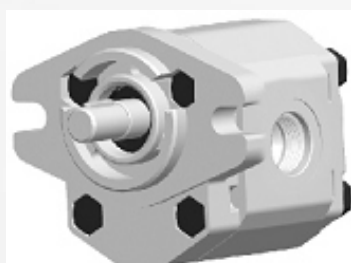
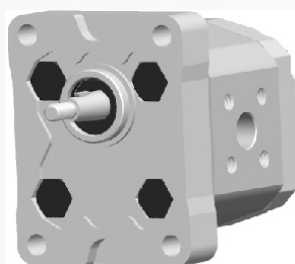


GEAR PUMPS “E” SERIES

GROUP 1

GROUP 1,6

Technical catalogue



EI.38.1209.02.00

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=

salam  TM

COME ORDINARE - HOW TO ORDER

1	PE	Cilindrata Size	Rotazione Rotation	Bocche Ports	Albero Shaft	Flangia Flange	Pos. bocche Port position	Guarnizioni Seals	Opzioni Options
---	---	---	---	---	---	---	---	---	---
Serie Series	Pompa Pump	0.8	D Destrosa CW	G	18	B7	-	-	-
		1.1	S Sinistrosa CCW	M	06	B8	A	V	
		1.3	R Revers.le Reversible	B		B0	B	H	
		1.6		P		P0	C	T	
		1.8		GA*			D	N	
		2.1		GC*					
		2.7		GD*					
		3.2		R0					
		3.7							
		4.2							
		4.8							
		5.8							

Posizione bocche - Port position

- Aspirazione laterale - Mandata laterale / *side Inlet - side Outlet*
- A** Aspirazione posteriore - Mandata frontale / *back Inlet - front Outlet (GC* - GA*)*
- B** Aspirazione posteriore - Mandata laterale / *back Inlet - side Outlet*
- C** Aspirazione laterale - Mandata frontale / *side Inlet - front Outlet (GC* - GA*)*
- D** Aspirazione e Mandata posteriore / *back Inlet - back 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*

* Available for quantity

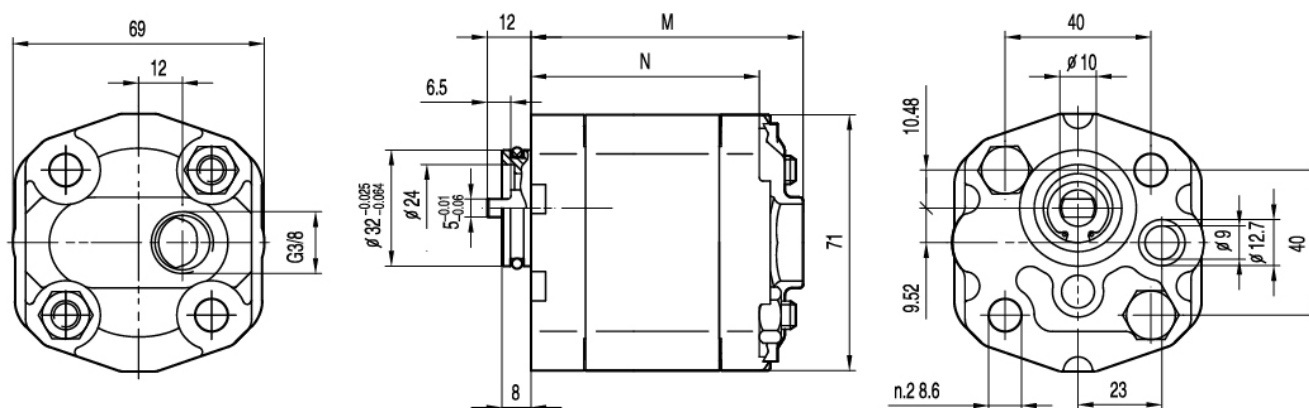
1PE – GC.06.B8-A

Aspirazione posteriore da 3/8" BSPP profondità utile 12 mm	End cover 3/8"BSPP thread depth 12 mm
Assemblaggio con 2 tiranti da M8 coppia di serraggio 27 ± 3 Nm	To mount the pump n.2xM8 screws with a torque wrench settings fixed at 27 ± 3 Nm



