

BR BR - EVO

Catalogo Tecnico

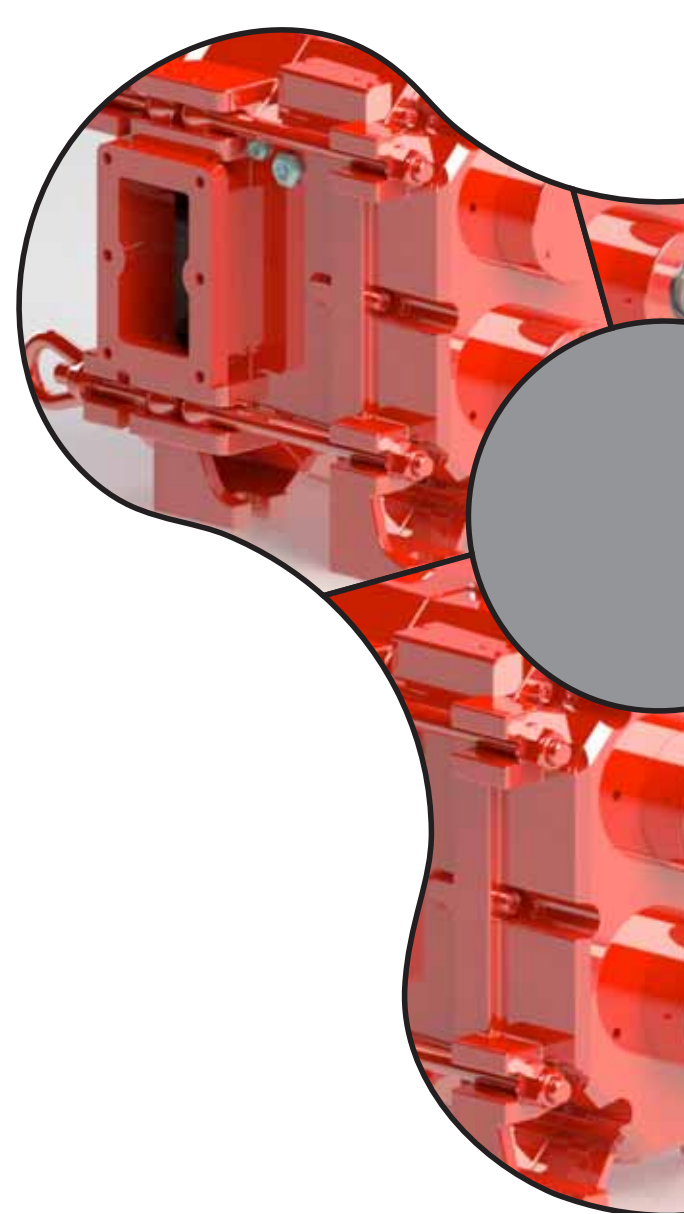
Technical catalogue

Catalogue technique

Technischer Katalog

Catálogo Técnico

Catálogo Técnico



Battioni®
Pagani
Pompe

Your choice without compromises



Battioni®
Pagani
Pompe



First in pioneering the vacuum industry since 1952, Battioni Pagani Pompe® is the worldwide leader in design and manufacturing of Rotary Vanes Vacuum Pumps for agricultural and industrial markets.

With over 50 years of experience of our customer applications and needs from all over the world, Battioni Pagani Pompe® know-how has been built through continuous investment in product development, supply chain and mass volume manufacturing to provide the highest product performances at the lowest cost.

Our new scientific method and rigorous approach to product design and our advanced automated manufacturing processes have been instrumental to improve our products over time combining the right mix of technology innovation with our traditional long standing values of quality and reliability.

With the largest production capacity in the world of over 20.000 pumps per year and with more than 500.000 pumps delivered to over 100 countries, Battioni Pagani Pompe® is recognized for its proven track record of consistent delivery of performance, quality and reliability by all people that do not accept compromises.

Pioniere dal 1952 nel settore del vuoto, Battioni Pagani Pompe® è il leader mondiale nella progettazione e produzione di pompe per vuoto rotative a palette per i mercati agricolo e industriale.

Con oltre 50 anni di esperienza delle applicazioni e delle necessità dei propri clienti in tutto il mondo, Battioni Pagani Pompe® ha costruito e consolidato negli anni il proprio know-how grazie ai continui investimenti in ricerca e sviluppo, in ottimizzazione della supply-chain e in automazione della produzione di massa garantendo sempre un prodotto al top delle prestazioni al minimo costo.

Il moderno metodo scientifico e l'approccio rigoroso alla progettazione uniti ad avanzati processi di produzione automatizzati sono i fondamenti che hanno permesso un continuo miglioramento dei prodotti nel tempo combinando il giusto mix di innovazione tecnologica con i tradizionali valori di qualità e affidabilità.

Con la più elevata capacità produttiva al mondo di oltre 20.000 pompe all'anno e con più di 500.000 pompe consegnate in oltre 100 paesi, il marchio Battioni Pagani Pompe® è riconosciuto nel mondo come sinonimo di alte prestazioni, qualità e affidabilità da parte di tutti coloro che non accettano compromessi.

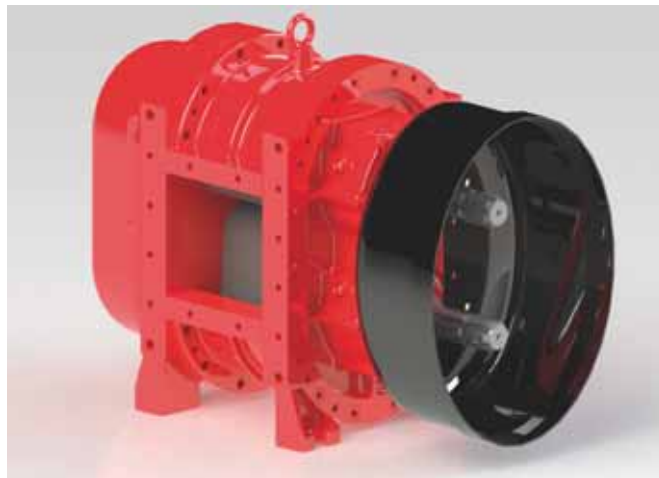
BR EVO

50 - 90 - 170 - 260



BR

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



APPLICATIONS

Battioni Pagani Pompe® rotary lobes pumps have been used for decades in a multitude of applications whenever pumping of various types of liquids is required.

Agricultural/farming applications: pig and cows slurry handling, slurry trucks, biogas systems etc.

Agricultural/farming applications: slurry and muds handling to avoid sedimentations in stocking tanks.

Municipal and waste management industry: auxiliary pump for liquid handling, low pressure cleaning in vacuum sewage cleaning trucks etc.

Dewatering: building dewatering and fields drainage.

Water treatment and sewage treatment plants: to feed centrifuges, press belts, filter presses to dose lime flocculants, to direct prime sludge, digested sludge, sewage sludge, washing water etc.

ATEX 94/9/CE compliant (on request): use allowed in petrochemical plants, offshore platforms, distilleries, paint manufacturing, fabrics dyeing, etc.

CAMPI D'IMPIEGO

Le pompe a lobi Battioni Pagani Pompe® sono impiegate da decenni in diverse applicazioni dove è necessario movimentare liquidi di diversa natura e per diverse finalità.

Agricoltura / allevamento: movimentazione liquami suini e bovini, per cisterne su gomma, per impianti biogas ecc.

Agricoltura / allevamento: movimentazione liquami e fanghi per evitare sedimentazioni in vasche di raccolta.

Camion spurgo: applicazione come pompa ausiliaria per travaso liquidi, per pulizie bassa pressione ecc.

Dewatering: prosciugamento edifici e bonifica terreni.

Trattamento acque, impianti di depurazione: per alimentare centrifughe, nastri pressa, filtri pressa per dosare latte di calce flocculanti, per convogliare fanghi primari, fanghi digeriti, fanghi di acque di scarico, acque di lavaggio, ecc.

Possibilità di utilizzo in atmosfera potenzialmente esplosiva secondo direttiva ATEX 94/9/CE (a richiesta): petrolchimico, piattaforme offshore, distillerie, produzione vernici, tintura tessuti, ecc.

BR EVO

50 - 90 - 170 - 260

CE shaft guard.
Protezione albero CE.

Lockings to grant perfect rotors timing synchronism.

Fasatura lobi perfetta garantita da utilizzo di calettatori di serie.

Heavy duty shafts.
Alberi per usi gravosi di serie.

The seals cooling room is included as standard feature to grant the cooling and lubrication of the tungsten carbide seals (Widia). Separate the gearbox from the pumping unit preventing the entry of fluid in the gearbox in the event of seal failure

Camera raffreddamento tenute di serie. Permette il raffreddamento e la lubrificazione delle tenute in carburo di tungsteno (Widia). Separa il gruppo pompante dalla scatola ingranaggi, evitando l'ingresso di fluidi nella scatola ingranaggi in caso di rottura della tenuta.

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

Supporto posteriore per alberi easy maintenance, di serie per BR EVO 170 and 260.

Wear-resistant special steel plates.

Piastre anti-usura in acciaio speciale di serie.



The version / D has been designed to be driven by cardan shaft at 540 rpm.

La versione / D è stata ideata per essere azionata tramite albero cardanico a 540 rpm.



The version / P is driven by pulleys and belts, particularly for truck application.

La versione / P è azionata tramite puleggia e cinghie in particolare per applicazioni su camion



The version / H has been designed to be driven by hydraulic motor.

La versione / H è stata ideata per essere azionata tramite motore idraulico.



Tungsten 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.

Lockings to grant perfect timing synchronism.

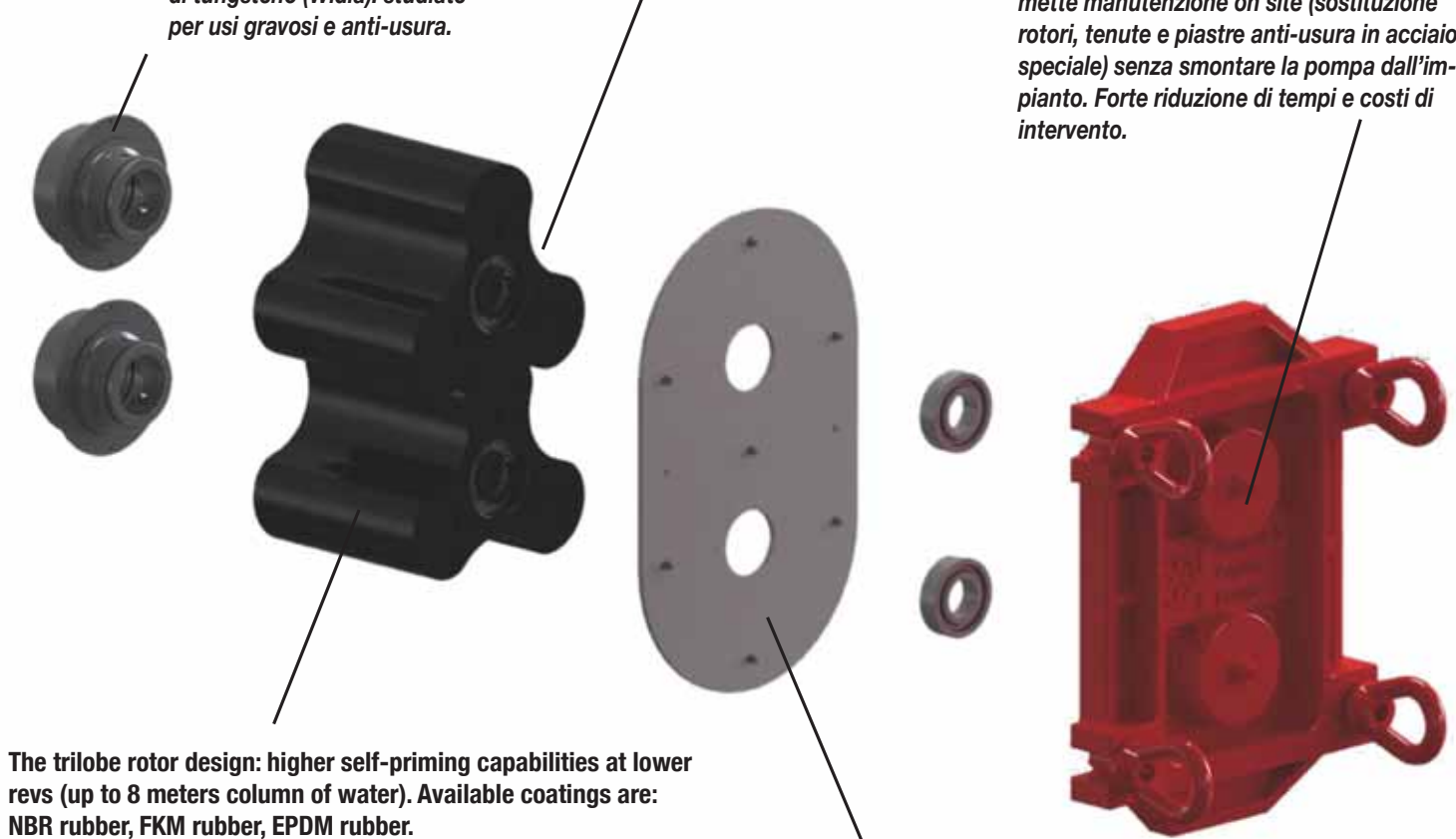
Fasatura perfetta garantita da utilizzo di calettatori di serie.

Friendly Maintenance

On-site maintenance and inside cleaning (replacing of rotors, seals and special steel plates) can be achieved without dismantling the pump from the system by simply manually removing the rear cover (no tools are required). This reduces drastically service time and maintenance costs.

Facile manutenzione e pulizia

Il coperchio posteriore può essere smontato velocemente senza alcun utensile e permette manutenzione on site (sostituzione rotor, tenute e piastre anti-usura in acciaio speciale) senza smontare la pompa dall'impianto. Forte riduzione di tempi e costi di intervento.



The trilobe rotor design: higher self-priming capabilities at lower revs (up to 8 meters column of water). Available coatings are: NBR rubber, FKM rubber, EPDM rubber.

Geometria trilobata del rotore di serie: maggior capacità autoadescante anche a bassi giri (fino a 8 metri di colonna d'acqua). Rivestimenti disponibili: gomma NBR, gomma FKM, gomma EPDM.

Wear-resistant special steel plates.

Piastre anti-usura in acciaio speciale di serie.

OTHER FEATURES :

- Self-priming up to 8 meter column of water depth (also at low rpm);
- Both directions rotation allowed;
- Flow of solid parts (up to 30 mm) through the pump allowed.

CARATTERISTICHE:

- Autoadescante fino a 8 metri di colonna d'acqua di profondità, anche a bassi regimi di giri;
- Flusso reversibile in entrambi i sensi di marcia;
- Possibilità di pompaggio di prodotti contenenti anche corpi solidi fino a 30 mm di diametro.

BR

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

Low cost stator and lobes replacement.

Economica sostituzione statori e lobi.

Wear-resistant special steel plates.

Piastre anti-usura in acciaio speciale di serie.

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

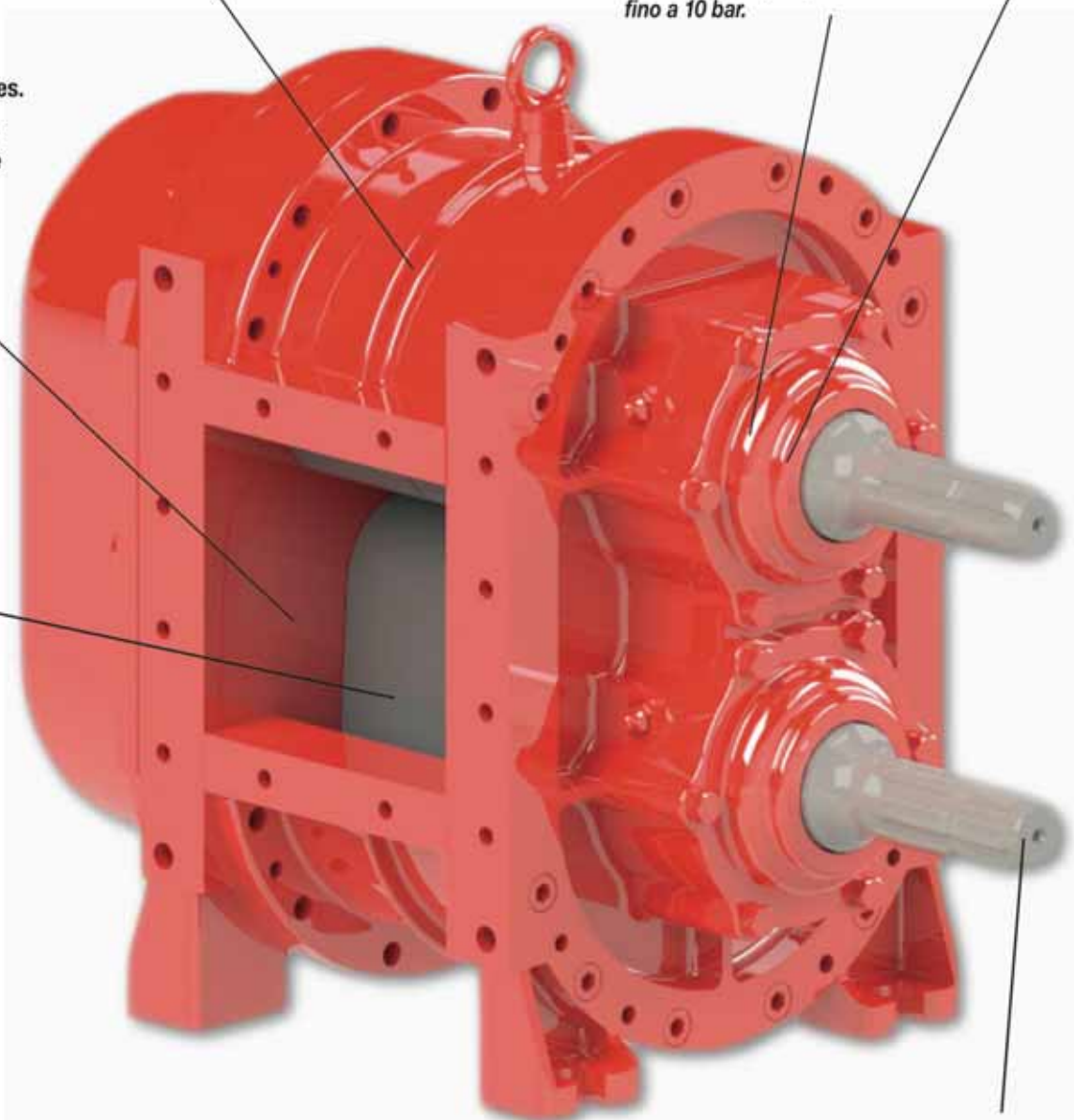
Rivestimenti disponibili: gomma NBR, gomma SBR, gomma FKM, gomma EPDM.

FKM sealings up to 10 bar resistant.

Tenute in FKM per pressioni fino a 10 bar.

Double bearings shaft support for high pressure resistance.

Albero sostenuto da due cuscinetti per alte pressioni.



Double splined shaft to reverse rotational direction.

Doppio albero per versione D per invertire senso di rotazione.

CE



The version / D has been designed to be driven by cardan shaft at 540 rpm.

