

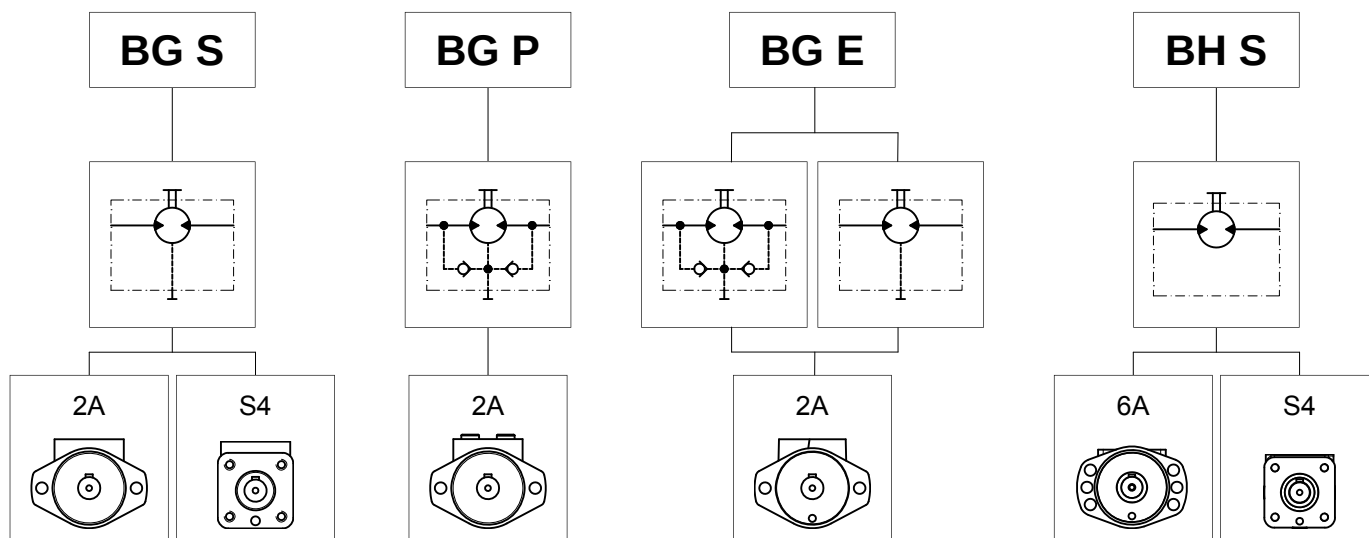
BG - BH



MOTORI ORBITALI

HYDRAULIC MOTOR SERIES

CARATTERISTICHE DEL MOTORE MOTOR FEATURES

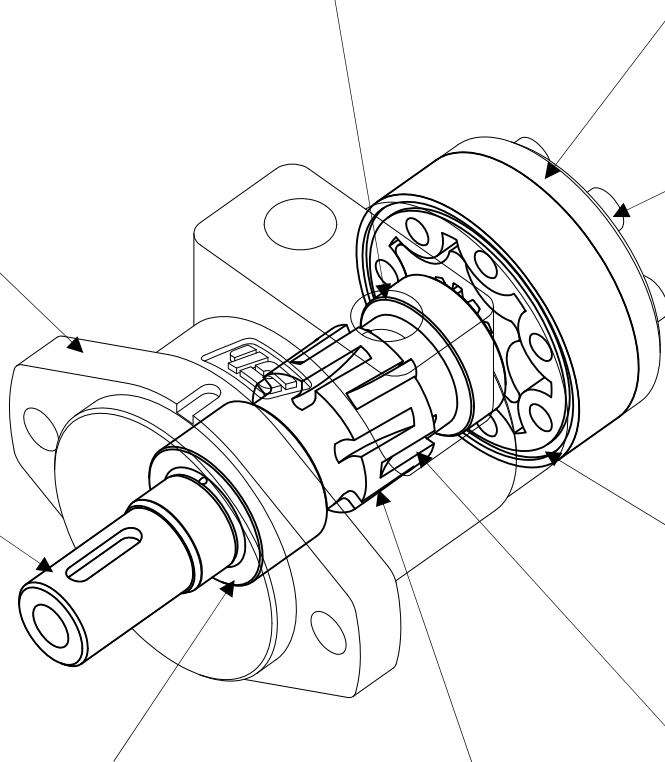


Una ampia gamma di valvole flangiabili, è disponibile su richiesta.
A wide range of flangeable valves are available on request.

Foro di drenaggio posteriore per un facile collegamento.
Rear drain port for easier connection.

Flangia a 2 e 4 fori.
2 bolts and 4 bolts mounting flange option.

Albero cilindrico $\varnothing 25$ mm e $\varnothing 25.4$ mm oppure scanalato $\varnothing 25$ mm.
0.97 in straight, 1 in straight, 0.97 in splined option.



7 viti coperchio posteriore in acciaio ad alta resistenza per sopportare gli sforzi causati dall'alta pressione.
7 rear cover bolts made of high tensile steel to resist the stress caused by high pressure.

Profilo del gerotor del tipo ad alto rendimento per elevate prestazioni e durata.
High efficiency profile gerotor set.

Parapolvere per proteggere la guarnizione dell'albero dalle impurità.
Dust seal to protect the seal from dust.

Valvola di distribuzione integrata nell'albero di distribuzione. Tolleranze molto ridotte assicurano un basso drenaggio.
Spool valve integral to the output shaft featuring optimized clearance geometry and so minimizing the oil slippage.

Il profilo delle cave assicura un azionamento morbido e silenzioso anche alle velocità più basse.
Optimized grooves profile to ensure smooth and quiet running even at very low speed.

CODICI DI ORDINAZIONE ORDERING CODES

Le seguenti lettere o numeri del codice, sono state sviluppate per identificare tutte le configurazioni possibili dei motori BG. Usare il seguente modulo per identificare le caratteristiche desiderate. **Tutte le lettere o numeri del codice devono comparire in fase d'ordine.** Si consiglia di leggere attentamente il catalogo prima di iniziare la compilazione del codice di ordinazione.

The following alphanumeric digits system has been developed to identify all of the configuration options for the BG motors. Use the model code below to specify the desired features. **All alphanumeric digits system of the code must be present when ordering.** We recommend to carefully read the catalogue before filling the ordering code.

CODICE PRODOTTO / MODEL CODE

1	2	3	4	5	6	7	8	8A	9	10

1 - SERIE / SERIES

BG	Motore orbitale Orbital motor
----	----------------------------------

2 - VERSIONI / VERSIONS

S	Versione S S Version	STANDARD
E	Versione E E Version	
P	Versione P P Version	

3 - CILINDRATA / DISPLACEMENT

040	40 cm ³ /giro [2.44 in ³ /rev]
050	49 cm ³ /giro [2.99 in ³ /rev]
080	73 cm ³ /giro [4.45 in ³ /rev]
100	101 cm ³ /giro [6.16 in ³ /rev]
130	128 cm ³ /giro [7.8 in ³ /rev]
160	168 cm ³ /giro [10.24 in ³ /rev]
200	195 cm ³ /giro [11.98 in ³ /rev]
250	244 cm ³ /giro [14.88 in ³ /rev]
315	292 cm ³ /giro [17.81 in ³ /rev]
400	390 cm ³ /giro [23.79 in ³ /rev]

4 - FLANGIA / MOUNTING FLANGE

		VERSIONI / VERSIONS		
		S	E	P
2A	Ovale 2 Fori Oval 2 Bolts	●	●	●
S4	4 fori 3/8 16 UNC - Ø44.45mm 4 Bolt 3/8 16 UNC - Ø1.75 in	●	/	/

● Disponibile - Available / Non Disponibile - Not Available

5 - ATTACCHI / MAIN PORTS

		VERSIONI / VERSIONS		
		S	E	P
M08	Attacchi 1/2 G BSPP (40x8) 1/2 G BSPP (40x8) Main Ports	●	/	/
F08	Attacchi Frontali 1/2 G BSPP 1/2 G BSPP (End Main Ports)	/	/	●
R08	Attacchi 1/2 G BSPP (36x36) 1/2 G BSPP (36x36) Main Ports	/	●	/

● Disponibile - Available / Non Disponibile - Not Available

1	2	3	4	5	6	7	8	8A	9	10

6 - ESTREMITÀ ALBERO / OUTPUT SHAFT

CL250	Albero Cilindrico Ø25 mm 0.984 in Parallel keyed	STANDARD
CL254	Albero Cilindrico Ø25.4 mm 1 in Parallel keyed	
SD250	Albero Scanalato (profilo SAE 6B 1" Z6) Splined Shaft (SAE 6B 1" 6T spline)	

7 - TENUTE / SEALS

N	NBR	STANDARD
V	FKM	

8 - VALVOLE / VALVES

			ATTACCHI / MAIN PORTS		
			M08	F08	R08
XXXX	Non Richieste Not Required	STANDARD	●	●	●
M081	Valvola di massima pressione VAF 08 - D VAF 08 - D pressure relief valve		●	/	/
M082	Valvola di massima pressione VAF 08 - D/AF VAF 08 - D/AF pressure relief valve		●	/	/
M083	Valvola Antiurto e Anticavitazione VAAF 31 VAAF 31 anticavitation and Anti-Shock Valve		●	/	/
M084	Valvola con prelievo del fluido in pressione AF AF shuttle-valve		●	/	/
M085	Valvola bilanciata di blocco e controllo discesa VCD 08 - S/AF VCD 08 - S/AF overcentre Valve		●	/	/
M086	Valvola di controllo bilanciata a doppio effetto VCR1 08 - D/AF VCR1 08 - D/AF double-acting overcentre valve with shuttle valve		●	/	/
M087	Valvola di controllo bilanciata a doppio effetto con valvola limitatrice di pressione VCR1 08 D/AF LDP VCR1 08 D/AF LDP double-acting overcentre valve with shuttle valve		●	/	/
M088	Rotodeviatore DR 08/R DR 08/R rotary switch		●	/	/

● Disponibile - Available / Non Disponibile - Not Available

8A - CARATTERISTICA VALVOLA / VALVES FEATURE

			VALVOLE / VALVES								
			XXXX	M081	M082	M083	M084	M085	M086	M087	M088
000	Caratteristica non necessaria Feature not necessary	STANDARD	●	/	/	/	●	/	/	/	/
001	Non Tarata (Campo Taratura 30÷70 bar) Not Set [435 to 1015 psi]		/	●	●	/	/	/	/	/	/
002	Non Tarata (Campo Taratura 70÷200 bar) Not Set [1015 to 2900 psi]		/	●	●	/	/	/	/	/	/
003	Non Tarata (Campo Taratura 50÷130 bar) Not Set [725 to 1885 psi]		/	/	/	●	/	/	/	/	/
004	Non Tarata (Campo Taratura 100÷250 bar) Not Set [1450 to 3625 psi]		/	/	/	●	/	/	/	/	/
005	Non Tarata (Campo Taratura 50÷150 bar) Not Set [725 to 2175 psi]		/	/	/	/	/	/	/	/	●
425	Rapporto di Pilotaggio 4.25:1 Pilot Ratio 4.25:1		/	/	/	/	/	/	●	●	/
800	Rapporto di Pilotaggio 8:1 Pilot Ratio 8:1		/	/	/	/	/	/	●	●	/
70D	Rapporto di Pilotaggio 7:1 - Senso di rotazione DX Pilot Ratio 7:1 - Direction of rotation CW		/	/	/	/	/	●	/	/	/
35D	Rapporto di Pilotaggio 3.5:1 -- Senso di rotazione DX Pilot Ratio 3.5:1 -- Direction of rotation CW		/	/	/	/	/	●	/	/	/
70S	Rapporto di Pilotaggio 7:1 - Senso di rotazione SX Pilot Ratio 7:1 - Direction of rotation CCW		/	/	/	/	/	●	/	/	/
35S	Rapporto di Pilotaggio 3.5:1 -- Senso di rotazione SX Pilot Ratio 3.5:1 -- Direction of rotation CCW		/	/	/	/	/	●	/	/	/

