

# POMPE MULTIPLE - MULTIPLE PUMPS

## COME ORDINARE - HOW TO ORDER

22V	P	Cilindrata Size 16/16/4	Rotazione Rotation	Bocche Ports	Albero Shaft	Flangia Flange	Pos. bocche Port position	Guarnizioni Seals	Opzioni Options
Serie Series	Pompa pump	3	<b>D</b> Destrosa CW	E0/E1/E2	T0	B0	-	-	-
		4	<b>S</b> Sinistrosa CCW	F0/F1	T1	B2		V	Y...
		6	<b>R</b> Revers.le Reversible	F2/F3/F4	G0	Q0		H	YE...
		8		L0/L1	G1	Q1		T	VR
		10		R0/R1/R2	C0	Q9		N	VRS
		12		U0/U1	C1	A0			Gx
		14			S0	Q2			E
		16			S1				F
		18							
		20							
		22							
		25							
		28							
		30							

### Posizione bocche - Port position

- Aspirazione laterale - Mandata laterale / *side Inlet - side Outlet*

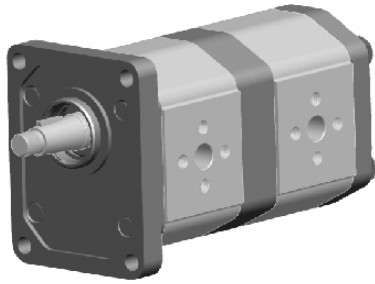
### Guarnizioni - Seals

- Buna (-10°C + 80°C) - Max pressione in Aspirazione 3 bar assoluti / *Inlet pressure up to 3 bar absolute*
- V** Viton (-10°C + 120°C) - Max pressione in Aspirazione 3 bar assoluti / *Inlet pressure up to 3 bar absolute*
- H** Silicon (-40°C + 80°C) - Max pressione in Aspirazione 3 bar assoluti / *Inlet pressure up to 3 bar absolute*
- T** Buna (-10°C + 80°C) - Max pressione in Aspirazione 6 bar assoluti / *Inlet pressure up to 6 bar absolute*
- N** Buna (-10°C + 80°C) - Max pressione in Aspirazione 10 bar assoluti / *Inlet pressure up to 10 bar absolute*

### Opzioni - Options

- Y...** Valvola di massima (...= campo 10-250 bar) con scarico in aspirazione - *Relief valve (...= range 10-250 bar) with discharge to suction*
- YE...** Valvola di massima (...= range 10-250 bar) con scarico esterno - *Relief valve (...= range 10-250 bar) with external discharge*
- VRxx** Regolatore di portata compensato a 3 vie ( **xx** = campo 2 - 30 l/min ) con eccesso ritornato in aspirazione  
*Flow compensated control valve 3-way ( xx = range 2 - 30 l/min ) with excess flow returned to suction*
- VRxx/xxx** Regolatore di portata compensato a 3 vie ( **xx** = campo 2-30 l/min ) con eccesso in aspirazione + valvola di massima ( **xxx** = campo 100-180 bar )  
*Flow control valve 3-way ( xx = range 2 - 30 l/min ) with excess flow returned to suction + relief valve ( xxx = range 100 - 180 bar )*
- Gx** Aspirazione unica ( **x** indicare il corpo 1-2 o 3 dove è collocata la bocca di aspirazione) - liquidi in comune  
*Common suction ( x indicate 1-2 or 3 corresponding to the body where suction is located) - common oil*
- E** Aspirazione separata - liquidi separate  
*Separated suction - separated oil*
- F** Aspirazione separata - liquidi in comune  
*Separated suction - common oil*

# 22VP../..D - E. T0 B0 - E



Profondità 13mm filetto M6, 17mm filetto M8

M6 thread depth 13, M8 thread depth 17mm

Assemblaggio con 4 tiranti da M10 coppia di serraggio 70 Nm

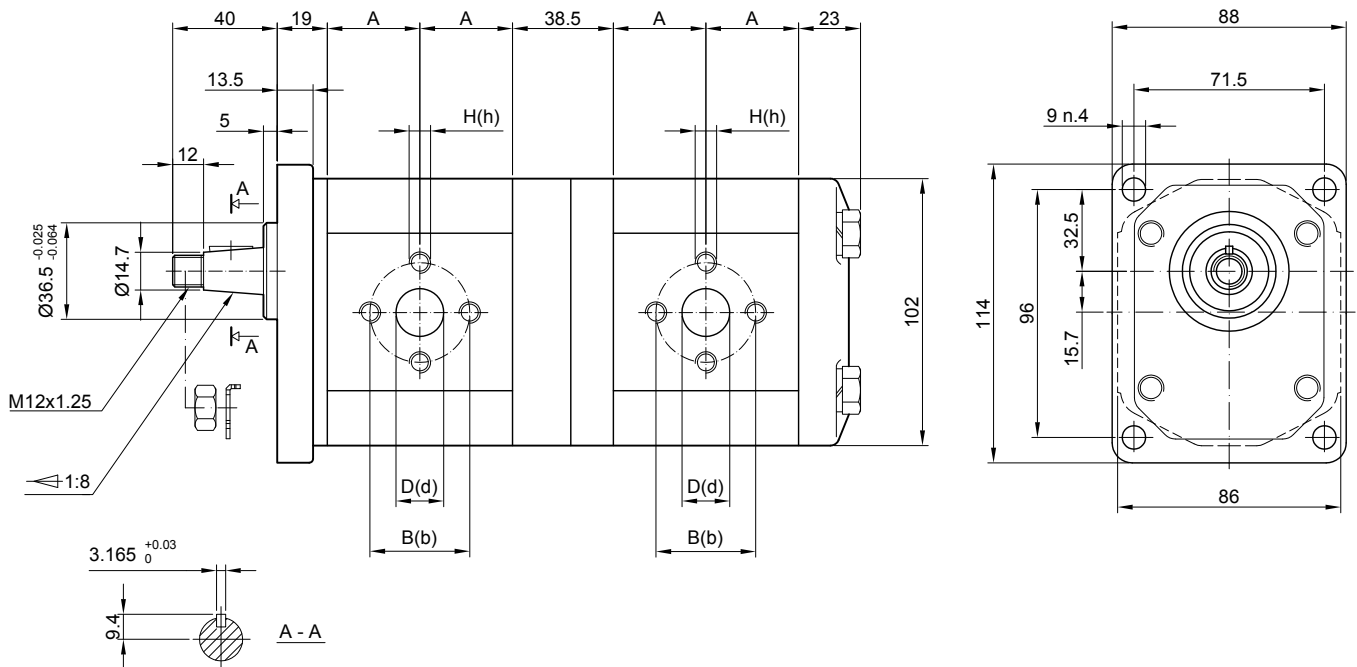
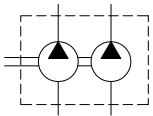
To mount the pump n.4 M10 screws, with a torque wrench settings fixed at 70 Nm