La versione / D è stata ideata per essere azionata tramite albero cardanico a 540 rpm.



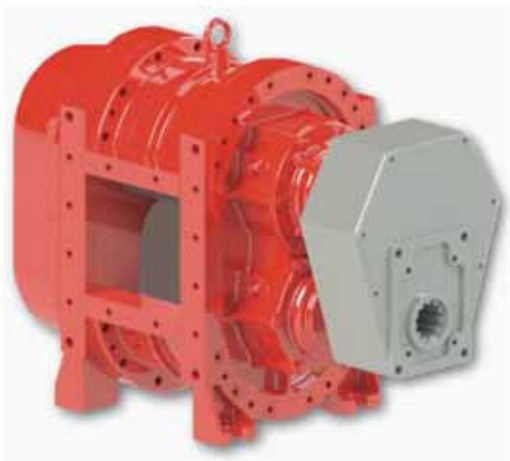
The version / P is driven by pulleys and belts, particularly for truck application.

La versione / P è azionata tramite puleggia e cinghie in particolare per applicazioni su camion.



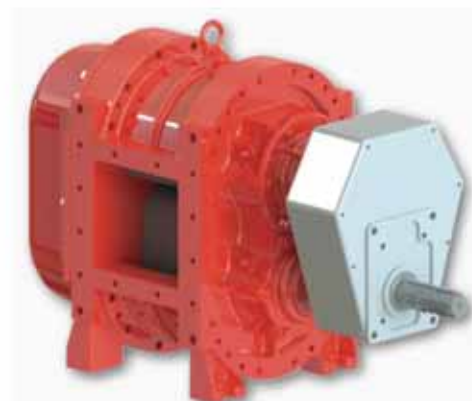
The version / H has been designed to be driven by hydraulic motor.

La versione / H è stata ideata per essere azionata tramite motore idraulico.



The version / HM has been designed to be driven by hydraulic motor.

La versione / HM è stata ideata per essere azionata tramite motore idraulico.



The version / EL has been designed to be driven by electric motor.

La versione / EL è stata ideata per essere azionata tramite motore elettrico.

BR EVO / D

50 - 90 - 170 - 260



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The version / D has been designed to be driven by cardan shaft at 540 rpm.

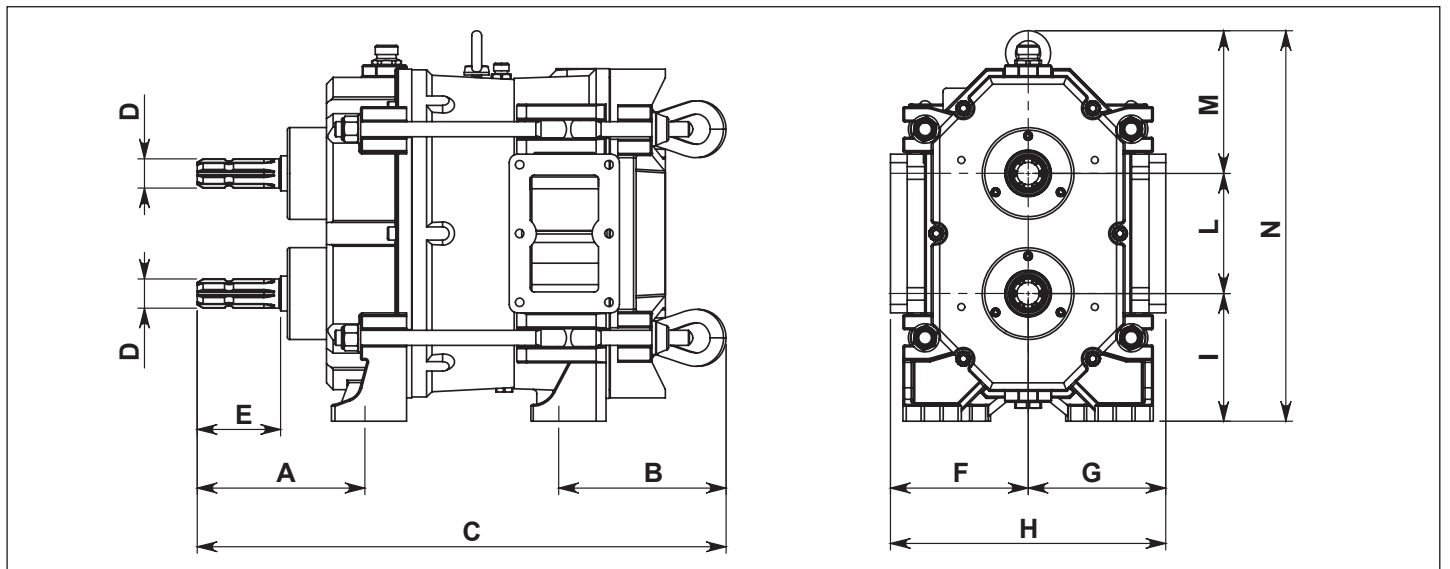
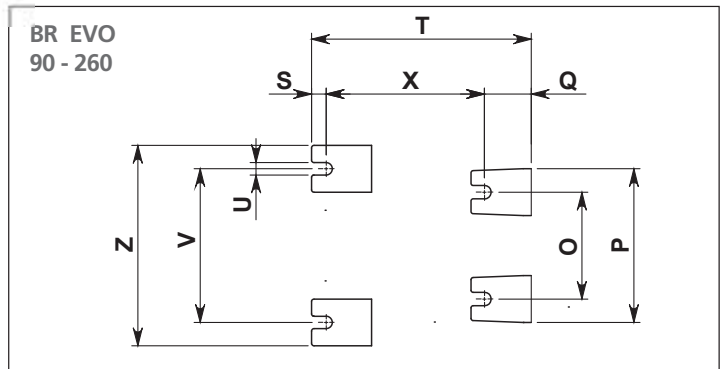
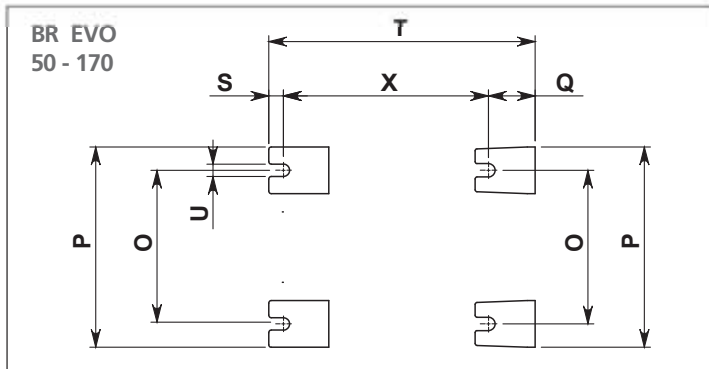
La versione / D è stata ideata per essere azionata tramite albero cardanico a 540 rpm.

La version / D a été projetée pour être actionnée par un arbre à cardan 540 tpm.

In der Version / D die Antriebswelle (Zapfwelle) wird über eine Kardanwelle zu 540 upm. betrieben.

La version / D ha sido concebida para ser accionada a través una transmisión cardan a 540 rpm

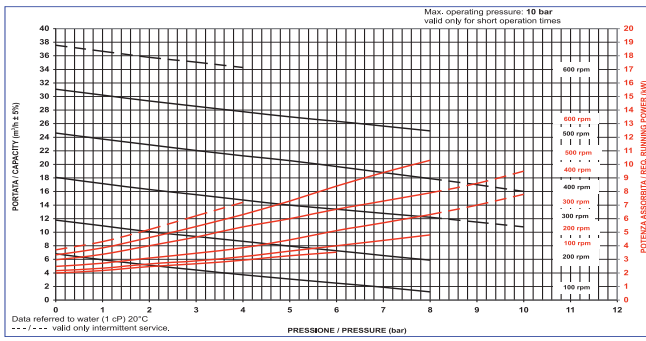
A versão / D foi projectada para funcionar com eixo de cardan a 540 rpm.



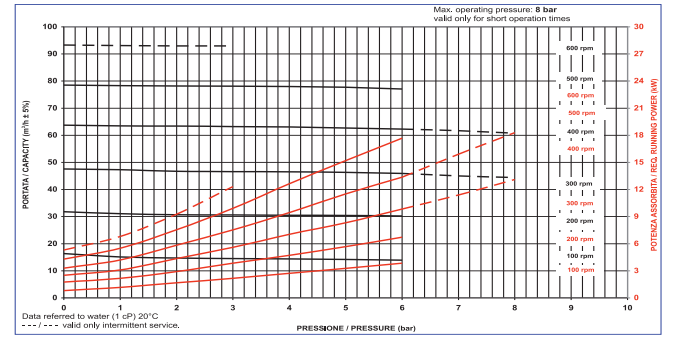
SIDE CONNECTION HOLES - SEE PAGE 29
FLANGIATURA LATERALE VEDI PAG. 29

Article	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	S	T	U	V	Z	X
BR EVO 50/D	181	183	542	1" 3/8	100	187,5	187,5	375	120	99	130	349	170	225	50	21	249	18	-	-	178
BR EVO 90/D	183	214	634	1" 3/8	100	165	165	330	153	144	171	468	160	230	70	22	329	19	230	300	237
BR EVO 170/D	183	214	704	1" 3/8	100	150	150	300	153	144	171	468	230	300	70	22	399	19	-	-	307
BR EVO 260/D	180	217	696	1" 3/4	100	189	189	378	174	176	195	545	190	260	61	20	381	20	305	370	300

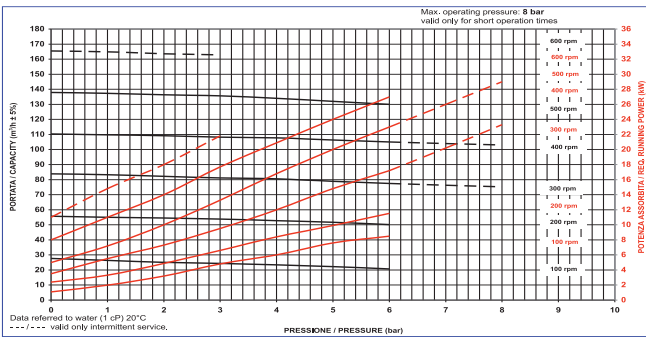
BR EVO 50 / D



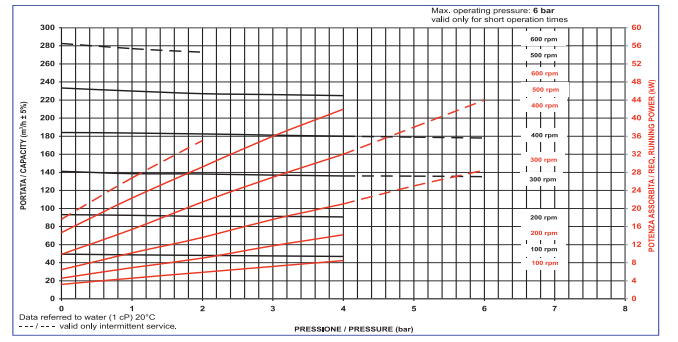
BR EVO 90 / D



BR EVO 170 / D



BR EVO 260 / D



DATI TECNICI (technical data / données techniques / technische Daten / Datos técnicos)		BR EVO 50/D	BR EVO 90/D	BR EVO 170/D	BR EVO 260/D	
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[l / min]	633	1567	2767	4718
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[m³ / h]	38	94	166	283
Velocità massima (max rpm / tours maximum / max drehzahl / rpm max)	**	[rpm]	600	600	600	600
Pressione max (Relativa) Max(relative) pressure / pression max (relative) / max (relativ) druck / presión max (relativa)	***	[bar]	10	8	8	6
Ass. potenza (power absorption / absorption puissance / leistungsbeoarf / potencia absorbida)		[kW]	11	19	29	44
Peso netto (net weight / poids net / netto-gewicht / peso neto)		[Kg]	82	152	167	216

* Indicative data. The actual capacity depends on pumped fluid and working conditions.
 **Max value valid for non-continuous working.
 ***Valid for short periods, only. For continuous work, please contact Technical Dept.
 Please note that lobes rotors life decreases at high pressures.

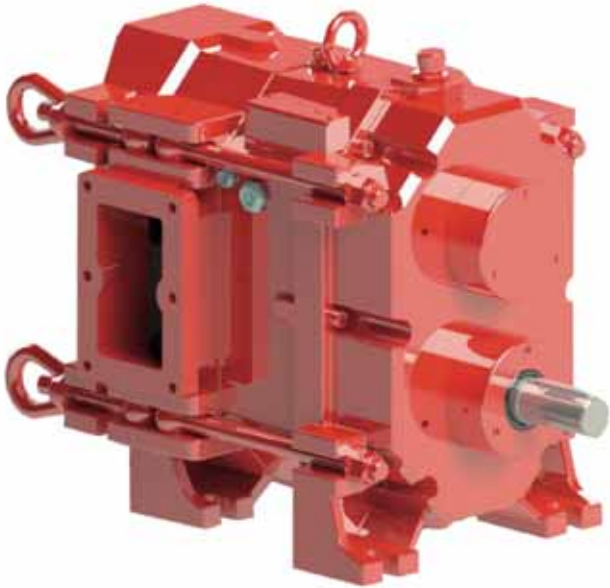
* **Valori teorici. La portata reale dipende dal fluido pompato e condizioni di utilizzo.**
 ** **Valore massimo valido solo per funzionamento intermittente.**
 *** **Valida solo per brevi periodi. Per funzionamento continuo prego contattare servizio tecnico.**
Si ricorda che la durata dei rotori a lobi si riduce alle alte pressioni.

BR EVO / P

50 - 90 - 170 - 260



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The version / P is driven by pulleys and belts, particularly for truck application.

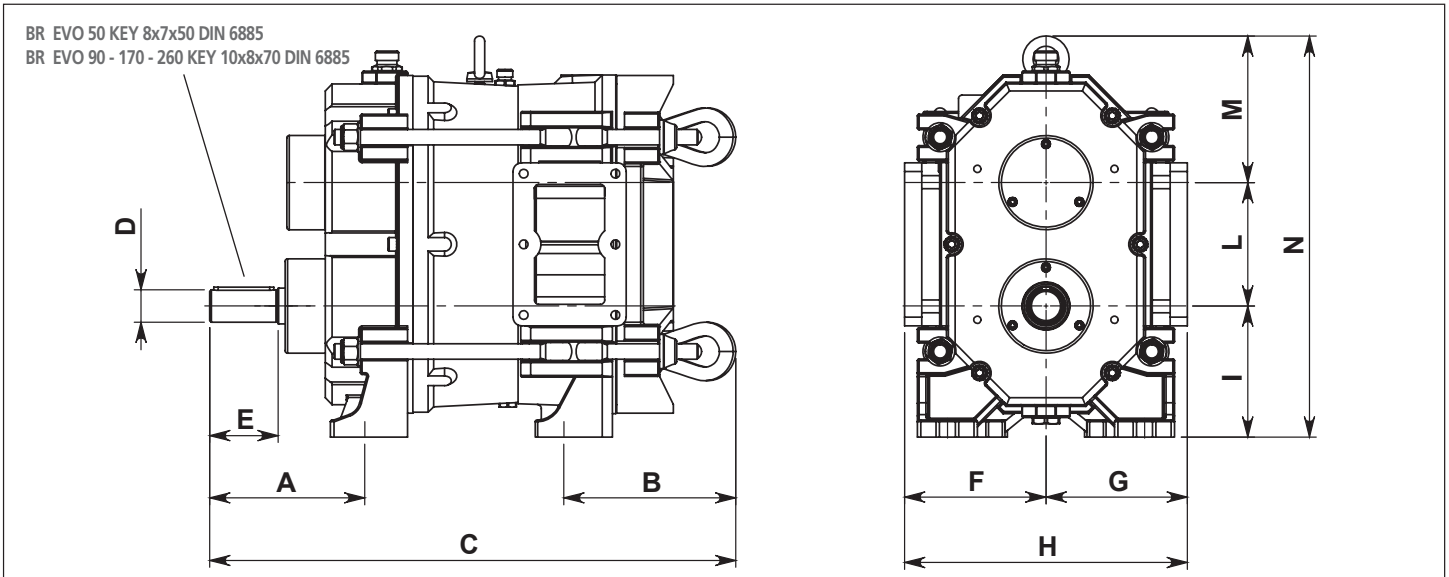
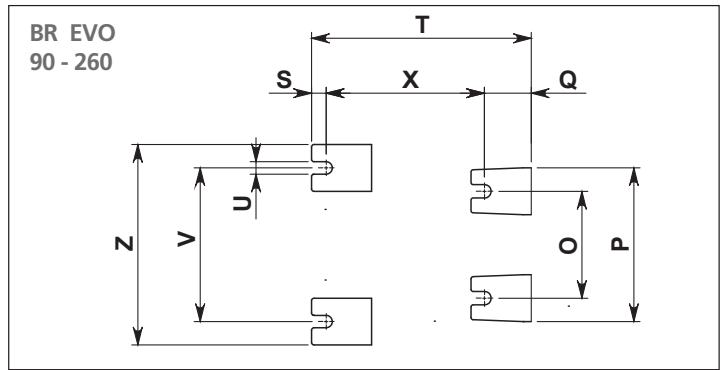
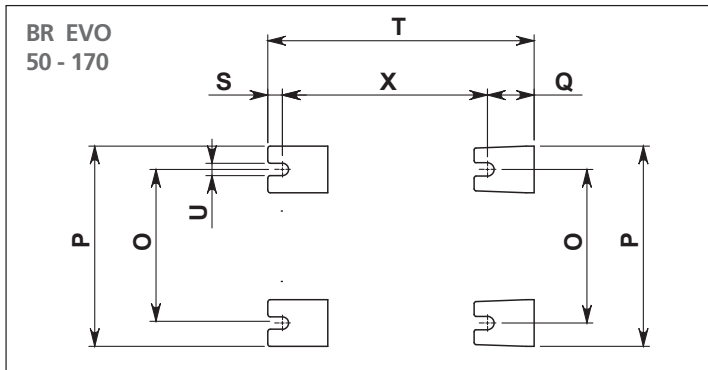
La versione / P è azionata tramite puleggia e cinghie, in particolare per applicazioni su camion.

La version / P est actionnée par poulies et courroies, en particulier pour application sur camion.

In der Version / P die Antriebswelle (Zapfwelle) wird über eine Riemenscheibe mit Riemen betrieben, besonders für Anwendungen auf Lkw.

La version / P ha sido concebida para ser accionada a través de polea, para aplicaciones sobre camión.

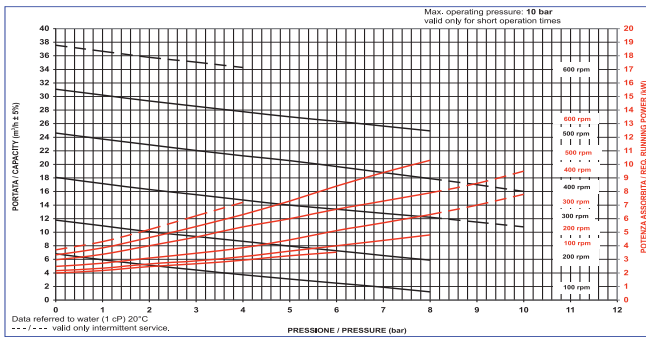
A versão / P é accionada por roldana e correias, especial para aplicações com camiões.



