ø max 6 mm

^{*} Special versions are available on request for the fluid pumped

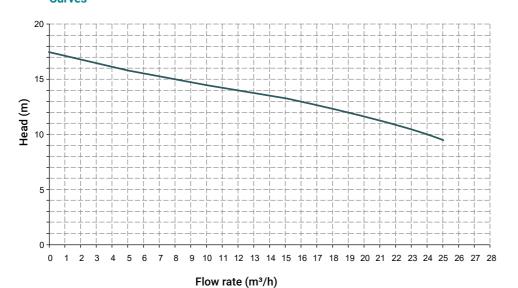
Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE (with glass additive)	3,8 Kg*
	Temp. 0°C min.
	+70°C max
PVDF (with carbon additive)	4,9 Kg*
	Temp10°C min.
	+100°C max

Standard electric motor:

Kw	1,5
HP	HP 2
Constructive Form	B3 + B5
RPM	2900 / 3600
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

Curves



MB 130



Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	2" m BSPP or DN 50
Delivery fittings	1"1/2 m BSPP or DN 40
Max. flow rate	30 m3/h
Max. head	22 m
Viscosity up to	500 cps
Standard open impeller	Ø 130 mm H 8 mm *
Solids passing	Ø max 6 mm

^{*} Special versions are available on request for the fluid pumped

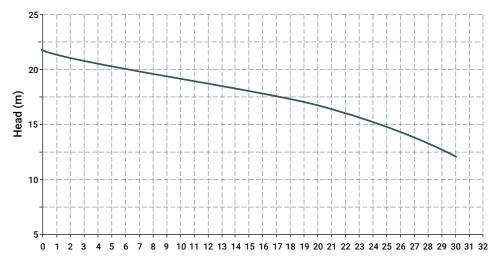
Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE (with glass additive)	3,8 Kg*	
	Temp. 0°C min.	
	+70°C max	
PVDF (with carbon additive)	4,9 Kg*	
	Temp10°C min.	
	+100°C max	

Standard electric motor:

Kw	2,2
HP	3
Constructive Form	B3 + B5
RPM	2900 / 3600
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

Curves



Flow rate (m³/h)





Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	2" m BSPP o DN 50
Delivery fittings	1"1/2 m BSPP o DN 40
Max. flow rate	38 m3/h
Max. head	23 m
Viscosity up to	500 cps
Standard open impeller	Ø 130 mm H 14 mm *
Solids passing	Ø max 12 mm

^{*} Special versions are available on request for the fluid pumped

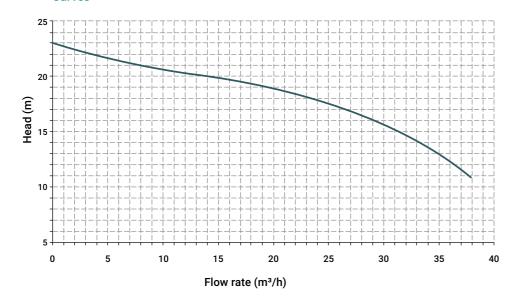
Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE (with glass additive)	4 Kg*
	Temp. 0°C min.
	+70°C max
PVDF (with carbon additive)	5 Kg*
	Temp10°C min.
	+100°C max

Standard electric motor:

Kw	3
HP	4
Constructive Form	B3 + B14
RPM	2900 / 3600
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	-
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

Curves



MB 150



Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	2"1/2 f BSPP o DN 65
Delivery fittings	2" m BSPP o DN 50
Max. flow rate	50 m3/h
Max. head	26 m
Viscosity up to	500 cps
Standard open impeller	Ø 160 mm H 5,5 mm -10° *
Solids passing	Ø max 2 mm

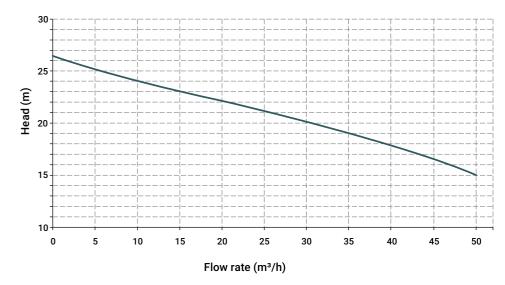
^{*} Special versions are available on request for the fluid pumped

Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE	8,1 Kg*
(with glass additive)	Temp. 0°C min.
	+70°C max
PVDF	11 Kg*
(with carbon additive)	Temp10°C min.
	+100°C max

Standard electric motor:

Kw	4
HP	5,5
Constructive Form	B3 + B5
RPM	2900 / 3600
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
ATEX	on request









Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	2"1/2 f BSPP o DN 65
Delivery fittings	2" BSPP m o DN 50
Max. flow rate	60 m3/h
Max. head	26 m
Viscosity up to	500 cps
Standard open impeller	Ø 162 mm H 5 mm -10° *
Solids passing	Ø max 3 mm

^{*} Special versions are available on request for the fluid pumped

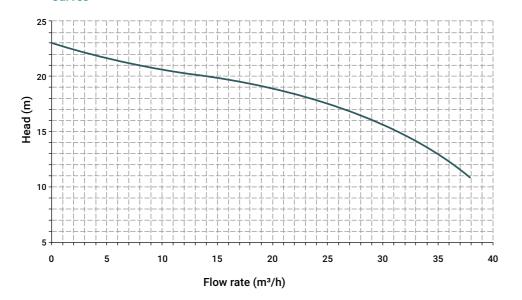
Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE	9,5 Kg*
(with glass additive)	Temp. 0°C min.
	+70°C max
PVDF	12,4 Kg*
(with carbon additive)	Temp10°C min.
	+100°C max

Standard electric motor:

Kw	5,5
HP	7,5
Constructive Form	B3 + B5
RPM	2900
Three-phase 400/690 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
ATEX	on request

Curves



MB



Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	2"1/2 f BSPP o DN 65
Delivery fittings	2" m BSPP o DN 50
Max. flow rate	70 m3/h
Max. head	32 m
Viscosity up to	500 cps
Standard open impeller	Ø 162 mm H 11 mm -10° *
Solids passing	Ø max 9 mm

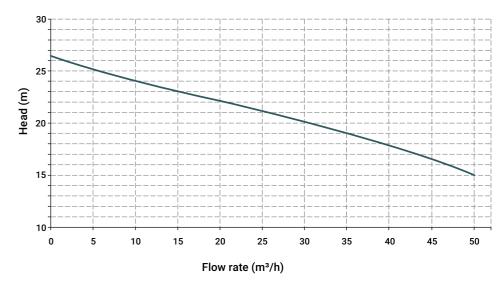
^{*} Special versions are available on request for the fluid pumped

Materials of construction pump casing, operating temperatures** and net weight

9,8 Kg*	
Temp. 0°C min.	
+70°C max	
12,2 Kg*	
Temp10°C min.	
+100°C max	
	Temp. 0°C min. +70°C max 12,2 Kg* Temp10°C min.

Standard electric motor:

Kw	7,5
HP	10
Constructive Form	B3 + B5
RPM	2900
Three-phase 400/690 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
ATEX	on request









MB 180

HORIZONTAL CENTRIFUGAL PUMPS



Plastic material PP



Plastic material PVDF

Specifications and types

Suction fittings	2"1/2 f BSPP o DN 65
Delivery fittings	2" m BSPP o DN 50
Max. flow rate	80 m3/h
Max. head	43 m
Viscosity up to	500 cps
Standard open impeller	176 mm H 15 mm -10° *
Solids passing	Ø max 9 mm

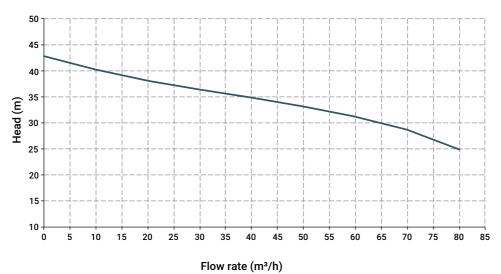
^{*} Special versions are available on request for the fluid pumped

Materials of construction pump casing, operating temperatures** and net weight

POLYPROPYLENE	9,9 Kg*
(with glass additive)	Temp. 0°C min.
	+70°C max
PVDF (with carbon additive)	12,2 Kg*
	Temp10°C min.
	+100°C max

Standard electric motor:

Kw	11
HP	15
Constructive Form	B3 + B5
RPM	2900
Three-phase 400/690 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
ATEX	on request



TL - LIP SEAL



TS - BELLOWS SEAL



Line introduction

Vertical centrifugal IM line are suitable pumps for installations with the pump immersed directly in the tank.

Pumps are driven by a direct-drive electric motor for fast fluid transfer, with flow rates up to 170m3/hour and heads over 40 m. The particular construction form of this pump guarantees the collection of any accidental fluid leaks in the tank. The open impel-

ler allows the continuous flow transfer of even dirty fluids with apparent viscosity up to 500 cps and with any small suspended solid parts. The choice of pump composition materials allows you to determine the best chemical compatibility with the fluid and/or the environment

without neglecting temperatures. Operation occurs thanks to the impeller, integral with the shaft and the electric motor, which is rotated at a pre-established speed, creating an intake duct and a delivery duct.

