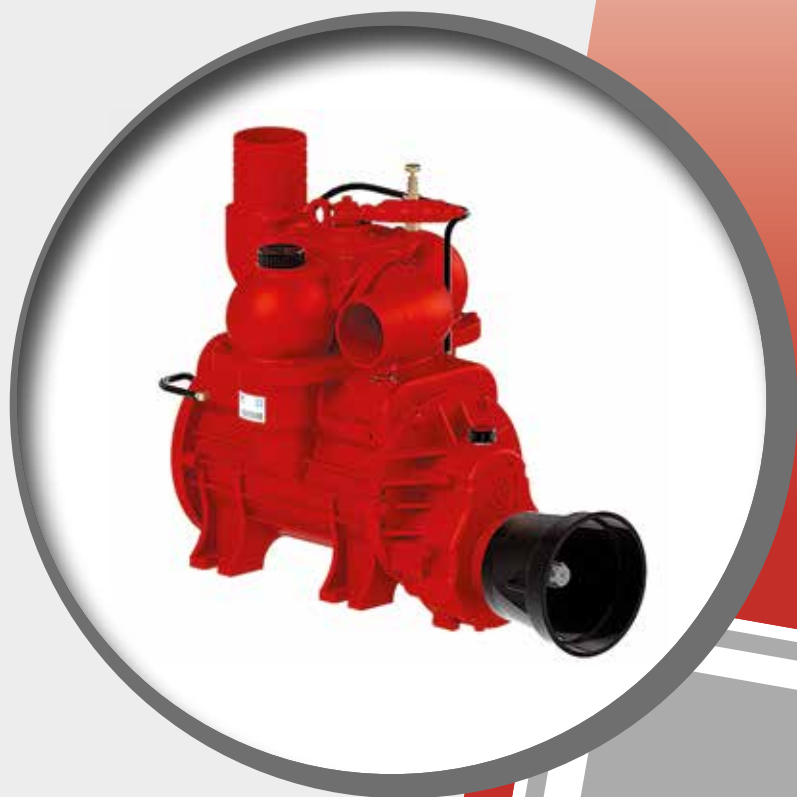




Battioni®
Pagani

Setting the pace since 1953



Technical Catalogue
Catalogo Tecnico
Technischer Katalog

2020
MEC

1000 - 1600 - 2000 - 3000
4000 - 5000 - 6500 - 8000
9000 - 11000 - 13500



www.bapag.it

rev. 2 del 15/10/2020



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Predisposition for overpressure valve

Predisposizione per valvola di sovrappressione
Vorbereitung für Überdruckventil

Non-return check valve as standard

Valvola di non ritorno di serie
Kontrollventil als Serie



**Forced lubrication pump as standard
(automatic lubrication on request)**

Pompa di lubrificazione forzata di serie
(lubrificazione automatica a richiesta)
Druckschmierung als Serie (Automatische
Schmierung auf Anfrage)



Long Life blades on request

Palette Long Life resistenti al calore a richiesta
Auf Anfrage hitzebeständigen Lamellen Long Life

**High wearing resistance thanks to cast-iron
with high hardness**

Elevata resistenza ad usura grazie a ghisa ad
alta durezza

Hohe Festigkeit zu Abnutzung für
Gußeisen mit hohe Härte



Cooling



**AIR COOLED
ROTARY VANES
VACUUM/PRESSURE
PUMP**





Selector vacuum - pressure

Selettore Vuoto - Pressione
Wähler von Vakuum/Druck

Blades inspection hole

Foro ispezione palette
Bohrung für Lamellen Prüfung



VERSIONS



MEC - M



MEC - P



MEC - D



MEC - H



MEC - HM

MEC the legend



MEC 1000/1600 – Light and compact design

The reliability and strength of the MEC is the result of continuous design and manufacturing improvements accomplished during 40 years of deployments. Its light and compact design made MEC 1000/1600 the best vacuum pump for portable sanitation services and small vacuum tank for liquid applications.