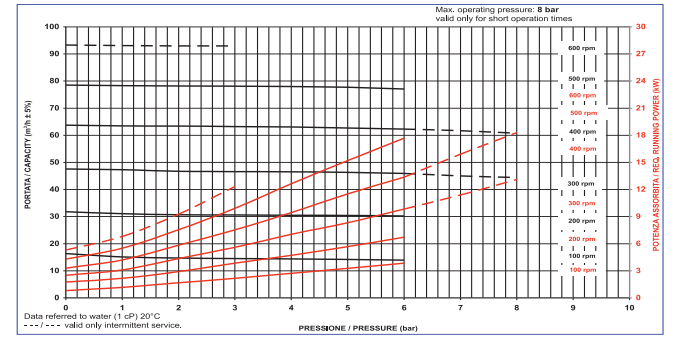
SIDE CONNECTION HOLES - SEE PAGE 29
FLANGIATURA LATERALE VEDI PAG. 29

Article	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	S	T	U	V	Z	X
BR EVO 50/P	146	183	507	28	60	187,5	187,5	375	120	99	130	349	170	225	50	21	249	18	-	-	178
BR EVO 90/P	163	214	614	38	80	165	165	330	153	144	171	468	160	230	70	22	329	19	230	300	237
BR EVO 170/P	163	214	684	38	80	150	150	300	153	144	171	468	230	300	70	22	399	19	-	-	307
BR EVO 260/P	160	217	676	38	80	189	189	378	174	176	195	545	190	260	61	20	381	20	305	370	300

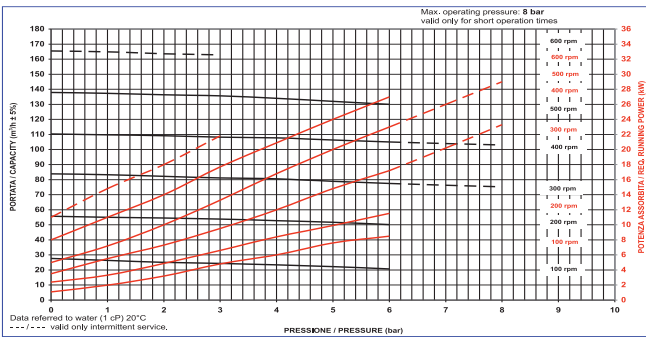
BR EVO 50 / P



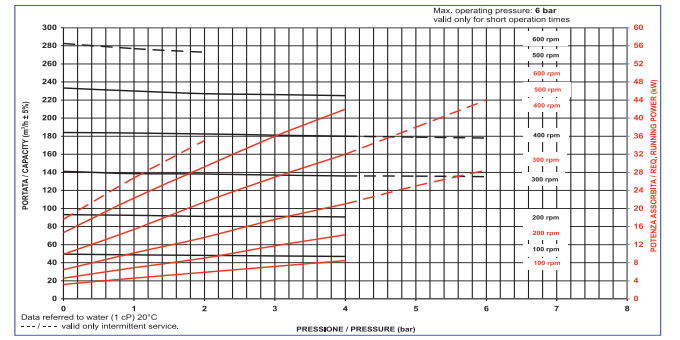
BR EVO 90 / P



BR EVO 170 / P



BR EVO 260 / P



DATI TECNICI (technical data / données techniques / technische Daten / Datos técnicos)		BR EVO 50/P	BR EVO 90/P	BR EVO 170/P	BR EVO 260/P	
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Velocità massima (max rpm / tours maximum / max drehzahl / rpm max)	**	[rpm]	600	600	600	600
Pressione max (Relativa) Max(relative) pressure / pression max (relative) / max (relativ) druck / presión max (relativa)	***	[bar]	10	8	8	6
Ass. potenza (power absorption / absorption puissance / leistungsbeoarf / potencia absorbida)		[kW]	11	19	29	44
Peso netto (net weight / poids net / netto-gewicht / peso neto)		[Kg]	80	150	165	214

* Indicative data. The actual capacity depends on pumped fluid and working conditions.
 **Max value valid for non-continuous working.
 ***Valid for short periods, only. For continuous work, please contact Technical Dept.
 Please note that lobes rotors life decreases at high pressures.

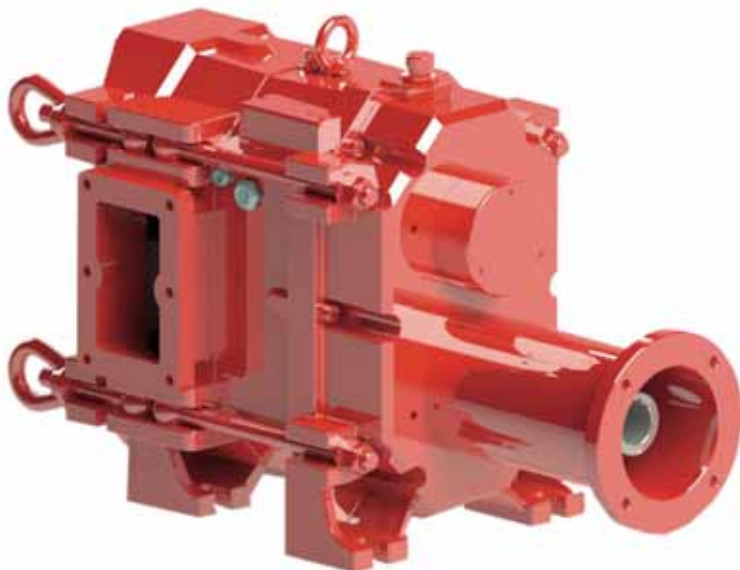
* **Valori teorici. La portata reale dipende dal fluido pompato e condizioni di utilizzo.**
 ** **Valore massimo valido solo per funzionamento intermittente.**
 *** **Valida solo per brevi periodi. Per funzionamento continuo prego contattare servizio tecnico.**
Si ricorda che la durata dei rotori a lobi si riduce alle alte pressioni.

BR EVO / H

50 - 90 - 170 - 260



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The version / H has been designed to be driven by hydraulic motor.

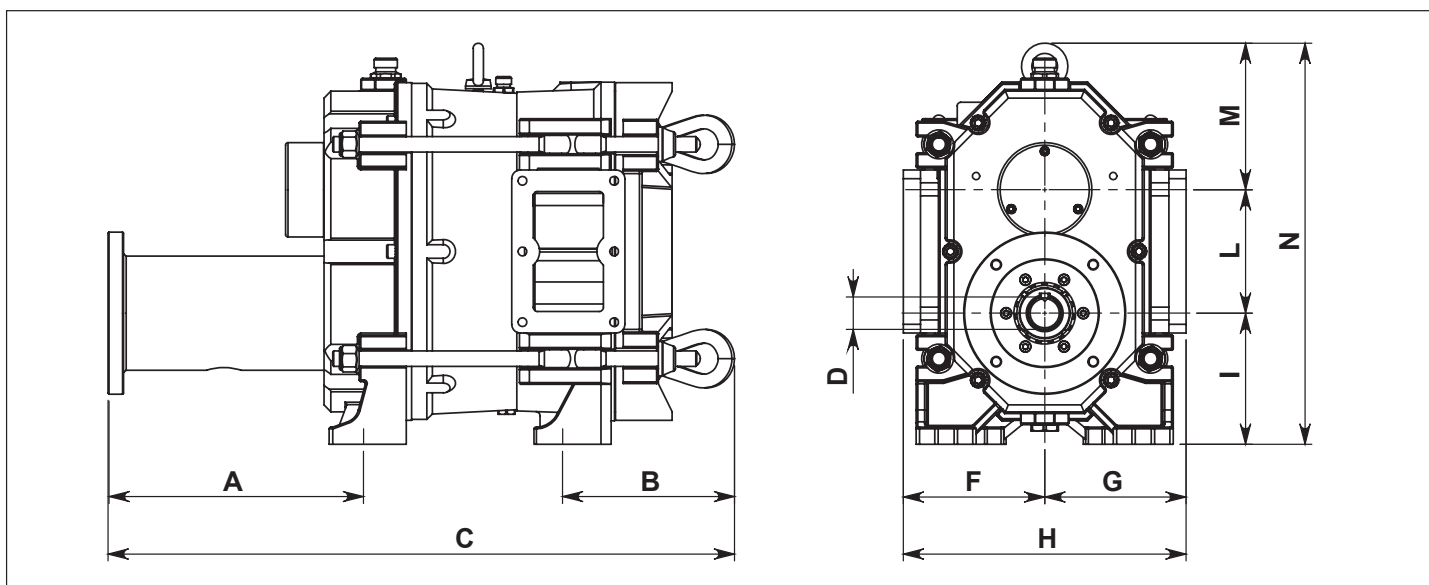
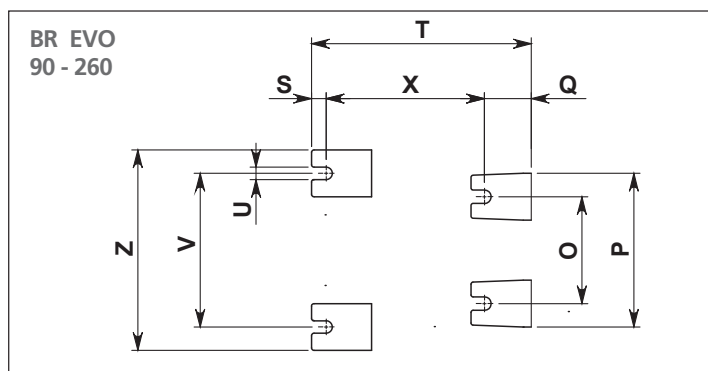
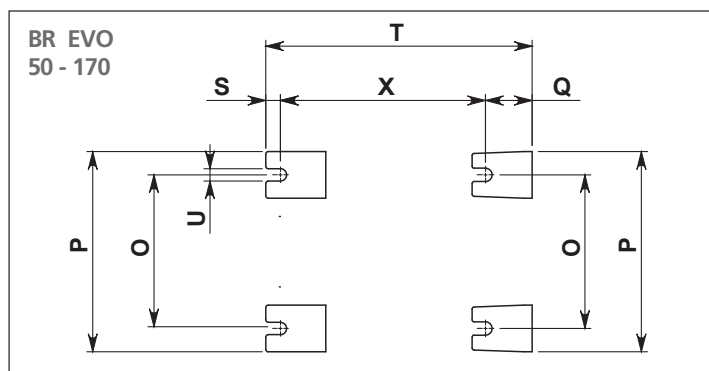
La versione / H è stata ideata per essere azionata tramite motore idraulico.

La version / H a été projetée pour être actionnée par un moteur hydraulique.

In der Version / H die Antriebswelle (Zapfwelle) wird über einen hydraulischen Zahnradmotor betrieben.

La version / H ha sido concebida para ser accionada a través de un motor hidráulico.

A versão / H foi projectada para funcionar com motor hidráulico.

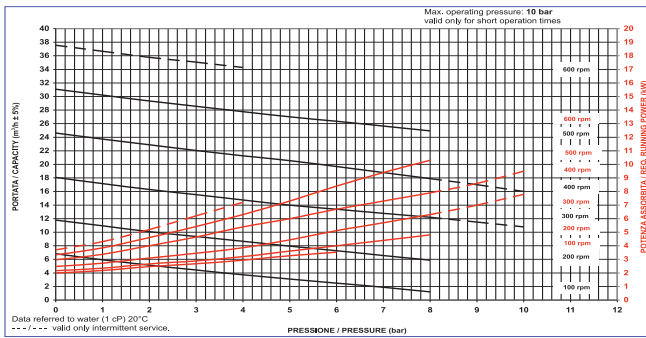


SIDE CONNECTION HOLES - SEE PAGE 29
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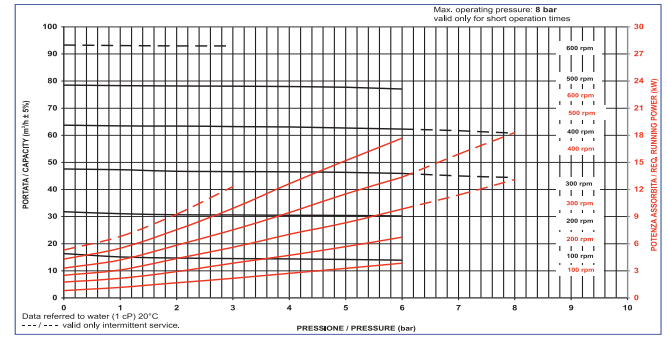
HYDRAULIC MOTOR CONNECTION - SEE PAGE 31
FLANGIATURA MOTORE IDRAULICO VEDI PAG. 31

Article	A	B	C	D	F	G	H	I	L	M	N	O	P	Q	S	T	U	V	Z	X
BR EVO 50/H	211	183	572	25	187,5	187,5	375	120	99	130	349	170	225	50	21	249	18	-	-	178
BR EVO 90/H	280	214	731	40	165	165	330	153	144	171	468	160	230	70	22	329	19	230	300	237
BR EVO 170/H	280	214	801	40	150	150	300	153	144	171	468	230	300	70	22	399	19	-	-	307
BR EVO 260/H	280	217	796	40	189	189	378	174	176	195	545	190	260	61	20	381	20	305	370	300

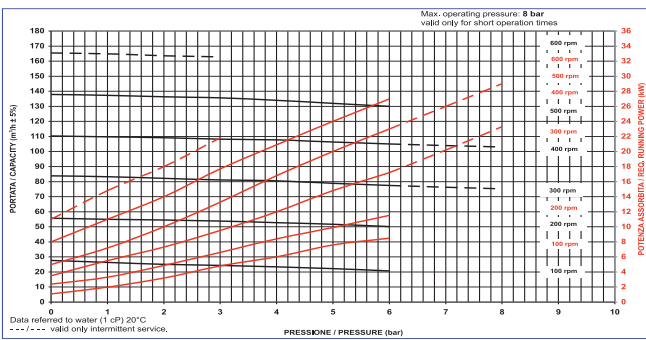
BR EVO 50 / H



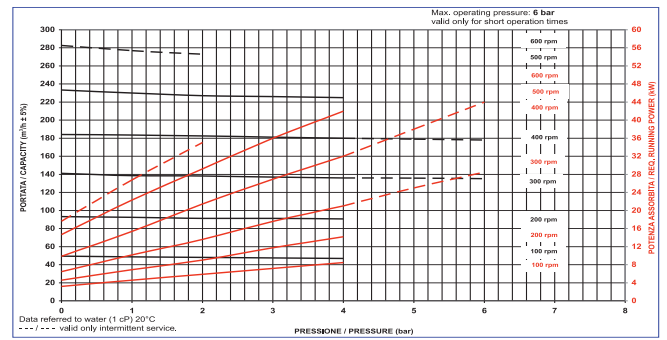
BR EVO 90 / H



BR EVO 170 / H

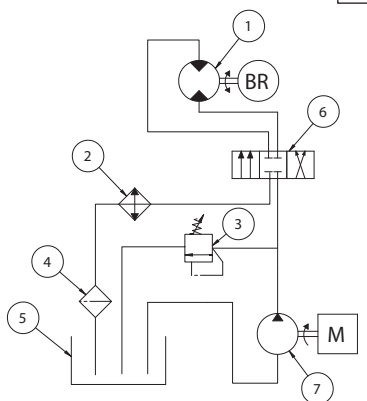


BR EVO 260 / H

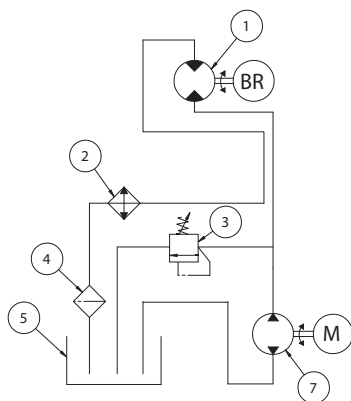


HYDRAULIC SYSTEM

UNIDIRECTIONAL MOTOR (M)



BIDIRECTIONAL MOTOR (M)



- | | | | |
|--|--|---|--|
| ① Motore Idraulico
Hydraulic motor
Moteur hydraulique
Hydraulic Motor
Motor hidráulico
Motor hidráulico | ③ Valvola di sovrappressione
Overpressure valve
Soupape de surpression
Überdruckventil
Válvula de sobrepresión
Válvula de sobrepresão | ⑤ Serbatoio
Tank
Reservoir
Behälter
Dépósito
Reservatório | ⑦ Pompa idraulica
Hydraulic pump
Pompe hydraulique
Hydraulische Pumpe
Bomba hidráulica
Bomba hidráulica |
| ② Radiatore
Radiator
Radiateur
Radiador
Radiador | ④ Filtro olio
Oil filter
Filtre de l'huile
Ölfilter
Filtro aceite
Filtro óleo | ⑥ Distributore
Distributor
Distributeur
Steuerventil
Distribuidor
Distribuidor | |

Code Codice	Displacement Cilindrata cc/rpm	BR EVO pump	Hydraulic System flow rate Portata impianto idraulico	R.P.M. Giri/min	Hydraulic System Pressure Pressione impianto idraulico	Hydraulic System Max Pressure Pressione Max impianto idraulico	Output Potenza Trasmessa	Torque Coppia	Article Articolo
5020400035	100	BR EVO 50/H	50 l/min	500	150 bar	175 bar	10,5 kW	220 Nm	2901/A
5020400036	200	BR EVO 90/H	100 l/min	500	120 bar	175 bar	17,5 kW	350 Nm	2901/B
5020400036	200	BR EVO 170/H	100 l/min	500	190 bar	175 bar	25 kW	540 Nm	2901/B
5020400037	315	BR EVO 260/H	125 l/min	370	165 bar	175 bar	29 kW	780 Nm	2901/C

DATI TECNICI (technical data / données techniques / technische Daten / Datos técnicos)		BR EVO 50/H	BR EVO 90/H	BR EVO 170/H	BR EVO 260/H	
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[l / min]	633	1567	2767	4718
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[m³ / h]	38	94	166	283
Velocità massima (max rpm / tours maximum / max drehzahl / rpm max)	**	[rpm]	600	600	600	600
Pressione max (Relativa) Max(relative) pressure / pression max (relative) / max (relativ) druck / presión max (relativa)	***	[bar]	10	8	8	6
Ass. potenza (power absorption / absorption puissance / leistungsbeoarf / potencia absorbida)		[kW]	11	19	29	44
Peso netto (net weight / poids net / netto-gewicht / peso neto)		[Kg]	85	156	171	220

* Indicative data. The actual capacity depends on pumped fluid and working conditions.
 **Max value valid for non-continuous working.
 ***Valid for short periods, only. For continuous work, please contact Technical Dept.
 Please note that lobes rotors life decreases at high pressures.

* Valori teorici. La portata reale dipende dal fluido pompato e condizioni di utilizzo.
 ** Valore massimo valido solo per funzionamento intermittente.
 *** Valida solo per brevi periodi. Per funzionamento continuo prego contattare servizio tecnico.
 Si ricorda che la durata dei rotori a lobi si riduce alle alte pressioni.

BR / D

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



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The version / D has been designed to be driven by cardan shaft at 540 rpm.