Filetto M12 x 1.25 su albero con coppia di serraggio 40 Nm

Shaft M12 x 1.25 nut, with a torque wrench settings fixed at 40 Nm

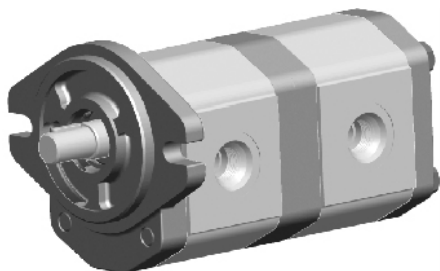
Flangia anteriore e coperchio posteriore in ghisa

Cast iron front flange and back cover



Cilindrata Displacement	Pressione massima Max pressure			Velocità Massima Max. speed	Velocità minima Min. speed	Dimensioni Dimensions		Aspirazione Inlet			Mandata Outlet	
	P1	P2	P3			A	B	D	H	b	d	h
(cm <sup>3</sup> /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm		mm	mm	
3	270	285	300	4000	800	24.5	30	13	M6	30	13	M6
4	270	285	300	4000	600	25.3	30	13	M6	30	13	M6
6	270	285	300	4000	600	27	30	13	M6	30	13	M6
8	270	285	300	3500	500	28.6	30	13	M6	30	13	M6
10	270	285	300	3000	500	30.3	40	20	M8	30	13	M6
12	270	285	300	3000	500	32	40	20	M8	30	13	M6
14	250	265	280	4000	500	33.6	40	20	M8	30	13	M6
16	250	265	280	4000	500	35.3	40	20	M8	30	13	M6
18	250	265	280	3600	400	37	40	20	M8	30	13	M6
20	220	235	250	3200	400	38.6	40	20	M8	30	13	M6
22	220	235	250	3000	400	40.3	40	20	M8	30	13	M6
25	200	215	230	3000	400	42.8	40	22	M8	30	13	M6
28	180	190	200	2500	400	45.3	40	22	M8	30	13	M6
30	160	170	180	2500	400	47	40	22	M8	30	13	M6

## 22VP../..D - U. C0 A0 - F



Bocche di aspirazione e mandata filettate SAE con tenuta O-ring (SAE J1926/1)

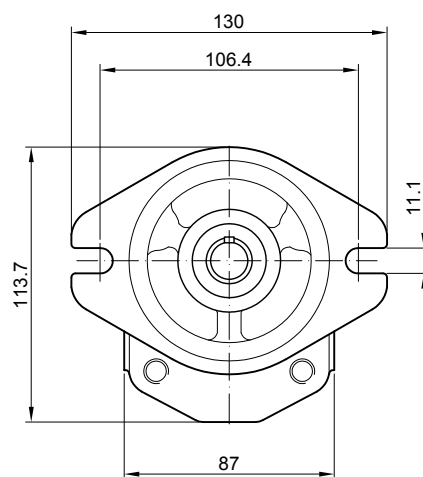
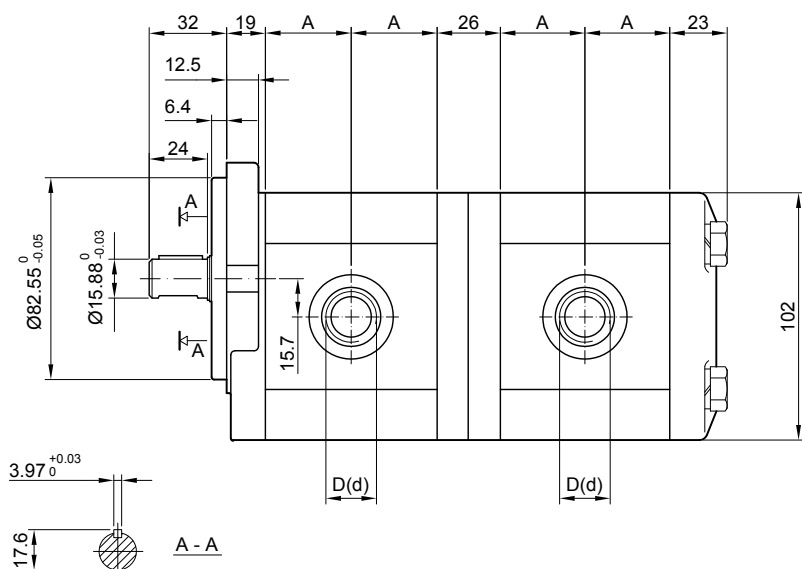
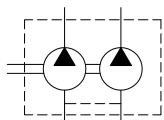
"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1

Assemblaggio con 4 tiranti da M10 coppia di serraggio 70 Nm

To mount the pump n.4 x M10 screws, with a torque wrench settings fixed at 70 Nm

Flangia anteriore e coperchio posteriore in ghisa

Cast iron front flange and back cover



Cilindrata Displacement	Pressione massima Max pressure			Velocità Massima Max. speed	Velocità minima Min. speed	Dimensioni Dimensions	Aspirazione Inlet	Mandata Outlet
	P1	P2	P3					
(cm <sup>3</sup> /rev)	bar	bar	bar	(r/min)	(r/min)	A	D	d
3	270	285	300	4000	800	24.5	1 1/16-12UNF	7/8-14UNF
4	270	285	300	4000	600	25.3	1 1/16-12UNF	7/8-14UNF
6	270	285	300	4000	600	27	1 1/16-12UNF	7/8-14UNF
8	270	285	300	3500	500	28.6	1 1/16-12UNF	7/8-14UNF
10	270	285	300	3000	500	30.3	1 1/16-12UNF	7/8-14UNF
12	270	285	300	3000	500	32	1 1/16-12UNF	7/8-14UNF
14	250	265	280	4000	500	33.6	1 1/16-12UNF	7/8-14UNF
16	250	265	280	4000	500	35.3	1 1/16-12UNF	7/8-14UNF
18	250	265	280	3600	400	37	1 1/16-12UNF	7/8-14UNF
20	220	235	250	3200	400	38.6	1 1/16-12UNF	7/8-14UNF
22	220	235	250	3000	400	40.3	1 1/16-12UNF	7/8-14UNF
25	200	215	230	3000	400	42.8	1 1/16-12UNF	7/8-14UNF
28	180	190	200	2500	400	45.3	1 1/16-12UNF	7/8-14UNF
30	160	170	180	2500	400	47	1 5/16-12UNF	7/8-14UNF