● Disponibile - Available / Non Disponibile - Not Available

Per la fornitura di valvole tarate contattare Uff. Tecnico.
Please contact Technical department for valve which require specific setting

1	2	3	4	5	6	7	8	8A	9	10

9 - CARATTERISTICA VERSIONE / VERSION FEATURE

			VERSIONI / VERSIONS		
			S	E	P
XXX	Non Richiesta Not Required	STANDARD	•	•	•
HPS	Guarnizione alta pressione High Pressure Seal		•	•	•
TC1	Tachimetro TAC/U (Senza sensore) TAC/U tachometer (Without sensor)		•	/	/
SV0	Versione senza valvole di drenaggio interne Version without built-in check valves		/	•	/
SVH	Versione senza valvole di drenaggio interne + Guarnizione alta pressione Version without built-in check valves + High Pressure Seal		/	•	/
DPH	Guarnizione alta pressione + Drenaggio posteriore - 1/4 G (BSPP) High Pressure Seal + Rear Drain - 1/4 G (BSPP)		•	/	/

• Disponibile - Available / Non Disponibile - Not Available

10 - OPZIONI / OPTIONS

XX	Non Richieste Not Required	STANDARD
01	Verniciato Nero RAL 9005 Black Painted RAL 9005	
02	Verniciato Blu RAL 5015 Blue Painted RAL 5015	
06	Verniciato Grigio RAL 7015 Grey Painted RAL 7015	
07	Verniciato Grigio RAL 7021 Grey Painted RAL 7021	

DATI TECNICI PER MOTORE BG CON ALBERI CL250-CL254

BG MOTOR TECHNICAL DATA WITH CL250-CL254 PARALLEL KEYED SHAFT

Motore Motor	Cilindrata Displacement	Pressione max ingresso Max. input pressure		Pressione diff. max. Max. differential pressure		Coppia max. Max. torque		Portata max. Max. flow		Velocità max. Max. speed		Potenza max. Max. horsepower	
	cm³/rev [in³/rev]	bar [psi]		bar [psi]		Nm [lbf·ft]		l/min [U.S. gpm]		giri/min [rpm]		kW [hp]	
BG 040	40 [2.44]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	100 [1450] 140 [2030] 200 [2900]	Cont Int ⁽¹⁾	52 [38.3] 74 [54.2]	Cont Int ⁽¹⁾	55 [14.5] 65 [17.2]	Cont Int ⁽¹⁾	1375 1625	Cont Int ⁽¹⁾	6 [8.04] 8.5 [11.4]
BG 050	49 [2.99]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	93 [68.5] 120 [88.4]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	1220 1530	Cont Int ⁽¹⁾	10 [13.4] 12 [16.1]
BG 080	73 [4.45]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int* Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int*	140 [103.1] 175 [128.9]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	820 1025	Cont Int ⁽¹⁾	9.5 [12.7] 12 [16.1]
BG 100	101 [6.16]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	190 [140] 230 [169.5]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	590 740	Cont Int ⁽¹⁾	10.5 [14] 13 [17.4]
BG 130	128 [7.80]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	240 [176.8] 290 [213.7]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	465 585	Cont Int ⁽¹⁾	10 [13.4] 12 [16.1]
BG 160	168 [10.24]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	300 [221.1] 370 [272.6]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	355 445	Cont Int ⁽¹⁾	10 [13.4] 12 [16.1]
BG 200	195 [11.89]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	115 [1670] 160 [2320] 200 [2900]	Cont Int ⁽¹⁾	300 [221.1] 390 [287.4]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	305 380	Cont Int ⁽¹⁾	8 [10.7] 15 [20.1]
BG 250	244 [14.88]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 195 [2827] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	95 [1377] 125 [1810] 180 [2610]	Cont Int ⁽¹⁾	300 [221.1] 400 [294.8]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	245 305	Cont Int ⁽¹⁾	6 [8.1] 8 [10.7]
BG 315	292 [17.81]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 195 [2827] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	80 [1160] 105 [1522] 160 [2320]	Cont Int ⁽¹⁾	300 [221.1] 400 [294.8]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	205 255	Cont Int ⁽¹⁾	5 [6.7] 7 [9.4]
BG 400	390 [23.79]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 195 [2827] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	60 [870] 80 [1160] 130 [1890]	Cont Int ⁽¹⁾	300 [221.1] 400 [294.8]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	150 190	Cont Int ⁽¹⁾	4 [5.4] 6 [8.1]

DATI TECNICI PER MOTORE BG CON ALBERO SD250

BG MOTOR TECHNICAL DATA WITH SD250 SPLINED SHAFT

Motore Tipo Motor Type	Cilindrata Displacement	Pressione max ingresso Max. input pressure		Pressione diff. max. Max. differential pressure		Coppia max. Max. torque		Portata max. Max. flow		Velocità max. Max. speed		Potenza max. Max. horsepower	
	cm³/rev [in³/rev]	bar [psi]		bar [psi]		Nm [lbf·ft]		l/min [U.S. gpm]		giri/min [rpm]		kW [hp]	
BG 040	40 [2.44]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	100 [1450] 140 [2030] 225 [3262]	Cont Int ⁽¹⁾	52 [38.3] 74 [54.5]	Cont Int ⁽¹⁾	55 [14.5] 65 [17.2]	Cont Int ⁽¹⁾	1375 1625	Cont Int ⁽¹⁾	6 [8.04] 8.5 [11.39]
BG 050	49 [2.99]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	93 [68.5] 120 [88.4]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	1220 1530	Cont Int ⁽¹⁾	10 [13.4] 12 [16.1]
BG 080	73 [4.45]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int* Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int*	140 [103.1] 175 [128.9]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	820 1025	Cont Int ⁽¹⁾	9.5 [12.7] 12 [16.1]
BG 100	101 [6.16]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	190 [140] 230 [169.5]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	590 740	Cont Int ⁽¹⁾	10.5 [14] 13 [17.4]
BG 130	128 [7.80]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	240 [176.8] 290 [213.7]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	465 585	Cont Int ⁽¹⁾	10 [13.4] 12 [16.1]
BG 160	168 [10.24]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	300 [221.1] 370 [272.7]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	355 445	Cont Int ⁽¹⁾	10 [13.4] 12 [16.1]
BG 200	195 [11.89]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 200 [2900] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	140 [2030] 175 [2540] 225 [3262]	Cont Int ⁽¹⁾	360 [265.3] 420 [309.5]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	305 380	Cont Int ⁽¹⁾	10 [13.4] 12 [16.1]
BG 250	244 [14.88]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 195 [2827] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	110 [1595] 140 [2030] 180 [2610]	Cont Int ⁽¹⁾	360 [265.3] 440 [324.2]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	245 305	Cont Int ⁽¹⁾	8 [10.7] 10 [13.4]
BG 315	292 [17.81]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 195 [2827] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	90 [1310] 115 [1667] 160 [2320]	Cont Int ⁽¹⁾	360 [265.3] 440 [324.2]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	205 255	Cont Int ⁽¹⁾	5.6 [7.8] 7.5 [10.1]
BG 400	390 [23.79]	Cont Int ⁽¹⁾ Peak ⁽²⁾	165 [2392] 195 [2827] 225 [3262]	Cont Int ⁽¹⁾ Peak ⁽²⁾	70 [1020] 90 [1310] 130 [1890]	Cont Int ⁽¹⁾	360 [265.3] 440 [324.2]	Cont Int ⁽¹⁾	60 [15.9] 75 [19.8]	Cont Int ⁽¹⁾	150 190	Cont Int ⁽¹⁾	4.7 [6.3] 6 [8.1]

MOTORE MOTOR		Press.max.scar.con dren. Max return pressure with drain line bar [psi]	Press.max.avviam.a vuoto Max starting pressure with no load bar [psi]	Coppia minima di spunto Min starting torque Nm [lbf ft]		
BG	040	140 [2030]	10 [145]	A press. diff. max At max Δp	Cont. Int.	45 [33.2] 60 [44.2]
BG	050	140 [2030]	10 [145]	A press. diff. max At max Δp	Cont. Int.	70 [51.6] 90 [66.3]
BG	080	140 [2030]	10 [145]	A press. diff. max At max Δp	Cont. Int.	105 [77.4] 135 [99.5]
BG	100	140 [2030]	10 [145]	A press. diff. max At max Δp	Cont. Int.	150 [111] 190 [140]
BG	130	140 [2030]	9 [131]	A press. diff. max At max Δp	Cont. Int.	190 [140] 240 [177]
BG	160	140 [2030]	8 [116]	A press. diff. max At max Δp	Cont. Int.	250 [184] 315 [232]
BG	200	140 [2030]	7 [102]	A press. diff. max At max Δp	Cont. Int.	255 [188] 320 [236]
BG	250	140 [2030]	6 [87]	A press. diff. max At max Δp	Cont. Int.	265 [195] 345 [254]
BG	315	140 [2030]	6 [87]	A press. diff. max At max Δp	Cont. Int.	250 [184] 330 [243]
BG	400	140 [2030]	6 [87]	A press. diff. max At max Δp	Cont. Int.	265 [195] 355 [262]

1) Le condizioni intermittenti non devono durare più del 10% di ogni minuto. Intermittent duty must not exceed 10% every minute.

2) Le condizioni di picco non devono durare più del 1% di ogni minuto. Peak duty must not exceed 1% of every minute.

Pressione massima di scarico senza drenaggio o massima pressione nella linea di drenaggio. I motori sono forniti nella versione con guarnizioni standard (diagramma Standard) o nella versione con guarnizioni ad alta pressione (diagramma HPS).

Per condizioni di pressione e velocità non contemplate dal presente grafico si consiglia di contattare la S.A.M. Hydraulik.

N.B.: Sulla versione TAC/U non è possibile installare guarnizioni HPS.

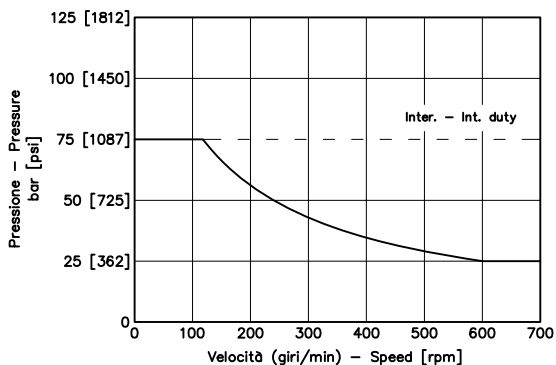
Max. return pressure without drain line or max. pressure in the drain line.

Motor are supplied in standard seal version (Standard chart) or in HPS seal version (HPS chart).

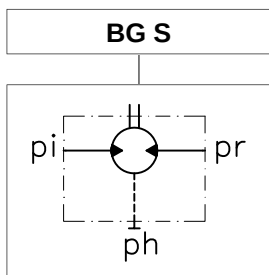
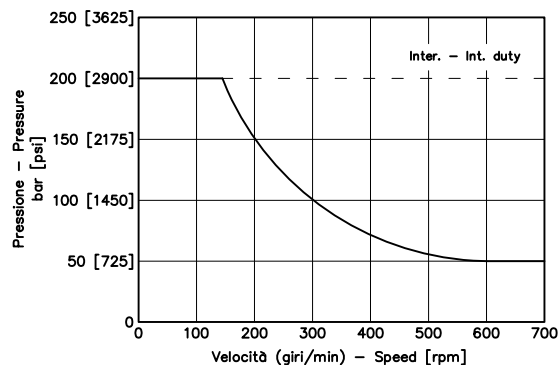
For pressure and speeds not showed in the curve below, please contact S.A.M. Hydraulik.