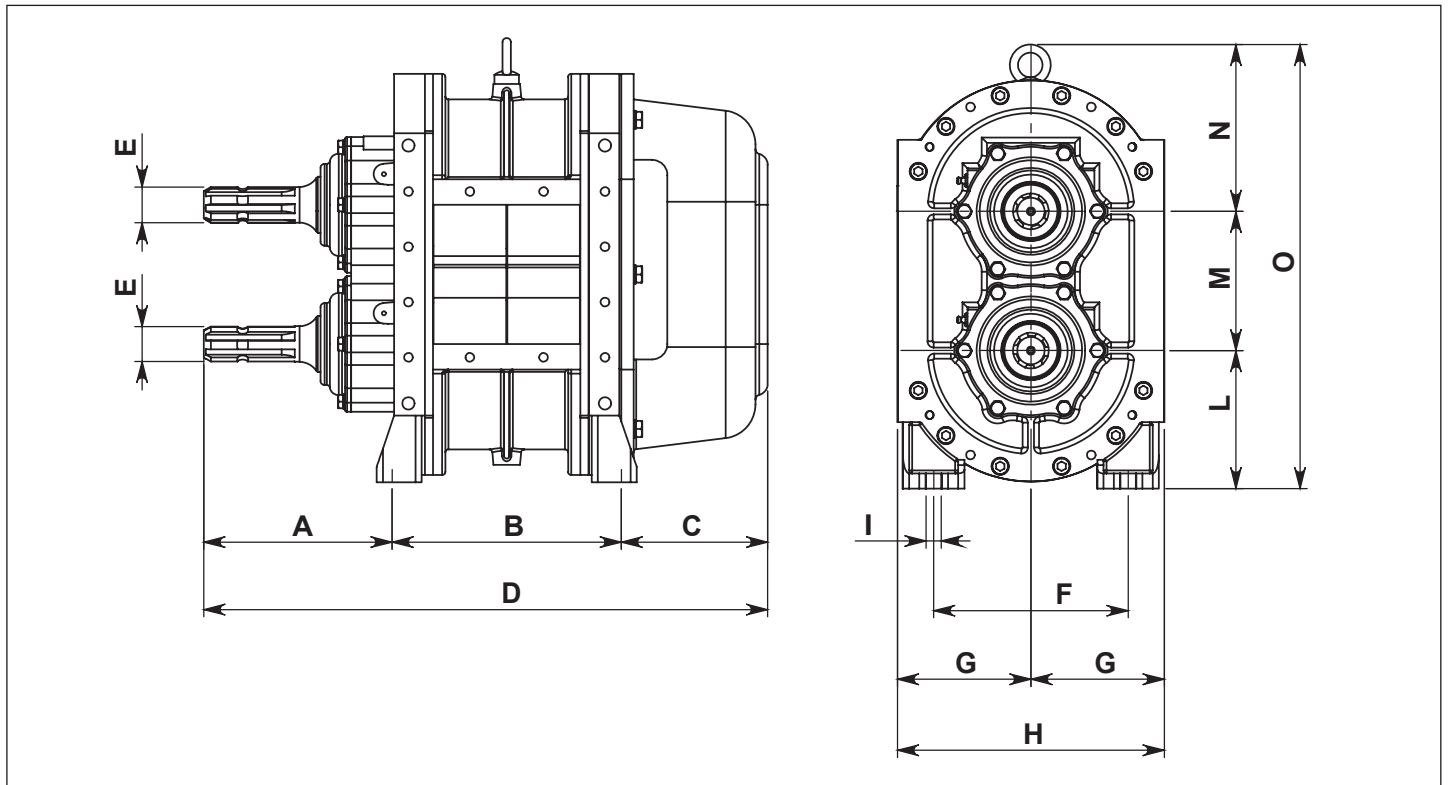
La versione / D è stata ideata per essere azionata tramite albero cardanico a 540 rpm.

La version / D a été projetée pour être actionnée par un arbre à cardan 540 tpm.

In der Version / D die Antriebswelle (Zapfwelle) wird über eine Kardanwelle zu 540 upm. betrieben.

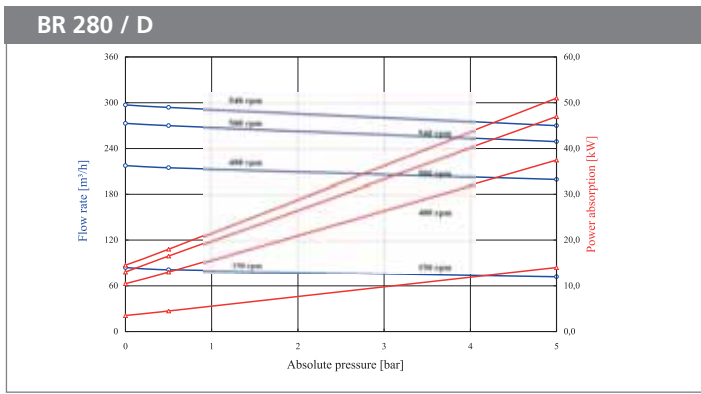
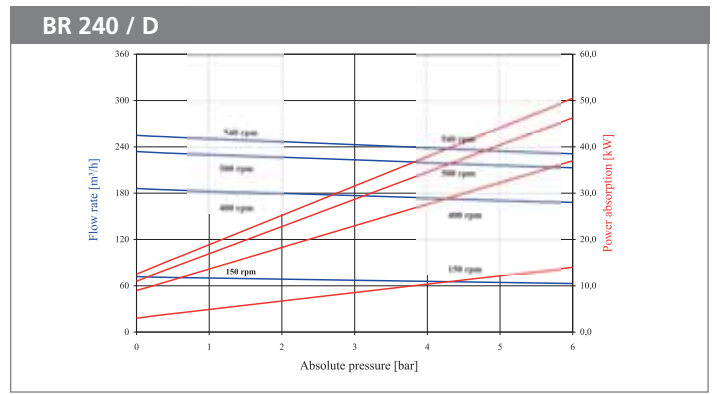
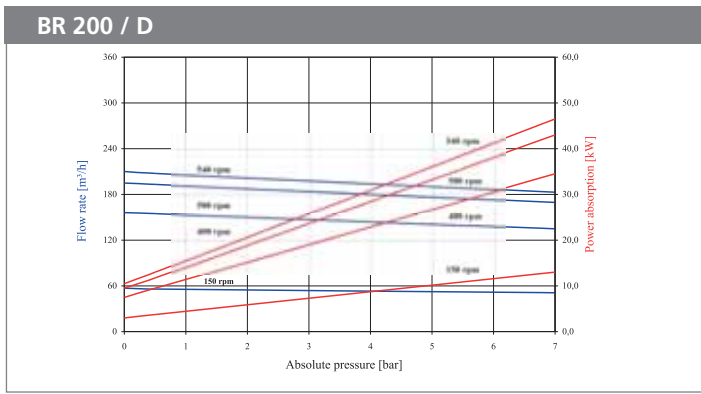
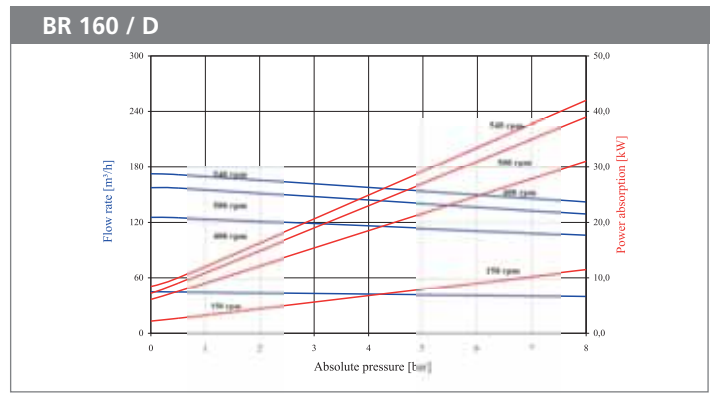
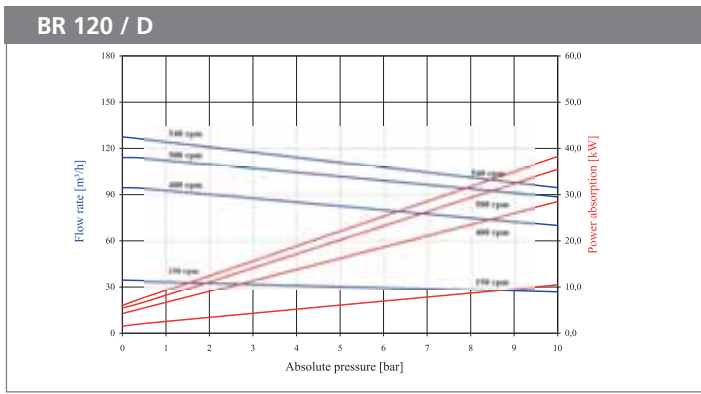
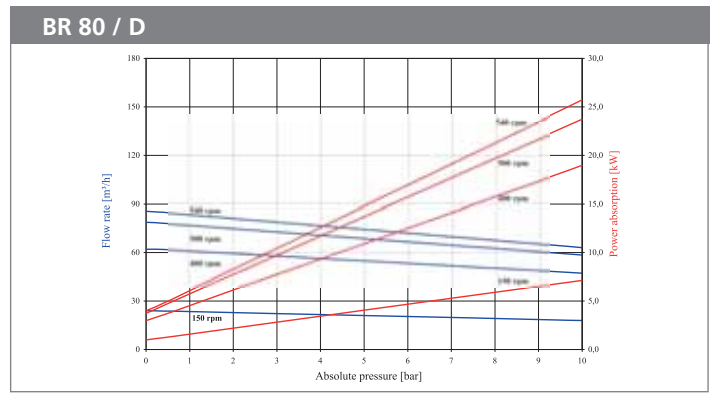
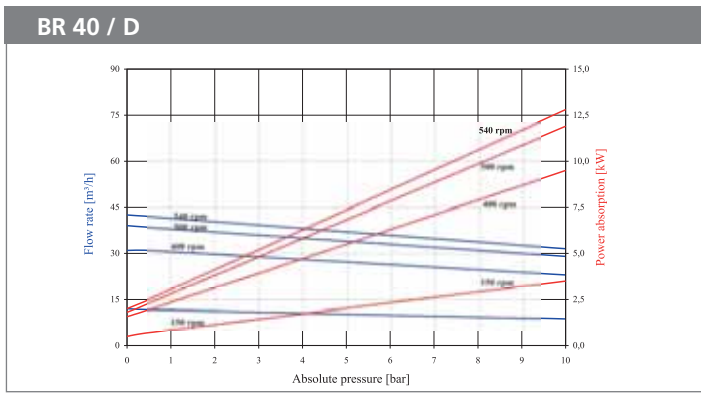
La version / D ha sido concebida para ser accionada a través una transmisión cardan a 540 rpm

A versão / D foi projectada para funcionar com eixo de cardan a 540 rpm.



SIDE CONNECTION HOLES - SEE PAGE 29/30
FLANGIATURA LATERALE VEDI PAG. 29/30

Article	A	B	C	D	E	F	G	H	I	L	M	N	O
BR 40/D	176	152	141	469	1"3/8	190	130	260	15	128	136	165	429
BR 80/D	176	224	141	541	1"3/8	190	130	260	15	128	136	165	429
BR 120/D	176	296	141	613	1"3/8	190	130	260	15	128	136	165	429
BR 160/D	176	378	141	695	1"3/8	190	130	260	15	128	136	165	429
BR 200/D	176	450	141	767	1"3/4	190	130	260	15	128	136	165	429
BR 240/D	176	522	141	839	1"3/4	190	130	260	15	128	136	165	429
BR 280/D	176	594	141	911	1"3/4	190	130	260	15	128	136	165	429



DATI TECNICI (technical data / données techniques / technische Daten / Datos técnicos)		BR / D 40	BR / D 80	BR / D 120	BR / D 160	BR / D 200	BR / D 240	BR / D 280	
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[l / min]	710	1425	2125	2875	3500	4250	4950
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[m³ / h]	42	85	127	172	210	255	297
Velocità massima (max rpm / tours maximum / max drehzahl / rpm max)	**	[rpm]	540	540	540	540	540	540	540
Pressione max (Relativa) (Max(relative) pressure / pression max (relative) / max (relativ) druck / presión max (relativa)	***	[bar]	10	10	10	8	7	6	5
Ass. potenza (power absorption / absorption puissance / leistungsbeoarf / potencia absorbida)		[kW]	13	27	39	43	48	50	52
Peso netto (net weight / poids net / netto-gewicht / peso neto)		[Kg]	103	121	139	163	182	198	218

* Indicative data. The actual capacity depends on pumped fluid and working conditions.
 **Max value valid for non-continuous working.
 ***Valid for short periods, only. For continuous work, please contact Technical Dept.
 Please note that lobes rotors life decreases at high pressures.

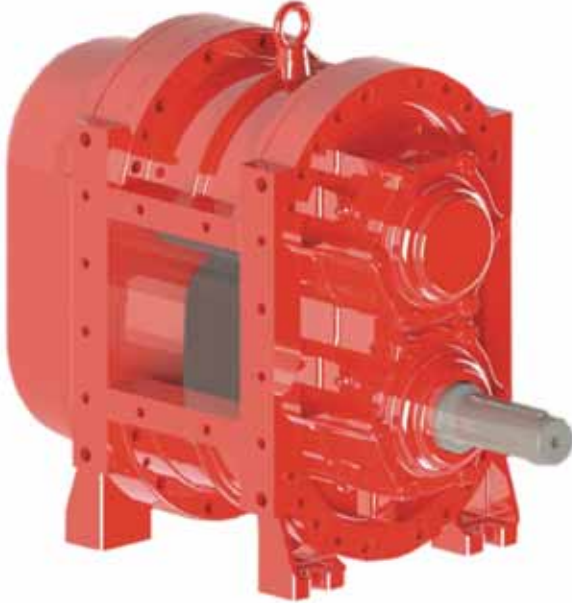
* Valori teorici. La portata reale dipende dal fluido pompato e condizioni di utilizzo.
 ** Valore massimo valido solo per funzionamento intermittente.
 *** Valida solo per brevi periodi. Per funzionamento continuo prego contattare servizio tecnico.
 Si ricorda che la durata dei rotori a lobi si riduce alle alte pressioni.

BR / P

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



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The version / P is driven by pulleys and belts, particularly for truck application.

La versione / P è azionata tramite puleggia e cinghie, in particolare per applicazioni su camion.

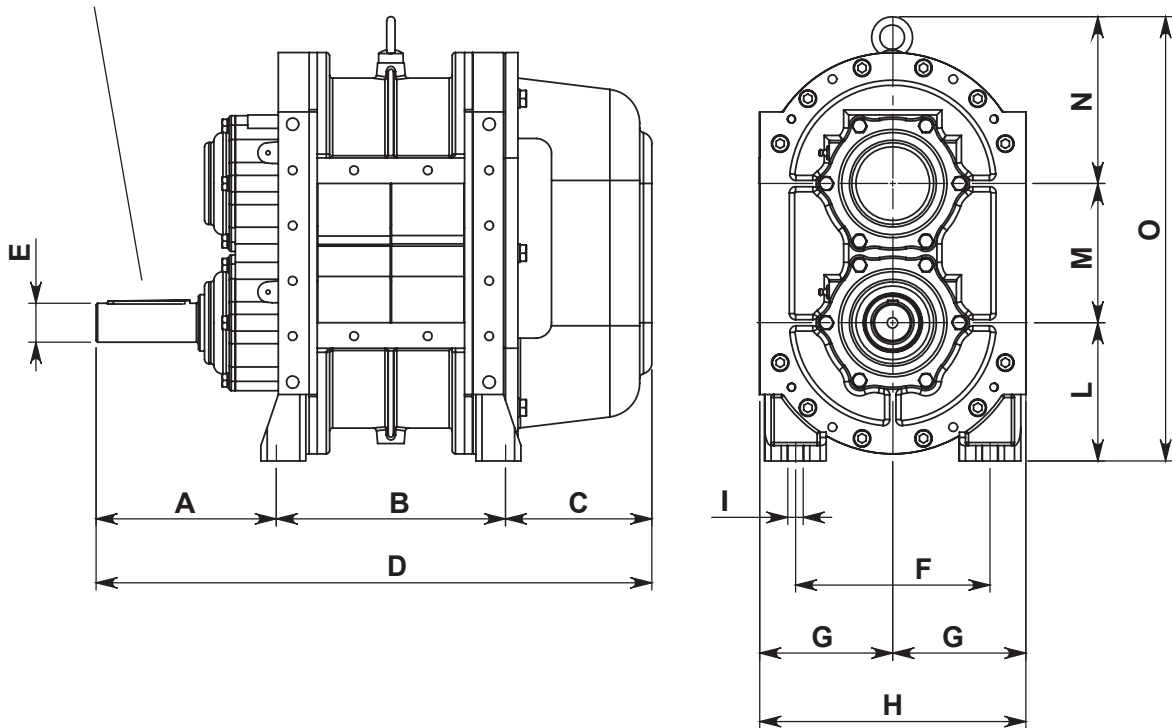
La version / P est actionnée par poulies et courroies, en particulier pour application sur camion.

In der Version / P die Antriebswelle (Zapfwelle) wird über eine Riemenscheibe mit Riemen betrieben, besonders für Anwendungen auf Lkw.

La version / P ha sido concebida para ser accionada a través de polea, para aplicaciones sobre camión.

A versão / P é accionada por roldana e correias, especial para aplicações com camiões.