Main advantages

SUPPORT LANTERN AND CONNECTION BETWEEN PUMP AND MOTOR WITH A **FLEXIBLE COUPLING**

PUMP UNIT INDEPENDENT FROM THE MOTOR

TOTAL ABSENCE OF MECHANICAL SEAL



IM PUMPS CODES ENCODING

ex.IM140P-V-0800-N

Pump Model	Pump Material	O-Ring	Column Height	Motor
M 080 - IM 80 M 090 - IM 90 M 095 - IM 95 M 110 - IM 110 M 120 - IM 120 M 130 - IM 130 M 140 - IM 140 M 155 - IM 155 M 160 - IM 160 M 180 - IM 160 M 180 - IM 180 M 200 - IM 200	P - Polypropylene FC - PVDF+CF	D - EPDM V - Viton®	0250 - 250 mm 0500 - 500 mm 0800 - 800 mm 1000 - 1000 mm 1250 - 1250 mm	N* - Three-phase M - Single-phase A - ATEX S - Without Motor

 $[\]mbox{\ensuremath{^{\star}}}\mbox{\ensuremath{^{Three}\mbox{-}}}\mbox{\ensuremath{^{has}}}\mbox{\ensuremath{^{a}}}\mbox{\ensuremath{^{ch}}}\mbox{\en$

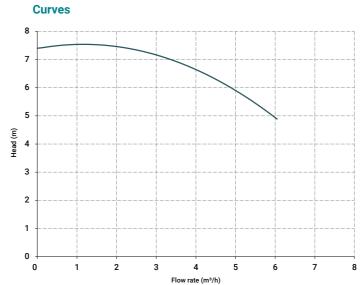
IM



Plastic material



Plastic material PVDF



Specifications and types

Suction fittings	1"1/2 f BSPP or DN 40
Delivery fittings	G 1" BSPP m or DN 25
Max. flow rate	6 m3/h
Max. head	7,5 m
Viscosity up to	500 cps
Standard open impeller	Ø 85 mm H 9 mm*
Solids passing	Ø max 7 mm

^{*} Special versions are available on request for the fluid pumped

Standard electric motor:

Kw	0,37
HP	0,5
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE2
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

STD column lenght	PP weight*	PVDF weight**
250 mm	6,5 Kg	7 Kg
500 mm	7,5 Kg	8 Kg
800 mm	10.5 Kg	11 Ka

^{*} The weights refer to the pump without the motor

Operating temperatures**

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

 $[\]hbox{\tt **Measurements should be taken with a gitated water; temperatures may vary depending on the}\\$ conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm

VERTICAL CENTRIFUGAL PUMPS



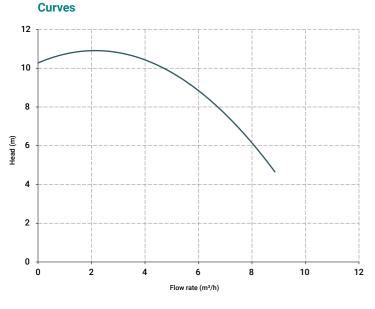




Plastic material



Plastic material PVDF



Specifications and types

Suction fittings	1"1/2 f BSPP or DN 40 on request
Delivery fittings	1" m BSPP or DN 25 on request
Max. flow rate	9 m3/h
Max. head	10,5 m
Viscosity up to	500 cps
Standard open impeller	Ø 97 mm H 12 mm *
Solids passing	Ø max 10 mm

^{*} Special versions are available on request for the fluid pumped

Standard electric motor:

Kw	0,55
HP	0,75
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE2
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

STD column lenght	PP weight*	PVDF weight*
250 mm	6,5 Kg	7 Kg
500 mm	7,5 Kg	8 Kg
800 mm	10.5 Ka	11 Ka

Operating temperatures**

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

 ${}^{\star\star}\text{Measurements should be taken with agitated water; temperatures may vary depending on the conditions of the system and/or the processed liquid}$

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

IM



Plastic material PP



Specifications and types

Suction fittings	2" m BSPP or DN 50 on request
Delivery fittings	1"1/2 m BSPP or DN 40 on request
Max. flow rate	15 m3/h
Max. head	12 m
Viscosity up to	500 cps
Standard open impeller	Ø 100 mm H 7 mm *
Solids passing	Ø max 6 mm

^{*} Special versions are available on request for the fluid pumped

Standard electric motor:

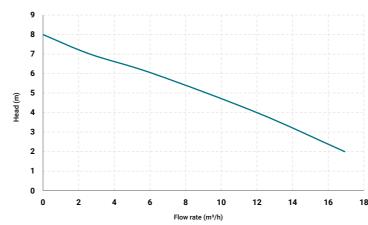
Kw	0,75
HP	1
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

STD column lenght	PP weight*	PVDF weight*
500 mm	15 Kg	16 Kg
800 mm	19 Kg	20 Kg
1000 mm	22 Kg	23 Kg
1250 mm	24 Kg	25 Kg

^{*} The weights refer to the pump without the motor NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm

Plastic material PVDF

Curves



Operating temperatures**

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

**Measurements should be taken with agitated water; temperatures may vary depending on the conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

^{*} The weights refer to the pump without the motor NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm







Plastic material PP



15

10

Flow rate (m³/h)

25

Plastic material PVDF

5

Curves

Suction fittings	2" m BSPP or DN 50 on request
Delivery fittings	1"1/2 m BSPP or DN 40 on request
Max. flow rate	20 m3/h
Max. head	15 m
Viscosity up to	500 cps
Standard open impeller	Ø 120 mm H 8 mm *
Solids passing	Ø max 6 mm

Standard electric motor:

Kw	1,1
HP	1,5
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	230/400 V
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

STD column lenght	PP weight*	PVDF weight*
500 mm	15 Kg	16 Kg
800 mm	19 Kg	20 Kg
1000 mm	22 Kg	23 Kg
1250 mm	24 Kg	25 Kg

^{*} The weights refer to the pump without the motor NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm

Operating temperatures**

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

**Measurements should be taken with agitated water; temperatures may vary depending on the conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

Suction fittings	2" m BSPP or DN 50 on request
Delivery fittings	1"1/2 m BSPP or DN 40 on request
Max. flow rate	20 m3/h
Max. head	15 m
Viscosity up to	500 cps
Standard open impeller	Ø 120 mm H 8 mm *
Solids passing	Ø max 6 mm

IM 120



Plastic material



Specifications and types

Suction fittings	2" m BSPP or DN 50 on request
Delivery fittings	1"1/2 m BSPP or DN 40 on request
Max. flow rate	25 m3/h
Max. head	15,5 m
Viscosity up to	500 cps
Standard open impeller	Ø 125 mm H 8 mm *
Solids passing	Ø max 6 mm

^{*} Special versions are available on request for the fluid pumped

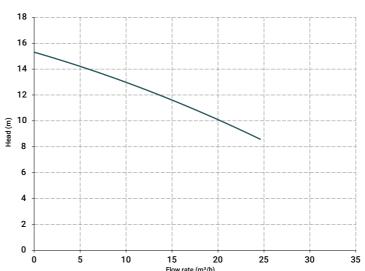
Standard electric motor:

Kw	1,5
HP	2
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

STD column lenght	PP weight*	PVDF weight*
500 mm	15 Kg	16 Kg
800 mm	19 Kg	20 Kg
1000 mm	22 Kg	23 Kg
1250 mm	24 Kg	25 Kg

^{*} The weights refer to the pump without the motor NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm

Curves



Operating temperatures**

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

 $\hbox{\tt **Measurements should be taken with a gitated water; temperatures may vary depending on the}\\$ conditions of the system and/or the processed liqui

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

70

Specifications and types

KW	1,5
HP	2
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

Plastic material PVDF

^{*} Special versions are available on request for the fluid pumped







Plastic material PP



Plastic material PVDF

Curves

Specifications and types

Suction fittings	2" m BSPP or DN 50 on request
Delivery fittings	G 1"1/2 m BSPP or DN 40 on request
Max. flow rate	30 m3/h
Max. head	20 m
Viscosity up to	500 cps
Standard open impeller	Ø 130 mm H 8 mm *
Solids passing	Ø max 6 mm

^{*} Special versions are available on request for the fluid pumped

Standard electric motor:

Kw	2,2
HP	3
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

STD column lengh	PP weight*	PVDF weight*
500 mm	15 Kg	16 Kg
800 mm	19 Kg	20 Kg
1000 mm	22 Kg	23 Kg
1250 mm	24 Kg	25 Kg

^{*} The weights refer to the pump without the motor NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm

Operating temperatures**

25 -			 	 	
20 -			 	 	
15 - Î					
Head (m)			 		
5 -		 		 	
0 -					

20

25

30

10

15

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

^{**}Measurements should be taken with agitated water; temperatures may vary depending on the conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