MANDATA
OUTLET

ASPIRAZIONE
INLET



Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

Tipo Type	Cilindrata Displacement (cm³/rev)	Pressione massima Max pressure			Velocità massima Max. speed (r/min)	Velocità minima Min. speed (r/min)	Dimensioni Dimensions	
		P1 bar	P2 bar	P3 bar			M mm	N mm
1PE 0.8	0.8	230	250	270	6000	1000	73.5	61.5
1PE 1.1	1.1	230	250	270	6000	1000	74	62
1PE 1.3	1.3	230	250	270	6000	1000	75	63
1PE 1.6	1.6	230	250	270	6000	1000	76	64
1PE 1.8	1.8	230	250	270	6000	1000	77	65
1PE 2.1	2.1	230	250	270	6000	1000	78	66
1PE 2.7	2.7	230	250	270	6000	800	80	68
1PE 3.2	3.2	210	230	250	5000	800	82	70
1PE 3.7	3.7	210	230	250	4500	800	84	72
1PE 4.2	4.2	210	230	250	4000	800	86	74
1PE 4.8	4.8	190	210	230	3500	600	88	76
1PE 5.8	5.8	190	210	230	3000	600	92	80



1PE – B.06.B0

Filetti M6 profondità utile 12 mm

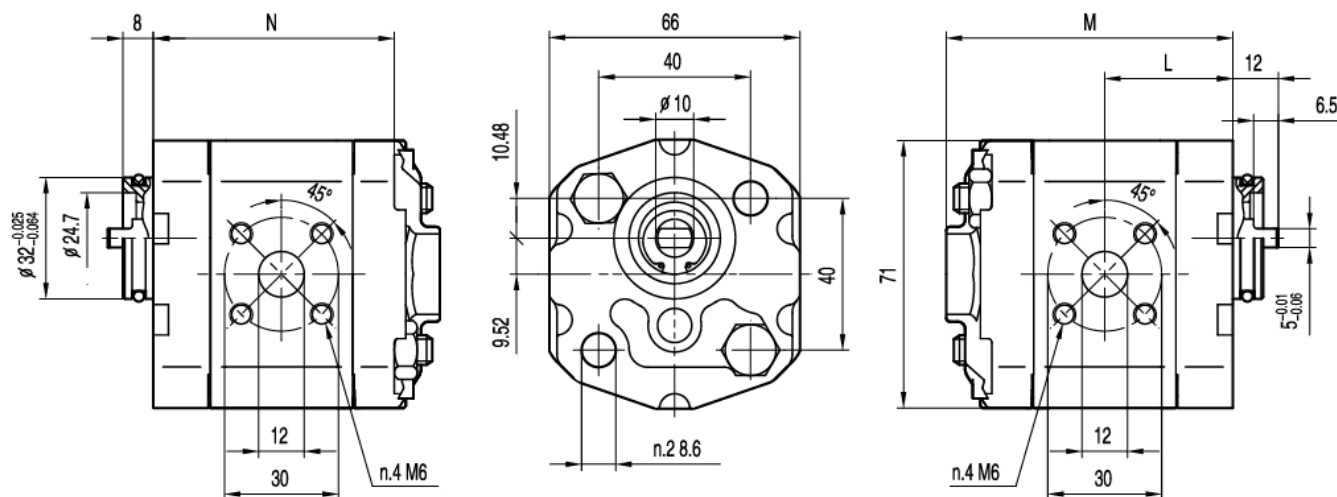
Assemblaggio con 2 tiranti da M8 coppia di serraggio 27 ± 3 Nm

M6 threads depth 12 mm

To mount the pump n.2 x M8 screws with a torque wrench settings fixed at 27 ± 3 Nm

**MANDATA
OUTLET**

**ASPIRAZIONE
INLET**

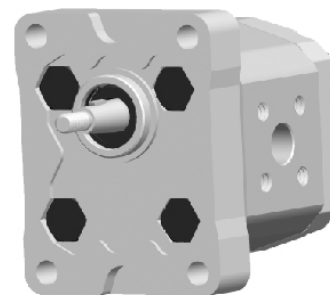


Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

Tipo Type	Cilindrata Displacement	Pressione massima Max pressure			Velocità massima Max. speed	Velocità minima Min. speed	Dimensioni Dimensions		
		P1	P2	P3			M	N	L
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
1PE 0.8	0.8	230	250	270	6000	1000	73.5	61.5	32.8
1PE 1.1	1.1	230	250	270	6000	1000	74	62	33
1PE 1.3	1.3	230	250	270	6000	1000	75	63	33.5
1PE 1.6	1.6	230	250	270	6000	1000	76	64	34
1PE 1.8	1.8	230	250	270	6000	1000	77	65	34.5
1PE 2.1	2.1	230	250	270	6000	1000	78	66	35
1PE 2.7	2.7	230	250	270	6000	800	80	68	36
1PE 3.2	3.2	210	230	250	5000	800	82	70	37
1PE 3.7	3.7	210	230	250	4500	800	84	72	38
1PE 4.2	4.2	210	230	250	4000	800	86	74	39
1PE 4.8	4.8	190	210	230	3500	600	88	76	40
1PE 5.8	5.8	190	210	230	3000	600	92	80	42