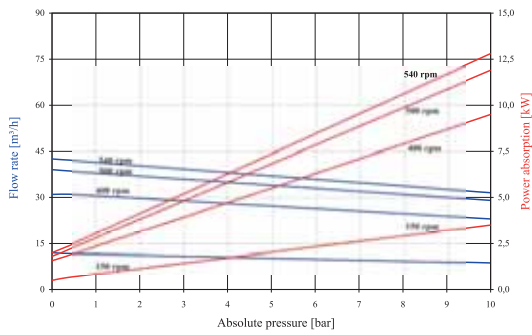
BR 40 - 80 - 120 - 160 KEY 12x8x80 DIN 6885
BR 200 - 240 - 280 KEY 12x8x110 DIN 6885



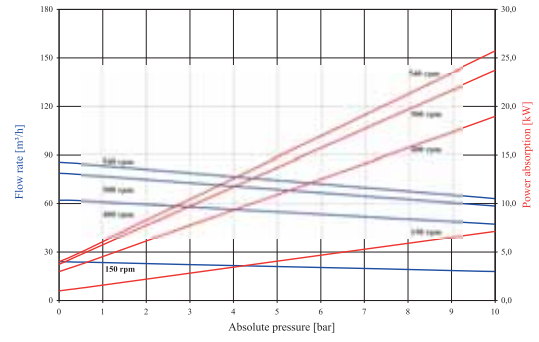
SIDE CONNECTION HOLES - SEE PAGE 29/30
FLANGIATURA LATERALE VEDI PAG. 29/30

Article	A	B	C	D	E	F	G	H	I	L	M	N	O
BR 40/P	176	152	141	469	38	190	130	260	15	128	136	165	429
BR 80/P	176	224	141	541	38	190	130	260	15	128	136	165	429
BR 120/P	176	296	141	613	38	190	130	260	15	128	136	165	429
BR 160/P	176	378	141	695	38	190	130	260	15	128	136	165	429
BR 200/P	196	450	141	787	48	190	130	260	15	128	136	165	429
BR 240/P	196	522	141	859	48	190	130	260	15	128	136	165	429
BR 280/P	196	594	141	931	48	190	130	260	15	128	136	165	429

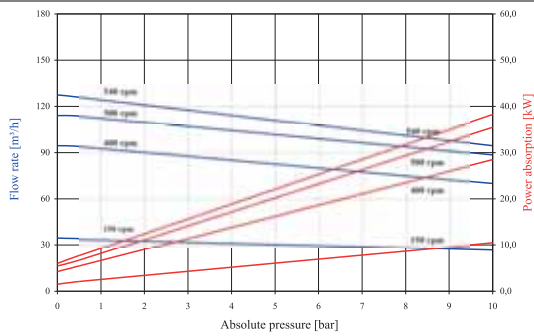
BR 40 / P



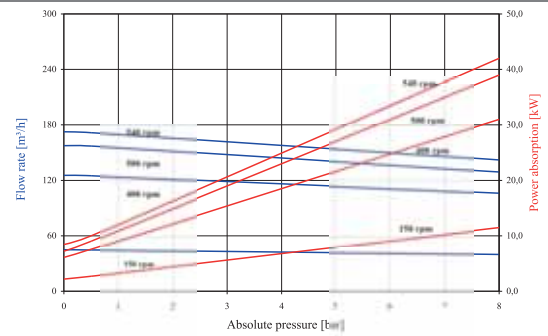
BR 80 / P



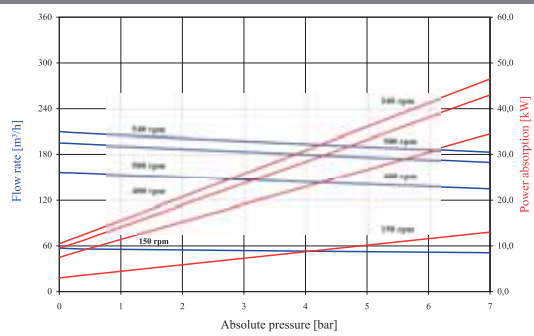
BR 120 / P



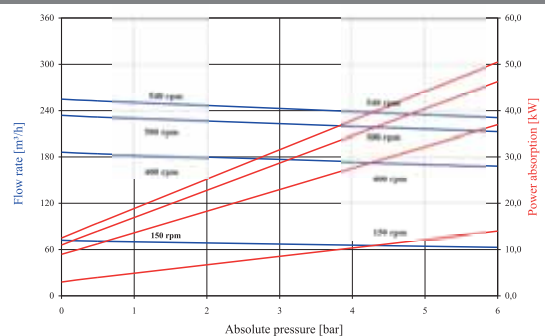
BR 160 / P



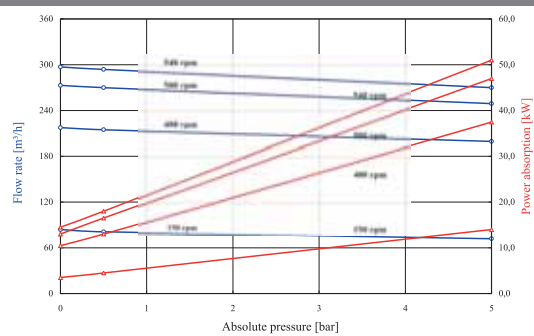
BR 200 / P



BR 240 / P



BR 280 / P



DATI TECNICI (technical data / données techniques / technische Daten / Datos técnicos)

		BR / P 40	BR / P 80	BR / P 120	BR / P 160	BR / P 200	BR / P 240	BR / P 280	
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[l / min]	710	1425	2125	2875	3500	4250	4950
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[m³ / h]	42	85	127	172	210	255	297
Velocità massima (max rpm / tours maximum / max drehzahl / rpm max)	**	[rpm]	540	540	540	540	540	540	540
Pressione max (Relativa) Max(relative) pressure / pression max (relative) / max (relativ) druck / presión max (relativa)	***	[bar]	10	10	10	8	7	6	5
Ass. potenza (power absorption / absorption puissance / leistungsbeoarf / potencia absorbida)		[kW]	13	27	39	43	48	50	52
Peso netto (net weight / poids net / netto-gewicht / peso neto)		[Kg]	101	119	137	161	181	197	217

* Indicative data. The actual capacity depends on pumped fluid and working conditions.
 **Max value valid for non-continuous working.
 ***Valid for short periods, only. For continuous work, please contact Technical Dept.
 Please note that lobes rotors life decreases at high pressures.

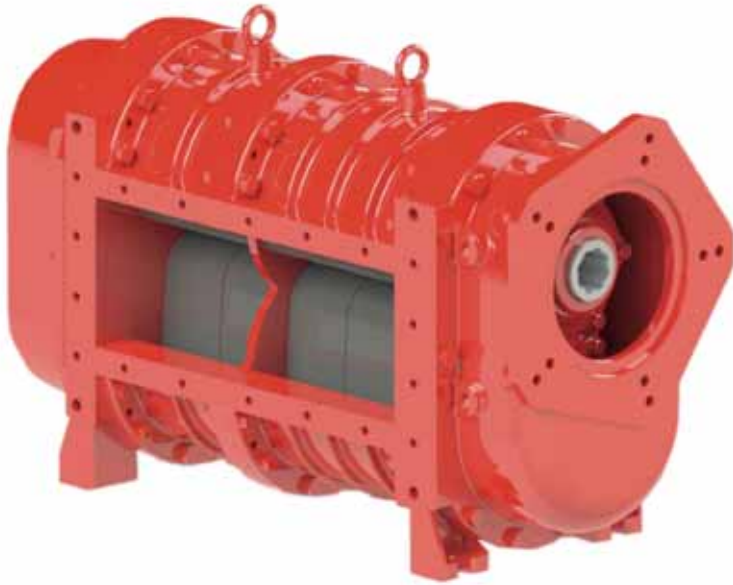
* Valori teorici. La portata reale dipende dal fluido pompato e condizioni di utilizzo.
 ** Valore massimo valido solo per funzionamento intermittente.
 *** Valida solo per brevi periodi. Per funzionamento continuo prego contattare servizio tecnico.
 Si ricorda che la durata dei rotori a lobi si riduce alle alte pressioni.

BR / H

200 - 240 - 280



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The version / H has been designed to be driven by hydraulic motor.

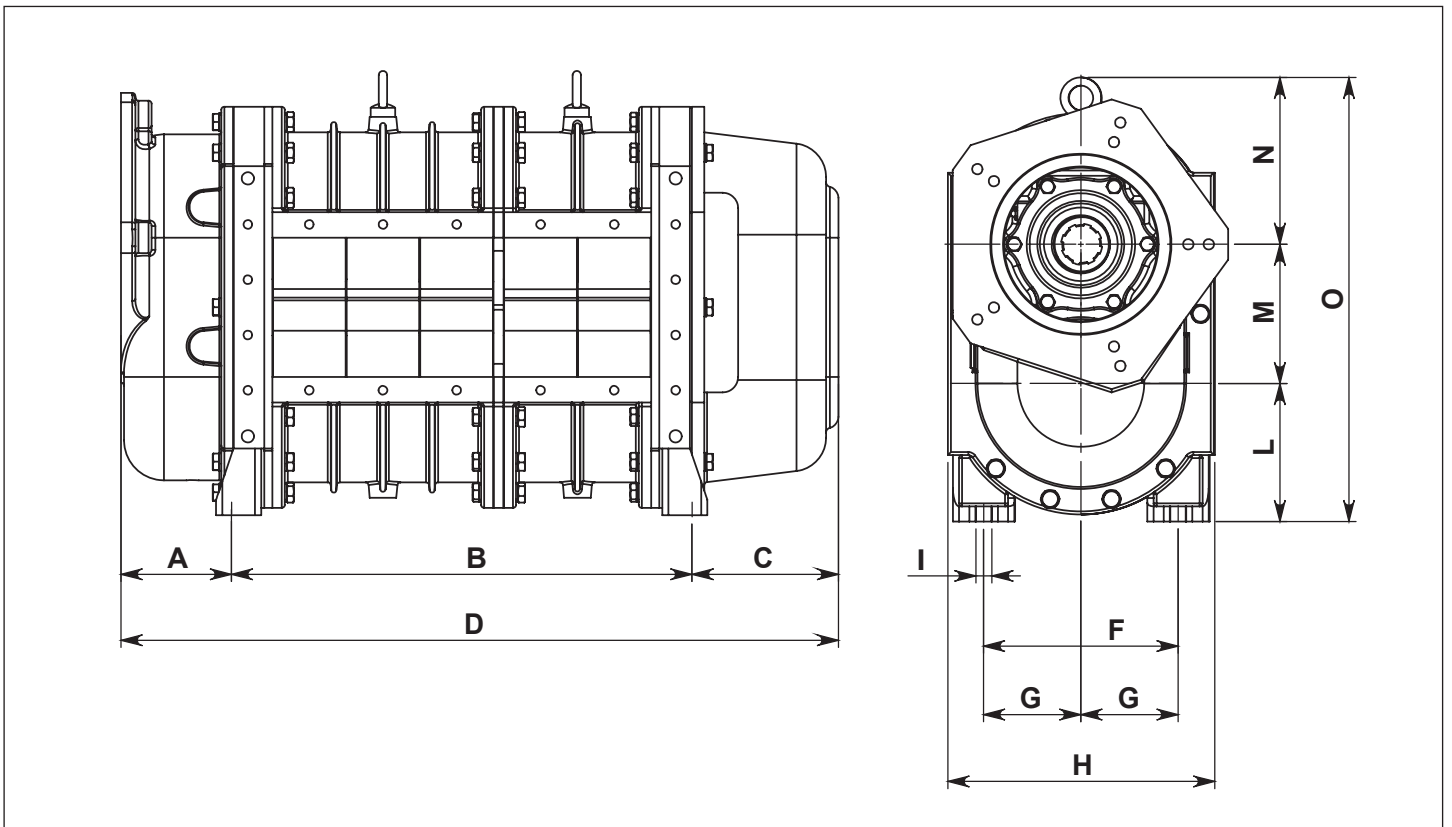
La versione / H è stata ideata per essere azionata tramite motore idraulico.

La version / H a été projetée pour être actionnée par un moteur hydraulique.

In der Version / H die Antriebswelle (Zapfwelle) wird über einen hydraulischen Zahnradmotor betrieben.

La version / H ha sido concebida para ser accionada a través de un motor hidráulico.

A versão / H foi projectada para funcionar com motor hidráulico.

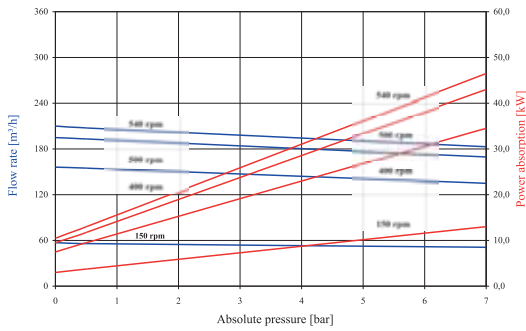


SIDE CONNECTION HOLES - SEE PAGE 30
FLANGIATURA LATERALE VEDI PAG. 30

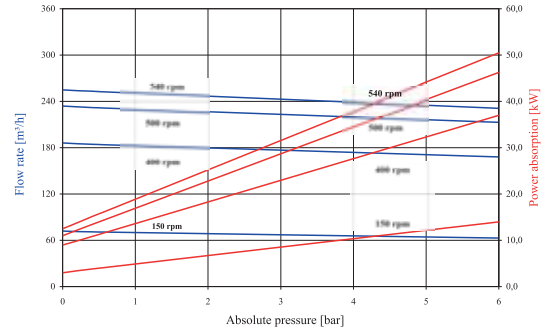
HYDRAULIC MOTOR CONNECTION - SEE PAGE 31
FLANGIATURA MOTORE IDRAULICO VEDI PAG. 31

Article	A	B	C	D	F	G	H	I	L	M	N	O
BR 200/H	108	450	141	699	190	130	260	15	128	136	165	429
BR 240/H	108	522	141	771	190	130	260	15	128	136	165	429
BR 280/H	108	594	141	843	190	130	260	15	128	136	165	429

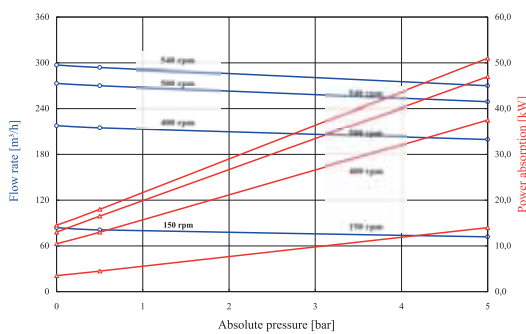
BR 200 / H



BR 240 / H



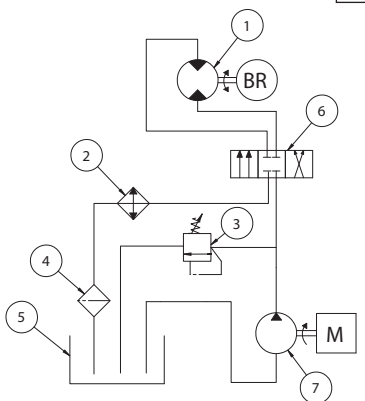
BR 280 / H



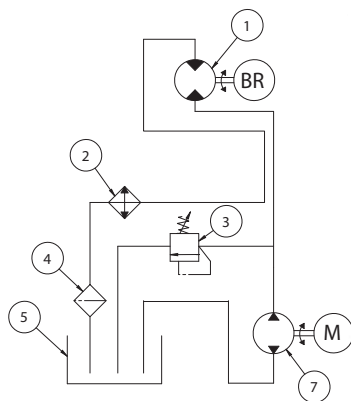
Code 5020400018: BR 200 - 240 - 280

HYDRAULIC SYSTEM

UNIDIRECTIONAL MOTOR (M)



BIDIRECTIONAL MOTOR (M)



- | | | | |
|--|--|---|--|
| ① Motore Idraulico
Hydraulic motor
Moteur hydraulique
Hydraulic Motor
Motor hidráulico
Motor hidráulico | ③ Valvola di sovrappressione
Overpressure valve
Soupape de surpression
Überdruckventil
Válvula de sobrepresión
Válvula de sobrepresão | ⑤ Serbatoio
Tank
Reservoir
Behälter
Depósito
Reservatório | ⑦ Pompa idraulica
Hydraulic pump
Pompe hydraulique
Hydraulische Pumpe
Bomba hidráulica
Bomba hidráulica |
| ② Radiatore
Radiator
Radiateur
Radiator
Radiador | ④ Filtro olio
Oil filter
Filtre de l'huile
Ölfilter
Filtro aceite
Filtro óleo | ⑥ Distributore
Distributor
Distributeur
Steuerventil
Distribuidor
Distribuidor | |

Code Codice	Hydraulic Engine Motore Idraulico	BR pump	Hydraulic System flow rate Portata impianto idraulico	R.P.M. Giri/min	Hydraulic System Pressure Pressione impianto idraulico	Hydraulic System Max Pressure Pressione Max impianto idraulico	Output Potenza Trasmessa	Torque Coppia	Article Articolo
5020400018	GM2 300	BR 200/H	167,5 l/min	540	200 bar	250 bar	48 kW	852 Nm	2701/D
5020400018	GM2 300	BR 240/H	167,5 l/min	540	208 bar	250 bar	50 kW	885 Nm	2701/D
5020400018	GM2 300	BR 280/H	167,5 l/min	540	217 bar	250 bar	52 kW	923 Nm	2701/D

DATI TECNICI (technical data / données techniques / technische Daten / Datos técnicos)		BR / H 200	BR / H 240	BR / H 280	
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[l / min]	3500	4250	4950
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[m³ / h]	210	255	297
Velocità massima (max rpm / tours maximum / max drehzahl / rpm max)	**	[rpm]	540	540	540
Pressione max (Relativa) Max(relative) pressure / pression max (relative) / max (relativ) druck / presión max (relativa)	***	[bar]	7	6	5
Ass. potenza (power absorption / absorption puissance / leistungsbearf / potencia absorbida)		[kW]	48	50	52
Peso netto (net weight / poids net / netto-gewicht / peso neto)		[Kg]	185	201	221

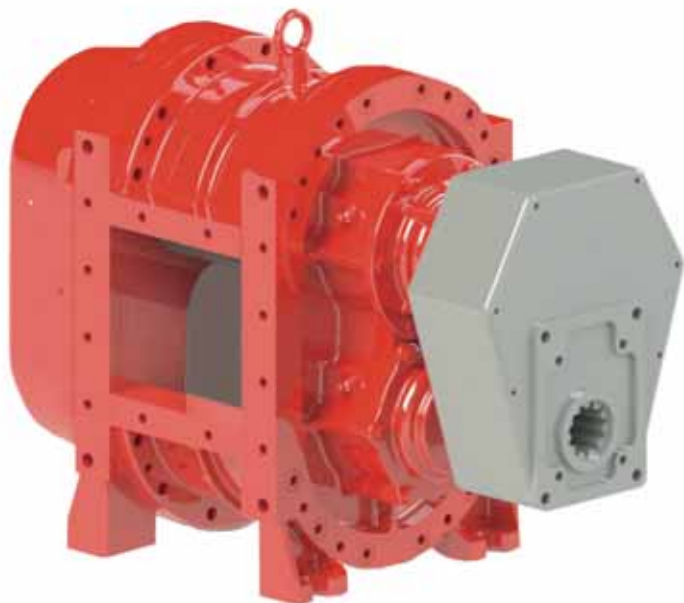
* Indicative data. The actual capacity depends on pumped fluid and working conditions. * Valori teorici. La portata reale dipende dal fluido pompato e condizioni di utilizzo.
 **Max value valid for non-continuous working. ** Valore massimo valido solo per funzionamento intermittente.
 ***Valid for short periods, only. For continuous work, please contact Technical Dept. *** Valida solo per brevi periodi. Per funzionamento continuo prego contattare servizio tecnico.
 Please note that lobes rotors life decreases at high pressures. Si ricorda che la durata dei rotori a lobi si riduce alle alte pressioni.

BR / HM

40 - 80 - 120 - 160



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The version / HM has been designed to be driven by hydraulic motor.