N.B.: TAC/U version is not available with HPS seals.

STANDARD



HPS



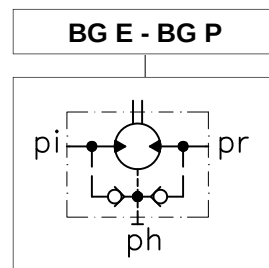
Nei motori BG S non sono presenti le valvole interne di drenaggio. La pressione sulla guarnizione (ph) è la media tra le pressioni di alimentazione e di scarico del motore. Se ph supera il valore consentito (vedi grafici in questa pagina), occorre aprire il drenaggio.

BG S motors don't feature built-in check valves. The (ph) pressure on the seal is the average between inlet and return pressure. If ph exceeds the allowed values (see the curves in this page), the drain line must be connected.

$$Ph = \frac{pi + pr}{2} [\text{bar}]$$

ph = pressione in carcassa
pi = pressione di alimentazione
pr = pressione di scarico

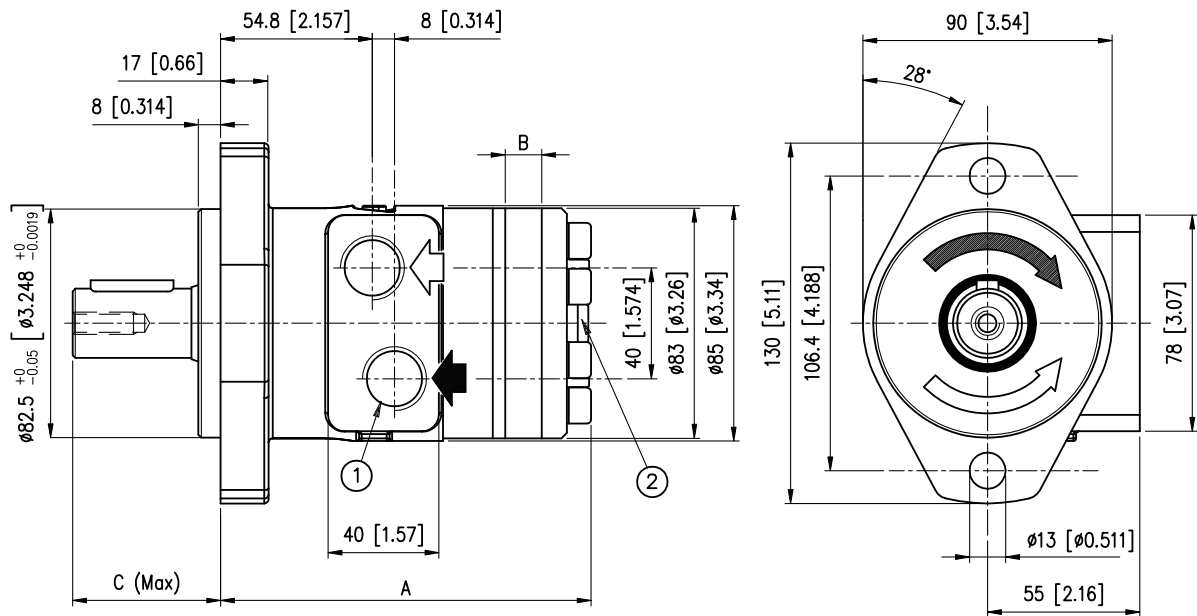
ph = housing pressure
pi = inlet pressure
pr = outlet pressure



Nei motori BG E e BG P sono presenti le valvole interne di drenaggio. La pressione sulla guarnizione (ph) è uguale alla pressione di scarico del motore. Se ph supera il valore consentito (vedi grafici in questa pagina), occorre aprire il drenaggio.

BG E and BG P motors feature built-in check valves. The (ph) pressure on the seal is equal to the motor return pressure. If ph exceeds the allowed values (see the curves in this page), the drain line must be connected.

Flangia 2A Flange
Attacchi M08 Main ports



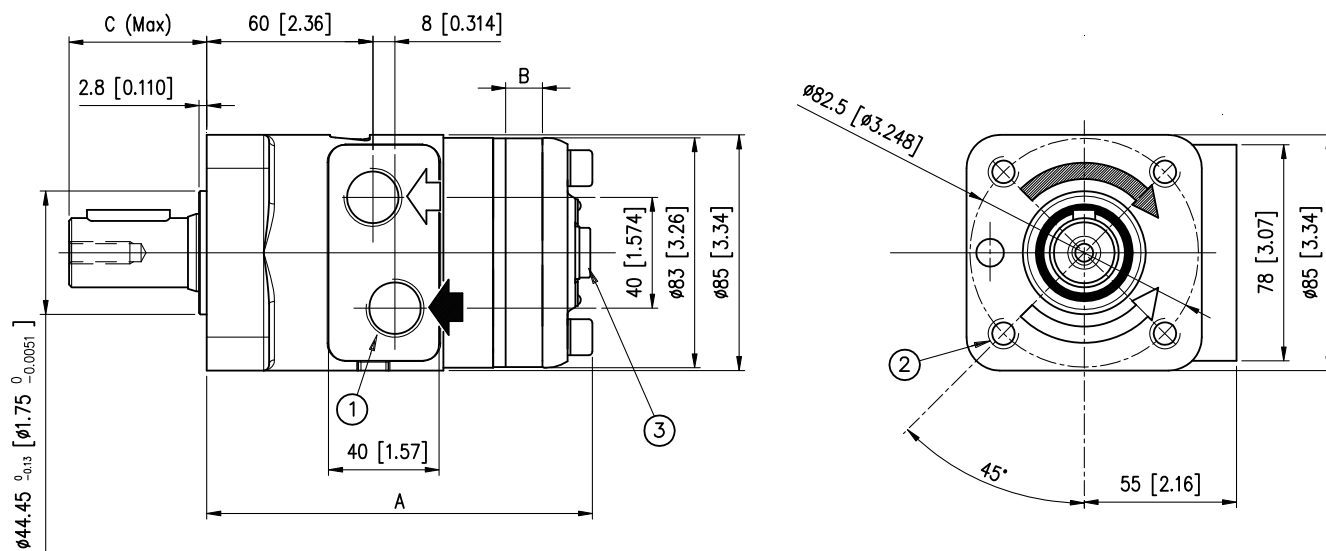
- 1) N° 2 fori di alimentazione 1/2 G (BSPP) profondità filetto 18 mm
No. 2 1/2 G (BSPP) main ports thread depth 0.70 in
2) Drenaggio motore 1/4 G (BSPP) profondità filetto 12 mm
1/4 G (BSPP) drain motor thread depth 0.472 in

Per le dimensioni degli alberi vedere pagina C/14
For shafts dimensions see page C/14

ALBERO SHAFT		CL250	CL254	SD250							
C	mm [in]	53.5 [2.10]	53.5 [2.10]	53.5 [2.10]							

		BG S 040	BG S 050	BG S 080	BG S 100	BG S 130	BG S 160	BG S 200	BG S 250	BG S 315	BG S 400
A	mm [in]	127.5 [5.01]	127.5 [5.01]	130.5 [5.13]	134.5 [5.29]	138.5 [5.45]	143.5 [5.64]	146.5 [5.76]	153.5 [6.04]	162.5 [6.39]	172.5 [6.79]
B	mm [in]	6.3 [0.248]	6.3 [0.248]	9.5 [0.374]	13.3 [0.523]	16.2 [0.63]	21.9 [0.86]	25.5 [1.003]	31.7 [1.24]	38.1 [1.50]	50.8 [2.00]
Peso - Weight	kg [lb]	5.5 [12.1]	5.5 [12.1]	5.6 [12.3]	5.8 [12.8]	5.9 [13.0]	6.1 [13.4]	6.3 [13.9]	6.5 [14.3]	6.8 [15.0]	7.3 [16.1]

Flangia S4 Flange
Attacchi M08 Main ports



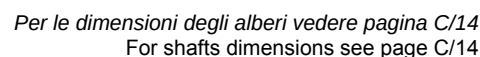
- 1) N° 2 fori di alimentazione 1/2 G (BSPP) profondità filetto 18 mm
No. 2 1/2 G (BSPP) main ports thread depth 0.70 in
- 2) N° 4 3/8 16UNC profondità filetto 17 mm
No. 4 3/8 16UNC thread depth 0.66 in
- 3) Drenaggio motore 1/4 G (BSPP) profondità filetto 12 mm
1/4 G (BSPP) drain motor thread depth 0.472 in

Per le dimensioni degli alberi vedere pagina C/14
For shafts dimensions see page C/14

ALBERO SHAFT		CL250	CL254	SD250							
C	mm [in]	50 [1.96]	45 [1.77]	50 [1.96]							

		BG S 040	BG S 050	BG S 080	BG S 100	BG S 130	BG S 160	BG S 200	BG S 250	BG S 315	BG S 400
A	mm [in]	133.1 [5.24]	133.1 [5.24]	136.3 [5.36]	140 [5.51]	143.7 [5.65]	148.7 [5.85]	152.2 [5.99]	158.5 [6.24]	165 [6.49]	177.5 [6.98]
B	mm [in]	6.3 [0.248]	6.3 [0.248]	9.5 [0.374]	13.3 [0.523]	16.2 [0.63]	21.9 [0.86]	25.5 [1.003]	31.7 [1.24]	38.1 [1.50]	50.8 [2.00]
Peso - Weight	kg [lb]	5.5 [12.1]	5.5 [12.1]	5.6 [12.3]	5.8 [12.8]	5.9 [13.0]	6.1 [13.4]	6.3 [13.9]	6.5 [14.3]	6.8 [15.0]	7.3 [16.1]

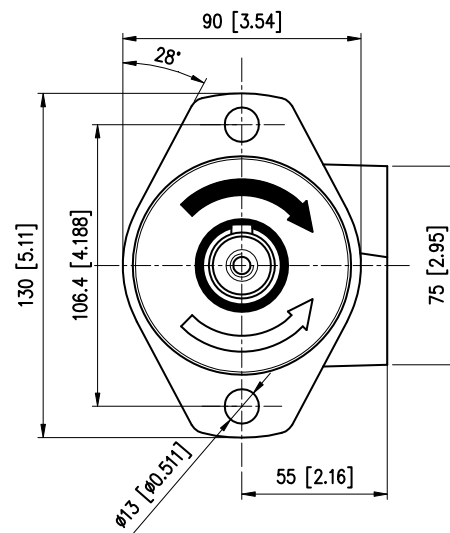
Flangia 2A Flange
Attacchi F08 Main ports



- 1) *N° 2 fori di alimentazione 1/2 G (BSPP) profondità filetto 18 mm*
No. 2 1/2 G (BSPP) main ports thread depth 0.70 in
- 2) *Drenaggio motore 1/4 G (BSPP) profondità filetto 15.5 mm*
1/4 G (BSPP) drain motor thread depth 0.61 in

