Battioni ®
Pagani

Setting the pace since 1953

Technical Catalogue
Catalogo Tecnico
Technischer Katalog

2020
BLW 140

www.bapag.it

rev. 1 del 28/04/2020

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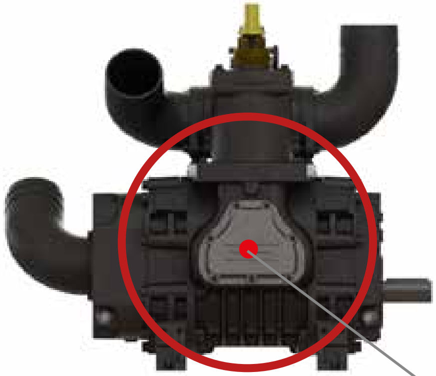
Vacuum relief valve on request
Valvola di regolazione vuoto a richiesta
Soupape the depression sur demande
Unterdruckventil auf anfrange
Válvula de regulacion vacia a solicitud

Non-return valve standard
Valvola di non ritorno di serie
Clapet de non-retour de série
Kontrollventil als Serie
Válvula de retención de serie



Inspection Cover
Coperchio ispezione
Capot d'inspection
Inspektionsabdeckung
Tapa de inspección

Flow sections designed to minimize load losses and heating

Sezioni di passaggio studiate per minimizzare perdite di carico e riscaldamento

Sections de passage étudiées pour minimiser les pertes de charge et le réchauffement.

Die Abschnitte wurden so ausgelegt, dass der Druckverlust und die Gefahr der Überhitzung minimiert werden

Secciones de paso estudiadas para minimizar pérdidas de carga y calentamiento

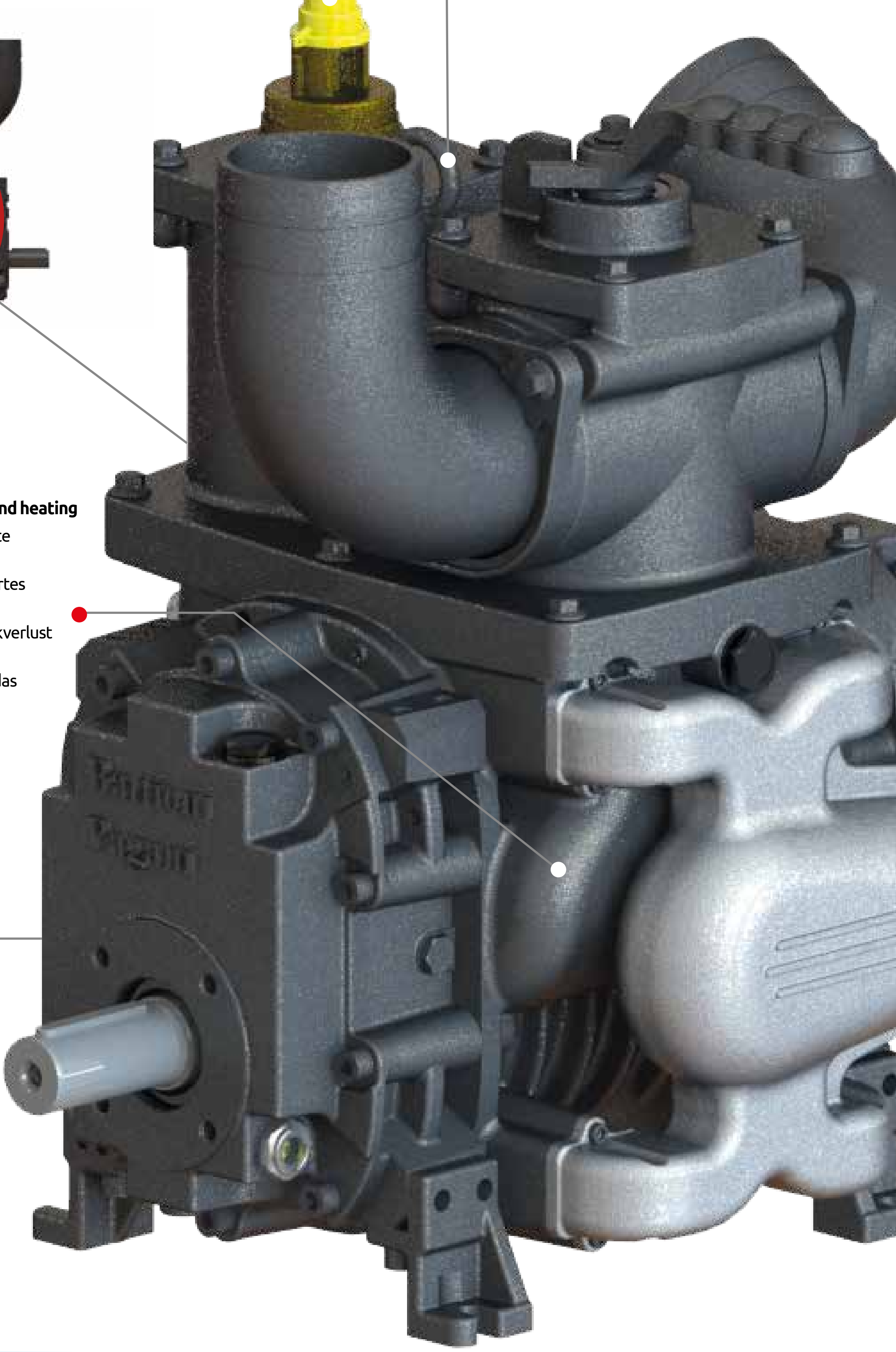
Piston ring and shaft lip seals to prevent oil leakage