IM **Specifications and types**

Suction fittings	2" m BSPP or DN 50 on request
Delivery fittings	1"1/2 m BSPP or DN 40 on request
Max. flow rate	40 m3/h
Max. head	21 m
Viscosity up to	500 cps
Standard open impeller	Ø 130 mm H 14 mm *
Solids passing	Ø max 12 mm

^{*} Special versions are available on request for the fluid pumped

Standard electric motor:

Kw	3
HP	4
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
Single-phase (up to 3 kw)	on request
ATEX	on request

PP weight*	PP weight*	PVDF weight*
500 mm	15 Kg	16 Kg
800 mm	19 Kg	20 Kg
1000 mm	22 Kg	23 Kg
1250 mm	24 Kg	25 Kg

^{*} The weights refer to the pump without the motor

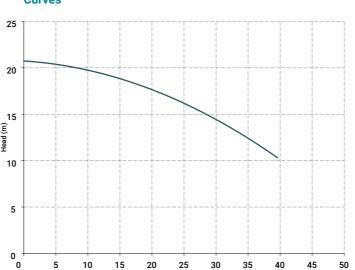
Curves

PVDF

Plastic material

Plastic material

PP



Operating temperatures**

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

 $[\]hbox{\tt **Measurements should be taken with a gitated water; temperatures may vary depending on the}\\$ conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm





Plastic material PP



5 10 15 20 25 30 35 40 45 50 55 60 Flow rate (m3/h)

Plastic material PVDF

Curvess

25

20

(E) 15

10

Suction fittings	2"1/2 f BSPP or DN 65 on request
Delivery fittings	2" m BSPP or DN 50 on request
Max. flow rate	42 m3/h
Max. head	24 m
Viscosity up to	500 cps
Standard open impeller	Ø 160 mm H 4 mm -10° *
Solids passing	Ø max 2 mm

Standard electric motor:

Kw	4
HP	5,5
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
ATEX	on request

STD column lenght	PP weight*	PVDF weight*
500 mm	28 Kg	30 Kg
800 mm	31 Kg	33 Kg
1000 mm	33 Kg	35 Kg
1250 mm	36 Kg	38 Kg

^{*} The weights refer to the pump without the motor.

Operating temperatures**

PP (with glass additive	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

**Measurements should be taken with agitated water; temperatures may vary depending on the conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

Specifications and types

Suction fittings	2"1/2 f BSPP or DN 65 on request
Delivery fittings	2" m BSPP or DN 50 on request
Max. flow rate	42 m3/h
Max. head	24 m
Viscosity up to	500 cps
Standard open impeller	Ø 160 mm H 4 mm -10° *
Solids passing	Ø max 2 mm

^{*} Special versions are available on request for the fluid pumped

IM

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Plastic material



Plastic material PVDF

Specifications and types

Suction fittings	2"1/2 f BSPP or DN 65 on request
Delivery fittings	2" m BSPP or DN 50 on request
Max. flow rate	42 m3/h
Max. head	27 m
Viscosity up to	500 cps
Standard open impeller	Ø 162 mm H 4 mm -10° *
Solids passing	Ø max 2 mm

^{*} Special versions are available on request for the fluid pumped

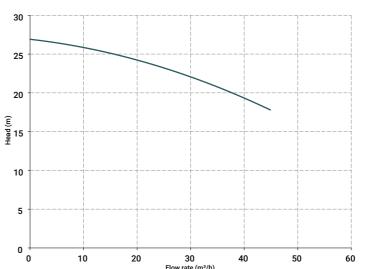
Standard electric motor:

Kw	5,5
HP	7,5
Constructive Form	B5
RPM	2900
Three-phase 230/400 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
ATEX	on request

STD column lenght	PP weight*	PVDF weight*
500 mm	28 Kg	30 Kg
800 mm	31 Kg	33 Kg
1000 mm	33 Kg	35 Kg
1250 mm	36 Kg	38 Kg

^{*} The weights refer to the pump without the motor.

