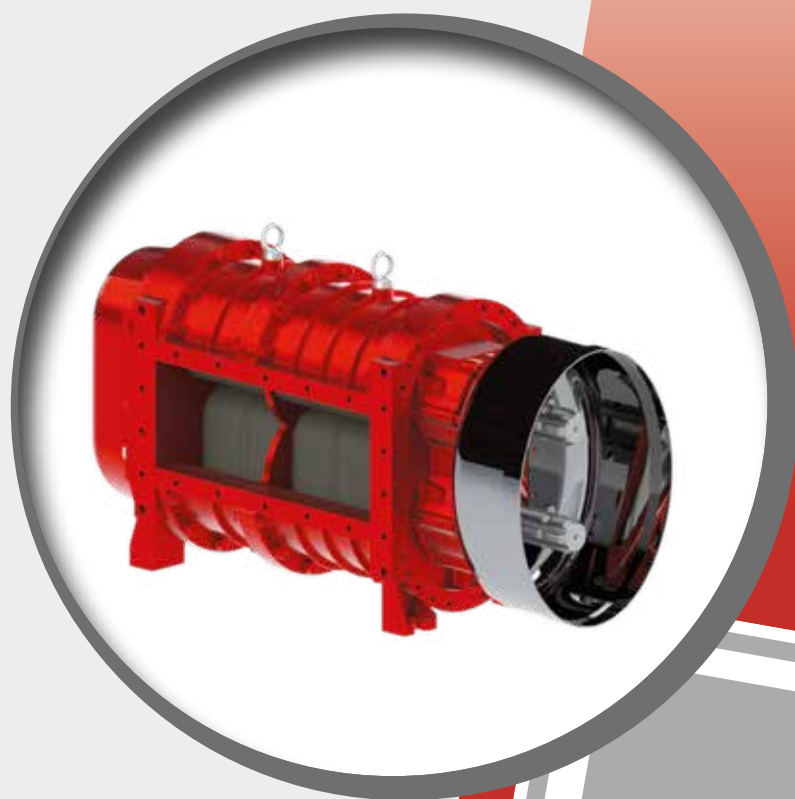




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**Technical Catalogue**  
Catalogo Tecnico  
Technischer Katalog

**2020**

**BR**

40 - 80 - 120 - 160 - 200 - 240 - 280

**BR EVO**

50 - 90 - 170 - 260



**[www.bapag.it](http://www.bapag.it)**

rev. 1 del 28/04/2020



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**Low cost stator and lobes replacement**

Sostituzione economica di statori e lobi

Wirtschaftlicher Austausch von Statoren und Kolben

**Wear-resistant special steel plates standard**

Piastre anti-usura in acciaio speciale di serie

Spezielle Verschleißschutzplatten serienmäßig



**Available coatings are:  
NBR rubber, SBR rubber,  
FKM rubber, EPDM rubber**

Rivestimenti disponibili:  
gomma NBR, gomma SBR,  
gomma FKM, gomma EPDM

Verfügbare Ummantelung:  
NBR, SBR, FKM und EPDM

**Bilobe rotors**

Rotori bilobati

Doppelkolbenrotoren



**Double splined shaft to reverse  
rotational direction**

Doppio albero per versione D per  
invertire senso di rotazione

Doppelte Welle für Ausführung D zur  
Inversion der Rotationsrichtung



Self Priming  
Rotary Lobe  
Liquid Transfer  
Pumps



## VERSIONS



BR - D



BR - EL



BR - H



BR - HM



BR - P

● **FKM sealings up to 10 bar resistant**

Tenute in FKM per pressioni fino a 10 bar  
Dichtungen aus FKM für Druck von bis zu 10 bar

● **Double bearings shaft support for high pressure resistance**

Albero sostenuto da due cuscinetti per alte pressioni  
Welle gehalten von zwei Hochdrucklagern

**BR** Ideal for high pressures





# BR

## 40 - 80 - 120 - 160 - 200 - 240 - 280



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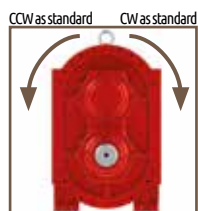
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### BR – The simply reliable

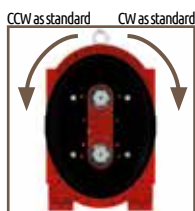
The BR series of positive displacement rotary lobes pumps are utilized for liquids and muds handling. It requires absence of abrasives and solid bodies less than 20mm wide. The BR series is equipped by replaceable wear-resistant plates to reduce maintenance costs. The BR features a robust design thanks to the double shaft support that enables operation at high working pressure and significant vibrations reduction. The BR simple and modular design gives high performances at low cost. The pump is ideal for agricultural applications or as auxiliary pump in vacuum trucks.