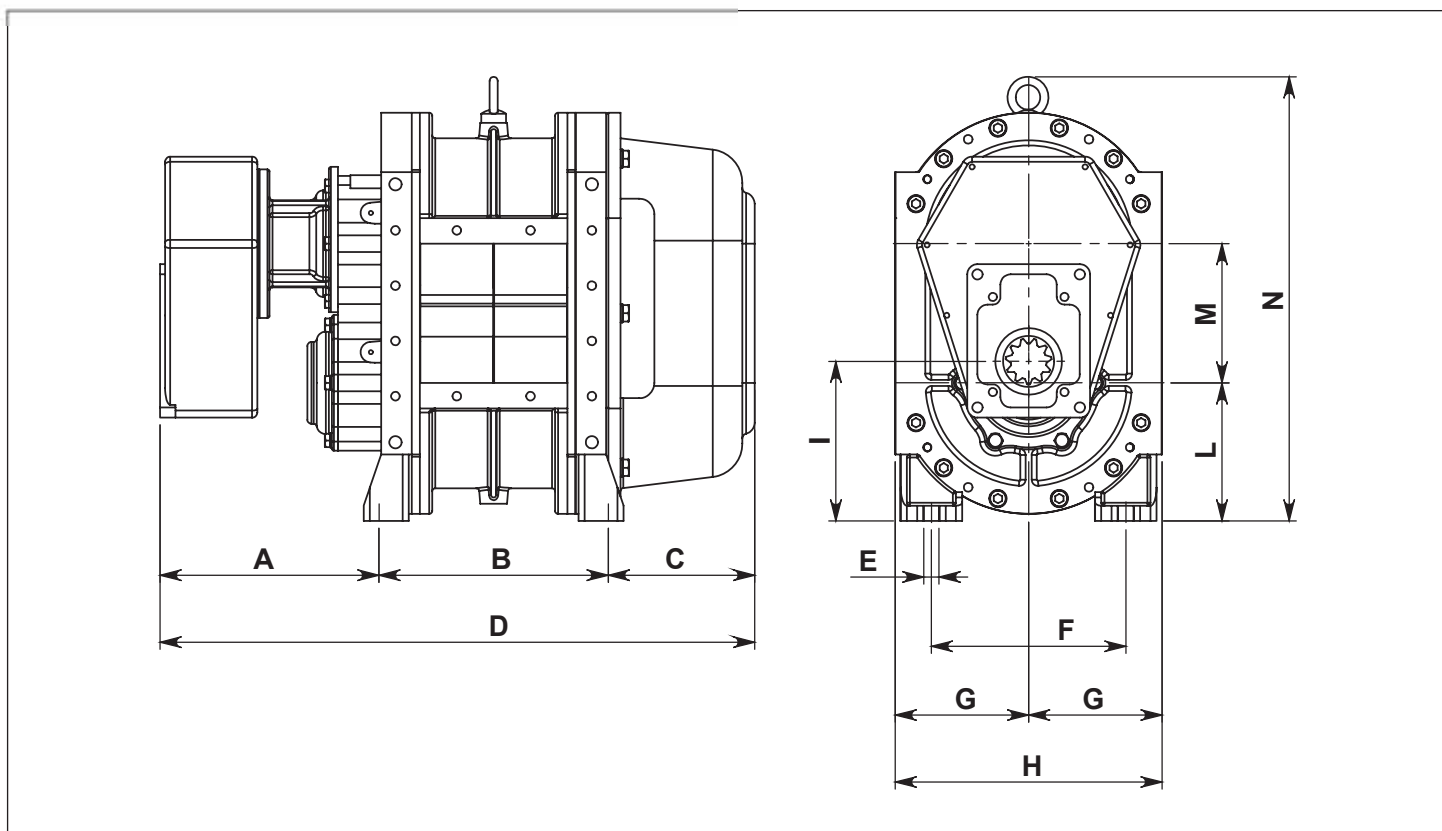
La versione / HM è stata ideata per essere azionata tramite motore idraulico.

La version / HM a été projetée pour être actionnée par un moteur hydraulique.

In der Version / HM die Antriebswelle (Zapfwelle) wird über einen hydraulischen Zahnradmotor betrieben.

La version / HM ha sido concebida para ser accionada a través de un motor hidráulico.

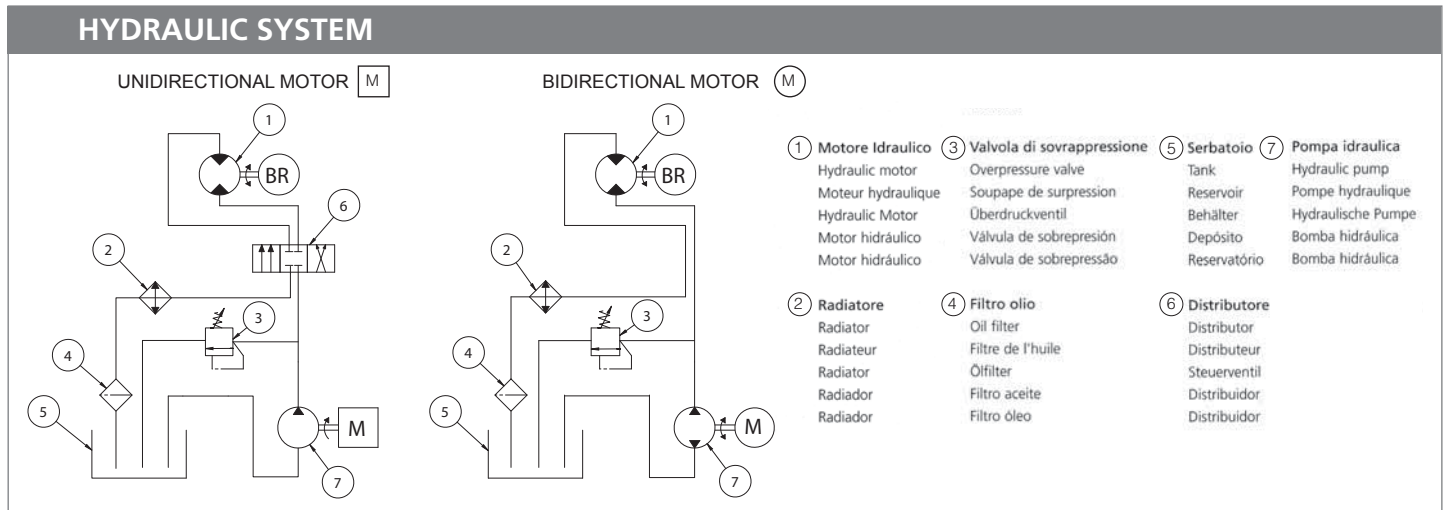
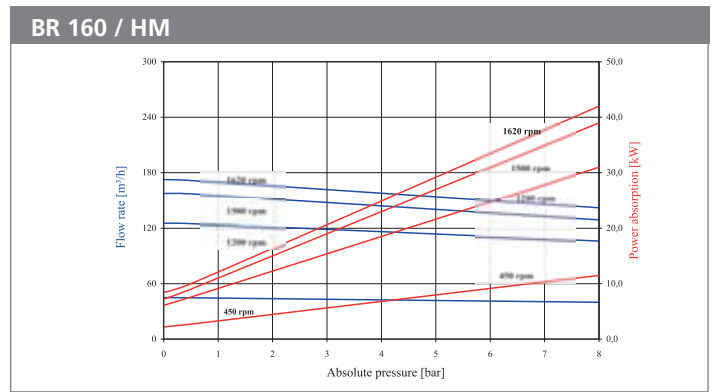
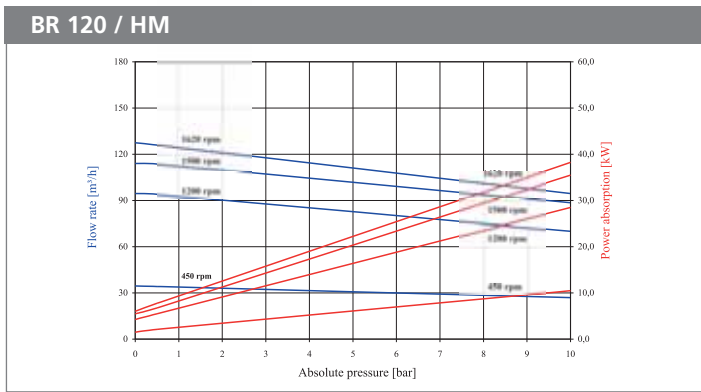
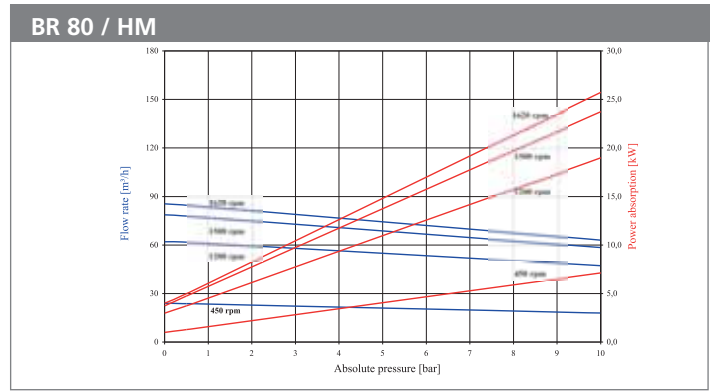
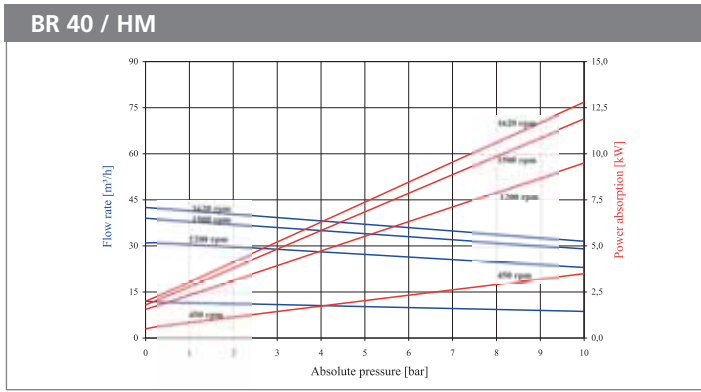
A versão / HM foi projectada para funcionar com motor hidráulico.



SIDE CONNECTION HOLES - SEE PAGE 29/30
FLANGIATURA LATERALE VEDI PAG. 29/30

HYDRAULIC MOTOR CONNECTION - SEE PAGE 31
FLANGIATURA MOTORE IDRAULICO VEDI PAG. 31

Article	A	B	C	D	E	F	G	H	I	L	M	N
BR 40/HM	220	152	141	513	15	190	130	260	155	128	136	400
BR 80/HM	220	224	141	585	15	190	130	260	155	128	136	400
BR 120/HM	220	296	141	657	15	190	130	260	155	128	136	400
BR 160/HM	220	378	141	739	15	190	130	260	155	128	136	400



Code Codice	Hydraulic Engine Motore Idraulico	BR pump	Hydraulic System flow rate Portata impianto idraulico	Hydraulic System Pressure Pressione impianto idraulico	Hydraulic System Max Pressure Pressione Max impianto idraulico	Output Potenza Trasmessa	Torque Coppia	Article Articolo
6080200141	KM 30.73-RO	BR 40/HM	123,3 l/min	124 bar	180 bar	13 kW	128 Nm	611/E
6080200141	KM 30.73-RO	BR 80/HM	123,3 l/min	159 bar	180 bar	27 kW	164 Nm	611/E
6080200141	KM 30.73-RO	BR 120/HM	123,3 l/min	147 bar	180 bar	25 kW	152 Nm	611/E
6080200141	KM 30.73-RO	BR 160/HM	123,3 l/min	169 bar	180 bar	29 kW	175 Nm	611/E

DATI TECNICI (technical data / données techniques / technische Daten / Datos técnicos)		BR / HM 40	BR / HM 80	BR / HM 120	BR / HM 160	
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[l / min]	710	1425	2125	2875
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[m³ / h]	42	85	127	172
Velocità massima (max rpm / tours maximum / max drehzahl / rpm max)	**	[rpm]	1620	1620	1620	1620
Rapporto riduttore (Gear ratio/Rapport de transmission/Getriebeübersetzung/relación de transmisión)		(ratio)	3:1	3:1	3:1	3:1
Pressione max (Relativa) Max(relative) pressure / pression max (relative) / max (relativ) druck / presión max (relativa)	***	[bar]	10	10	6	5
Ass. potenza (power absorption / absorption puissance / leistungsbeoarf / potencia absorbida)		[kW]	13	27	25	29
Peso netto (net weight / poids net / netto-gewicht / peso neto)		[Kg]	107	125	143	167

* Indicative data. The actual capacity depends on pumped fluid and working conditions.
 **Max value valid for non-continuous working.
 ***Valid for short periods, only. For continuous work, please contact Technical Dept.
 Please note that lobes rotors life decreases at high pressures.

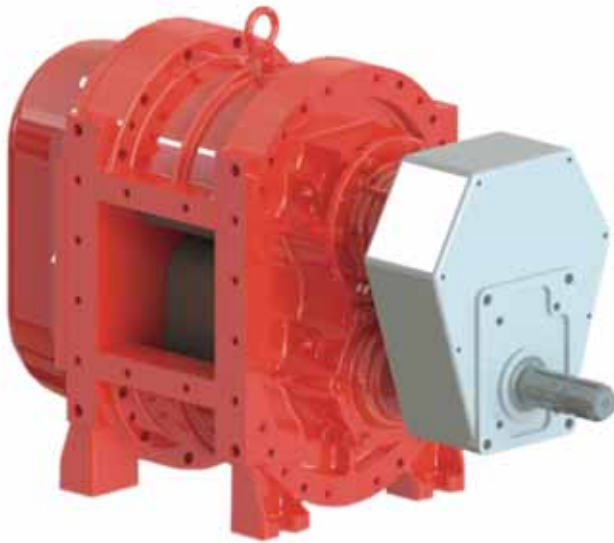
* Valori teorici. La portata reale dipende dal fluido pompato e condizioni di utilizzo.
 ** Valore massimo valido solo per funzionamento intermittente.
 *** Valida solo per brevi periodi. Per funzionamento continuo prego contattare servizio tecnico.
 Si ricorda che la durata dei rotori a lobi si riduce alle alte pressioni.

BR / EL

40 - 80 - 120 - 160



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The version / EL has been designed to be driven by electric motor.

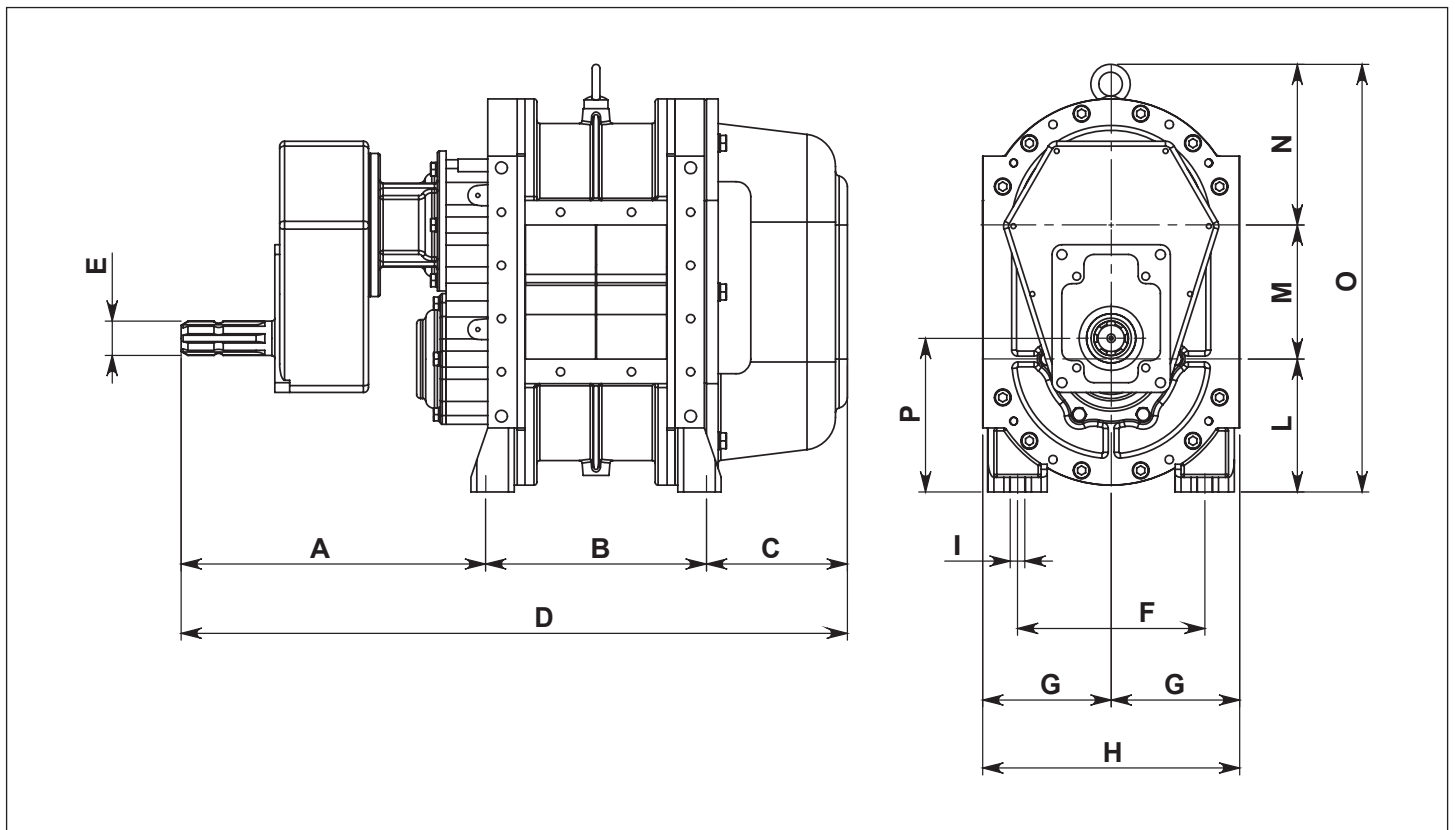
La versione / EL è stata ideata per essere azionata tramite motore elettrico.

La version / EL a été projetée pour être actionnée par un Moteur électrique.

In der Version / EL die Antriebswelle (Zapfwelle) wird über einen Elektromotor betrieben.

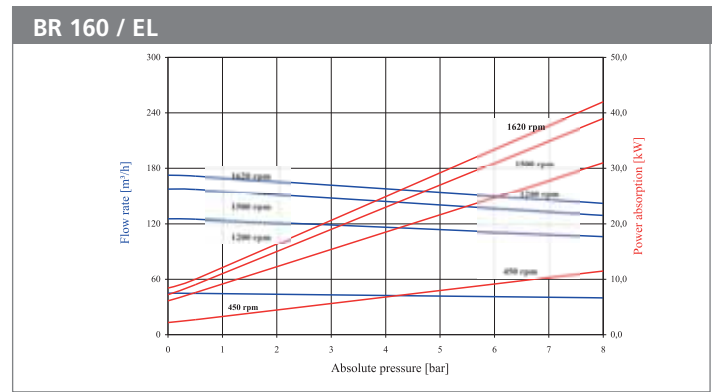
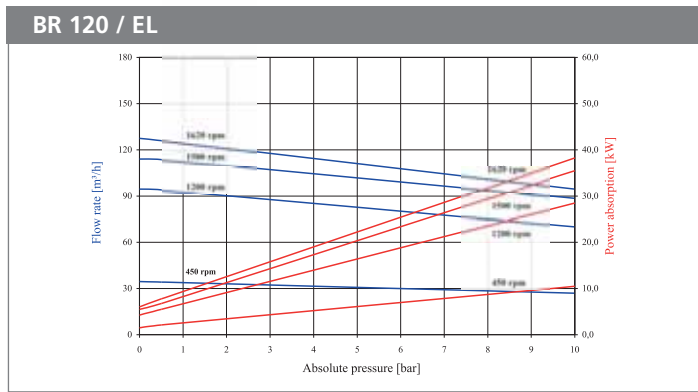
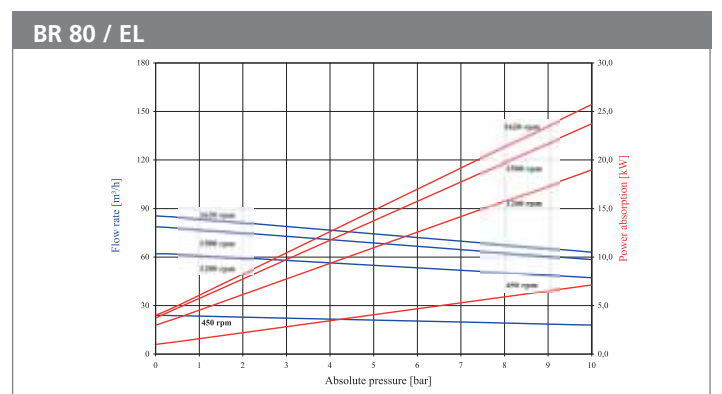
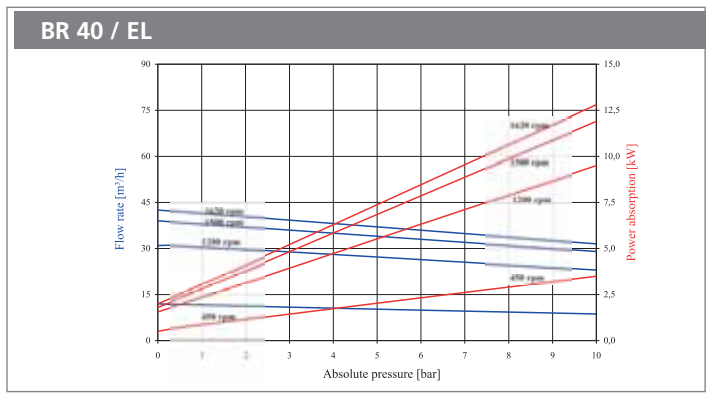
La version / EL ha sido concebida para ser accionada a través de un Motor eléctrico.