Curvess



Operating temperatures**

PP (with glass additive	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

 $\hbox{\tt **Measurements should be taken with a gitated water; temperatures may vary depending on the}\\$ conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
300 mm	65	95
1000 mm	60	90
1250 mm	55	85

NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm

NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm







Plastic material PP



Plastic material PVDF

Curves

30 25 20 9 15 10 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 Flow rate (m3/h)

Specifications and types

Suction fittings	2"1/2 f BSPP or DN 65 on request
Delivery fittings	2" m BSPP or DN 50 on request
Max. flow rate	55 m3/h
Max. head	32 m
Viscosity up to	500 cps
Standard open impeller	Ø 162 mm H 11 mm -10° *
Solids passing	Ø max 9 mm

^{*} Special versions are available on request for the fluid pumped

Standard electric motor:

Kw	7,5
HP	10
Constructive Form	B5
RPM	2900
Three-phase 400/690 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
ATEX	on request

STD column lenght	PP weight*	Peso PVDF*
500 mm	31 Kg	33 Kg
800 mm	34 Kg	36 Kg
1000 mm	36 Kg	38 Kg
1250 mm	39 Kg	41 Kg

^{*} The weights refer to the pump without the motor

Operating temperatures**

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to + 100°C

^{**}Measurements should be taken with agitated water; temperatures may vary depending on the conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

IM 180



Plastic material



Plastic material PVDF

Specifications and types

Suction fittings	2"1/2 f BSPP or DN 65 on request
Delivery fittings	2" m BSPP or DN 50 on request
Max. flow rate	75 m3/h
Max. head	38 m
Viscosity up to	500 cps
Standard open impeller	Ø 176 mm H 13 mm -10° *
Solids passing	Ø max 11 mm

^{*} Special versions are available on request for the fluid pumped

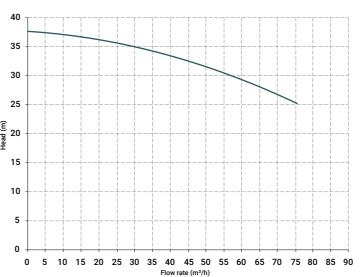
Standard electric motor:

Kw	11
HP	15
Constructive Form	B5
RPM	2900
Three-phase 400/690 V	-
50/60	-
2 poles	-
Efficiency class	IE3
Protection	IP55
Ambient temperature	-30°C + 45°C
Aluminium/Cast iron	-
ATEX	on request

STD column lenght	PP weight*	Peso PVDF*
500 mm	31 Kg	33 Kg
800 mm	34 Kg	36 Kg
1000 mm	36 Kg	38 Kg
1250 mm	39 Kg	41 Kg

^{*} The weights refer to the pump without the motor

Curves



Operating temperatures**

PP (with glass additive)	from 0°C to + 70°C,
PVDF (with carbon additive)	from -10°C to+ 100°C

 $\hbox{\tt **Measurements should be taken with a gitated water; temperatures may vary depending on the}\\$ conditions of the system and/or the processed liquid

Lenght	Tmax (PP)	Tmax (PVDF)
500 mm	70	100
800 mm	65	95
1000 mm	60	90
1250 mm	55	85

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NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm

NB: Special executions only on request with column length from min. 250 mm to max. 1000 mm

TR PUMPS

Line introduction **Drum pumps**

Drum pumps consist of a dip tube, at the end of which the open impeller is fitted. It is secured to the drive shaft, connected to the pump with a ring nut.

The operation consists of an impeller integrated with the shaft, connected to the electric or pneumatic motor with a coupling joint.

Drum pumps must be used exclusively vertically and with the pump immersed in the



TR PUMPS CODES ENCODING

ex. TRPH1200 TR PP, Hastelloy shaft, dip tube length 1200 mm

Pump Model	Pump Material	Shaft Material	Tube Length
TR - Drum transfer	P - Polypropylene F - PVDF A - AISI 316	H - Hastelloy A - AISI 316	0900 - 900 mm 1200 - 1200 mm

TRP Polypropylene Casing



Specifications and types

opecinications and types	
Dip tube	Ø 42,5 mm
Hose holder	Ø 25 mm
Max Operating temp	65° C
Total weight in Kg*	1.4 for length of 900 mm / 1.7 for length of 1200 mm
Mat. Dip tube	Polypropylene
Mat. Shaft	HASTELLOY or AISI 316
Mat. Impeller	ECTFE
Mat. Suction outlet	Polypropylene
Mat. Seal gasket in contact with the fluid - MIM Viton®	Viton® - EPDM
Length mm	900 or 1200
Max Operating temp	from 3°C to 65°C

^{*}The weight refers to the pump without the motor.

TRF PVDF casing





Specifications and types

Dip tube	Ø 40 mm
Hose holder	Ø 25 mm
Max Operating temp	95° C
Total weight in Kg*	1.6 for length of 900 mm / 1.9 for length of 1200 mm
Mat. Dip tube	PVDF
Mat. Shaft	HASTELLOY
Mat. Impeller	ECTFE
Mat. Suction outlet	ECTFE
Mat. Seal gasket in contact with the fluid - MIM Viton®	Viton® - EPDM
Length mm	900 or 1200
Max Operating temp	from 3°C to 95°C

^{*}The weight refers to the pump without the motor.