		BG P 040	BG P 050	BG P 080	BG P 100	BG P 130	BG P 160	BG P 200	BG P 250	BG P 315	BG P 400
A	mm [in]	140 [5.51]	140 [5.51]	143 [5.62]	147 [5.78]	150.2 [5.91]	155.5 [6.12]	159 [6.25]	165 [6.49]	171.5 [6.75]	187.5 [7.38]
B	mm [in]	6.3 [0.248]	6.3 [0.248]	9.5 [0.374]	13.3 [0.523]	16.2 [0.63]	21.9 [0.86]	25.5 [1.003]	31.7 [1.24]	38.1 [1.50]	50.8 [2.00]
Peso - Weight	kg [lb]	6.5 [14.3]	6.5 [14.3]	6.6 [14.5]	6.8 [15.0]	6.9 [15.2]	7.1 [15.6]	7.3 [16.1]	7.5 [16.5]	7.8 [17.2]	8.3 [18.3]

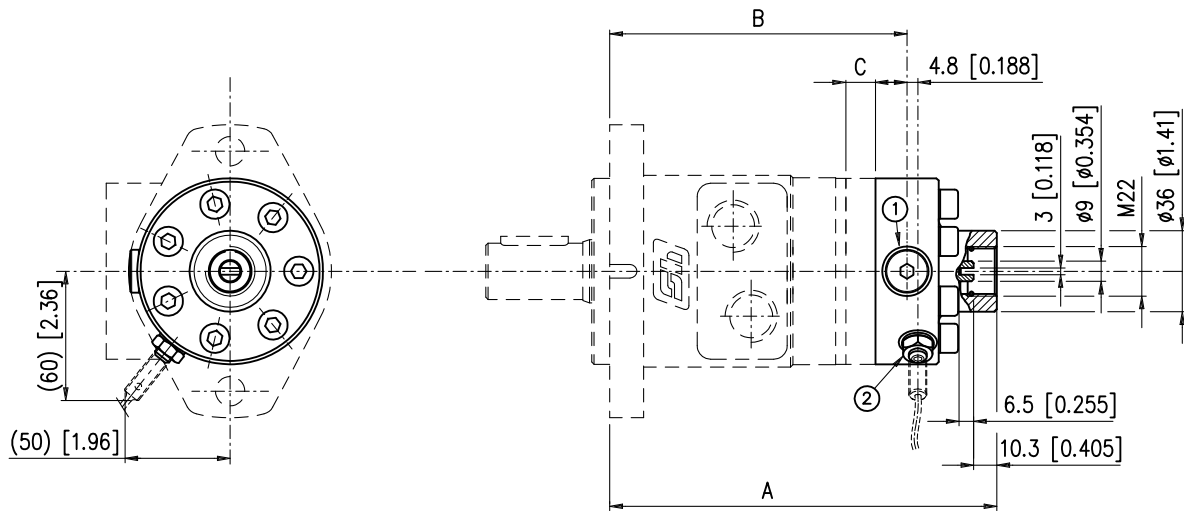
Flangia 2A Flange
Attacchi R08 Main ports



- Per le dimensioni degli alberi vedere pagina C/14
For shafts dimensions see page C/14

ALBERO SHAFT		CL250	CL254	SD250							
C	mm [in]	55 [2.16]	50 [1.96]	55 [2.16]							
		BG E 040	BG E 050	BG E 080	BG E 100	BG E 130	BG E 160	BG E 200	BG E 250	BG E 315	BG E 400
A	mm [in]	135 [5.31]	135 [5.31]	138 [5.43]	142 [5.59]	146 [5.74]	151 [5.94]	154 [6.06]	161 [6.33]	167 [6.57]	180 [7.08]
B	mm [in]	6.3 [0.248]	6.3 [0.248]	9.5 [0.374]	13.3 [0.523]	16.2 [0.63]	21.9 [0.86]	25.5 [1.003]	31.7 [1.24]	38.1 [1.50]	50.8 [2.00]
Peso - Weight	kg [lb]	5.5 [12.1]	5.5 [12.1]	5.6 [12.3]	5.8 [12.8]	5.9 [13.0]	6.1 [13.4]	6.3 [13.9]	6.5 [14.3]	6.8 [15.0]	7.3 [16.1]

- 1) Drenaggio motore 1/4 G (BSPP) profondità filetto 12mm
1/4 G (BSPP) drain motor thread depth 0.472 in
- 2) Attacco sensore M8x1
Sensor connection M8x1



ATTENZIONE:

- L'alberino contagiri ha velocità pari a 6 volte quella dell'albero primario del motore e senso di rotazione opposto.
- N.B. Non sono accettati carichi assiali o radiali sull'albero contagiri. Coppia massima trasmissibile 1Nm.
- Il motore viene fornito senza il sensore elettronico: se necessario, richiederlo in fase di ordinazione.
- Pressione massima ammessa sulla guarnizione dell'albero contagiri con drenaggio chiuso: 25 bar.

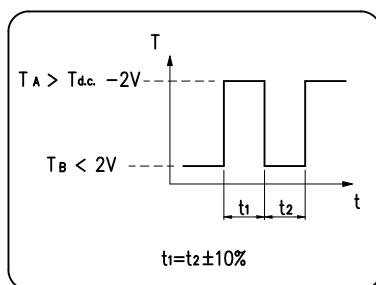
WARNING:

- Tacho shaft has a 6 times higher revolution speed than the motor shaft and opposite direction of rotation.
- NOTE: Axial or radial load on tacho shaft must be avoided. Max torque on tacho 1 Nm [0.73 lbf-ft].
- The electronic sensor is not supplied: if required, please state it clearly on order form.
- Max pressure admissible on the shaft seal with closed drain port 25 bar [363 psi].

		BG S 040	BG S 050	BG S 080	BG S 100	BG S 130	BG S 160	BG S 200	BG S 250	BG S 315	BG S 400
A	mm [in]	163 [6.41]	163 [6.41]	166 [6.53]	170 [6.69]	174 [6.85]	179 [7.04]	182 [7.16]	189 [7.44]	195 [7.67]	208 [8.18]
B	mm [in]	123 [4.84]	123 [4.84]	126 [4.96]	130 [5.11]	134 [5.27]	139 [5.47]	142 [5.59]	149 [5.86]	155 [6.10]	168 [6.61]
C	mm [in]	6.3 [0.248]	6.3 [0.248]	9.5 [0.374]	13.3 [0.523]	16.2 [0.63]	21.9 [0.86]	25.5 [1.003]	31.7 [1.24]	38.1 [1.50]	50.8 [2.00]
Peso - Weight	kg [lb]	6 [13.2]	6 [13.2]	6.1 [13.4]	6.3 [13.9]	6.4 [14.1]	6.6 [14.5]	6.8 [15.0]	7.0 [15.4]	7.3 [16.1]	7.8 [17.2]

CARATTERISTICHE TECNICHE DEL SENSORE ELETTRONICO ELECTRONIC SENSOR TECHNICAL FEATURES

Segnale in uscita versione elettronica
Output signal electronic tacho



Numero d'impulsi per giro = 90
Principio di funzionamento induttivo
Funzione di uscita PNP
Tensione nominale 10-65 V d.c.
Caricabilità massima 300 mA
Frequenza massima 10000 Hz
Campo di temperatura -25C +85C
Grado di protezione IP 67

Versioni disponibili:

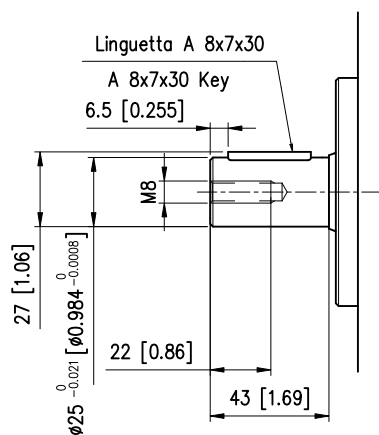
- Sensore con cavo a tre fili lunghezza 2 metri (cod.424.0050.0000)
- Sensore con attacco per connettore tipo binder (cod.424.0060.0000) + connettore tipo binder
- con cavo a tre fili lunghezza 5 metri (cod.424.0080.0000)

Number of pulses per revolution = 90
Inductive principle
Output current PNP
Voltage 10-65 V d.c.
Max load 300 mA
Max frequency 10000 Hz
Temperature range -25C +85C
Enclosure IP 67

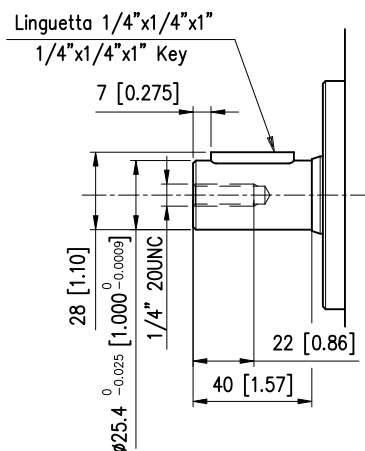
Available versions:

- Sensor with 2 metres three wires cable (cod.424.0050.0000)
- Sensor with binder plug connection (cod.424.0060.0000) + binder connecting
- plug with 5 metres three wires cable (cod.424.0080.0000)

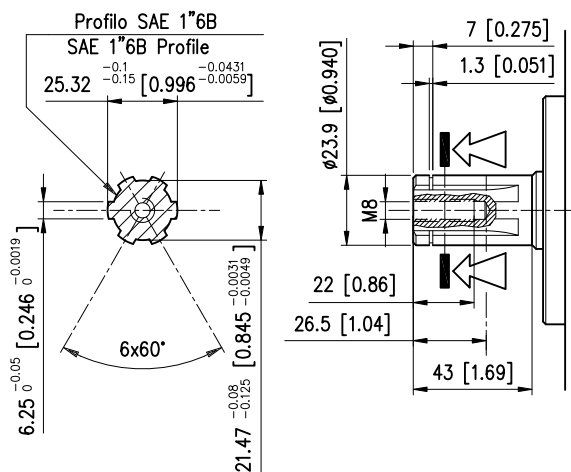
ALBERO CILINDRICO CL250
CL250 CYLINDRICAL SHAFT

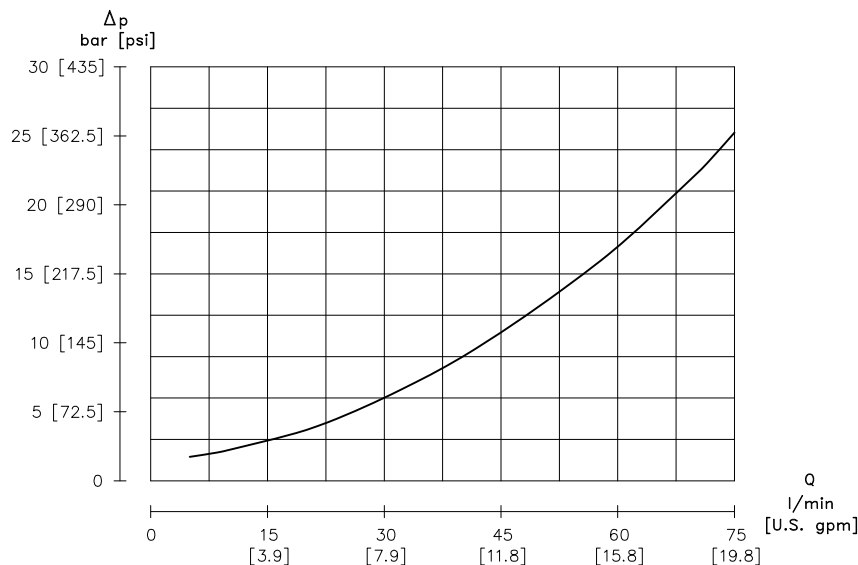


ALBERO CILINDRICO CL254
CL254 CYLINDRICAL SHAFT



ALBERO SCANALATO SD250
SD250 SPLINED SHAFT

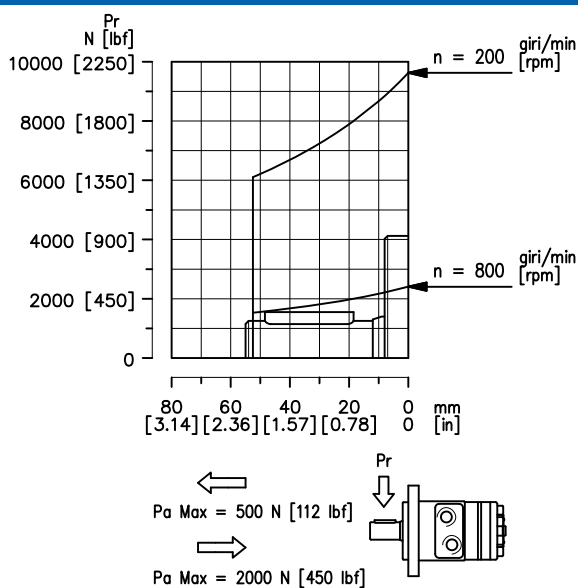




Il diagramma è stato ottenuto con prove eseguite su un numero significativo di motori, utilizzando un'olio avente una viscosità cinematica di 37 cSt alla temperatura di 45° C.