STANDARD FEATURES

- 4-ways valve, non-return check valve.
- Available hoses connections: Ø 27 mm / Ø 45 mm / G 1" / G 1" 1/4
- Thread for Overpressure valve: Not available

VERSIONS

CCW as standard



Version M
Splined shaft
1"3/8 - Z6 ISO 500

CCW on request CW as standard



Version P
Smooth Cylindrical shaft
Ø 22, lenght 48 mm
Parallel key UNI 6604

CW as standard



Version H
MEC 1000: Group 2 21.14 cc/rev - Pmax 200 bar - In G 1/2" - Out G 3/4"
MEC 1600: Group 2 21.14 cc/rev - Pmax 200 bar - In G 1/2" - Out G 3/4"
MEC 1000: Group 2 40 cc/rev - Pmax 175 bar - In G 1/2" - Out G 1/2"
MEC 1600: Group 2 40 cc/rev - Pmax 175 bar - In G 1/2" - Out G 1/2"

TECHNICAL DATA

	Geometrical capacity			Max rpm		Max abs pressure Bar (PSI)	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg		
	m³/h	l/min	cfm	M	P/H					M	P	H
MEC 1000	75,6	1260	45	600	1400	2,5 (36)	89% (26,3")	60% (18")	3,5 (4,7)	40	34	48
MEC 1600	118,8	1980	70	600	1400	2,5 (36)	89% (26,3")	60% (18")	4,5 (6)	48	42	56

OPTIONALS



Long Life Blades



Automatic Lubrication
Single lubrication point



Revolving Elbow
Ø 45 mm



Battioni Pagani Vacuum Pump Oil 5 lt.
Code 5070200100



Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102



Flushing Kit
Code 6080200325



Pump Controller



Pump Active Controller



Customized Painting



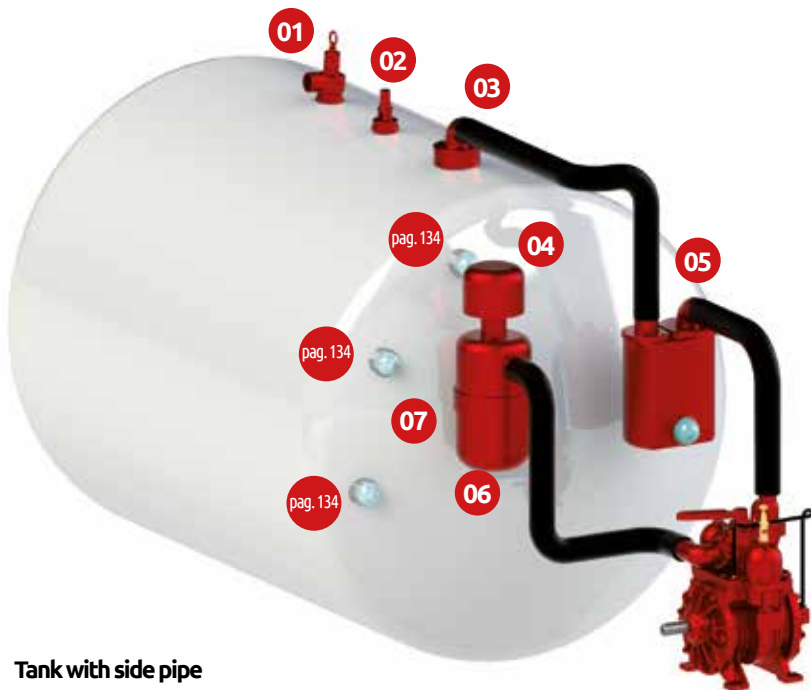
ACCESSORIES



01 **Overpressure Safety Valve - 1"1/4**
Code 5100200009
Setting range:
+0,3 bar / +1,5 bar
Working temperature:
-20°C / +90°C
Thread: G 1"1/4
Weight: 0,94 kg



02 **Vacuum Relief Valve 1"1/2**
Code 5100200012
Setting range:
-0,3 bar / -0,8 bar
Working temperature:
-20°C / +90°C
Thread: G 1"1/2
Weight: 0,65 kg