TRA AISI 316 casing



Specifications and types

Dip tube	Ø 42,5 mm
Hose holder	Ø 25 mm
Max Operating temp	95° C
Total weight in Kg*	4.3 for length of 900 mm / 5.3 for length of 1200 mm
Mat. Dip tube	AISI 316
Mat. Shaft	AISI 316
Mat. Impeller	ECTFE
Mat. Suction outlet	ECTFE
Mat. Seal gasket in contact with the fluid - MIM Viton®	Viton® - EPDM
Length mm	900 or 1200
Max Operating temp	from 3°C to 95°C

^{*}The weight refers to the pump without the motor.

BASKET STRAINER - MIXERS AND PERISTALTIC PUMPS

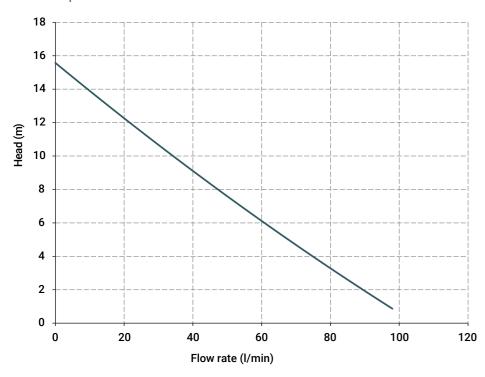
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TR PUMPS



TR-EL SERIES - Electric motor

Drum pumps with electric motor at 800 Watt equipped with open impeller that allows the continuous pumping of clean corrosive fluids with apparent viscosity up to 900 cps.



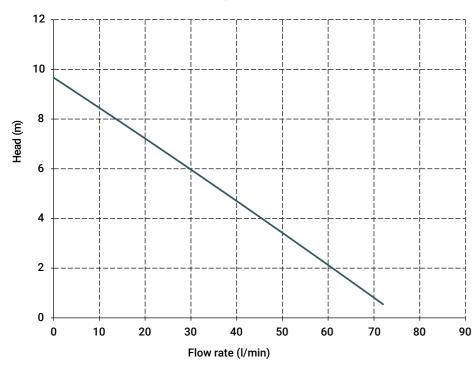
Technical Specifications Electric

Motors		
	Power	800 Watt
	Voltage	230 V single-phase (50/60 HZ)
	RPM	10500
	Class	F
	Flow rate	90 I/min
	Viscosity	900 cps
	Density	1,6 g/cm3
	Weight in kg	3,8
	ATEX motor	on request

(NB: The electrical cable is supplied without plug)

TR-PM SERIES - Pneumatic motor

Drum pumps with pneumatic motor equipped with open impeller that allows the continuous pumping of clean corrosive fluids with apparent viscosity up to 600 cps. The pump allows the flow rate adjustment.



Technical Specifications Electric Motors

Standard
0,42 HP (300 Watt)
70 l/min
600 cps
1,2 g/cm3
1,1
on request

Contact the sales office for information on the ATEX motor

Products

Pump protection basket strainer

Thanks to the large total passage surface of the bas-ket, these filters are ideally suited to be installed on the suction fitting of the pumps, to protect them from suspended solids, filaments, algae and foreign bod-ies, without causing excessivedrops in capacity.



Products

Mixers

Compact mixers designed for a wide range of applications, they can be used regardless of the shape and size of the



Peristaltic pumps

Peristaltic pumps operate with a "flowing pressure" exerted on a flexible hose with rollers, rotating parallel to an axis, and supported by a rollers holder.



Optional

Accessories

Debem offers a wide range of accessories for all the types of pumps in its catalogue. Accessories from other manufacturers or designed and built directly by the company, which are the result of our technical experience and specific research in pump applications.



Cycle counter BOXER FAMILY



Anti-vibration feet kit **BOXER FAMILY**



Air regulation kit **BOXER FAMILY**



Three-way valves BOXER FAMILY



Foot valve BOXER FAMILY



Dispensers BOXER FAMILY



Truck for Boxer pumps **BOXER FAMILY**



Dip tube filter



TR FAMILY



Microvalves BOXER FAMILY



IM Filter IM FAMILY

Why choose us



#unboxingdebem

Debem DNA: cohesion, quality, innovation, customer first.



History

Over 40 years of innovation, research, quality and excellence.



Materials and Technology

Debem's products are constructed with the finest quality, certified Italian materials. We use the latest generation technologies in line with the industry 4.0 standards.



Patents Made in Italy

The products are entirely designed, patented and built in Italy by Debem.