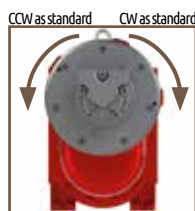
### VERSIONS



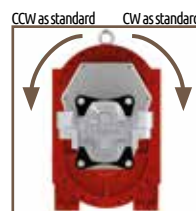
**Version P**  
**BR 40/80/120/160**  
Smooth Cylindrical shaft,  
Ø 38, length 100 mm  
Parallel key UNI 6604  
**BR 200/240/280**  
Smooth Cylindrical shaft,  
Ø 48, length 120 mm  
Parallel key UNI 6604



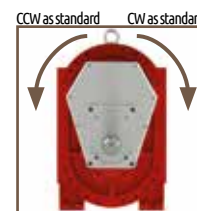
**Version D**  
Splined shaft  
1”3/8 - Z6 ISO 500



**Version H**  
304 cc/rev  
Pmax 250 bar  
In G 1” - Out G 1”



**Version HM**  
Group 3  
73,82 cc/rev  
Pmax 180 bar  
In G 1” - Out G 1” 1/4



**Version EL**  
Splined shaft  
1”3/8 - Z6 ISO 500

### TECHNICAL DATA

	Geometrical capacity			Max rpm			Max Pressure Abs Bar (PSI)		Power Required at Max Pressure kW (hp)		Weight kg				
	m³/h	l/min	cfm	P/D	H	HM/EL	P/D/H	HM/EL	P/D/H	HM/EL	P	D	H	HM	EL
BR 40	42	710	25	540	/	1620	10 (145)	10 (145)	13 (17,4)	13 (17,4)	101	103	/	122	107
BR 80	85	1425	50	540	/	1620	10 (145)	10 (145)	27 (36,2)	27 (36,2)	119	121	/	142	125
BR 120	127	2125	75	540	/	1620	10 (145)	6 (87)	39 (52,2)	25 (33,5)	137	139	/	158	143
BR 160	172	2875	101	540	/	1620	8 (116)	5 (72)	43 (57,6)	29 (38,9)	161	163	/	182	167
BR 200	210	3500	123	540	540	/	7 (101)	/	48 (64,3)	/	181	182	237	/	/
BR 240	255	4250	150	540	540	/	6 (86)	/	50 (67,0)	/	197	198	252	/	/
BR 280	297	4950	174	540	540	/	5 (72)	/	52 (69,7)	/	217	218	272	/	/

### OPTIONALS



**SBR Rubber Lobes**



**EPDM Rubber Lobes**



**FKM Rubber Lobes**



**BR Elbows Kit**  
Code 6080200024 - BR 80  
Code 6080200025 - BR 120  
Code 6080200026 - BR 160  
Code 6080200027 - BR 200  
Code 6080200028 - BR 240  
Code 6080200029 - BR 280