Tank with side pipe



06 **Filter - Silencer**
Code 5090000110
Hose connection: Ø 45 mm
Weight: 2,5 kg



04 **Rain Cap**
Code 5090000111
For Filter/silencer only Ø 45 mm



07 **Sliding Support**
Code 5090000138 (Ø 165)
(Silencer Code 5090000110)



03 **Primary Overflow Valve - Single Rubber Ball**
Code 6100200006 - Ø45
Iron ring to be welded
Weight: 4,5 kg



05 **Secondary Valve - Single Rubber Ball**
Code 6100200003 - Ø45
Weight: 17,5 kg



05A **Discharge Valve - 3/4"**
Code 5040200006
To be fitted on Secondary valve



05B **Gauge - Ø 80 mm Axial Connection**
Code 5101700007
To be fitted on Secondary valve



MEC

2000 - 3000 - 4000



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Setting the pace since 1953

MEC 2000 / 3000 / 4000 – Simple and practical design

The reliability and strength of the MEC is the result of continuous design and manufacturing improvements accomplished during 40 years of deployments. It's simple and practical design made the MEC pumps the product of reference for agricultural and municipalities septic applications.



STANDARD FEATURES

- Forced lubrication, 4-ways valve, non-return check valve
- Available hoses connections: Ø 45 mm / Ø 60 mm / G 2"
- Thread for Overpressure valve: G 1 1/4

VERSIONS

CCW as standard	CCW on request	CW as standard	CCW as standard	CCW as standard	CW as standard
Version M Splined shaft 1 3/8 - Z6 ISO 500	Version P Smooth Cylindrical shaft Ø 30, lenght 50 mm Parallel key UNI 6604	Version D Splined shaft 1 3/8 - Z6 ISO 500	Version HM 100 cc/rev Pmax 175 bar In G 1/2" - Out G 1/2"	Version H MEC 2000: Group 3 26.7 cc/rev - Pmax 280 bar - In G 1" - Out G 3/4" MEC 3000: Group 3 26.7 cc/rev - Pmax 280 bar - In G 1" - Out G 3/4" MEC 4000: Group 3.5 43.98 cc/rev - Pmax 250 bar - In G 1" - Out G 1"	

TECHNICAL DATA

	Geometrical capacity			Max rpm		Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg				
	m³/h	l/min	cfm	M/HM	P/D/H					M	P	D	H	HM
MEC 2000	165	2750	97	600	1400	2,5 (36)	91% (27,0")	60% (18")	5,5 (7,3)	75	65	65	81	77
MEC 3000	216	3600	127	600	1400	2,5 (36)	92% (27,2")	60% (18")	7 (9,4)	86	75	77	92	89
MEC 4000	261	4350	154	600	1400	2,5 (36)	94% (28,0")	60% (18")	9 (12,6)	97	85	90	116	102

OPTIONALS

Long Life Blades	Automatic Lubrication Single lubrication points	Side Outlet With two revolving elbows	Double Outlet Ø 60 mm	Revolving Elbow Ø 45 mm Ø 51 mm Ø 60 mm	Kit Vacuum Relief Valve For Revolving Elbow Code 6080200390
Hydraulic Changeover Code 6080200217	Pneumatic Revolving Changeover Code 6080200160	Kit Valves and manometer tree 1" 1/4 Code 6080200391	Kit Overpressure 1" 1/4 safety valve for Revolving Elbow Code 6080200396	Kit Valves and manometer tree U.L. Code 6080200488	Kit Aluminum final air filter 500 Self-Cleaning Code 6080200507



OPTIONALS



Flushing Kit
Code 6080200325



Battioni Pagani Vacuum Pump Oil 5 lt.
Code 5070200100



Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102



Pump Controller



Pump Active Controller



Customized Painting

Air cooled - Rotary Vanes Vacuum/Pressure pumps

ACCESSORIES



01 Vacuum Relief Valve 1 1/2
Code 5100200012
Setting range:
-0,3 bar / -0,8 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/2
Weight: 0,65 kg