Service and consultancy

Customer service able to resolve questions tied to product selection and the most suitable chemical compatibility for their requirements. Support service that responds to technical, installation and pump optimisation queries.



International distribution

Debem's products can count on an extensive global distribution (see network).



Customised solutions

Debem's air-operated double diaphragm pumps can be customised based on the customer's requirements and application needs.



Research & Development -Innovation

Debem's technical office, alongside the research and development department, is constantly developing new projects and innovating current products.



Ability to handle emergencies

Extremely quick deliveries of finished products and of sparparts for every pump model in the catalogue.



Quality

All the products that leave the company are stamped with a code that includes the production data entered into a database, to ensure utmost quality through every stage of the production process.





Sustainable energy, positive impact

We embrace solar energy as the primary source of energy. The solar panels installed on our structure allow us to generate clean energy and significantly reduce CO2 emissions.



Page reduction, zero compromises

We have reduced the size of our catalog and trimmed some non essential pages to reduce paper usage. However, this has not compromised the quality of the information provided.



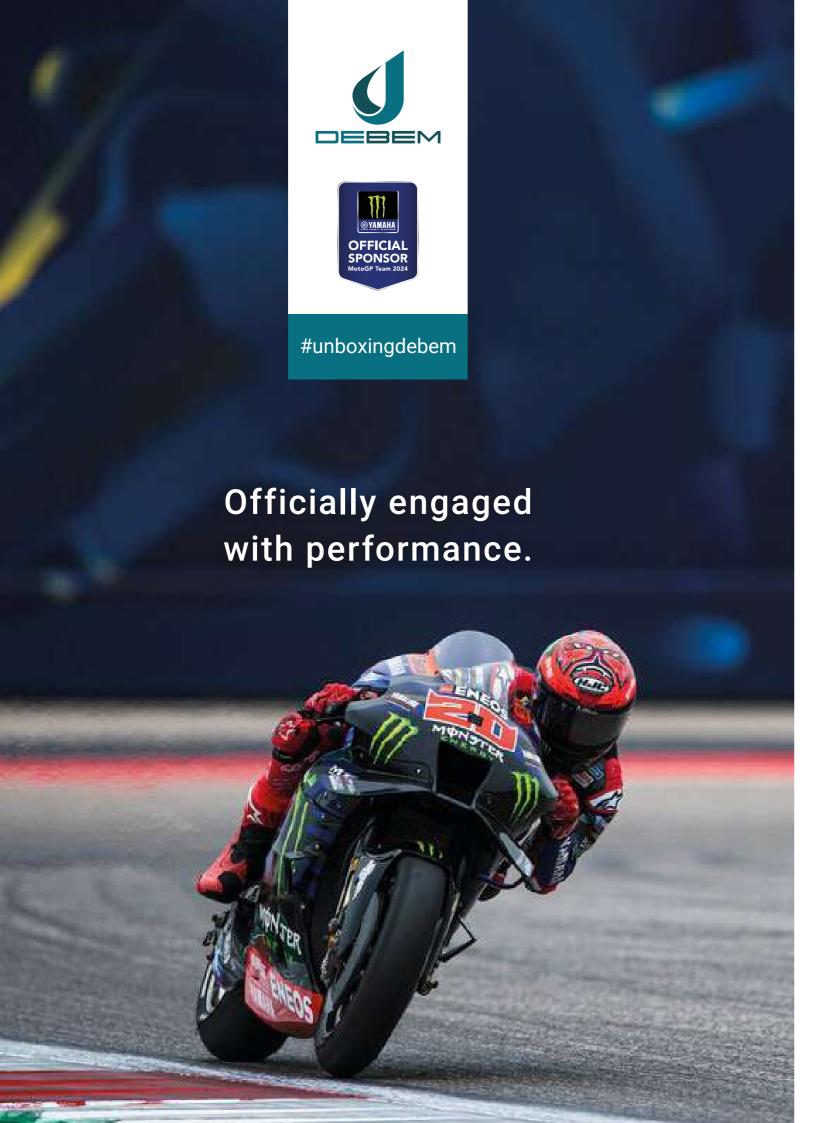
At the heart of our corporate philosophy

We create internal programs that stimulate energy conservation, responsible use of resources and the promotion of sustainable practices to spread eco-friendly practices throughout the company.



Our commitment is just the beginning

We are aware that our commitment to sustainability is just the beginning of a long journey. We want to involve our partners and customers in this vision, to take a step forward towards a greener future.



Web and contacts

Visit our website to learn more about all the products and their characteristics.

The new mobile responsive website is available in English, German, French, Italian, Spanish.





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