## 21VP.. / ... - L. TO B0 - E

Tipo Type	Cilindrata 1° Displacement 1st		Cilindrata 2° Displacement 2nd		Pressione Pressure			Dimensioni Dimensions		
	(cm <sup>3</sup> /rev)	(cm <sup>3</sup> /rev)	P1 (bar)	P2 (bar)	P3 (bar)	M mm	L mm	N mm		
21VP6/4.8...	6	4.8	27	28	30	177.5	84	46		
21VP6/5.8...	6	5.8	27	28	30	181.5	86	46		
21VP8/0.8...	8	0.8	27	28	30	166.3	78.5	47.7		
21VP8/1.1...	8	1.1	27	28	30	166.8	78.7	47.7		
21VP8/1.3...	8	1.3	27	28	30	167.8	79.2	47.7		
21VP8/1.6...	8	1.6	27	28	30	168.8	79.7	47.7		
21VP8/1.8...	8	1.8	27	28	30	169.8	80.2	47.7		
21VP8/2.1...	8	2.1	27	28	30	170.8	80.7	47.7		
21VP8/2.7...	8	2.7	27	28	30	172.8	81.7	47.7		
21VP8/3.2...	8	3.2	27	28	30	174.8	82.7	47.7		
21VP8/3.7...	8	3.7	27	28	30	176.8	83.7	47.7		
21VP8/4.2...	8	4.2	27	28	30	178.8	84.7	47.7		
21VP8/4.8...	8	4.8	27	28	30	180.8	85.7	47.7		
21VP8/5.8...	8	5.8	27	28	30	184.8	87.7	47.7		
21VP8/7...	8	7	27	28	30	188.8	89.7	47.7		
21VP8/8...	8	8	27	28	30	192.8	91.7	47.7		
21VP10/0.8...	10	0.8	27	28	30	169.6	80.1	49.3		
21VP10/1.1...	10	1.1	27	28	30	170.1	80.3	49.3		
21VP10/1.3...	10	1.3	27	28	30	171.1	80.8	49.3		
21VP10/1.6...	10	1.6	27	28	30	172.1	81.3	49.3		
21VP10/1.8...	10	1.8	27	28	30	173.1	81.8	49.3		
21VP10/2.1...	10	2.1	27	28	30	174.1	82.3	49.3		
21VP10/2.7...	10	2.7	27	28	30	176.1	83.3	49.3		
21VP10/3.2...	10	3.2	27	28	30	178.1	84.3	49.3		
21VP10/3.7...	10	3.7	27	28	30	180.1	85.3	49.3		
21VP10/4.2...	10	4.2	27	28	30	182.1	86.3	49.3		
21VP10/4.8...	10	4.8	27	28	30	184.1	87.3	49.3		
21VP10/5.8...	10	5.8	27	28	30	186.1	89.3	49.3		
21VP10/7...	10	7	27	28	30	192.1	91.3	49.3		
21VP10/8...	10	8	27	28	30	196.1	93.3	49.3		
21VP12/0.8...	12	0.8	27	28	30	172.9	81.8	51		
21VP12/1.1...	12	1.1	27	28	30	173.4	82	51		
21VP12/1.3...	12	1.3	27	28	30	174.4	82.5	51		
21VP12/1.6...	12	1.6	27	28	30	175.4	83	51		
21VP12/1.8...	12	1.8	27	28	30	176.4	83.5	51		
21VP12/2.1...	12	2.1	27	28	30	177.4	84	51		
21VP12/2.7...	12	2.7	27	28	30	179.4	85	51		
21VP12/3.2...	12	3.2	27	28	30	181.4	86	51		
21VP12/3.7...	12	3.7	27	28	30	183.4	87	51		
21VP12/4.2...	12	4.2	27	28	30	185.4	88	51		
21VP12/4.8...	12	4.8	27	28	30	187.4	89	51		
21VP12/5.8...	12	5.8	27	28	30	191.4	91	51		
21VP12/7...	12	7	27	28	30	195.4	93	51		
21VP12/8...	12	8	27	28	30	199.4	95	51		
21VP14/0.8...	14	0.8	25	26	28	176.3	83.5	52.7		
21VP14/1.1...	14	1.1	25	26	28	176.8	83.7	52.7		
21VP14/1.3...	14	1.3	25	26	28	177.8	84.2	52.7		
21VP14/1.6...	14	1.6	25	26	28	178.8	84.7	52.7		
21VP14/1.8...	14	1.8	25	26	28	179.8	85.2	52.7		
21VP14/2.1...	14	2.1	25	26	28	180.8	85.7	52.7		
21VP14/2.7...	14	2.7	25	26	28	182.8	86.7	52.7		
21VP14/3.2...	14	3.2	25	26	28	184.8	87.7	52.7		
21VP14/3.7...	14	3.7	25	26	28	186.8	88.7	52.7		
21VP14/4.2...	14	4.2	25	26	28	188.8	89.7	52.7		
21VP14/4.8...	14	4.8	25	26	28	190.8	90.7	52.7		
21VP14/5.8...	14	5.8	25	26	28	194.8	92.7	52.7		
21VP14/7...	14	7	25	26	28	198.8	94.7	52.7		
21VP14/8...	14	8	25	26	28	202.8	96.7	52.7		
21VP16/0.8...	16	0.8	25	26	28	179.7	85.2	54.4		
21VP16/1.1...	16	1.1	25	26	28	180.2	85.4	54.4		
21VP16/1.3...	16	1.3	25	26	28	181.2	85.9	54.4		
21VP16/1.6...	16	1.6	25	26	28	182.2	86.4	54.4		
21VP16/1.8...	16	1.8	25	26	28	183.2	86.9	54.4		
21VP16/2.1...	16	2.1	25	26	28	184.2	87.4	54.4		
21VP16/2.7...	16	2.7	25	26	28	186.2	88.4	54.4		