02 Overpressure Safety Valve - 1 1/4
Code 5100200009
Setting range:
+0,3 bar / +1,5 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/4
Weight: 0,94 kg



06 Filter - Silencer
Code 5090000110 - Ø 45
MEC 2000
Code 5090000083 - Ø 60
MEC 3000 - 4000
Weight: 3,9 kg



Tank with side pipe



04A Rain Cap
Code 5090000111 - Ø 45
For Filter/silencer only
MEC 2000
Code 5090000060 - Ø 60
For Filter/silencer only
MEC 3000 - 4000



04B Pre-Filter
Code 5090000045 - Ø 60
For Filter/silencer only
MEC 3000 - 4000



07 Sliding Support
Code 5090000138 (Ø 165)
(Silencer Code 5090000110)
Code 5090000139 (Ø 187)
(Silencer Code 5090000083)



03 Primary Overflow Valve - Single Rubber Ball
Code 6100200006 - Ø 45
Code 6100200007 - Ø 60
Iron ring to be welded
Weight: 4,5 kg



05 Secondary Valve - Single Rubber Ball
Code 6100200003 - Ø 45
Code 6100200004 - Ø 60
Weight: 17,5 kg



05A Discharge Valve - 3/4
Code 5040200006
To be fitted on Secondary valve



05B Gauge - Ø 80 mm Axial Connection
Code 5101700007
To be fitted on Secondary valve



MEC

5000 - 6500 - 8000



Battioni®
Pagani

Setting the pace since 1953

MEC 5000 / 6500 / 8000 – The Legend

More than 500.000 MEC pumps have been put in operation to empty cesspits and transport slurry in agricultural and industrial applications. The reliability and strength of the MEC is the result of continuous design and manufacturing improvements accomplished during 40 years of deployments.



STANDARD FEATURES

- Forced lubrication, 4-ways valve, check valve
- Thread for Overpressure valve: G 1"1/2
- Available hoses connections: Ø 60 mm / Ø 76 mm (3") / Ø 80 mm

VERSIONS

CCW as standard	CCW on request	CW as standard	CCW as standard	CCW as standard	CW as standard
Version M Splined shaft 1"3/8 - Z6 ISO 500	Version P Smooth Cylindrical shaft Ø 32, lenght 70 mm Parallel key UNI 6604	Version D Splined shaft 1"3/8 - Z6 ISO 500	Version HM 100 cc/rev- Pmax 175 bar In G 1/2" - Out G 1/2"	Version H MEC 5000: Group 3.5 43.98 cc/rev - Pmax 250 bar - In G 1" - Out G 1" MEC 6500: Group 3.5 43.98 cc/rev - Pmax 250 bar - In G 1" - Out G 1" MEC 8000: Group 3.5 51.83 cc/rev - Pmax 230 bar - In G 1" - Out G 1"	

TECHNICAL DATA

	Geometrical capacity			Max rpm		Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg				
	m³/h	l/min	cfm	M/HM	P/D/H					M	P	D	H	HM
MEC 5000	369	6150	217	600	1400	2,5 (36)	94% (28,0")	60% (18")	11 (14,7)	127	120	121	136	132
MEC 6500	420	7000	247	600	1400	2,5 (36)	94% (28,0")	60% (18")	12,5 (16,7)	142	129	130	154	150
MEC 8000	486	8100	286	600	1400	2,5 (36)	94% (28,0")	60% (18")	16 (21,4)	157	140	141	174	162

OPTIONALS

Long Life Blades	Automatic Lubrication MEC 5000: Single lubrication points MEC 6500-8000: Double lubrication points	Side Outlet With two revolving elbows	Double Outlet Ø 60 mm	Revolving Elbow Ø 60 mm / Ø 76 mm (3") / Ø 80 mm	Kit Aluminum final air filter 500 Self-Cleaning Code 6080200363
Hydraulic Changeover Code 6080200175	Hydraulic Revolving Changeover Code 5090000073	Pneumatic Revolving Changeover Code 6080200114	Pneumatic Revolving Changeover - 3 Positions Code 6080200292	Kit Valves and manometer tree 1" 1/2 Code 6080200392	Kit Vacuum Relief Valve For Revolving Elbow Code 6080200486