**Overpressure Valve 2" - 2" 1/2**  
Code 5100200033  
BR 40-80-120-160  
Code 5100200034  
BR 200-240-280



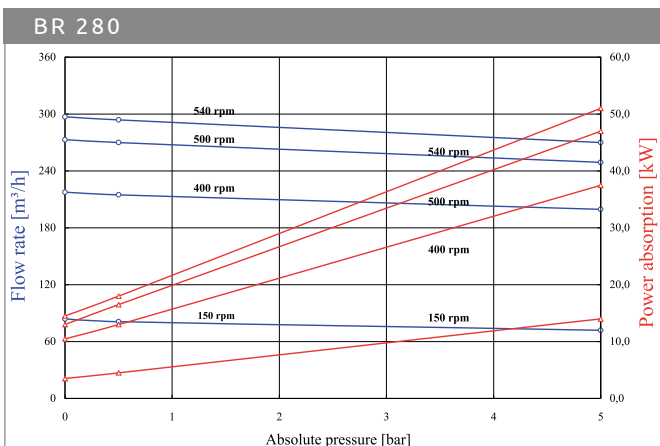
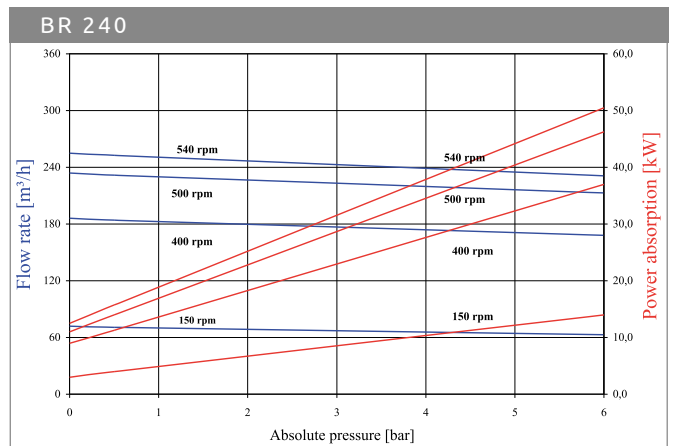
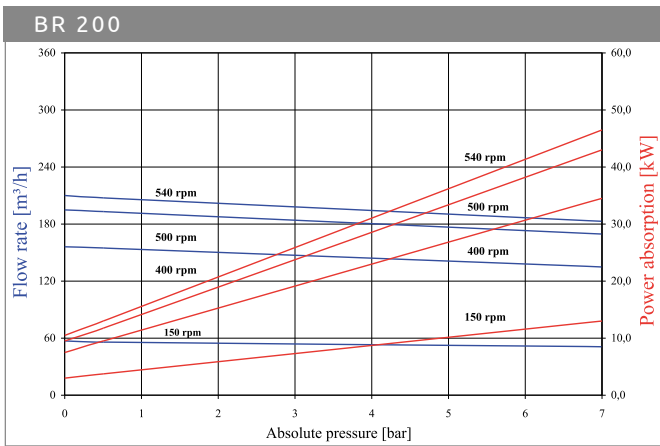
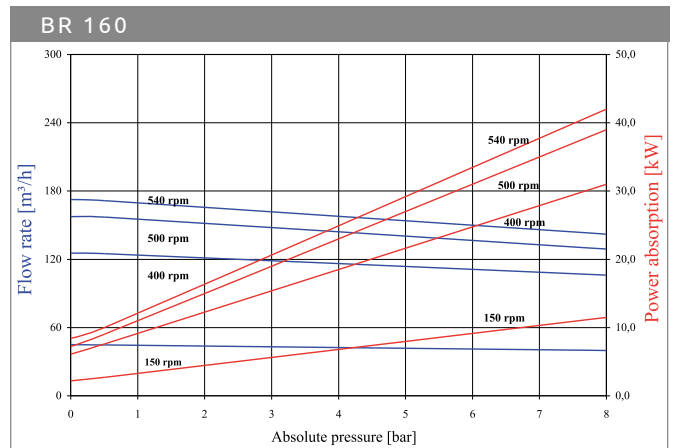
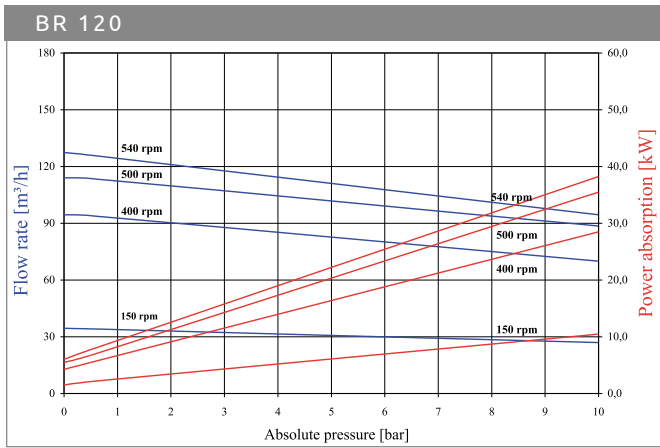
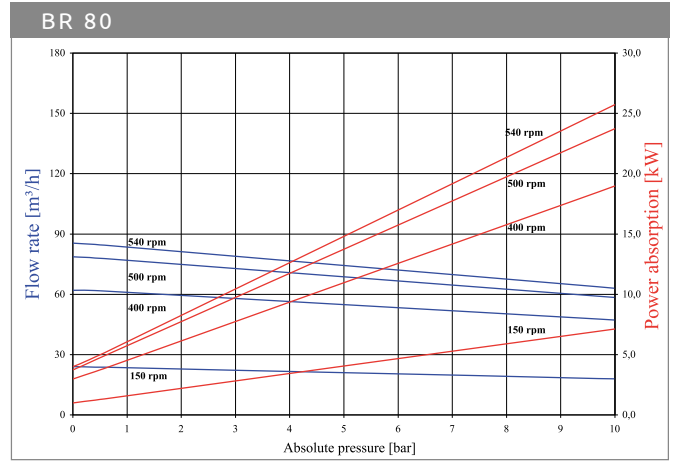
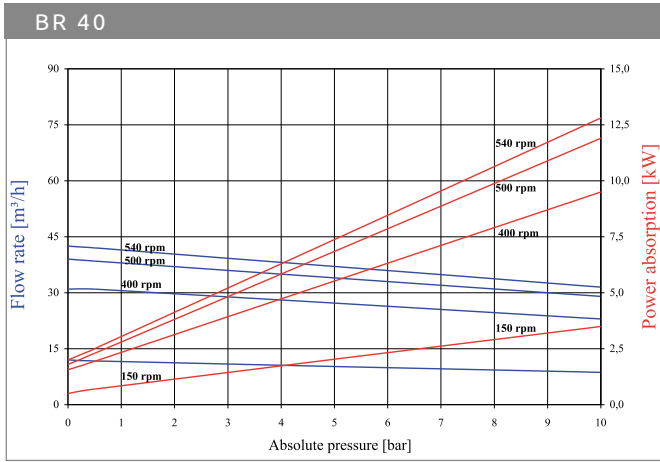
**Customized Painting**