Tenute a labirinto con segmenti e la tenuta a labbro sull'albero impediscono la fuoriuscita dell'olio

Les joints en labyrinthe avec segments et le joint à lèvre sur l'arbre empêchent les fuites d'huile

Kolbenring- und Wellenlippendichtungen verhindern das Austreten von Öl

Los sellos laberínticos con segmentos y el sello labial en el eje evitan las fugas de aceite.



Cooling

AIR INJECTION
COOLED - ROTARY
LOBE PUMP

Optimized air injection cooling system to limit heating: continuous operation

Sistema raffreddamento ad iniezione di aria ottimizzato per contenimento temperatura: funzionamento in continuo

Système de refroidissement par injection d'air optimisé pour le limiter la température: fonctionnement continu

Die Luftabkühlung sorgt für niedrige Temperaturen: Dauerbetrieb

Sistema enfriamiento de inyección de aire optimizado para retención de temperaturas: funcionamiento continuo

Non-return valve standard

Valvola di non ritorno di serie

Clapet de non-retour de série

Kontrollventil als Serie

Válvula de retención de serie

VERSIONS

BLW / P

BLW / H

Air injection cooled - Rotary Lobe pump

The picture is only for informative pourpose.

BLW 140

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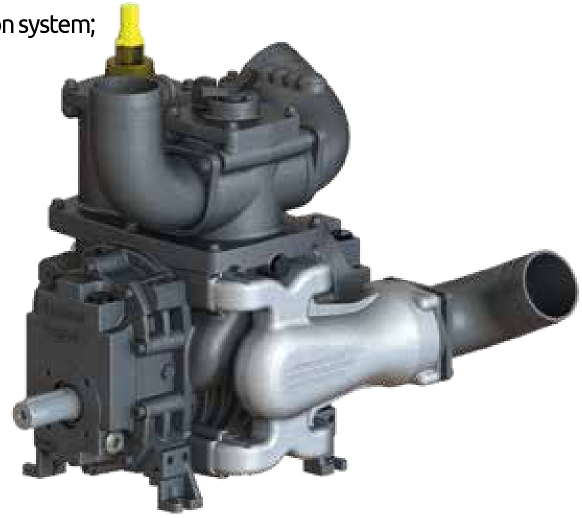
The BLW 140 does not require either a liquid cooling system nor lubrication.
The discharged air into the atmosphere is clean of pollutants such as oil and resins.