## 21VP.. / ... - L. T0 B0 - E

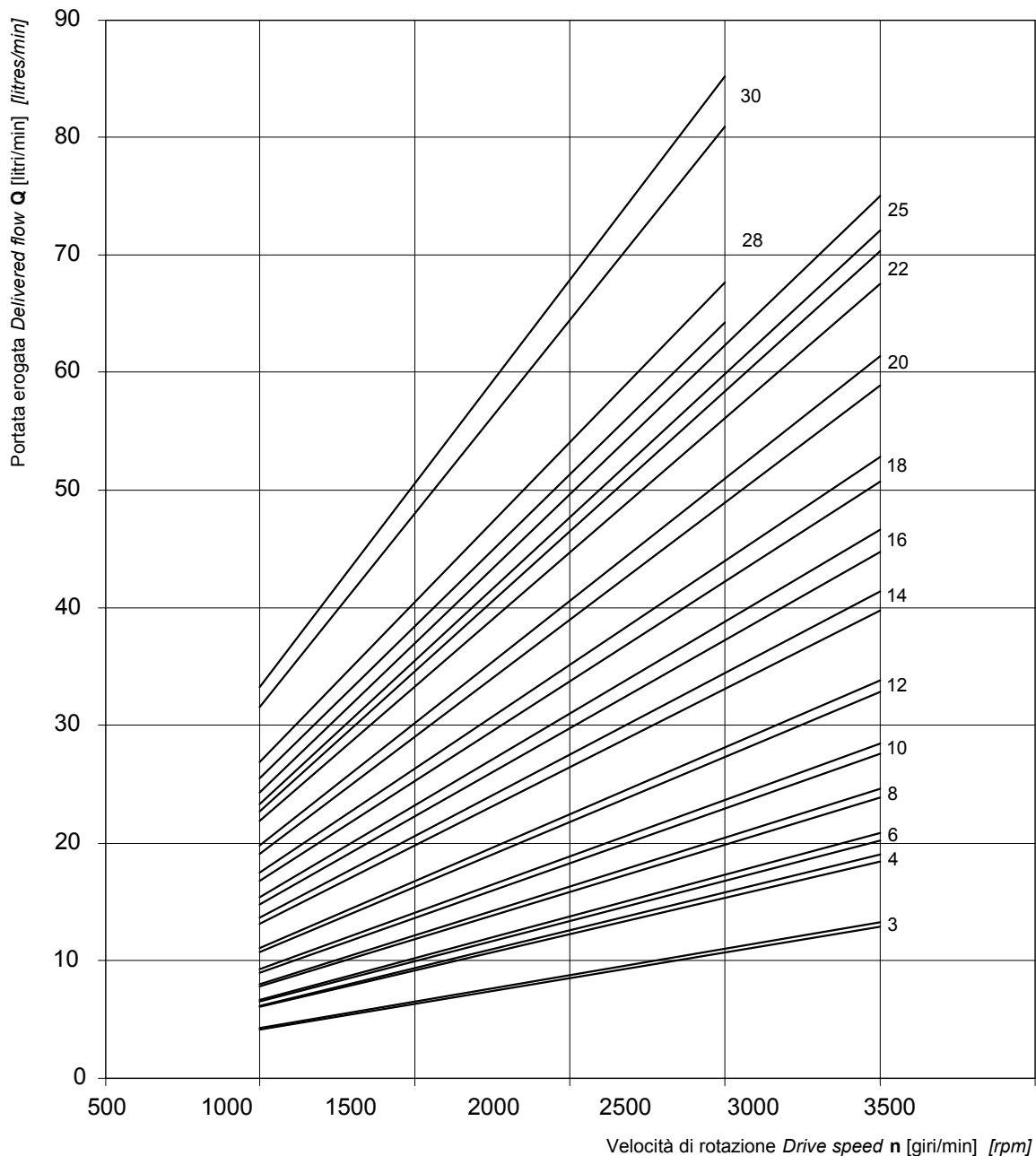
Tipo Type	Cilindrata 1° Displacement 1st		Cilindrata 2° Displacement 2nd		Pressione Pressure			Dimensioni Dimensions		
	(cm <sup>3</sup> /rev)	(cm <sup>3</sup> /rev)	P1 (bar)	P2 (bar)	P3 (bar)	M mm	L mm	N mm		
21VP16/3.2...	16	3.2	25	26	28	188.2	89.4	54.4		
21VP16/3.7...	16	3.7	25	26	28	190.2	90.4	54.4		
21VP16/4.2...	16	4.2	25	26	28	192.2	91.4	54.4		
21VP16/4.8...	16	4.8	25	26	28	194.2	92.4	54.4		
21VP16/5.8...	16	5.8	25	26	28	196.2	94.4	54.4		
21VP16/7...	16	7	25	26	28	202.2	96.4	54.4		
21VP16/8...	16	8	25	26	28	206.2	98.4	54.4		
21VP18/0.8...	18	0.8	25	26	28	183	86.8	56		
21VP18/1.1...	18	1.1	25	26	28	183.5	87	56		
21VP18/1.3...	18	1.3	25	26	28	184.5	87.5	56		
21VP18/1.6...	18	1.6	25	26	28	185.5	88	56		
21VP18/1.8...	18	1.8	25	26	28	186.5	88.5	56		
21VP18/2.1...	18	2.1	25	26	28	187.5	89	56		
21VP18/2.7...	18	2.7	25	26	28	189.5	90	56		
21VP18/3.2...	18	3.2	25	26	28	191.5	91	56		
21VP18/3.7...	18	3.7	25	26	28	193.5	92	56		
21VP18/4.2...	18	4.2	25	26	28	195.5	93	56		
21VP18/4.8...	18	4.8	25	26	28	197.5	94	56		
21VP18/5.8...	18	5.8	25	26	28	201.5	96	56		
21VP18/7...	18	7	25	26	28	205.5	98	56		
21VP18/8...	18	8	25	26	28	209.5	100	56		
21VP20/0.8...	20	0.8	22	23	25	186.3	88.5	57.7		
21VP20/1.1...	20	1.1	22	23	25	186.8	88.7	57.7		
21VP20/1.3...	20	1.3	22	23	25	187.8	89.2	57.7		
21VP20/1.6...	20	1.6	22	23	25	188.8	89.7	57.7		
21VP20/1.8...	20	1.8	22	23	25	189.8	90.2	57.7		
21VP20/2.1...	20	2.1	22	23	25	190.8	90.7	57.7		
21VP20/2.7...	20	2.7	22	23	25	192.8	91.7	57.7		
21VP20/3.2...	20	3.2	22	23	25	194.8	92.7	57.7		
21VP20/3.7...	20	3.7	22	23	25	196.8	93.7	57.7		
21VP20/4.2...	20	4.2	22	23	25	198.8	94.7	57.7		
21VP20/4.8...	20	4.8	22	23	25	200.8	95.7	57.7		
21VP20/5.8...	20	5.8	22	23	25	204.8	97.7	57.7		
21VP20/7...	20	7	22	23	25	206.8	99.7	57.7		
21VP20/8...	20	8	22	23	25	212.8	101.7	57.7		
21VP22/0.8...	22	0.8	22	23	25	189.6	90.1	59.3		
21VP22/1.1...	22	1.1	22	23	25	190.1	90.3	59.3		
21VP22/1.3...	22	1.3	22	23	25	191.1	90.8	59.3		
21VP22/1.6...	22	1.6	22	23	25	192.1	91.3	59.3		
21VP22/1.8...	22	1.8	22	23	25	193.1	91.8	59.3		
21VP22/2.1...	22	2.1	22	23	25	194.1	92.3	59.3		
21VP22/2.7...	22	2.7	22	23	25	196.1	93.3	59.3		
21VP22/3.2...	22	3.2	22	23	25	198.1	94.3	59.3		
21VP22/3.7...	22	3.7	22	23	25	200.1	95.3	59.3		
21VP22/4.2...	22	4.2	22	23	25	202.1	96.3	59.3		
21VP22/4.8...	22	4.8	22	23	25	204.1	97.3	59.3		
21VP22/5.8...	22	5.8	22	23	25	208.1	99.3	59.3		
21VP22/7...	22	7	22	23	25	212.1	101.3	59.3		
21VP22/8...	22	8	22	23	25	216.1	103.3	59.3		
21VP25/0.8...	25	0.8	20	21	23	194.6	92.6	61.8		
21VP25/1.1...	25	1.1	20	21	23	195.1	92.8	61.8		
21VP25/1.3...	25	1.3	20	21	23	196.1	93.3	61.8		
21VP25/1.6...	25	1.6	20	21	23	197.1	93.8	61.8		
21VP25/1.8...	25	1.8	20	21	23	198.1	94.3	61.8		
21VP25/2.1...	25	2.1	20	21	23	199.1	94.8	61.8		
21VP25/2.7...	25	2.7	20	21	23	201.1	95.8	61.8		
21VP25/3.2...	25	3.2	20	21	23	203.1	96.8	61.8		
21VP25/3.7...	25	3.7	20	21	23	205.1	97.8	61.8		
21VP25/4.2...	25	4.2	20	21	23	207.1	98.8	61.8		
21VP25/4.8...	25	4.8	20	21	23	209.1	99.8	61.8		
21VP25/5.8...	25	5.8	20	21	23	213.1	101.8	61.8		
21VP25/7...	25	7	20	21	23	217.1	103.8	61.8		
21VP25/8...	25	8	20	21	23	221.1	105.8	61.8		
21VP28/0.8...	28	0.8	18	19	20	199.6	95.1	64.3		
21VP28/1.1...	28	1.1	18	19	20	200.1	95.3	64.3		