**Coupling Flange BR**  
Code 5010401014 - BR 160  
Code 5010401021 - BR 40  
Code 5010401012 - BR 80  
Code 5010401013 - BR 120  
Code 5010401015 - BR 200  
Code 5010401016 - BR 240  
Code 5010401017 - BR 280



**FLOW-PRESSURE CHARTS**



Self-Priming Rotary Lobe  
Liquid Transfer Pumps



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**Easy maintenance rear shaft support (standard on BR EVO 170 and 260)**

Supporto posteriore per alberi easy maintenance (di serie per BR EVO 170 e 260)

Halterung vorn für Wellen Easy Maintenance (serienmäßig für BR EVO 170 und 260)

**Friendly Maintenance**

Facile manutenzione e pulizia

Einfache Wartung und Reinigung



**Trilobe rotor design standard. Available coatings are: NBR rubber, FKM rubber, EPDM rubber.**

Geometria trilobata del rotore di serie.  
Rivestimenti disponibili: gomma NBR, gomma FKM, gomma EPDM.

Kleeblattform des serienmäßigen Rotors.  
Verfügbare Ummantelung: NBR, SBR, FKM und EPDM



**Tungsteno carbide (Widia) seals: specifically designed for heavy duty applications to grant maximum wear-resistance**

Tenute meccaniche in carburo di tungsteno (Widia): studiate per usi gravosi e anti-usura.

Dichtungen aus Wolframcarbid (Widia) für den Einsatz hart und Anti-Verschleiß

**Seals cooling room standard  
The seals cooling room is included as standard feature to grant the cooling and lubrication of the tungsten carbide seals (Widia).**

Camera raffreddamento tenute di serie. Permette il raffreddamento e la lubrificazione delle tenute in carburo di tungsteno (Widia).  
Raumkühlung erforderlichen Standard. Ermöglicht Kühlung und Schmierung von Dichtungen in Wolframcarbid (Widia).



Self Priming  
Rotary Lobe  
Liquid Transfer  
Pumps



**Heavy duty shafts standard**

Alberi per usi gravosi di serie

Wellen für starke Beanspruchung serienmäßig

**Wear-resistant special steel plates standard**

Piastre anti-usura in acciaio speciale di serie

Spezielle Verschleißschutzplatten serienmäßig

## VERSIONS



BREVO-D

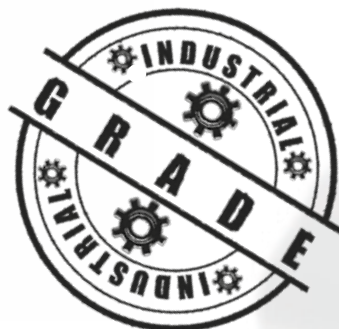


BREVO-P



BREVO-H

**BR EVO Friendly Maintenance from rear cover!**



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



# BR EVO

## 50 - 90 - 170 - 260

### BR-EVO – The evolution

The BR-EVO series of positive displacement rotary lobes pumps is the evolution of the BR pump. Utilized for liquids and muds handling, the BR-EVO requires absence of abrasives and solid bodies less than 30mm wide.