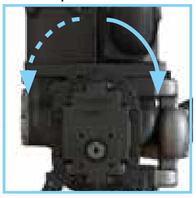
STANDARD FEATURES:

- Compact design: integrated 4 Way valve, check valve and non-return valve on air injection system;
- Ready for vacuum relief valve and integrated internal final filter
- Piston rings sealing



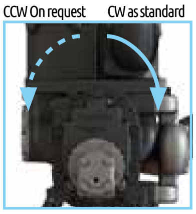
VERSIONS

CCW On request CW as standard



Version P
Smooth Cylindrical shaft,
Ø 38, lenght 80 mm
Parallel key 10x8x70 UNI 6604

CCW On request CW as standard



Version H
PLM 20.16
16.85 cc/rev
Pmax 250 bar
In G 1/2" - Out G 3/4"

TECHNICAL DATA

MODEL	QG	SPEED (rpm)	VACUUM														PRESSURE (BAR ABS)									
			30%				60%				80%				MAX VACUUM		1,5 bar				2,0 bar				WEIGHT	
			l/min	m³/h	cfm	Kw	l/min	m³/h	cfm	Kw	l/min	m³/h	cfm	Kw	bar	Kw	l/min	m³/h	cfm	Kw	l/min	m³/h	cfm	Kw	P	H
BLW 140 P/H	840 m³/h 14000 l/min 494 cfm	2000	4500	270	159	3.3	2980	179	105	6	-	-	-	7.4	-0,75	7.4	4400	264	155	4.8	3700	222	131	9.4	140 Kg	150 Kg
		2500	6100	366	215	4.5	4600	276	162	8	2000	120	70	10.2	-0,80	10.2	5740	345	203	7	5340	320	189	13		
		3000	7400	444	261	6	6220	373	219	10	3000	180	106	12.6	-0,85	13	7100	426	250	8.9	6400	384	226	15.6		
		3500	8500	510	300	6.6	7480	449	264	11.2	4500	270	159	14.3	-0,87	14.9	8500	510	300	10	7850	471	277	18		
		4000	9500	570	335	8	8700	522	307	12.9	6000	360	212	16.4	-0,88	17.5	9480	569	335	12	8850	531	312	21.5		
		4500	10500	630	370	9.6	9600	576	339	15	6700	402	236	18.6	-0,89	20.3	10400	624	367	14.5	9850	591	348	24		
		4800	11200	672	395	10.6	10300	618	363	16.4	7500	450	265	20	-0,90	22	11100	666	392	15.6	10500	630	370	27		

QG: geometrical capacity

According to application - Please contact our Battioni Pagani® Engineering Office

REFERENCE CONDITIONS
Conveyed gas: air
Ambient reference temperature: 20° C (68° F)
Absolute reference pressure: 1013mbar (14.7psi)
Actual performance may vary of +/- 5%.

OPERATING LIMITS
Rpm Max: 4800
Max Pressure: 2 bar (ABS)
Max Exaust Temperature 150 °C (302 °F)
Minimum Ambient temperature: -20 °C (4 °F)
Maximun Ambient temperature: +40 °C (104 °F)

SOUND PRESSURE LEVEL	BLW 140
Sound pressure of the vacuum pump with both silencers installed. Measured at running condition 80% max speed, 60% vacuum rate, distance of 7 meter in open surroundings.	78 dB (A)