Diagram according to tests done with a huge number of motors and using hydraulic oil with kinematic viscosity of 37 cSt at 45° C temperature.

CARICHI AMMESSI SULL'ALBERO SHAFT LOAD CAPACITY

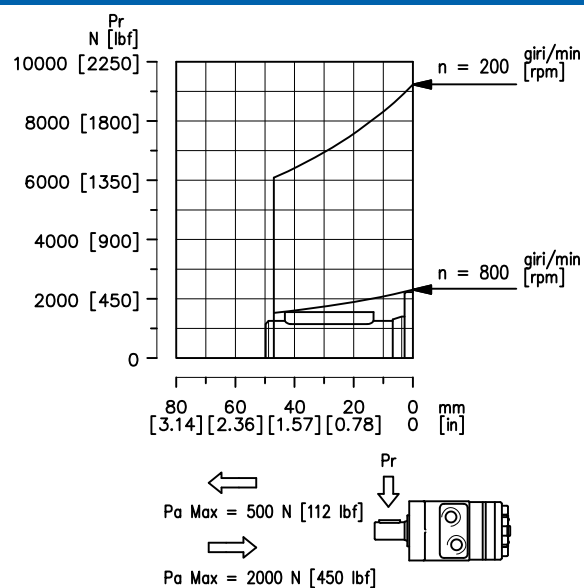


Formula utilizzabile per il calcolo del carico radiale (Pr) ai vari numeri di giri, e alle varie distanze dalla flangia tipo "2A" ovale 2 fori.

Radial load capacity (Pr) curve according to speed and distance from flange, valid for the 2-bolt flange type "2A"

$$Pr = \frac{800}{n} \cdot \frac{219000}{91 + L} [N]$$

$n \geq 200$ giri / min [rpm]
 $L \leq 52$ mm



Formula utilizzabile per il calcolo del carico radiale (Pr) ai vari numeri di giri, e alle varie distanze dalla flangia tipo "S4" 4 fori.

Radial load capacity (Pr) curve according to speed and distance from flange, valid for the 4-bolt flange type "S4".

$$Pr = \frac{800}{n} \cdot \frac{210000}{91 + L} [N]$$

$n \geq 200$ giri / min [rpm]
 $L \leq 47$ mm

Le seguenti lettere o numeri del codice, sono state sviluppate per identificare tutte le configurazioni possibili dei motori BH. Usare il seguente modulo per identificare le caratteristiche desiderate. **Tutte le lettere o numeri del codice devono comparire in fase d'ordine.** Si consiglia di leggere attentamente il catalogo prima di iniziare la compilazione del codice di ordinazione.

The following alphanumeric digits system has been developed to identify all of the configuration options for the BH motors. Use the model code below to specify the desired features. **All alphanumeric digits system of the code must be present when ordering.** We recommend to carefully read the catalogue before filling the ordering code.

CODICE PRODOTTO / MODEL CODE

1	2	3	4	5	6	7	8	8A	9	10

1 - SERIE / SERIES

BH	Motore orbitale Orbital motor
-----------	----------------------------------

2 - VERSIONI / VERSIONS

S	Versione S S Version
----------	-------------------------

3 - CILINDRATA / DISPLACEMENT

040	40 cm ³ /giro [2.44 in ³ /rev]
050	49 cm ³ /giro [2.99 in ³ /rev]
080	73 cm ³ /giro [4.45 in ³ /rev]
100	101 cm ³ /giro [6.16 in ³ /rev]
130	128 cm ³ /giro [7.8 in ³ /rev]
160	168 cm ³ /giro [10.24 in ³ /rev]
200	195 cm ³ /giro [11.98 in ³ /rev]
250	244 cm ³ /giro [14.88 in ³ /rev]
315	292 cm ³ /giro [17.81 in ³ /rev]
400	390 cm ³ /giro [23.79 in ³ /rev]

4 - FLANGIA / MOUNTING FLANGE

6A	Ovale 6 Fori Oval 6 Bolts	STANDARD
S4	4 fori 3/8 16 UNC - Ø44,45mm 4 Bolt 3/8 16 UNC - Ø1.75 in	

5 - ATTACCHI / MAIN PORTS

S08	Attacchi 7/8" - 14 UNF SAE10 7/8" - 14 UNF SAE10 Main Ports	STANDARD
SS8	Attacchi 1/2" - 14 NPTF 1/2" - 14 NPTF Main Ports	
MS8	Attacchi G 1/2 BSPP G 1/2 BSPP Main Ports	
BFL	Attacchi Manifold Manifold Main Ports	

1	2	3	4	5	6	7	8	8A	9	10

6 - ESTREMITÀ ALBERO / OUTPUT SHAFT

CL254	Albero Cilindrico Ø25.4 mm 1 in Parallel keyed	STANDARD
CS254	Albero Cilindrico Ø25.4 mm foro spina 1 in Parallel crosshole	
SE250	Albero Scanalato (profilo SAE 6B 1" Z6) Splined Shaft (SAE 6B 1" 6T spline)	
SE210	Albero Scanalato (profilo ANSI-B92.1a-1976-16/32 Z13) Splined Shaft (ANSI-B92.1a-1976-16/32 13T spline)	Speciale a richiesta Special on request

7 - TENUTE / SEALS

N	NBR
---	-----

8 - VALVOLE / VALVES

XXXX	Non Richieste Not Required
------	-------------------------------

8A - CARATTERISTICA VALVOLA / VALVES FEATURE

000	Caratteristica non necessaria Feature not necessary
-----	--

9 - CARATTERISTICA VERSIONE / VERSION FEATURE

XXX	Non Richiesta Not Required
DPS	Drenaggio posteriore 1/4 G (BSPP) + Raccordo M/F 1/4 G (BSPP) - 7/16" 20UNF2B Rear drain 1/4 G (BSPP) + Pipe Fitting M/F 1/4 G (BSPP) - 7/16" 20UNF2B

10 - OPZIONI / OPTIONS

XX	Non Richieste Not Required
01	Verniciato Nero RAL 9005 Black Painted RAL 9005

DATI TECNICI PER MOTORE BH CON ALBERO CL254-CS254 / BH MOTOR TECHNICAL DATA WITH CL254-CS254 SHAFT

Motore Motor	Cilindrata Displacement cm ³ /rev [in ³ /rev]	Pressione max ingresso Max. input pressure bar [psi]	Pressione diff. max. Max. differential pressure bar [psi]	Coppia max. Max. torque Nm [lbf·ft]	Portata max. Max. flow l/min [U.S. gpm]	Velocità max. Max. speed giri/min [rpm]	Potenza max. Max. horsepower kW [hp]
BH 040	40 [2.44]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 100 [1450] 140 [2030] 200 [2900]	Cont Int ¹⁾ 52 [38.3] 74 [54.2]	Cont Int ¹⁾ 55 [14.5] 65 [17.2]	Cont Int ¹⁾ 1375 1625	Cont Int ¹⁾ 6 [8.04] 8.5 [11.4]
BH 050	49 [2.99]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 93 [68.5] 120 [88.4]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 1220 1530	Cont Int ¹⁾ 10 [13.4] 12 [16.1]
BH 080	73 [4.45]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int* Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int* 140 [103.1] 175 [128.9]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 820 1025	Cont Int ¹⁾ 9.5 [12.7] 12 [16.1]
BH 100	101 [6.16]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 190 [140] 230 [169.5]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 590 740	Cont Int ¹⁾ 10.5 [14] 13 [17.4]
BH 130	128 [7.80]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 240 [176.8] 290 [213.7]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 465 585	Cont Int ¹⁾ 10 [13.4] 12 [16.1]
BH 160	168 [10.24]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 300 [221.1] 370 [272.6]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 355 445	Cont Int ¹⁾ 10 [13.4] 12 [16.1]
BH 200	195 [11.89]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 115 [1670] 160 [2320] 200 [2900]	Cont Int ¹⁾ 300 [221.1] 390 [287.4]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 305 380	Cont Int ¹⁾ 8 [10.7] 15 [20.1]
BH 250	244 [14.88]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 195 [2827] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 95 [1377] 125 [1810] 180 [2610]	Cont Int ¹⁾ 300 [221.1] 400 [294.8]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 245 305	Cont Int ¹⁾ 6 [8.1] 8 [10.7]
BH 315	292 [17.81]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 195 [2827] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 80 [1160] 105 [1522] 160 [2320]	Cont Int ¹⁾ 300 [221.1] 400 [294.8]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 205 255	Cont Int ¹⁾ 5 [6.7] 7 [9.4]
BH 400	390 (23.79)	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 195 [2827] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 60 [870] 80 [1160] 130 [1890]	Cont Int ¹⁾ 300 [221.1] 400 [294.8]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 150 190	Cont Int ¹⁾ 4 [5.4] 6 [8.1]

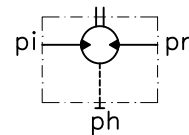
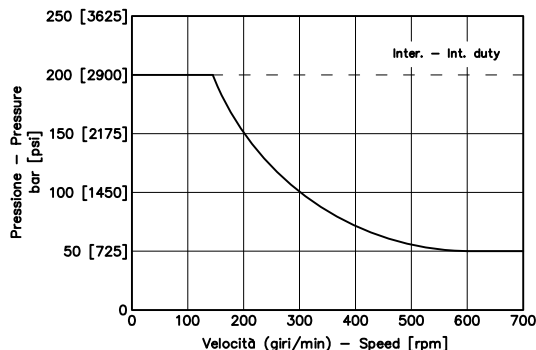
DATI TECNICI PER MOTORE BH CON ALBERO SE250 / BH MOTOR TECHNICAL DATA WITH SE250 SHAFT