The BR-EVO gearbox is a separate part from the pumping group. This prevents the gearbox to be damaged in case of a break of the mechanical seals.

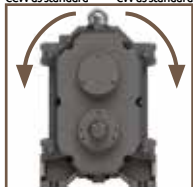
The BR-EVO features a trilobal lobes design and cooled WIDIA mechanical seals.

The BR-EVO has been specifically designed for in field easy maintenance: rubber lobes, mechanical seals and wear-resistant plates can be replaced without having to remove the pump from the truck system and without having to open the pipes.



### VERSIONS

CCW as standard CW as standard



#### Version P

##### BR EVO 50

Smooth Cylindrical shaft, Ø 28, lenght: 60 mm

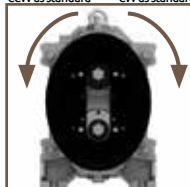
Parallel key UNI 6604

##### BR EVO 90-170-260

Smooth Cylindrical shaft, Ø 38, lenght: 80 mm

Parallel key UNI 6604

CCW as standard CW as standard

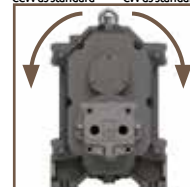


#### Version D

Splined shaft

1"3/8 - Z6 ISO 500

CCW as standard CW as standard



#### Version H

**BR EVO 50:** 99.8 cc/rev - Pmax 175 bar -

In G 1/2" - Out G 1/2"

**BR EVO 90-170:** 201.4 cc/rev - Pmax 175 bar -

In G 3/4" - Out G 3/4"

**BR EVO 260:** 326.3 cc/rev - Pmax 175 bar -

In G 3/4" - Out G 3/4"

### TECHNICAL DATA

	Geometrical capacity			Max rpm			Max Pressure Abs Bar (PSI)			Power Required at Max Pressure kW (hp)			Weight kg		
	m³/h	l/min	cfm	P	D	H	P	D	H	P	D	H	P	D	H
BR EVO - 50	38	633	22	600	600	600	10 (145)	10 (145)	10 (145)	11 (14,7)	11 (14,7)	11 (14,7)	80	82	96
BR EVO - 90	94	1567	55	600	600	600	8 (116)	8 (116)	8 (116)	19 (25,4)	19 (25,4)	19 (25,4)	150	152	176
BR EVO - 170	166	2767	98	600	600	600	8 (116)	8 (116)	8 (116)	29 (38,9)	29 (38,9)	29 (38,9)	165	167	191
BR EVO - 260	283	4718	166	600	600	600	6 (86)	6 (86)	6 (86)	44 (59,0)	44 (59,0)	44 (59,0)	214	216	240