OPTIONALS

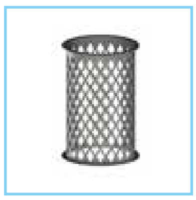
Hydraulic Changeover
Code 6080200315

Hydraulic Revolving Changeover
Code 5090000108

Pneumatic Revolving Changeover
Cod. 6080200306

Pneumatic Revolving Changeover - 3 Positions
Code 6080200307

Kit Aluminum Final Air Filter 1300
Code 6080200426



Cartridge for internal final filter
Code 4060505057

OPTIONALS

Flushing Kit
Code 6080200325

Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102

Kit Overpressure 2"
Code 6080200389

Pump Active Controller

Silent Block
Code 5060010022

Customized Painting

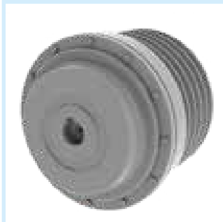
ACCESSORIES

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

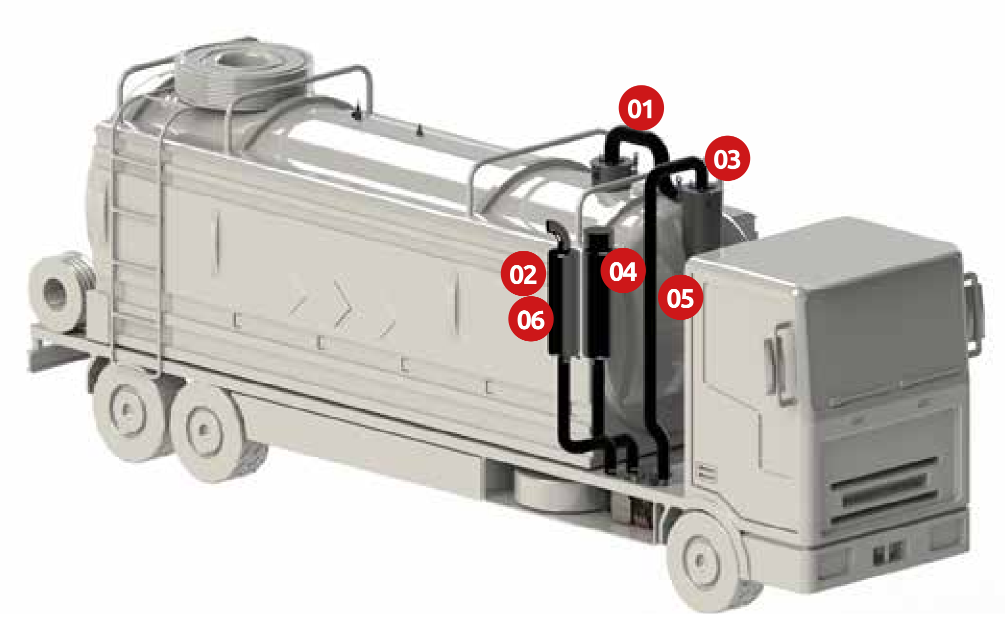
Overpressure Safety Valve - 2"
Code 5100200011
Setting range:
+0,3 bar / +1,5 bar
Workingtemperature:-20°C / +90°C
Thread: 2"
Weight: 1,2 kg

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 - Ø80 SS
Code 6100200028 - Ø100 SS
Ball material: AISI 316
Iron ring to be welded
Weight: 13,8/13,9 kg



Pulley with pneumatic clutch
Code 6080200512



Discharge Silencer
Code 5090000127
Ø 80
Weight 17 kg
Code 5090000126
Ø 100
Weight 25 kg

Inlet Silencer
Code 5090000125
Ø 100
Weight 25 kg

Cyclon valve –1100
Code 6100200033
- Ø100
Housing: Galvanized Mild Steel
Cover: aluminum
Weight: 35 kg

Cyclon valve –1100 SS
Code 6100200034
- Ø100
Housing: AISI 304
Cover: aluminum
Weight: 35 kg