Motore Motor	Cilindrata Displacement cm ³ /rev [in ³ /rev]	Pressione max ingresso Max. input pressure bar [psi]	Pressione diff. max. Max. differential pressure bar [psi]	Coppia max. Max. torque Nm [lbf·ft]	Portata max. Max. flow l/min [U.S. gpm]	Velocità max. Max. speed giri/min [rpm]	Potenza max. Max. horsepower kW [hp]
BH 040	40 [2.44]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 100 [1450] 140 [2030] 225 [3262]	Cont Int ¹⁾ 52 [38.3] 74 [54.5]	Cont Int ¹⁾ 55 [14.5] 65 [17.2]	Cont Int ¹⁾ 1375 1625	Cont Int ¹⁾ 6 [8.04] 8.5 [11.39]
BH 050	49 [2.99]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 93 [68.5] 120 [88.4]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 1220 1530	Cont Int ¹⁾ 10 [13.4] 12 [16.1]
BH 080	73 [4.45]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int* Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int* 140 [103.1] 175 [128.9]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 820 1025	Cont Int ¹⁾ 9.5 [12.7] 12 [16.1]
BH 100	101 [6.16]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 190 [140] 230 [169.5]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 590 740	Cont Int ¹⁾ 10.5 [14] 13 [17.4]
BH 130	128 [7.80]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 240 [176.8] 290 [213.7]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 465 585	Cont Int ¹⁾ 10 [13.4] 12 [16.1]
BH 160	168 [10.24]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 300 [221.1] 370 [272.7]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 355 445	Cont Int ¹⁾ 10 [13.4] 12 [16.1]
BH 200	195 [11.89]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 200 [2900] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 140 [2030] 175 [2540] 225 [3262]	Cont Int ¹⁾ 360 [265.3] 420 [309.5]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 305 380	Cont Int ¹⁾ 10 [13.4] 12 [16.1]
BH 250	244 [14.88]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 195 [2827] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 110 [1595] 140 [2030] 180 [2610]	Cont Int ¹⁾ 360 [265.3] 440 [324.2]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 245 305	Cont Int ¹⁾ 8 [10.7] 10 [13.4]
BH 315	292 [17.81]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 195 [2827] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 90 [1310] 115 [1667] 160 [2320]	Cont Int ¹⁾ 360 [265.3] 440 [324.2]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 205 255	Cont Int ¹⁾ 5.6 [7.8] 7.5 [10.1]
BH 400	390 [23.79]	Cont Int ¹⁾ Peak ²⁾ 165 [2392] 195 [2827] 225 [3262]	Cont Int ¹⁾ Peak ²⁾ 70 [1020] 90 [1310] 130 [1890]	Cont Int ¹⁾ 360 [265.3] 440 [324.2]	Cont Int ¹⁾ 60 [15.9] 75 [19.8]	Cont Int ¹⁾ 150 190	Cont Int ¹⁾ 4.7 [6.3] 6 [8.1]

1) Le condizioni intermittenti non devono durare più del 10% di ogni minuto. Intermittent duty must not exceed 10% every minute.
2) Le condizioni di picco non devono durare più del 1% di ogni minuto. Peak duty must not exceed 1% of every minute.

La pressione ammissibile in carcassa è riportata nel grafico. Elevate pressioni in carcassa comportano basse velocità dell'albero. Se la massima pressione in carcassa è elevata, è necessario utilizzare il drenaggio.

Allowable case pressure is showed in the diagram below - diagram based on case pressure and shaft speed. Allowable case pressure is highest at low shaft speed. If max. allowable case pressure is exceeded, case drain line is needed.



$$Ph = \frac{pi + pr}{2} [\text{bar}]$$

ph = pressione in carcassa
pi = pressione di alimentazione
pr = pressione di scarico

ph = housing pressure
 pi = inlet pressure
 pr = outlet pressure

- La pressione in carcassa senza drenaggio è data dalla media tra *pi* e *pr*.
- Il motore BH è fornito senza drenaggio
- La massima pressione di scarico con drenaggio è di 138 bar Cont.
- The case pressure without drain line is the average between inlet and return pressure.
- As standard, BH motors are supplied without drain port.
- Max. permissible return (back) pressure with drain line 138 bar [2000 psi] Cont.

[illegible]

		BH 040	BH 050	BH 080	BH 100	BH 130	BH 160	BH 200	BH 250	BH 315	BH 400
A	mm [in]	133.3 [5.24]	133.1 [5.24]	136.3 [5.36]	140 [5.51]	143.7 [5.65]	148.7 [5.85]	152.2 [5.99]	158.5 [6.24]	164.9 [6.49]	177.6 [6.99]
C	mm [in]	6.55 [0.257]	6.3 [0.248]	9.5 [0.374]	13.2 [0.519]	16.9 [0.66]	21.9 [0.86]	25.4 [1.00]	31.7 [1.24]	38.1 [1.50]	50.8 [2.00]
Pesi - Weight	kg [lb]	5.5 [12.12]	5.5 [12.12]	5.6 [12.34]	5.8 [12.78]	5.9 [13]	6 [13.4]	6.3 [13.88]	6.5 [14.3]	6.8 [14.98]	7.2 [16]

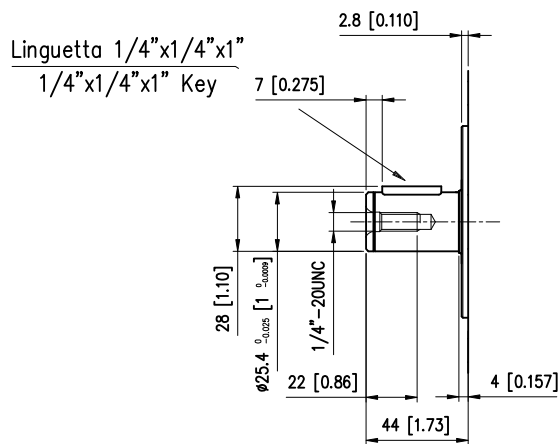
Flange 6A Flange

Sede O-Ring 2-152

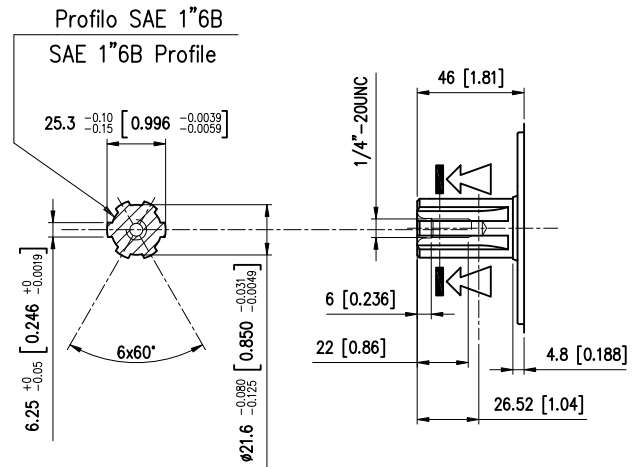
Technical drawing showing the side and front views of the Flange 6A Flange. The side view includes dimensions: 42.7 [1.681], 15.2 [0.59], 45.7 [1.799], 40 [1.57], 83 [3.26], 85 [3.34], and A. The front view includes dimensions: 130 [5.11], 106.4 [4.188], 96.8 [3.81], 13.5 [0.531], 22°30', 44.7 [1.75], and 80 [3.14]. The side view also shows a detail of the O-ring seat and a small inset showing the flange assembly with a pump head.

		BH 040	BH 050	BH 080	BH 100	BH 130	BH 160	BH 200	BH 250	BH 315	BH 400
A	mm [in]	133.3 [5.24]	133.1 [5.24]	136.3 [5.36]	140 [5.51]	143.7 [5.65]	148.7 [5.85]	152.2 [5.99]	158.5 [6.24]	164.9 [6.49]	177.6 [6.99]
C	mm [in]	6.55 [0.257]	6.3 [0.248]	9.5 [0.374]	13.2 [0.519]	16.9 [0.66]	21.9 [0.86]	25.4 [1.00]	31.7 [1.24]	38.1 [1.50]	50.8 [2.00]
Pesi - Weight	kg [lb]	5.5 [12.12]	5.5 [12.12]	5.6 [12.34]	5.8 [12.78]	5.9 [13]	6 [13.4]	6.3 [13.88]	6.5 [14.3]	6.8 [14.98]	7.2 [16]

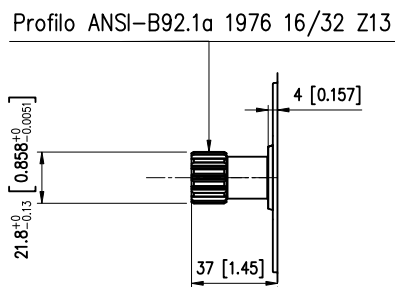
Cilindrico CL254
Parallel CL254



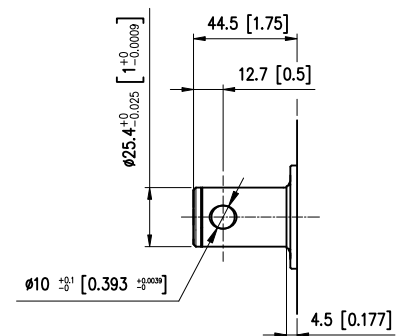
Scanalato SE250
Splined SE250



Scanalato SE210 (Speciale a richiesta)
Splined SE210 (Special on request)

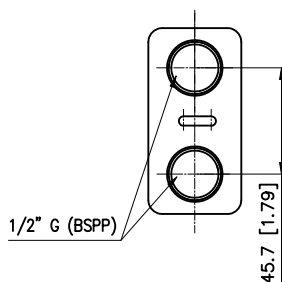


Cilindrico CS254
Parallel CS254

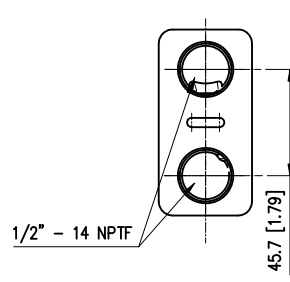


ATTACCHI
OPTIONS

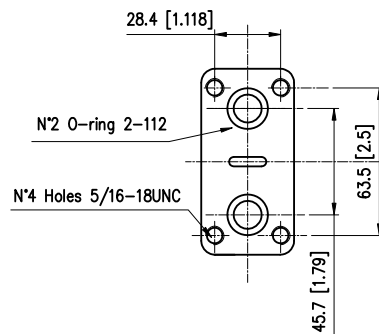
MS8



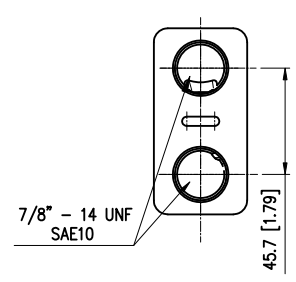
SS8



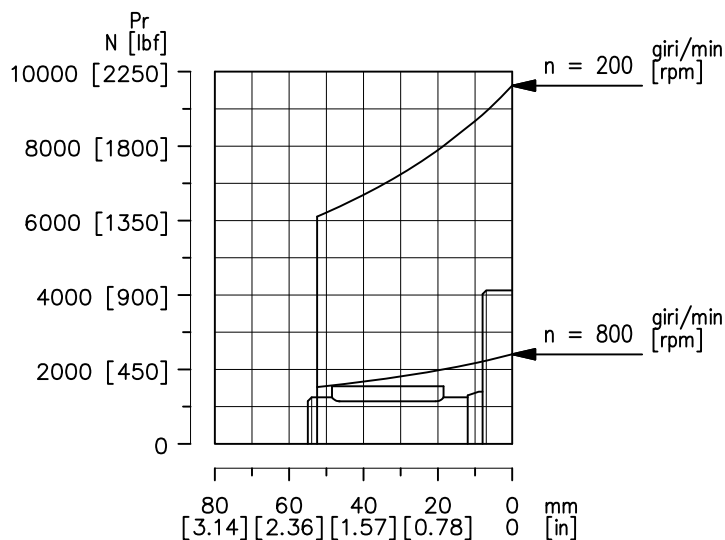
Manifold (BFL)



S08



Curva carico radiale in funzione della velocità e della distanza dalla flangia, valido per flangia 4 fori tipo "S4"
Radial load capacity (Pr) curve according to speed and distance from flange valid for the 4 bolts flange type "S4"



$$Pr = \frac{800}{n} * \frac{1860}{3.58 + L} \text{ [lbf]}$$

$$n \geq 200 \text{ [rpm]}$$

$$L \leq 2.07 \text{ [in]}$$

N.B.: Nella formula usare 200 rpm se la velocità è inferiore a 200 rpm
N.B. In the above formula, use 200 rpm if the speed is below 200 rpm

VERSIONE SPECIALE SPECIAL VERSION

DRENAGGIO POSTERIORE + RACCORDO M/F 1/4 G (BSPP) - 7/16" 20UNF2B
REAR DRAIN + PIPE FITTING M/F 1/4 G (BSPP) - 7/16" 20UNF2B

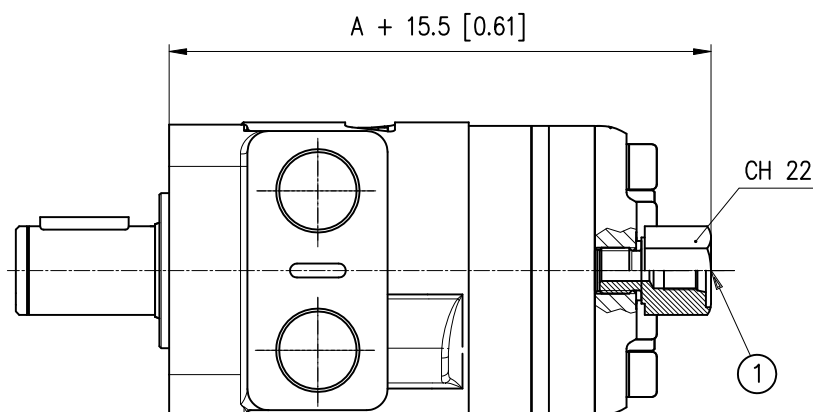
Per i motori BH è possibile richiedere un attacco di drenaggio sul fondello.