### OPTIONALS



**SBR Rubber Lobes**



**FKM Rubber Lobes**



**EPDM Rubber Lobes**



**Round Suction Hose Connectors Kit**

Code 4440001201

BR EVO 90

Code 4440001202

BR EVO 170

Code 4440001203

BR EVO 260



**Square Suction Hose Connectors Kit**

Code 6010201070

BR EVO 90

Code 6010201071

BR EVO 170



**Overpressure Valve 2" - 2" 1/2**

Code 5100200033

BR EVO 50 - 90 - 170

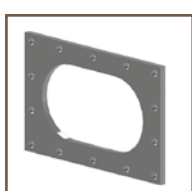
Code 5100200034

BR EVO 260



**Elbows Kit BR EVO 170 - 260**

Code 6080200205



**Coupling Flange BR EVO 90**

Code 4440001200

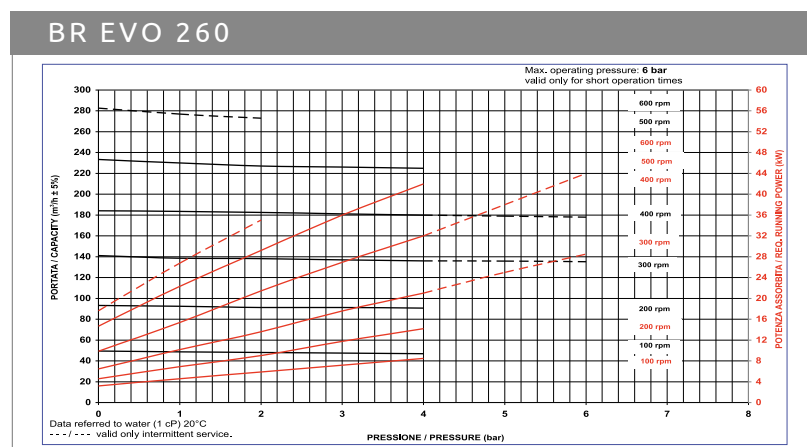
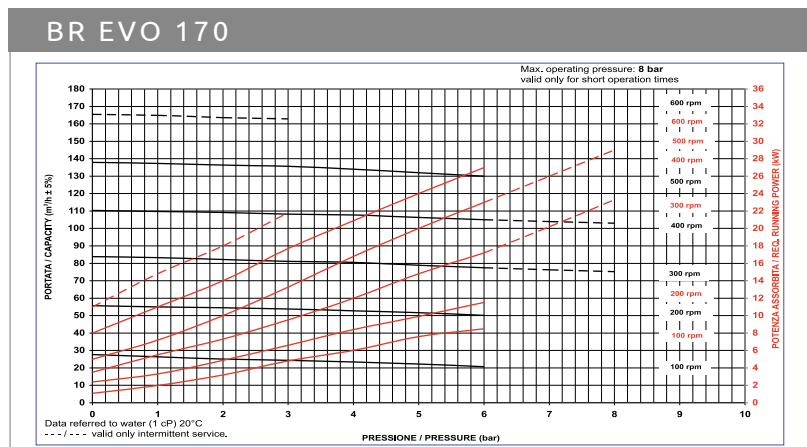
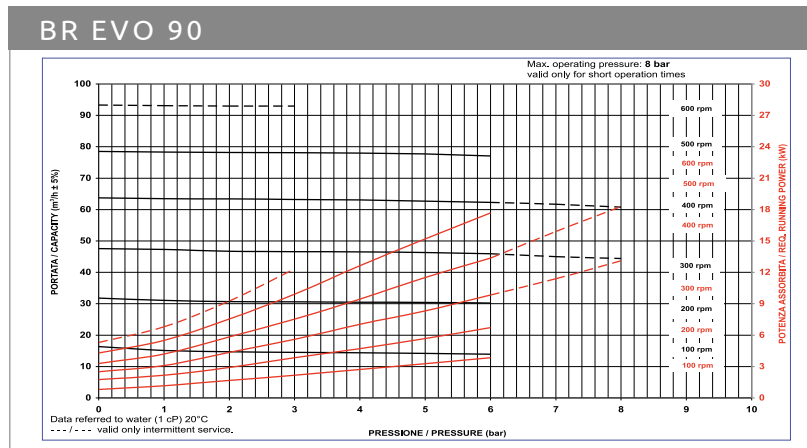
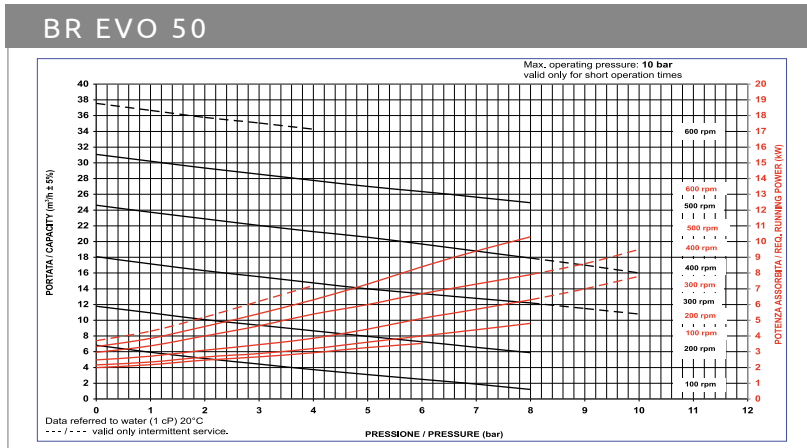


**Customized Painting**





### FLOW-PRESSURE CHARTS



Self Priming Rotary Lobe  
Liquid Transfer Pumps



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[info@bapag.it](mailto:info@bapag.it)