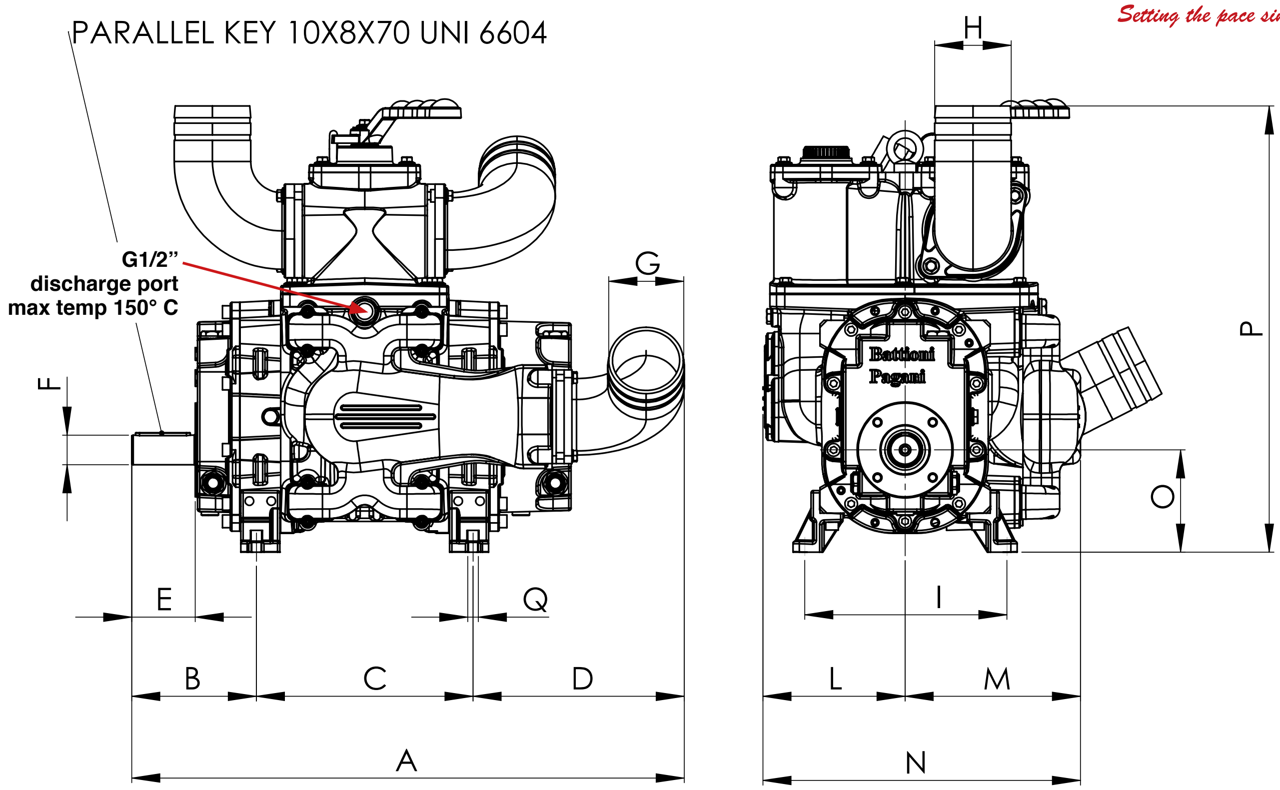
Silencer Sliding Support
Code 5090000128
Ø200 (Silencer Code 5090000127)
Code 5090000129
Ø250 (Silencer Code 5090000126)
Ø250 (Silencer Code 5090000125)

Discharge valve
Code 5040200016 - 1" 1/4
To be fitted on Cyclon valves
Code 5040200014 - 1"
To be fitted on Secondary valve