Se si vuole predisporre il motore con l'attacco di drenaggio è necessario specificare in fase d'ordine il valore DPS (vedere punto 9 del codice di ordinazione).

For the BH motors, it is possible to put a drain port on the rear cover.

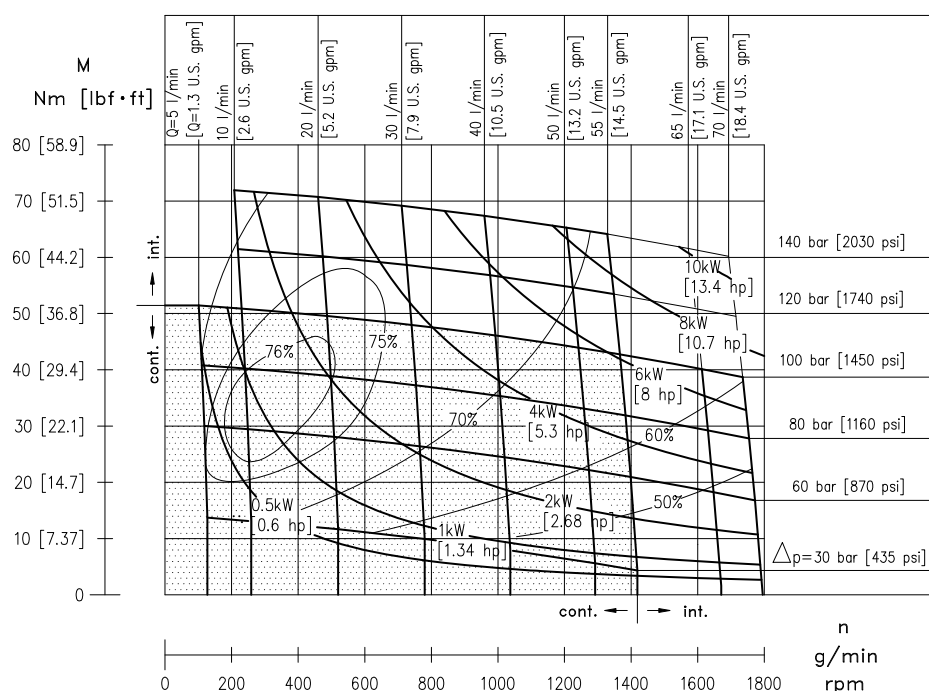
If it is necessary on the motor a drain port, to specify in the purchase order the value DPS (See position 9 of ordering code)

Versione disponibile per i motori con flangia: 6A
Available on following Mounting flange motors: S4



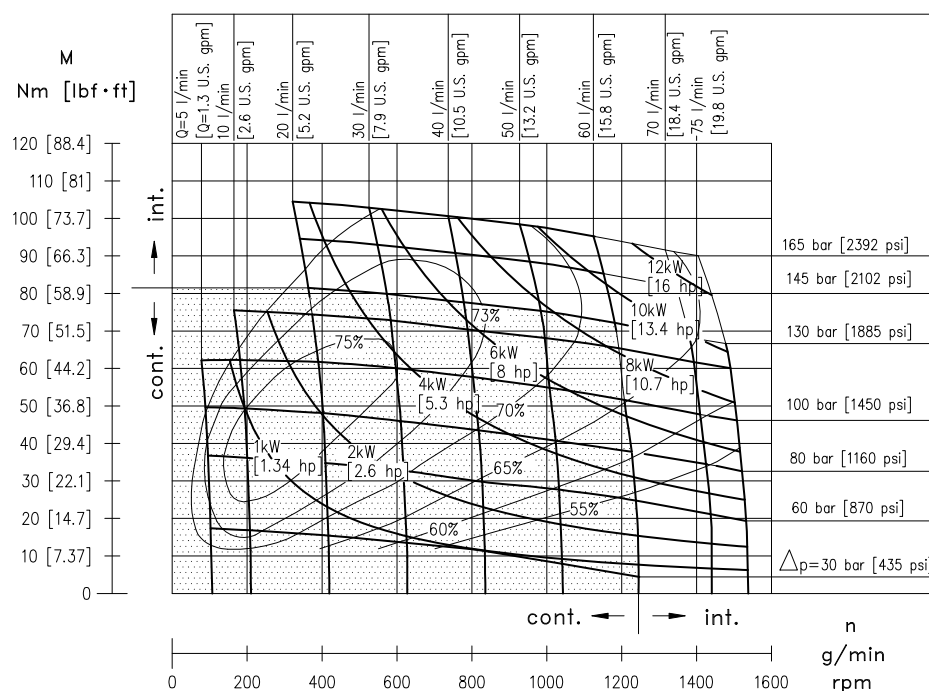
1) Drenaggio motore 7/16" 20 UNF 2B profondità filetto 12 mm
7/16" 20 UNF 2B drain motor thread depth 0.472 in

La quota "A" è riferita al dimensionale del motore senza raccordo.
"A" dimension is related to motor length without pipe fitting.



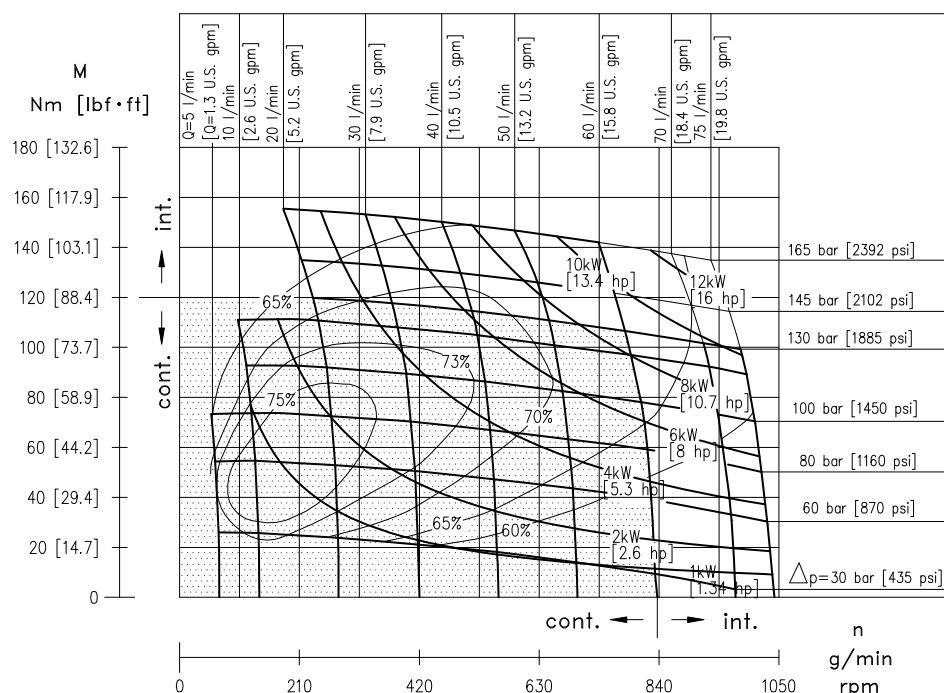
Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



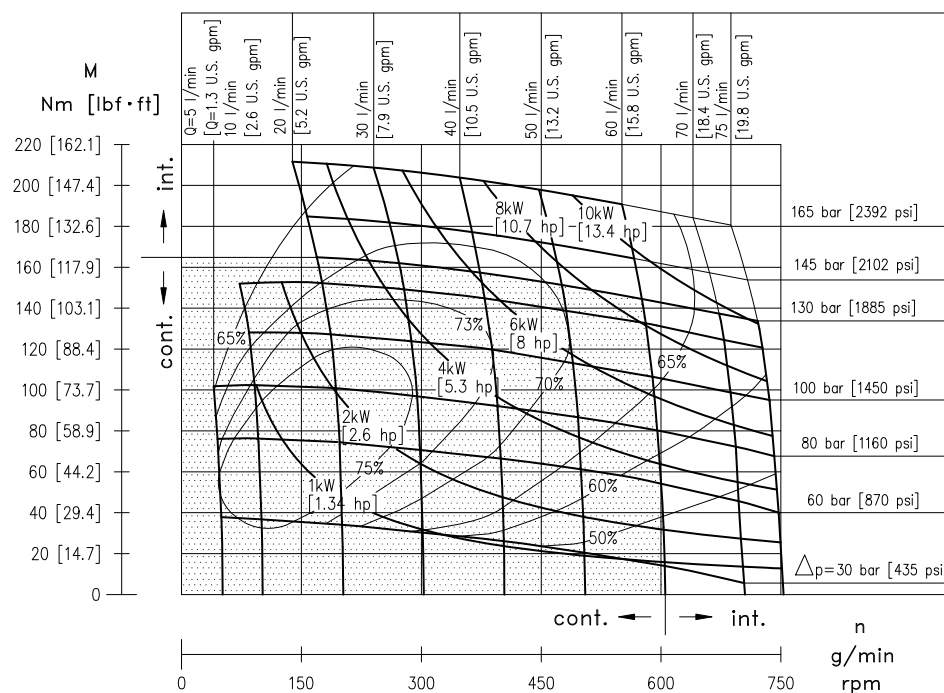
Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