OPTIONALS



Extra Side Tank
Code 6080200418 (LA)
Code 6080200417 (LF)



Flushing Kit
Code 6080200325



Battioni Pagani Vacuum Pump Oil 5 lt.
Code 5070200100



Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102

MEC

5000 - 6500 - 8000



Pump Controller



Pump Active Controller

Air cooled - Rotary Vanes Vacuum/Pressure pumps

ACCESSORIES



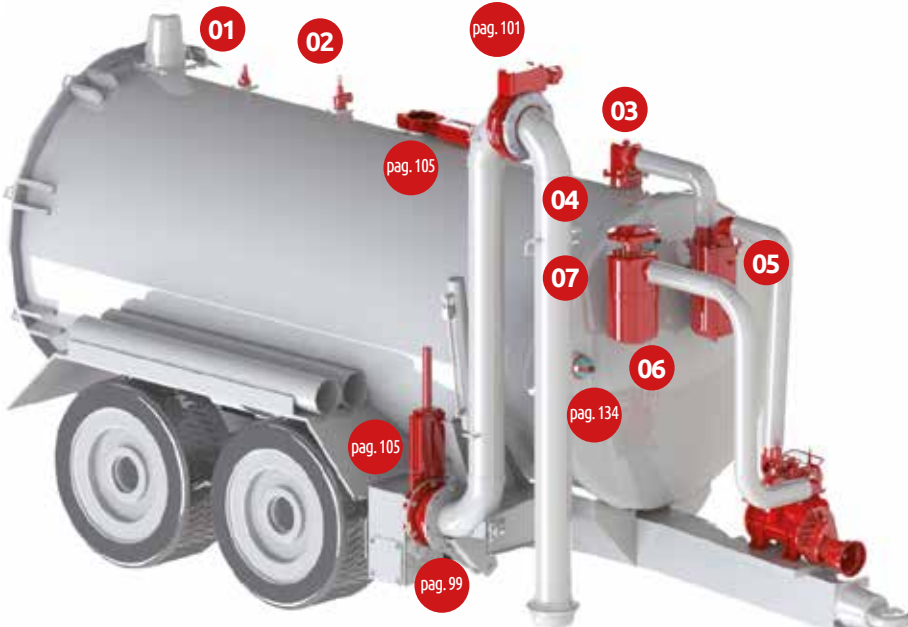
01 Vacuum Relief Valve 1 1/2
Code 5100200012
Setting range:
-0,3 bar / -0,8 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/2
Weight: 0,65 kg



02 Overpressure Safety Valve - 1 1/2
Code 5100200010
Setting range:
+0,3 bar / +1,5 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/2
Weight: 1,02 kg



06 Filter - Silencer
Code 5090000083-Ø 60
MEC 5000
Code 5090000044-Ø 80
MEC 6500/8000
Weight: 7 kg (9.9 lb)



Tank with side pipe



04A Rain Cap
Code 5090000060-Ø 60
MEC 5000
Code 5090000061-Ø 80
MEC 6500/8000
For Filter/silencer only



04B Pre-Filter
Code 5090000045-Ø 60
MEC 5000
Code 5090000046-Ø 80
MEC 6500/8000
For Filter/silencer only



07 Sliding Support
Code 5090000139 (Ø 187)
(Silencer Code 5090000083)



03 Primary Overflow Valve - Single Rubber Ball
Code 6100200007 - Ø 60
Code 6100200008 - Ø 80
Iron ring to be welded
Weight: 4,7/9,6 kg



05 Secondary Valve - Single Rubber Ball
Code 6100200004 - Ø 60
Code 6100200005 - Ø 80
Weight: 18,5/20,5 kg



05A Discharge Valve - 3/4"
Code 5040200006
To be fitted on Secondary valve



05B Gauge - Ø 80 mm Axial Connection
Code 5101700007
To be fitted on Secondary valve