A versão / EL foi projectada para funcionar com motor eléctrico.



SIDE CONNECTION HOLES - SEE PAGE 29/30
FLANGIATURA LATERALE VEDI PAG. 29/30

Article	A	B	C	D	E	F	G	H	I	L	M	N	O	P
BR 40/EL	320	152	141	613	1" 3/8	190	130	260	15	128	136	165	429	155
BR 80/EL	320	224	141	685	1" 3/8	190	130	260	15	128	136	165	429	155
BR 120/EL	320	296	141	757	1" 3/8	190	130	260	15	128	136	165	429	155
BR 160/EL	320	378	141	839	1" 3/8	190	130	260	15	128	136	165	429	155



DATI TECNICI (technical data / données techniques / technische Daten / Datos técnicos)		BR / EL 40	BR / EL 80	BR / EL 120	BR / EL 160	
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[l / min]	710	1425	2125	2875
Portata geometrica (Geometrical capacity / Débit géométrique / Geometrisch leistung / Caudal geométrico / Capacidade geométrico)	*	[m³ / h]	42	85	127	172
Velocità massima (max rpm / tours maximum / max drehzahl / rpm max)	**	[rpm]	1620	1620	1620	1620
Rapporto riduttore (Gear ratio/Rapport de transmission/Getriebeübersetzung/relación de transmisión)		(ratio)	3:1	3:1	3:1	3:1
Pressione max (Relativa) Max(relative) pressure / pression max (relative) / max (relativ) druck / presión max (relativa)	***	[bar]	10	10	6	5
Ass. potenza (power absorption / absorption puissance / leistungsbeoarf / potencia absorbida)		[kW]	13	27	25	29
Peso netto (net weight / poids net / netto-gewicht / peso neto)		[Kg]	107	125	143	167

* Indicative data. The actual capacity depends on pumped fluid and working conditions.

**Max value valid for non-continuous working.

***Valid for short periods, only. For continuous work, please contact Technical Dept.
Please note that lobes rotors life decreases at high pressures.

* Valori teorici. La portata reale dipende dal fluido pompato e condizioni di utilizzo.

** Valore massimo valido solo per funzionamento intermittente.

*** Valida solo per brevi periodi. Per funzionamento continuo prego contattare servizio tecnico.
Si ricorda che la durata dei rotori a lobi si riduce alle alte pressioni.

Engine driven system

Gruppi motorizzati

BR EVO 50 - 90 -170 -260

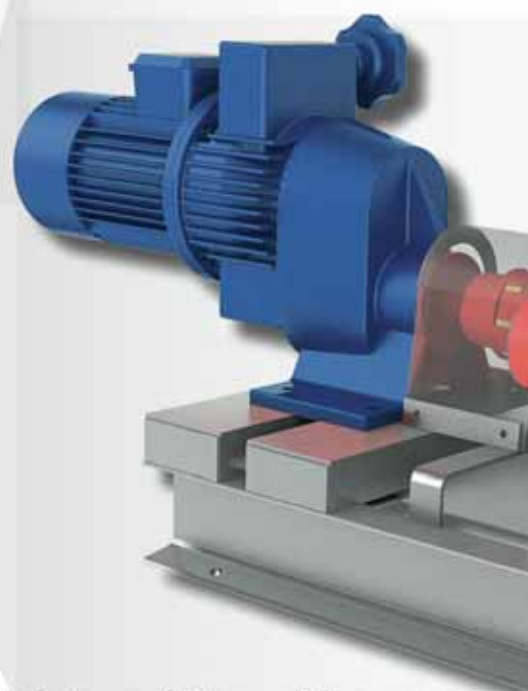


Motor driven

Esecuzione con motoriduttore

On request *ATEX 94 / 9 / CE*


 II 2 GD T4 T135°C IP65



Motovariator with pump in vertical position

Esecuzione motovariatore
e pompa in posizione verticale

On request *ATEX 94 / 9 / CE*

 II 2 GD T4 T135°C IP65

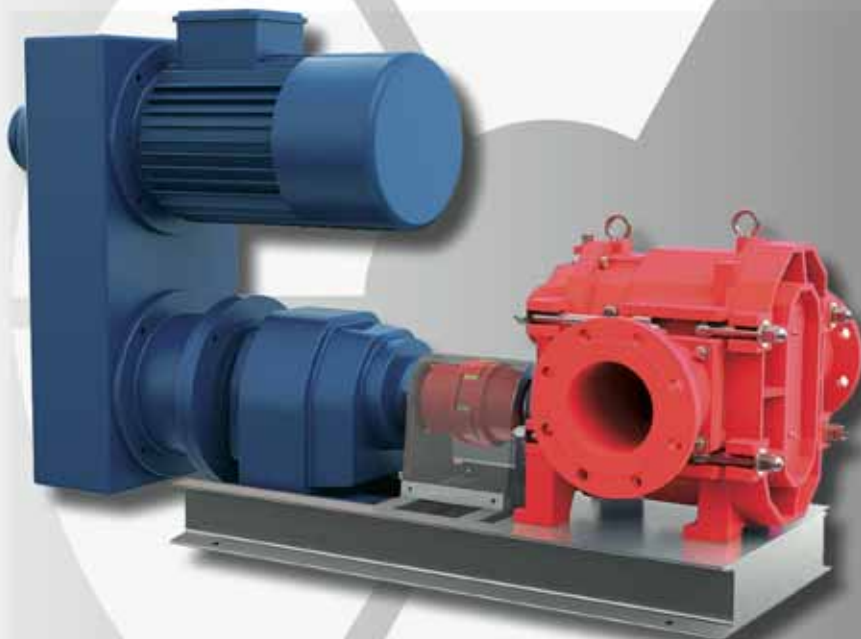


Gasoline engine driven

Esecuzione con motore a benzina




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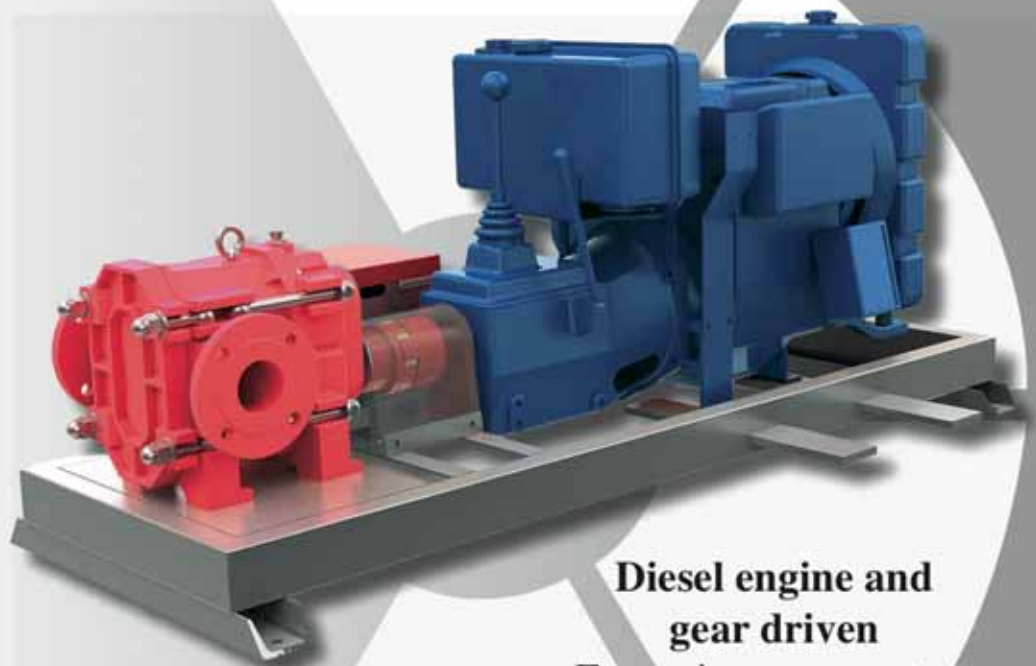
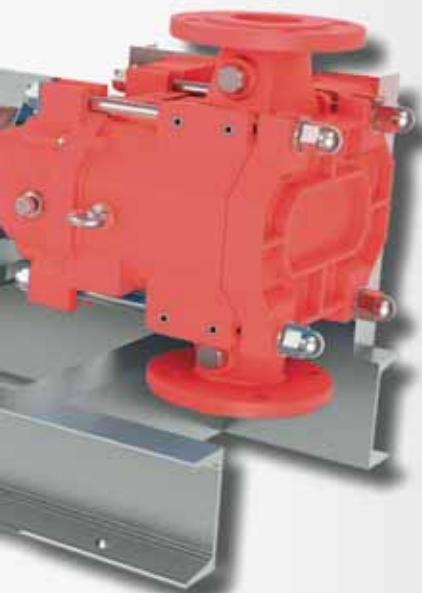


**Variator and expanding
pulleys driven**

Esecuzione con variatore
a pulegge espansibili

On request *ATEX 94 / 9 / CE*

 II 2 GD T4 T135°C IP65



**Diesel engine and
gear driven**

Esecuzione con motore
diesel e cambio di velocità



Round suction hose connector BR EVO 90 - 170 - 260
Connettore cilindrico BR EVO 90 - 170 - 260



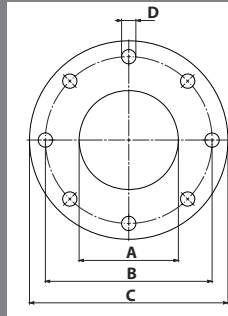
Square suction hose connector BR EVO 90 - 170
Connettore quadro BR EVO 90 - 170



DIRECT COUPLING
FLANGIATURA

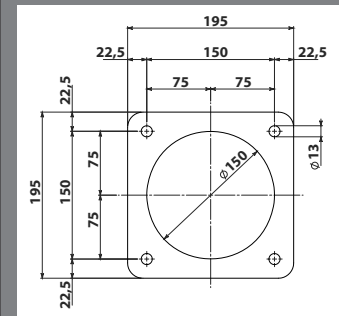
MODEL	A	B	C	D	N.HOLES
BR EVO 90	100	180	220	18	8
BR EVO 170	125	210	250	18	8
BR EVO 260	150	240	285	22	8

BR EVO 90: 4440001201
BR EVO 170: 4440001202
BR EVO 260: 4440001203

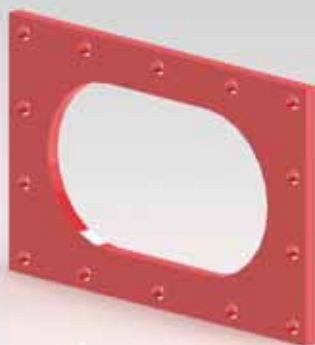


DIRECT COUPLING
FLANGIATURA

BR EVO 90: 4011501034
BR EVO 170: 4011501035



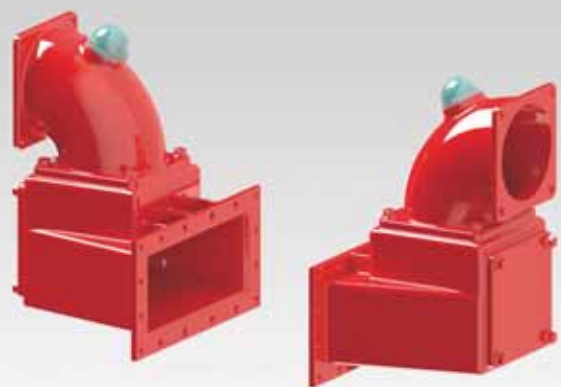
Coupling flange BR 40 - 80 - 120 - 160 - 200 - 240 - 280 / BR EVO 90
Flangia d'accoppiamento BR 40 - 80 - 120 - 160 - 200 - 240 - 280 / BR EVO 90



BR 40: 5010401021
BR 80: 5010401012
BR 120: 5010401013
BR 160: 5010401014

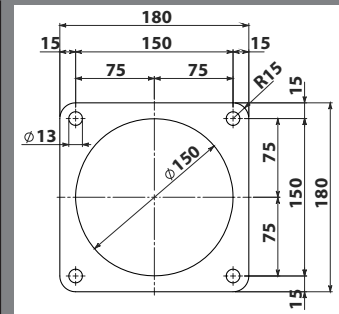
BR 200: 5010401015
BR 240: 5010401016
BR 280: 5010401017
BR EVO 90: 4440001200

Suction elbows BR 80 - 120 - 160 - 200 - 240 - 280
Curve aspirazione BR 80 - 120 - 160 - 200 - 240 - 280



DIRECT COUPLING
FLANGIATURA

BR 80: 6080200024
BR 120: 6080200025
BR 160: 6080200026
BR 200: 6080200027
BR 240: 6080200028
BR 280: 6080200029



Fittings on request

Accessori a richiesta



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Overpressure valve 2" - 2" 1/2
Valvola di sovrappressione 2" - 2" 1/2



2": 5100200033
2" 1/2: 5100200034

FEATURES

- WORKING CONDITIONS:

CALIBRATION PRESSURE FOR 2" VALVE = 5 bar.
CALIBRATION PRESSURE FOR 2" 1/2 VALVE = 4 bar.
TEMPERATURE: -10°C / +220° C.
VALVE SUITABLE ALSO FOR WATER SLURRY AND ACID.
VERTICAL INSTALLATION.

CARATTERISTICHE

- CONDIZIONI DI ESERCIZIO:

TARATURA VALVOLA DI SOVRAPRESSIONE 2" = 5 bar.
TARATURA VALVOLA DI SOVRAPRESSIONE 2" 1/2 = 4 bar.
TEMPERATURA: -10°C / +220° C.
VALVOLA IDONEA ANCHE PER ACQUA, LIQUAMI E ACIDI.
INSTALLAZIONE VERTICALE.

BR EVO 50: 5100200033
BR EVO 90: 5100200033
BR EVO 170: 5100200033
BR EVO 260: 5100200034
BR 40: 5100200033
BR 80: 5100200033

BR 120: 5100200033
BR 160: 5100200033
BR 200: 5100200034
BR 240: 5100200034
BR 280: 5100200034

Chemical resistance table

Tabella resistenza chimica

Type of fluid or conveyed material Fluido o materiale convogliato *	ON REQUEST SBR	ON REQUEST EPDM	AS SERIES NBR	ON REQUEST FKM
Acetone - Acetone	3	1	3	3
Acetylene dichloride - Cloruro di acetilene	3	3	3	1
Aliphatic solvents - Solventi alifatici	3	3	2	1
Aluminium chloride - Cloruro di alluminio	1	1	1	1
Aluminium sulfate - Solfato di alluminio	1	1	1	1
Ammonium chloride - Cloruro di ammonio	1	1	1	2
Ammonium sulphate - Solfato di ammonio	1	1	1	2
Animal fats - Grassi animali	3	3	1	1
Arsenic acid - Acido arsenico	2	1	2	1
Aromatic Solvents - Solventi Aromatici	3	3	2	1
Barium carbonate - Carbonato di bario	1	1	1	1
Barium hydroxide - Idrossido di bario	1	1	1	1
Benzene - Benzene	3	3	3	1
Benzoic acid - Acido benzoico	3	3	3	1
Boric acid - Acido borico	1	1	2	1
Brine - Salamoia	1	1	2	1
Calcium carbonate - Carbonato di calcio	1	1	1	1

GLOSSARY: "1" = Suitable – Idoneo "2" = Some corrosion. Must limit exposure - Qualche attacco. Limitare esposizione "3" = Not suitable - Non idoneo

* The fluid causes a potentially explosive atmosphere. Compliancy with ATEX 94/9/EC to be verified

* Fluido che determina atmosfera potenzialmente esplosiva, da valutare conformità ATEX 94/9/CE.

Chemical resistance table

Tabella resistenza chimica



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Type of fluid or conveyed material Fluido o materiale convogliato *	ON REQUEST	ON REQUEST	AS SERIES	ON REQUEST
	SBR	EPDM	NBR	FKM
Carbon dioxide - Biossido di carbonio	1	1	1	1
Chlorinated solvents - Solventi clorurati	3	3	3	1
Chlorine (wet) - Cloro (umido)	3	3	3	1
Citric acid - Acido citrico	1	1	1	1
Coconut oil - Olio di cocco	3	3	1	1
Concentrated Alkali – Alcali Concentrati	1	2	2	1
Corn oil - Olio di mais	3	3	1	1
Cutting oil - Olio da taglio	3	3	1	1
Denatured alcohol - Alcool denaturato	1	1	2	2
Detergents (water) - Detergenti (acqua)	2	1	1	1
Diesel oil - Gasolio	3	3	1	1
Diluted Alkali – Alcali Diluiti	1	2	2	1
Ethanol - Etanolo	1	1	1	2
Ferrous chloride - Cloruro ferroso	1	1	1	1
Formalin - Formalina	2	1	2	1
Fuel oil - Olio combustibile	3	3	1	1
Gasoline - Benzina	3	3	1	1
Glycerine - Glicerina	1	1	1	1
Grease - Grasso	3	3	1	1
Hydraulic oil - Olio idraulico	3	3	1	1
Ketones - Chetoni	2	3	3	2
Kerosene - Kerosene	3	3	1	1
Lard - Strutto	3	2	1	3
Lime beach - Candeggina	2	1	1	1
Liquid Petroleum Gas - GPL	3	3	1	1
Lubricating oils - Oli lubrificanti	3	3	1	1
Methanol - Metanolo	1	1	1	2
Methyl benzene - Metile benzene	3	3	3	1
Muriatic acid - Acido muriatico	3	2	2	1
Olive oil - Olio di oliva	3	2	1	1
Paraffin - Paraffina	3	3	1	1
Petroleum crude - Petrolio greggio	3	3	1	1
Petroleum Oil - Petrolio	3	3	1	1
Potassium acetate - Acetato di potassio	3	1	2	3
Potassium hydroxide - Idrossido di potassio	2	1	3	3
Sea water - Acqua di mare	1	1	1	1
Silver nitrate - Nitrato d'argento	1	1	2	1
Soap solutions - Sapone	2	2	1	1
Slurry – Liquame	2	2	1	1
Sodium bicarbonate - Bicarbonato di sodio	1	1	1	1
Sodium chloride - Cloruro di sodio	1	1	1	1
Soybean oil - Olio di soia	3	3	1	1
Vegetable oils - Olio vegetale	3	3	1	1
Water - Acqua	1	1	1	1

GLOSSARY: "1" = Suitable – Idoneo "2" = Some corrosion. Must limit exposure - Qualche attacco. Limitare esposizione "3" = Not suitable - Non idoneo

* The fluid causes a potentially explosive atmosphere. Compliancy with ATEX 94/9/EC to be verified

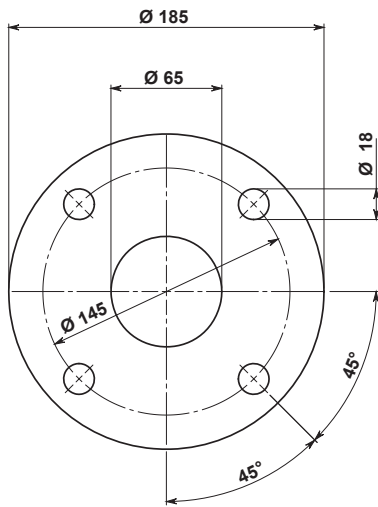
* Fluido che determina atmosfera potenzialmente esplosiva, da valutare conformità ATEX 94/9/CE.