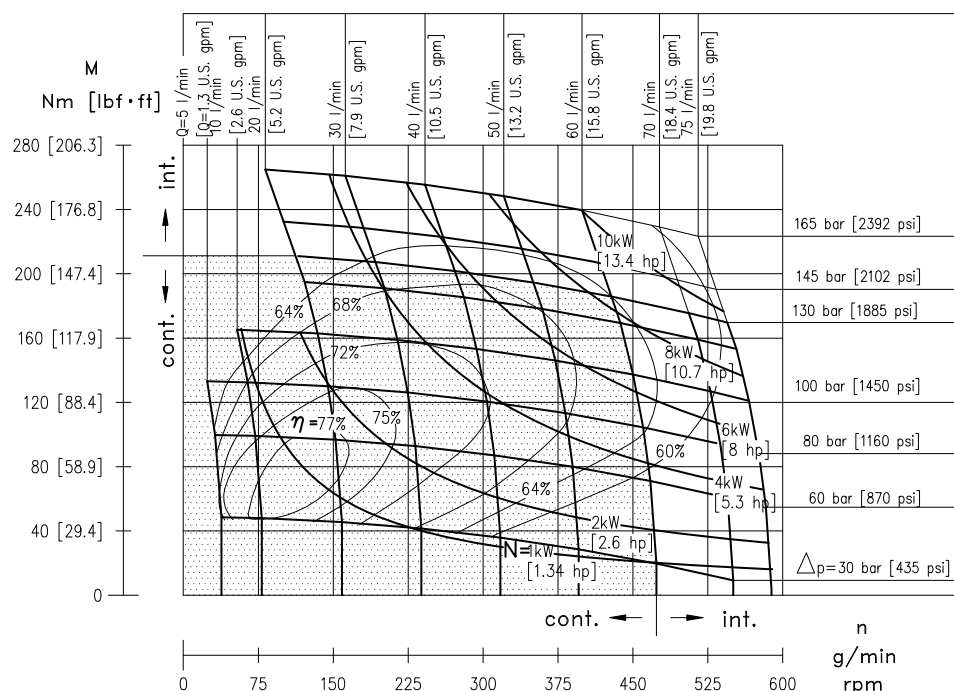
Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



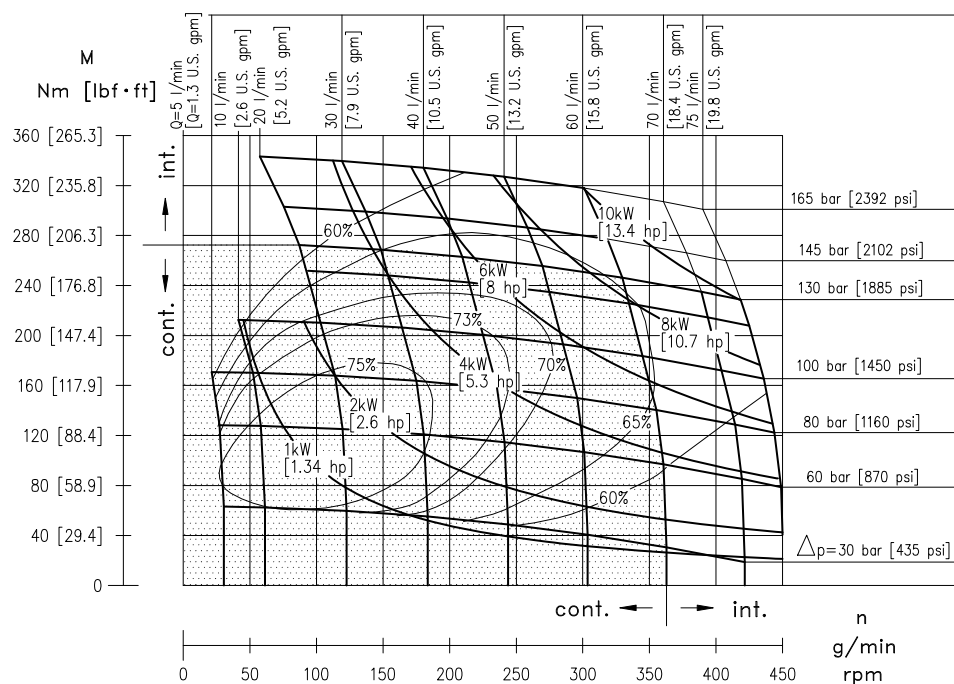
Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



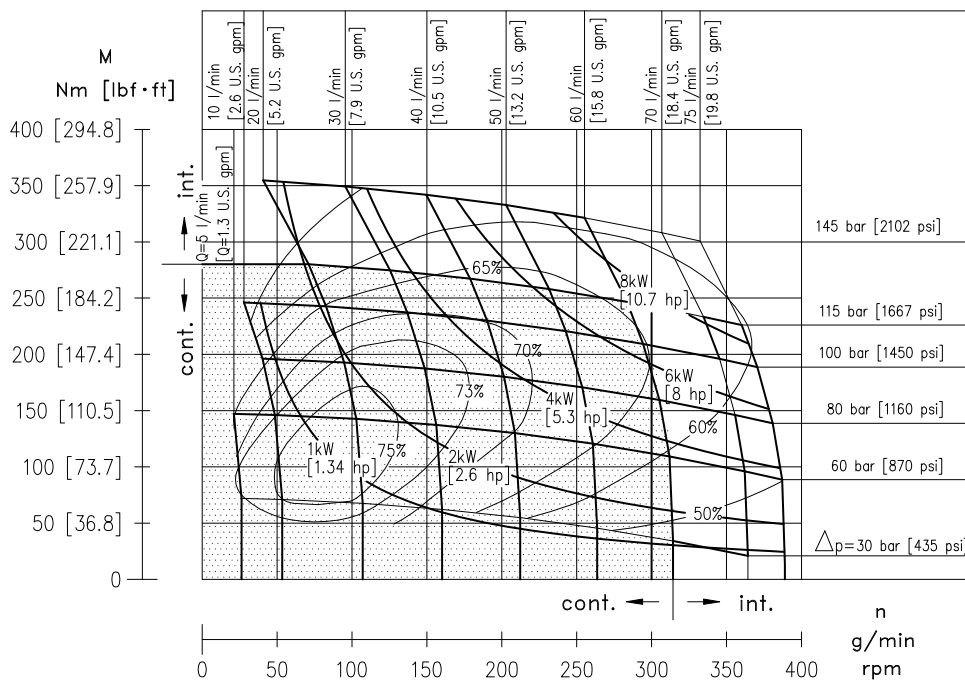
Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



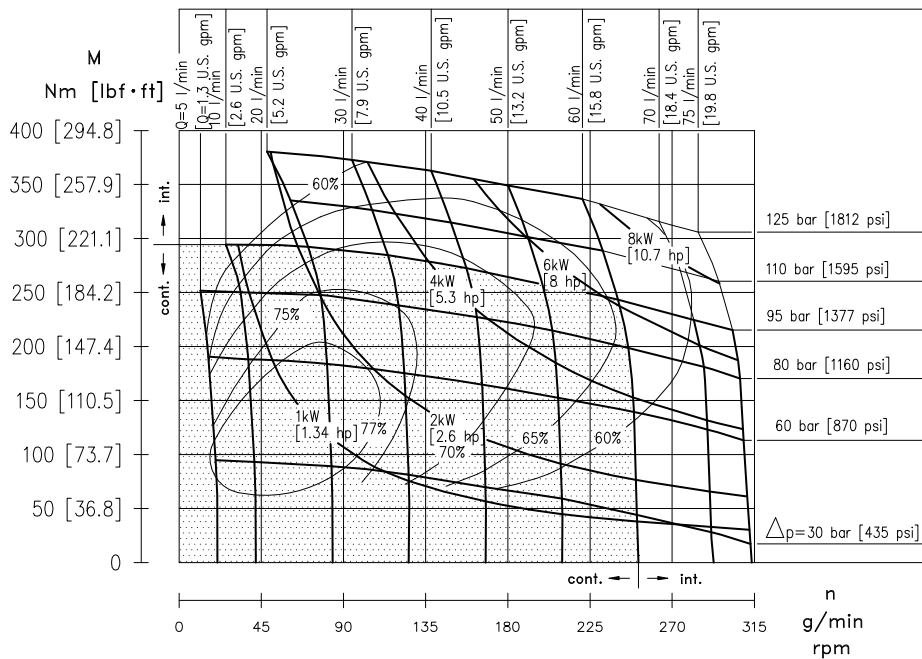
Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



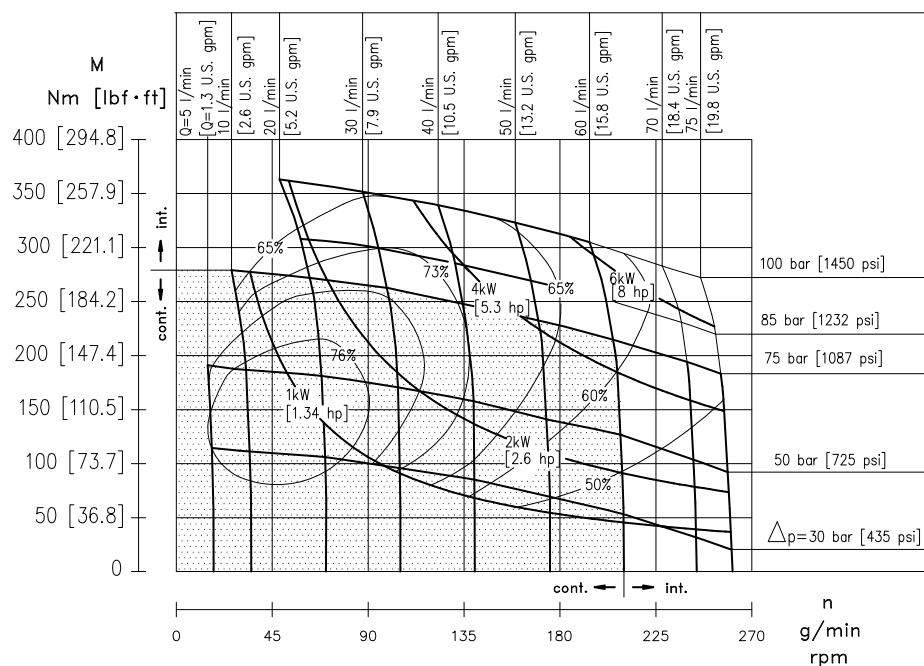
Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



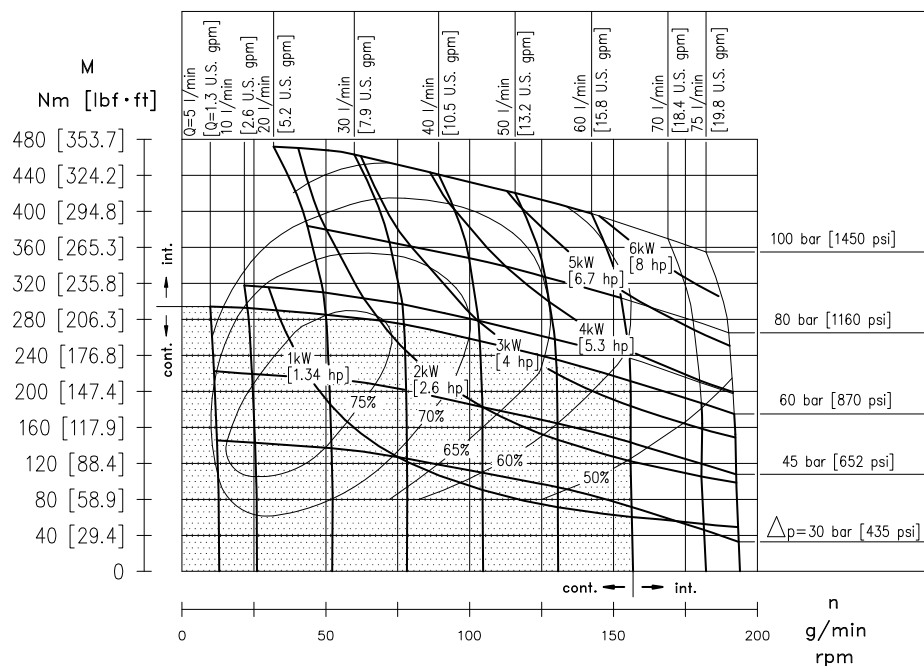
Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.



Pressioni e portate superiori a quelle ammesse in regime continuo non devono essere applicate contemporaneamente.

Exceeding continuous pressure values or exceeding flow values indicated, must not occur simultaneously.

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