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Kit Aluminum Final Air Filter

Kit filtro aria alluminio
Saugfilter Satz

Predisposition for overpressure valve

Predisposizione per valvola di sovrappressione
Vorbereitung für Überdruckventil

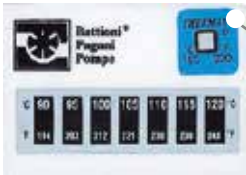
Selector vacuum - pressure

Selettore Vuoto - Pressione
Wähler von Vakuum/Druck



Temperature indicator

Rilevatore di temperatura
Temperaturdedektor



160° C Irreversible indicator

Indicatore Irreversibile 160° C
irreversibel Anzeiger 160°C

Forced lubrication pump as standard (automatic lubrication on request)

Pompa di lubrificazione forzata di serie (lubrificazione automatica a richiesta)
Druckschmierung als Serie (Automatische Schmierung auf Anfrage)

Long Life blades as standard

Palette "long life" resistenti al calore di serie
Hitzebeständigen Lamellen aus Spezialmaterial als Serie

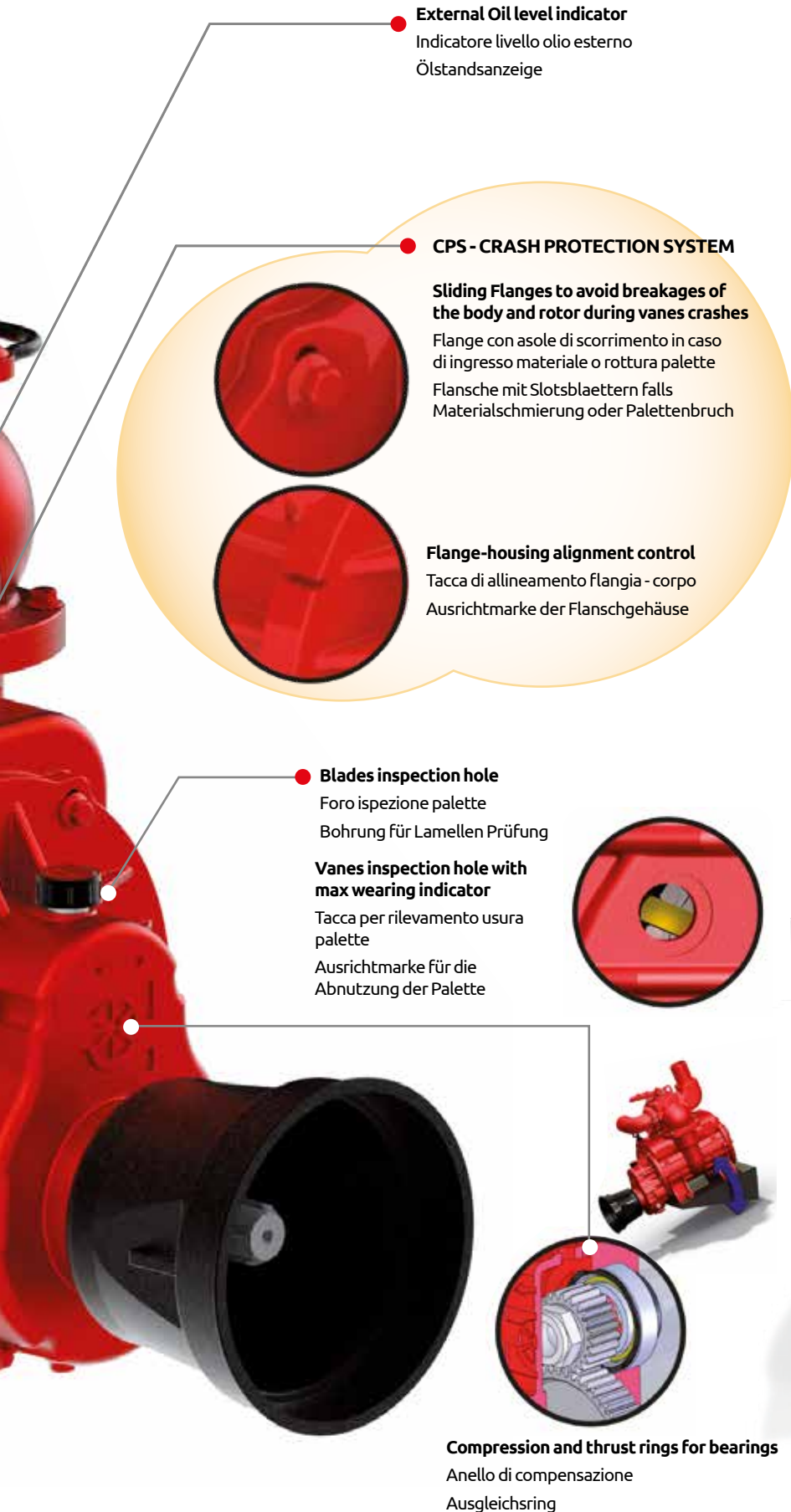


**AIR COOLED
ROTARY VANES
VACUUM/PRESSURE
PUMP**

High wearing resistance thanks to cast-iron with high hardness

Elevata resistenza ad usura grazie a ghisa ad alta durezza

Hohe Festigkeit zu Abnutzung für Gußisen mit hohe Härte



● **External Oil level indicator**
Indicatore livello olio esterno
Ölstandsanzeige

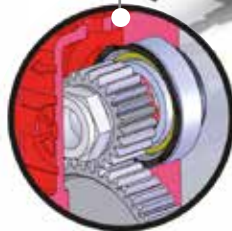
● **CPS - CRASH PROTECTION SYSTEM**
Sliding Flanges to avoid breakages of the body and rotor during vanes crashes
Flange con asole di scorrimento in caso di ingresso materiale o rottura palette
Flansche mit Slotsblättern falls Materialschmierung oder Palettenbruch



● **Flange-housing alignment control**
Tacca di allineamento flangia - corpo