Side connection holes BR EVO - BR
Flangiature BR EVO - BR

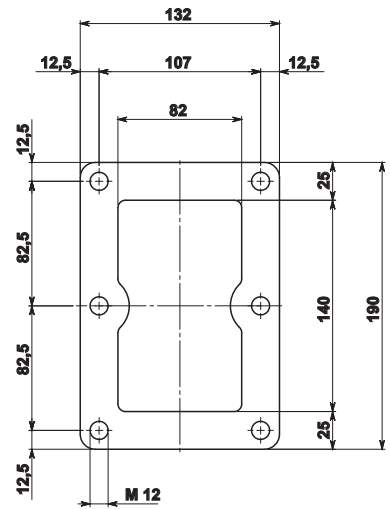


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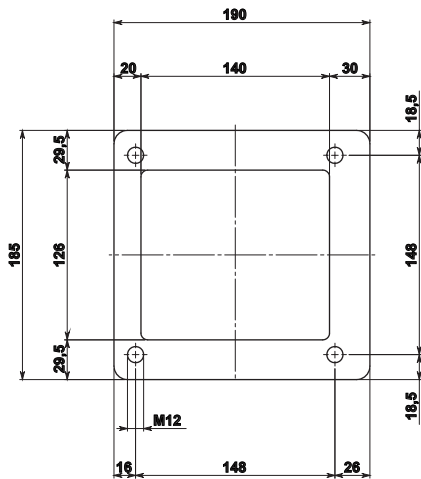
BR EVO 50



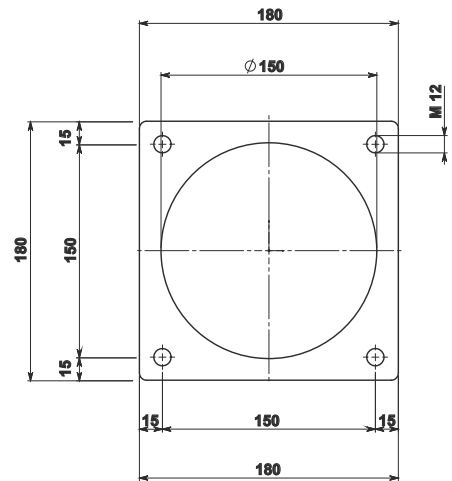
BR EVO 90



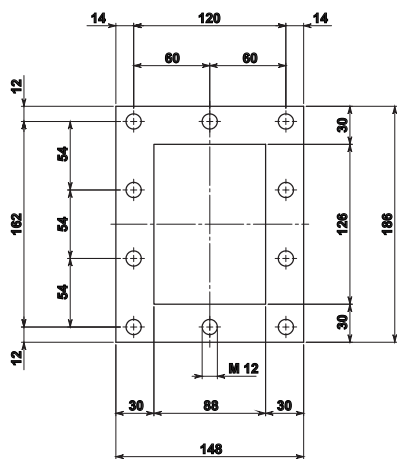
BR EVO 170



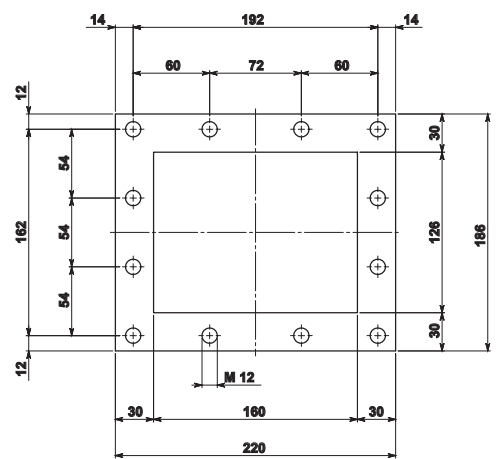
BR EVO 260



BR 40



BR 80



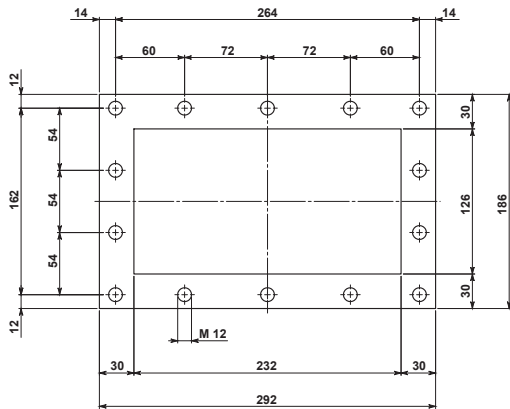
Side connection holes BR EVO - BR

Flangiature BR EVO - BR

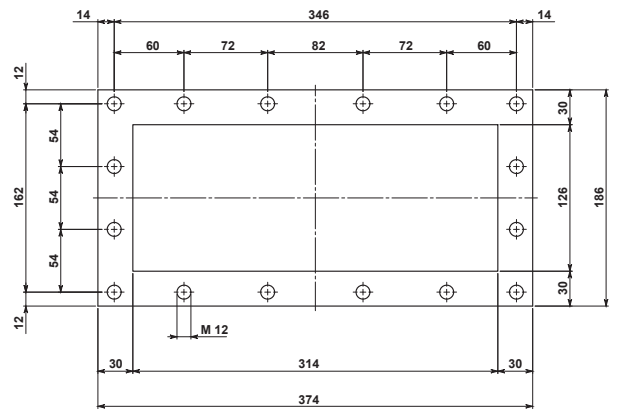


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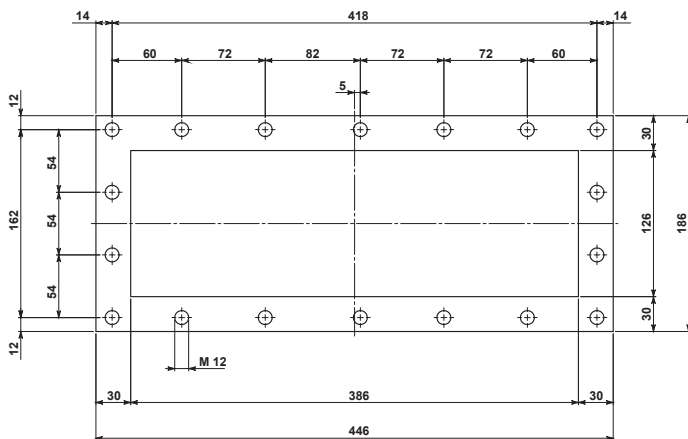
BR 120



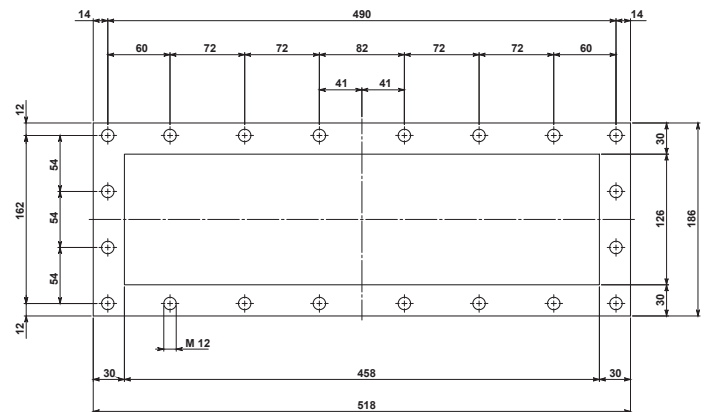
BR 160



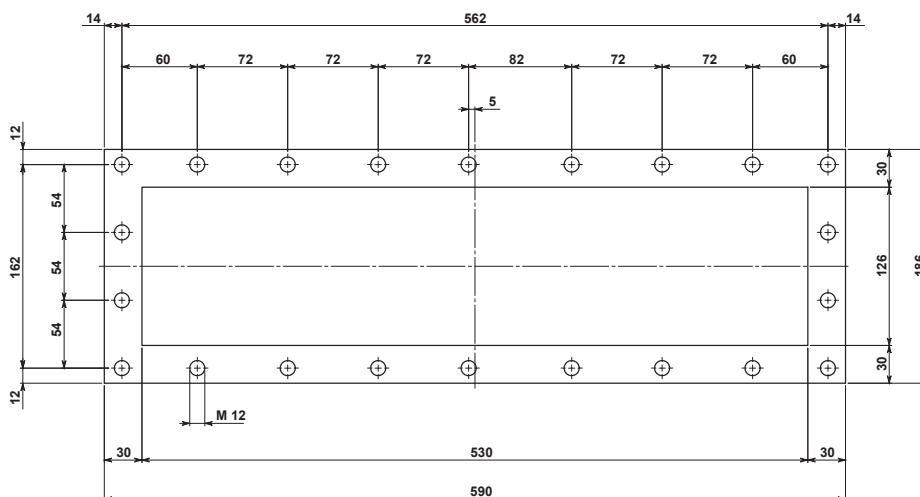
BR 200



BR 240



BR 280



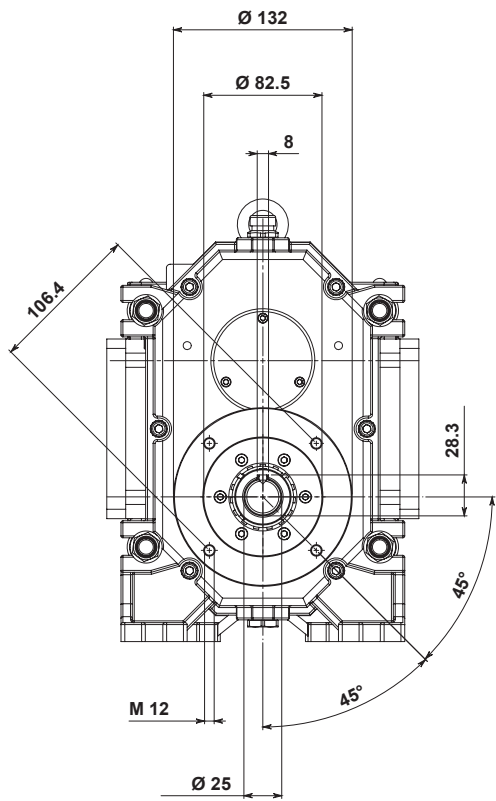
Hydraulic Motor connection BR EVO - BR

Flangiatura Motore Idraulico BR EVO - BR

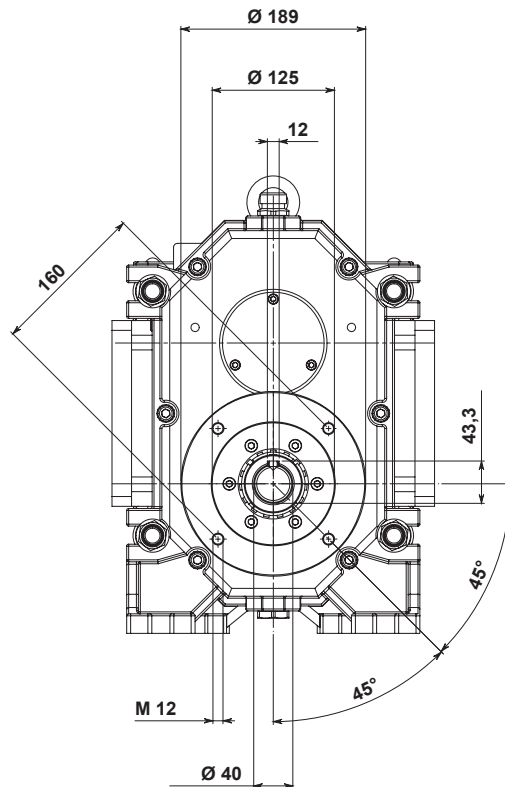


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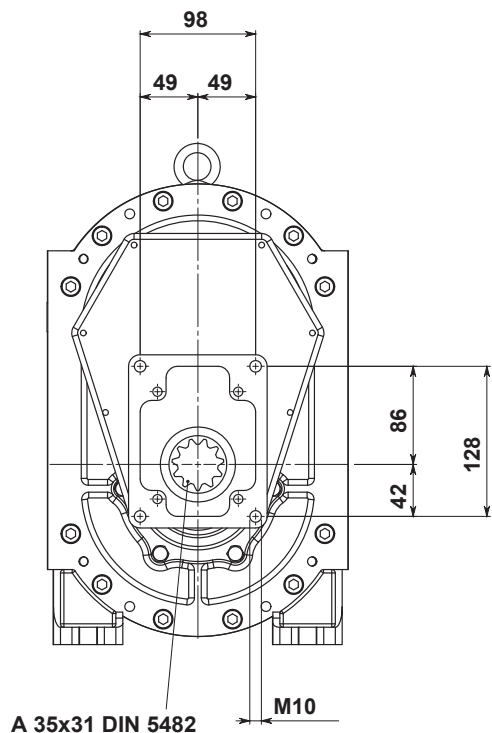
Hydraulic Motor connection BR EVO /H 50
Flangiatura Motore Idraulico BR EVO /H 50



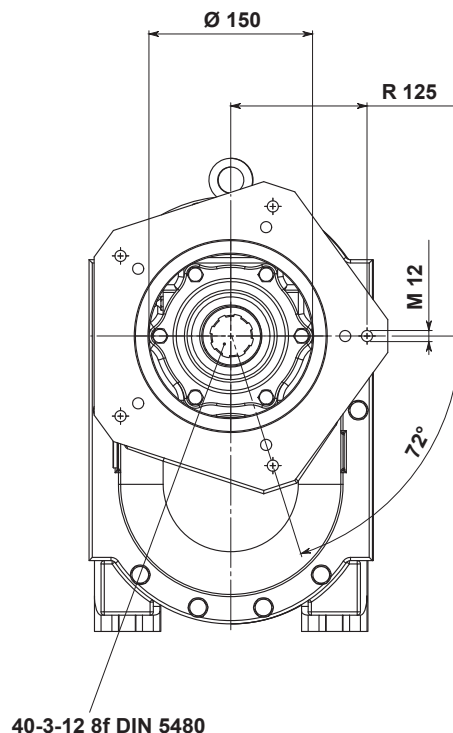
Hydraulic Motor connection BR EVO /H 90 - 170 - 260
Flangiatura Motore Idraulico BR EVO /H 90 - 170 - 260

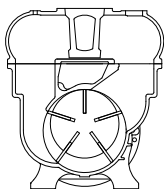


Hydraulic Motor connection BR /HM 40 - 80 - 120 -160
Flangiatura Motore Idraulico BR /HM 40 - 80 - 120 -160

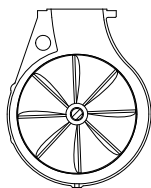


Hydraulic Motor connection BR /H 200 - 240 - 280
Flangiatura Motore Idraulico BR /H 200 - 240 - 280

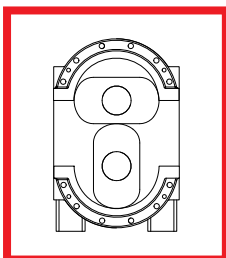




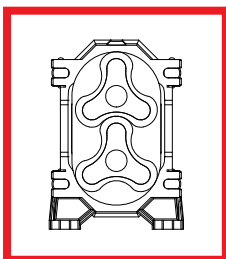
Rotary vanes
vacuum pump



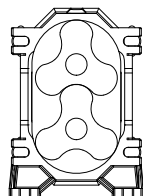
Centrifugal pump



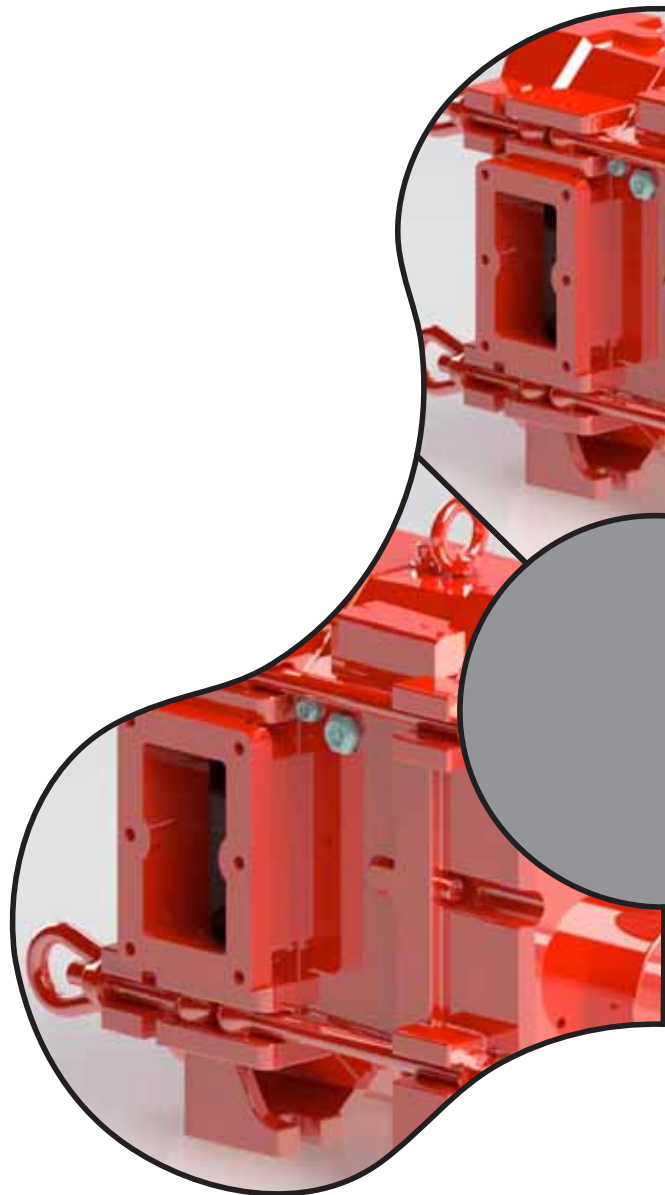
Rotary positive displacement
lobes pump



Rotary positive displacement
lobes pump



Rotary lobes
vacuum pump



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