## 21VP.. / ... - L. T0 B0 - E

Tipo Type	Cilindrata 1° Displacement 1st		Cilindrata 2° Displacement 2nd		Pressione Pressure			Dimensioni Dimensions		
	(cm <sup>3</sup> /rev)	(cm <sup>3</sup> /rev)	P1 (bar)	P2 (bar)	P3 (bar)	M mm	L mm	N mm		
21VP28/1.3...	28	1.3	18	19	20	201.1	95.8	64.3		
21VP28/1.6...	28	1.6	18	19	20	202.1	96.3	64.3		
21VP28/1.8...	28	1.8	18	19	20	203.1	96.8	64.3		
21VP28/2.1...	28	2.1	18	19	20	204.1	97.3	64.3		
21VP28/2.7...	28	2.7	18	19	20	206.1	98.3	64.3		
21VP28/3.2...	28	3.2	18	19	20	208.1	99.3	64.3		
21VP28/3.7...	28	3.7	18	19	20	210.1	100.3	64.3		
21VP28/4.2...	28	4.2	18	19	20	212.1	101.3	64.3		
21VP28/4.8...	28	4.8	18	19	20	214.1	102.3	64.3		
21VP28/5.8...	28	5.8	18	19	20	218.1	104.3	64.3		
21VP28/7...	28	7	18	19	20	222.1	106.3	64.3		
21VP28/8...	28	8	18	19	20	226.1	108.3	64.3		
21VP30/0.8...	30	0.8	16	17	18	202.9	96.8	66		
21VP30/1.1...	30	1.1	16	17	18	203.4	97	66		
21VP30/1.3...	30	1.3	16	17	18	204.4	97.5	66		
21VP30/1.6...	30	1.6	16	17	18	205.4	98	66		
21VP30/1.8...	30	1.8	16	17	18	206.4	98.5	66		
21VP30/2.1...	30	2.1	16	17	18	207.4	99	66		
21VP30/2.7...	30	2.7	16	17	18	209.4	100	66		
21VP30/3.2...	30	3.2	16	17	18	211.4	101	66		
21VP30/3.7...	30	3.7	16	17	18	213.4	102	66		
21VP30/4.2...	30	4.2	16	17	18	215.4	103	66		
21VP30/4.8...	30	4.8	16	17	18	217.4	104	66		
21VP30/5.8...	30	5.8	16	17	18	221.4	106	66		
21VP30/7...	30	7	16	17	18	225.4	108	66		
21VP30/8...	30	8	16	17	18	229.4	110	66		

# SERIE 2VP - 2VP SERIES

## 2VP CURVE CARATTERISTICHE / 2VP PERFORMANCE CURVES



Le curve sono state ottenute alla temperatura di 50°C, utilizzando olio con viscosità 30 cSt alle pressioni sotto riportate.

Each curve has been obtained at 50°C, using oil with viscosity 30 cSt at these pressure.