Ausrichtmarke der Flanschgehäuse

● **Blades inspection hole**
Foro ispezione palette
Bohrung für Lamellen Prüfung

● **Vaness inspection hole with max wearing indicator**
Tacca per rilevamento usura palette
Ausrichtmarke für die Abnutzung der Palette



● **Compression and thrust rings for bearings**
Anello di compensazione
Ausgleichsring

VERSIONS



MEC - M/MA



MEC - P



MEC - D



MEC - H



MEC - HM

Discover the CPS - Crash Protection System



The picture is only for informative purpose.
See the table on page 89 for the complete list of the available options.



MEC II

9000 - 11000 - 13500

MEC II – The Legend continues

Designed in cooperation with SPRInT, the Team of Engineering and Research of the Department of Industrial Engineering at the University of Parma, the MEC II pump represents a technology breakthrough resulted from a major joint effort in product **development and innovative design processes**. The MEC II features the **Crash Protection System**: a sliding flanges protection mechanism that prevents the housing or rotor to break of in case of vanes crash. The pump is easily repairable inexpensively in field.



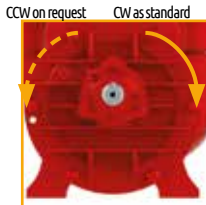
STANDARD FEATURES

- Long Life Blades, Crash Protection System, forced lubrication, external oil level indicator, side outlets, exhaust elbow, 4-ways valve, check valve
- Thread for Overpressure valve: G 2"
- Available hoses connections: Ø 76 mm (3") / Ø 80 mm / Ø 100 mm (4")

VERSIONS



Version M - MA
Splined shaft
1"3/8 - Z6 ISO 500



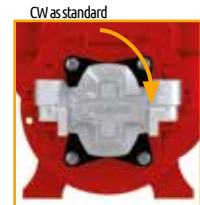
Version P
Smooth Cylindrical shaft,
Ø 32, lenght 63 mm
Parallel key UNI 6604