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

OVERALL DIMENSIONS

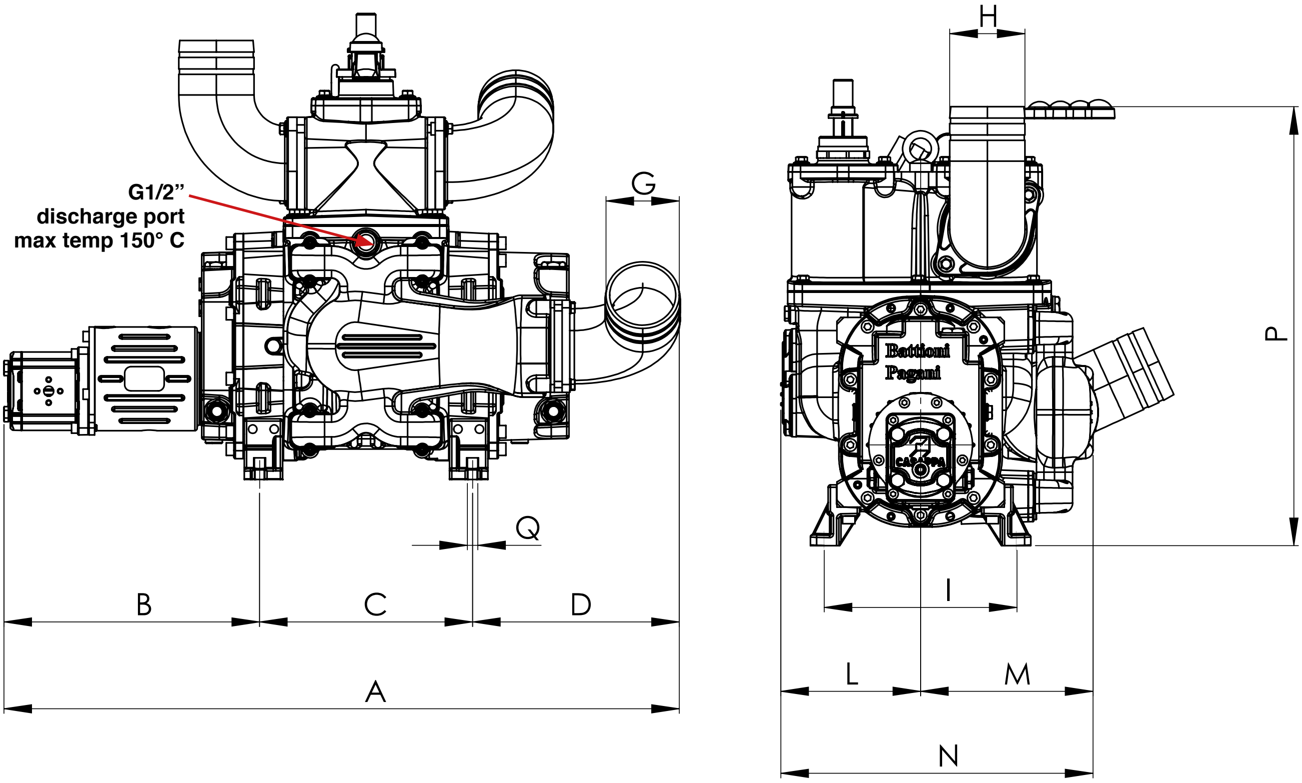
BLW 140/P



Model	A	B	C	D	E	F	G	H	H*	I	L	M	N	O	P	Q
BLW 140/P	707	160	277	270	80	Ø 38 k6	Ø 100	Ø 100	Ø 76 - Ø 80	261	182	225	407	131	571	12

H = standard H* = optional

BLW 140/H



Model	A	B	C	D	G	H	H*	I	L	M	N	P	Q
BLW 140/H	880	333	277	270	Ø 100	Ø 100	Ø 76 - Ø 80	261	182	225	407	571	12

H = standard H* = optional

		HYDRAULIC MOTOR PARAMETER					VACUUM PUMP WORKING CONDITIONS		
MODEL	TYPE	PORT CONNECTION	DISPLACEMENT	REQUIRED FLOW	WORKING PRESSURE	MAX PRESSURE	MAX RPM	MAX VACUUM	MAX PRESSURE
			cm^3/r	l/min	bar	bar	rpm	bar	bar (ABS)
BLW 140 / H	**PLM 20.16**	**G 1/2" - G 3/4"**	**16.85**	**70**	**180**	**250**	**4000**	**-0,88**	**2**

European Conical Shaft 1:8 (82) - (1:8 Taper / 140 Nm / 1239 lbf in)
European Flange Group 2 (E2)

PRODUCT COMPLIANCE INFORMATION

Battioni Pagani® vacuum/pressure blower pumps are designed and manufactured in compliance with EEC safety regulations and are assessed against risks according to the standard UNI EN ISO 12100:2010; in particular they conform to directive 2006/42/CE and subsequent modifications and additions.
The design of this pump complies with the definition of "machine" as contained in the Machinery Directive 2006/42/EC.
The pump carries the CE mark on its identification plate.

DISCLAIMER NOTICE

The information contained in this technical catalogue is up-to-date and valid at the date of its issue as stated in its front page. Battioni Pagani® does not have control over the specific usage intent nor can predict all application conditions under which this product may be used. Therefore, the user shall carefully review the information contained herein and consider it within the specific context of its planned installation and use.
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CONTACT INFORMATION

For the latest specification, additional product information, worldwide sales and distributions locations, techincal or application questions and information about Battioni Pagani® please contact:
Web: www.bapag.it
E-mail: info@bapag.it
For technical questions and application information:
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