3 |  
 4 |— 25-250 bar  
 6 |  
 8 |  
 10 |— 25-240 bar

14 |  
 16 |— 25-220 bar  
 18 |— 25-210 bar  
 22 |— 25-190 bar

25 |— 25-170 bar  
 28 |— 25-160 bar  
 30 |— 25-130 bar

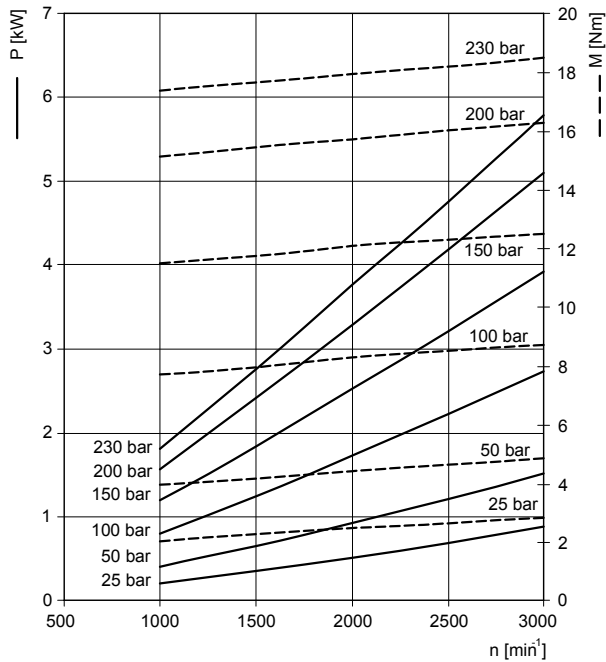


# SERIE 2VP - 2VP SERIES

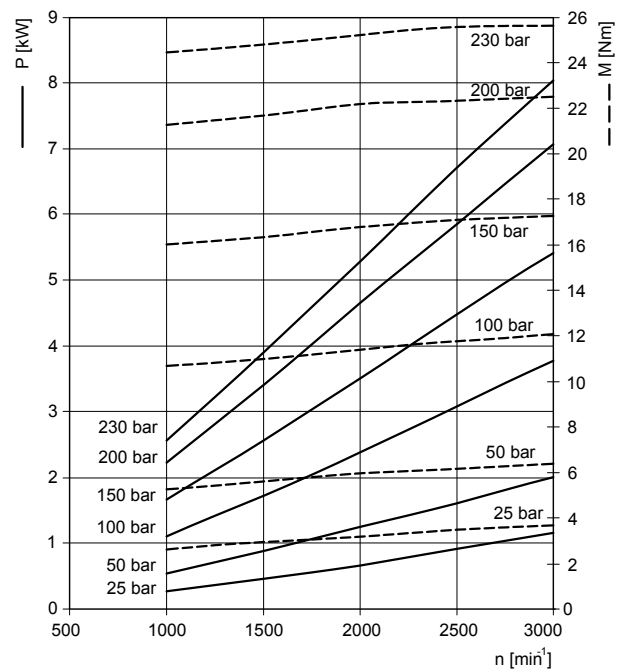
## CURVE CARATTERISTICHE / PERFORMANCE CURVES

Potenza assorbita - Absorbed power **P** [kW]  
 Momento torcente assorbito - Absorbed torque **M** [Nm]  
 Velocità di rotazione - Drive speed **n** [giri/min] [rpm]

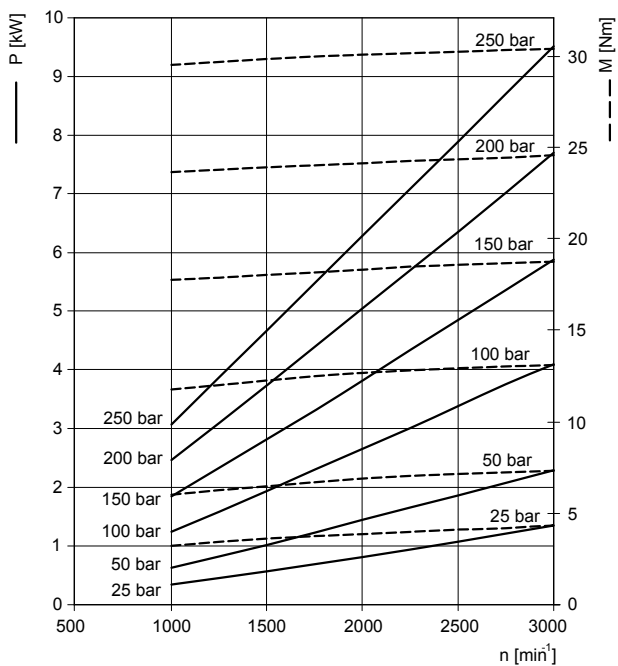
**2VP 3**



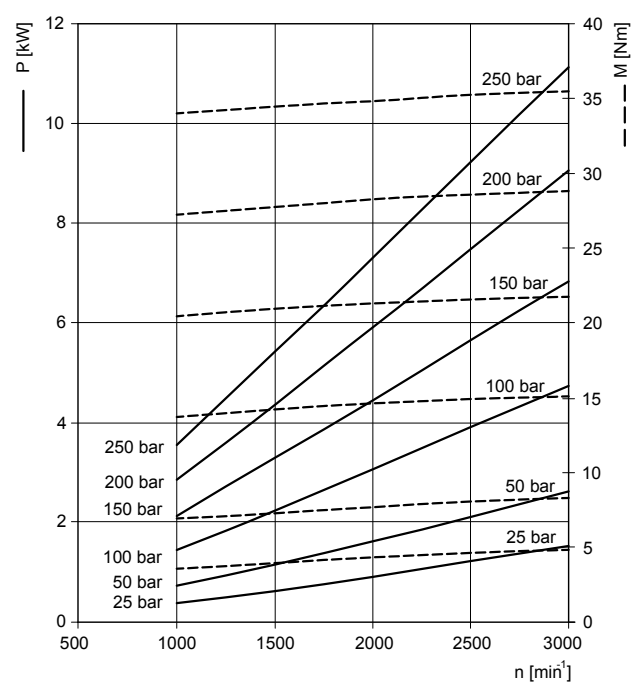
**2VP 4**



**2VP 6**



**2VP 8**



# SERIE 2VP - 2VP SERIES

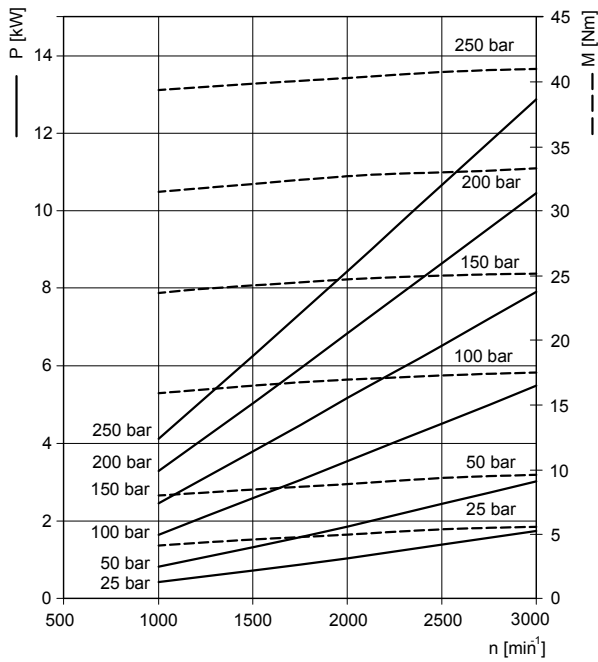
## CURVE CARATTERISTICHE / PERFORMANCE CURVES