Version D
Splined shaft
1"3/8 - Z6 ISO 500



Version HM
MEC9000: 100 cc/rev
Pmax 175 bar - In G 1/2" - Out G 1/2"
MEC11000: 125.7 cc/rev
Pmax 175 bar - In G 1/2" - Out G 1/2"



Version H
MEC9000: Group 3.5 51.83 cc/rev
Pmax 230 bar - In G 1" - Out G 1"
MEC11000: Group 3.5 73.82 cc/rev
Pmax 180 bar - In G 1" - Out G 1"1/4
MEC13500: Group 4 86.56 cc/rev
Pmax 280 bar - In G 1"1/4 - Out G 1"1/2

TECHNICAL DATA

	Geometrical capacity			Max rpm			Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg				
	m³/h	l/min	cfm	M/HM	MA	P/D/H					M/MA	P	D	H	HM
MEC II 9000	541,8	9030	319	600	1000	1400	2,5 (36)	95% (28,5")	60% (18")	17 (22,8)	145	131	132	154	146
MEC II 11000	668,22	11137	393	600	1000	1400	2,5 (36)	95% (28,5")	60% (18")	21 (28,2)	160	146	147	170	161
MEC II 13500	830,7	13845	489	600	1000	1400	2,5 (36)	95% (28,5")	60% (18")	25 (33,5)	178	164	165	205	-

OPTIONALS



Automatic Lubrication
Double lubrication points



Kit Aluminum Final Air Filter 1300 Self-Cleaning
Code 6080200290



Side Outlet With Two Revolving Elbows
Ø 76/80/100



Double Outlet
Ø 80 mm



Kit Vacuum Relief Valve For Revolving Elbow
Code 6080200181



Extra Side Tank
Code 6080200304 (LA)
Code 6080200310 (LF)



Hydraulic Changeover
Code 6080200176



Hydraulic Revolving Changeover
Code 5090000078



Pneumatic Revolving Changeover
Code 6080200238



Pneumatic Revolving Changeover - 3 Positions
Code 6080200293



Battioni Pagani Vacuum Pump Oil 5 lt.
Code 5070200100



Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102

OPTIONALS



Flushing Kit
Code 6080200325



Pump Controller



Pump Active Controller



Customized Painting

MEC II

9000 - 11000 - 13500



Air cooled - Rotary Vanes
Vacuum/Pressure pumps

ACCESSORIES



Vacuum Relief Valve 1 1/2

Code 5100200012
Setting range:
-0,3 bar / -0,8 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/2
Weight: 0,65 kg



Overpressure Safety Valve - 2"

Code 5100200011
Setting range:
+0,3 bar / +1,5 bar
Working temperature:
-20°C / +90°C
Thread: G 2"
Weight: 1,2 kg



Tank with side pipe



Filter - Silencer
Code 5090000025
MEC 9000-11000-Ø80
Code 5090000026
MEC 13500-Ø100
Hose connection:
Ø 80/100 mm
Weight: 9,5/13 kg



Rain Cap
Code 5090000061
MEC 9000-11000 - Ø 80
Code 5090000062
MEC 13500 - Ø 100
Weight: 0,4 kg



Pre-Filter
Code 5090000046
MEC 9000-11000 - Ø 80
Code 5090000047
MEC 13500 - Ø 100



Primary Overflow Valve - Two Balls
Code 6100200030-Ø76
Code 6100200025-Ø80
Code 6100200026-Ø100
Iron ring to be welded
Weight: 13,9/14,0 kg



Primary Overflow Valve - One SS Ball
Code 6100200027-Ø80SS
Code 6100200028-Ø100SS
Ball material: AISI 316
Iron ring to be welded



Secondary Valve - Two Balls
Code 6100200035-Ø76
Code 6100200021-Ø80
Code 6100200022-Ø100
Weight: 35,6 kg



Discharge Valve - 1"
Code 5040200014
To be fitted on Secondary valve



Gauge - Ø 80 mm Axial Connection
Code 5101700007
To be fitted on Secondary valve



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