Potenza assorbita - Absorbed power **P** [kW]

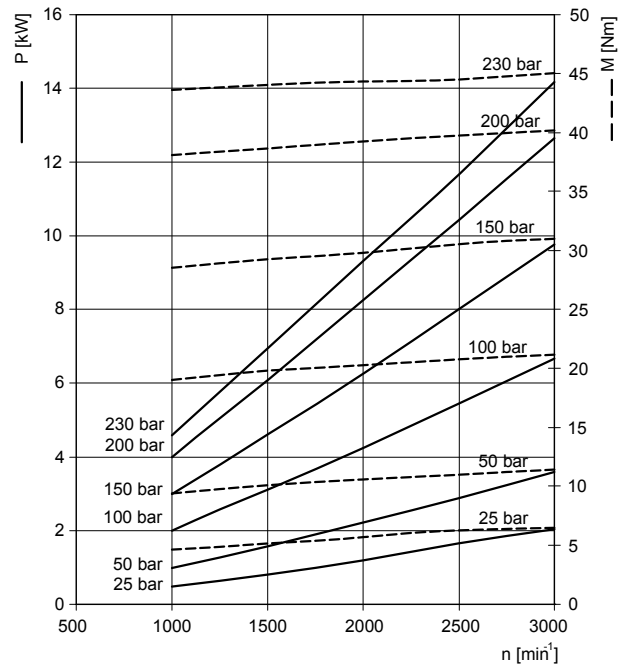
Momento torcente assorbito - Absorbed torque **M** [Nm]

Velocità di rotazione - Drive speed **n** [giri/min] [rpm]

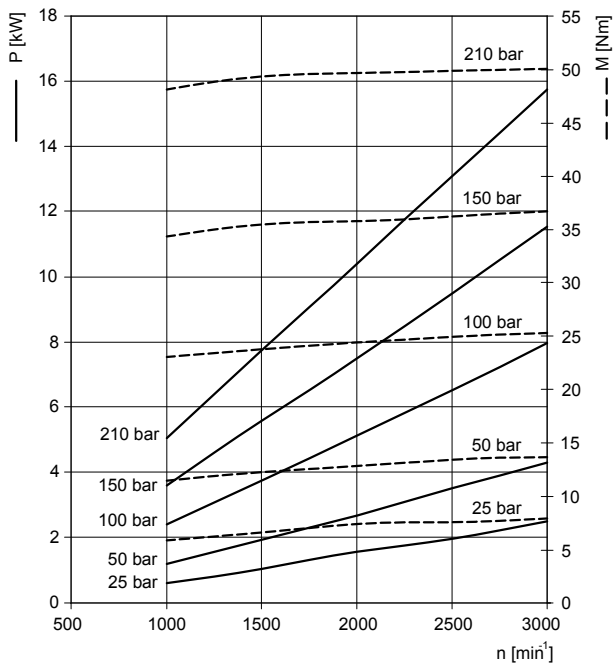
**2VP 10**



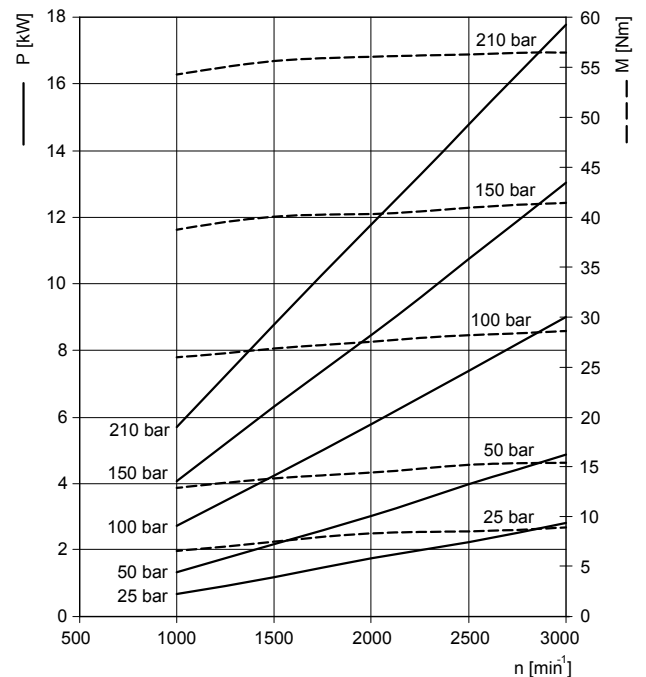
**2VP 12**



**2VP 14**



**2VP 16**



# SERIE 2VP - 2VP SERIES

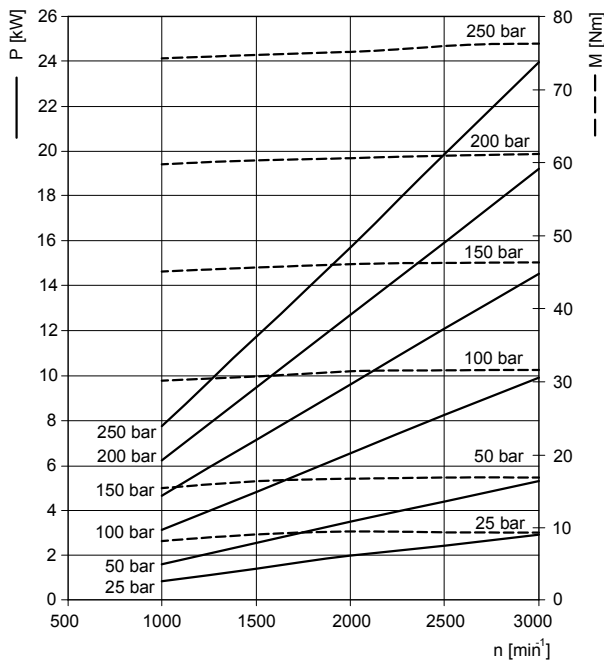
## CURVE CARATTERISTICHE / PERFORMANCE CURVES

Potenza assorbita - Absorbed power **P** [kW]

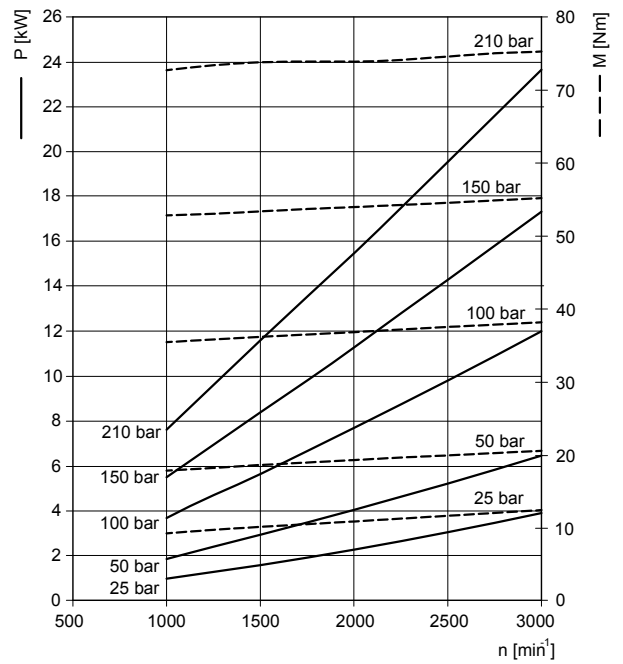
Momento torcente assorbito - Absorbed torque **M** [Nm]

Velocità di rotazione - Drive speed **n** [giri/min] [rpm]

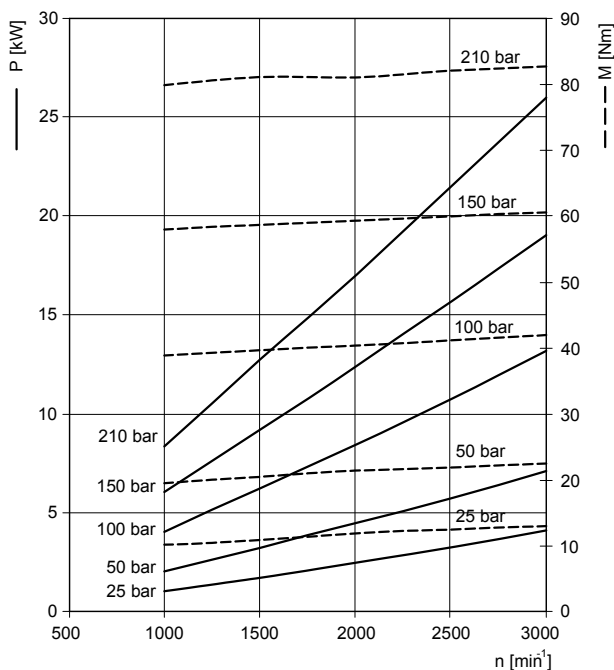
### 2VP 18



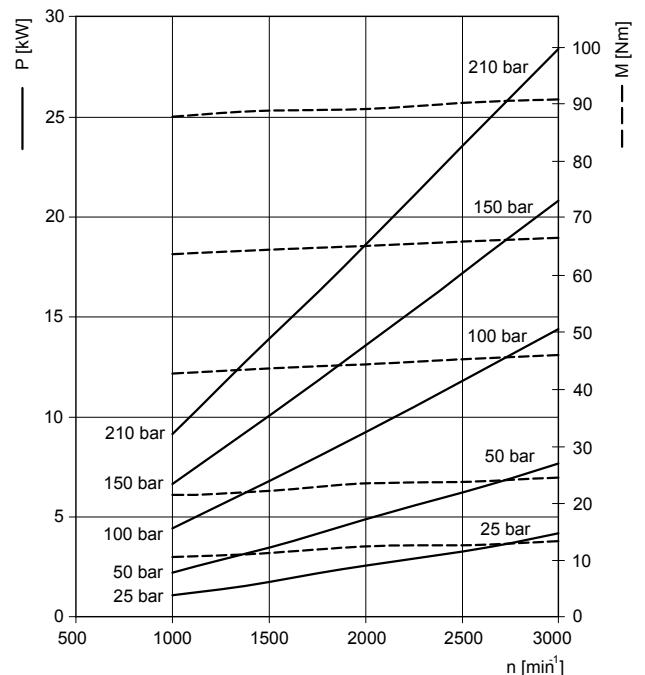
### 2VP 20



### 2VP 22



### 2VP 25

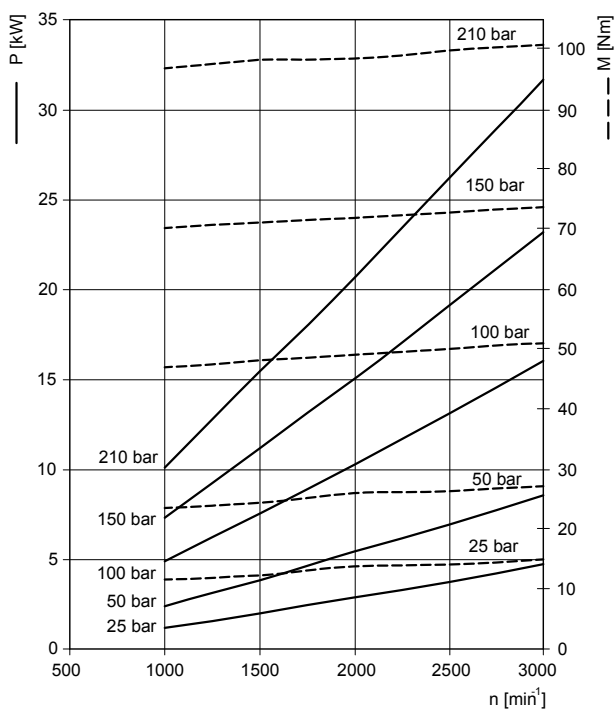


# SERIE 2VP - 2VP SERIES

## CURVE CARATTERISTICHE / PERFORMANCE CURVES

Potenza assorbita - Absorbed power **P** [kW]  
 Momento torcente assorbito - Absorbed torque **M** [Nm]  
 Velocità di rotazione - Drive speed **n** [giri/min] [rpm]

**2VP 28**



**2VP 30**