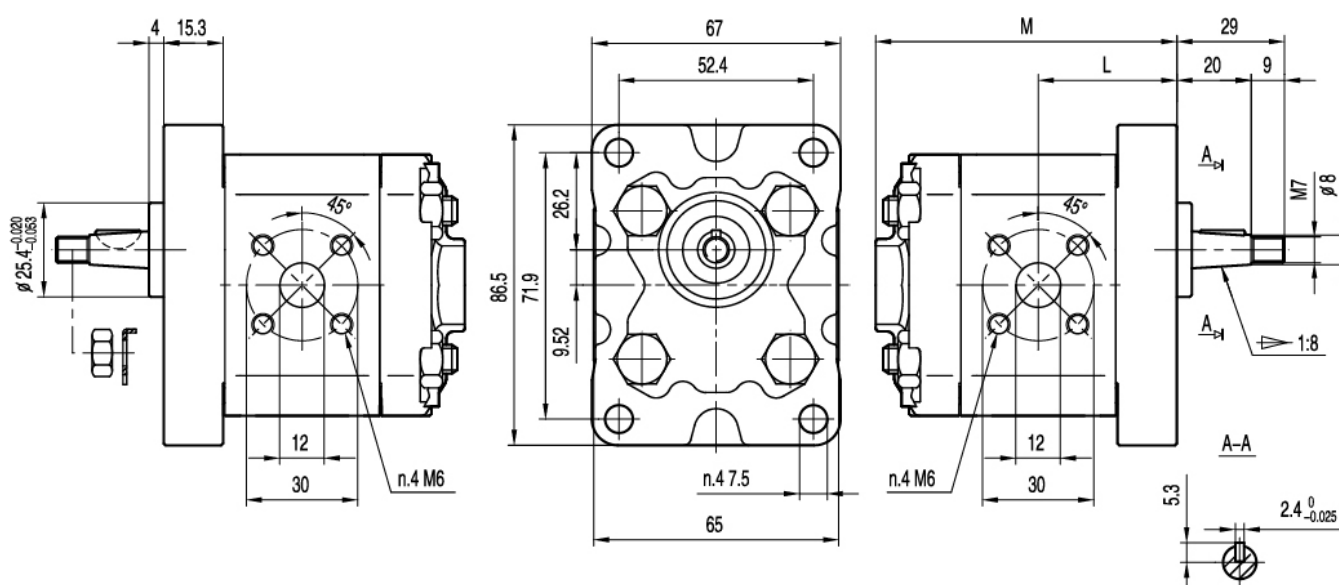
1PE – B.18.P0

Filetto M6 profondità 12 mm	M6 thread depth 12 mm
Assemblaggio con 4 tiranti da M8 coppia di serraggio 27 ± 3 Nm	To mount the pump n.4 x M8 screws with a torque wrench settings fixed at 27 ± 3 Nm
Filetto M7 su albero con coppia di serraggio 8 Nm	Shaft M7 nut, with a torque wrench settings fixed at 8 Nm



**MANDATA
OUTLET**

**ASPIRAZIONE
INLET**

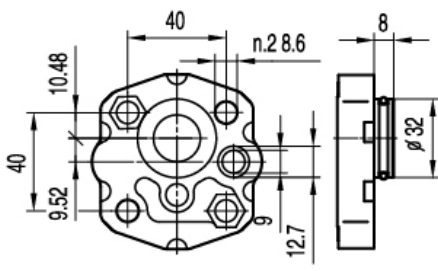
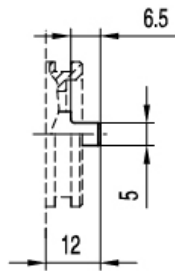
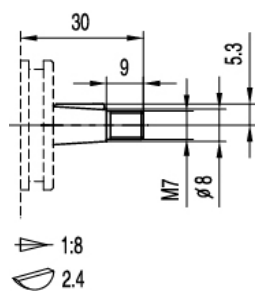
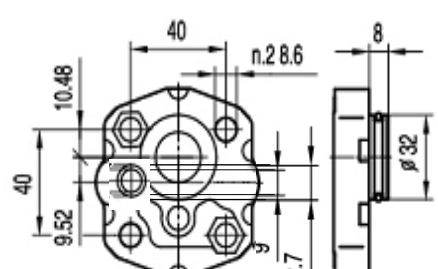
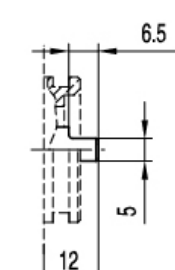
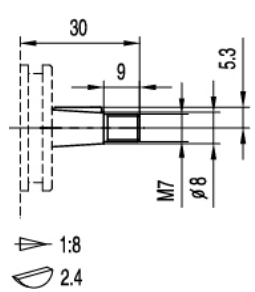
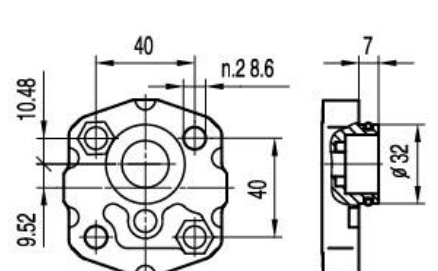
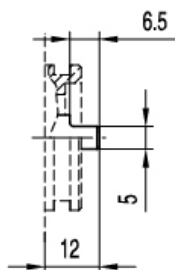
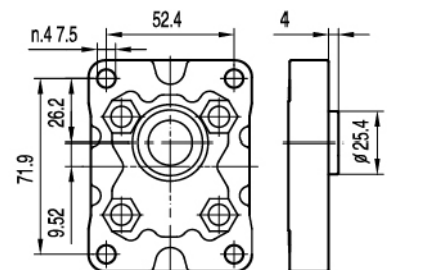
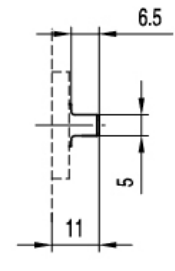
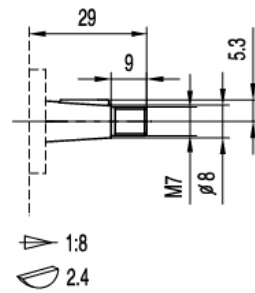


Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

Tipo Type	Cilindrata Displacement (cm³/rev)	Pressione massima Max pressure			Velocità massima Max. speed (r/min)	Velocità minima Min. speed (r/min)	Dimensioni Dimensions	
		P1 bar	P2 bar	P3 bar			M mm	L mm
1PE 0.8	0.8	230	250	270	6000	1000	73.5	32.8
1PE 1.1	1.1	230	250	270	6000	1000	74	33
1PE 1.3	1.3	230	250	270	6000	1000	75	33.5
1PE 1.6	1.6	230	250	270	6000	1000	76	34
1PE 1.8	1.8	230	250	270	6000	1000	77	34.5
1PE 2.1	2.1	230	250	270	6000	1000	78	35
1PE 2.7	2.7	230	250	270	6000	800	80	36
1PE 3.2	3.2	210	230	250	5000	800	82	37
1PE 3.7	3.7	210	230	250	4500	800	84	38
1PE 4.2	4.2	210	230	250	4000	800	86	39
1PE 4.8	4.8	190	210	230	3500	600	88	40
1PE 5.8	5.8	190	210	230	3000	600	92	42

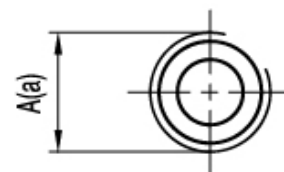
FLANGE / FRONT COVERS

ALBERI / SHAFTS

 Only for pump DX B8	 06 Coppia max 20 Nm Max. torque 20 Nm	 18 Coppia max 25 Nm Max. torque 25 Nm
 Only for pump SX B7	 06 Coppia max 20 Nm Max. torque 20 Nm	 18 Coppia max 25 Nm Max. torque 25 Nm
 B0	 06 Coppia max 20 Nm Max. torque 20 Nm	
 P0	 06 Coppia max 20 Nm Max. torque 20 Nm	 18 Coppia max 25 Nm Max. torque 25 Nm

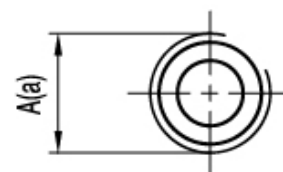
BOCCHE / PORTS

Tipo Type	Aspirazione Inlet	Mandata Outlet
	A	a
1PE0.8 ÷ 8	G3/8	G3/8



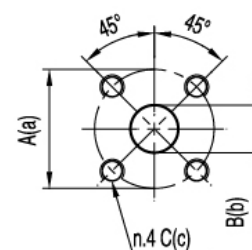
G

Tipo Type	Aspirazione Inlet	Mandata Outlet
	A	a
1PE0.8 ÷ 8	M18x1.5	M14x1.5



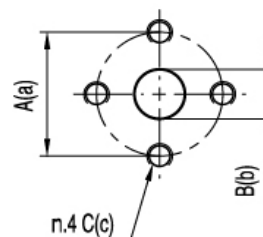
M

Tipo Type	Aspirazione Inlet			Mandata Outlet		
	A	B	C	a	b	c
1PE0.8 ÷ 8	30	12	M6	30	12	M6



B

Tipo Type	Aspirazione Inlet			Mandata Outlet		
	A	B	C	a	b	c
1PE0.8 ÷ 8	30	12	M6	30	12	M6



P

BOCCHE / PORTS



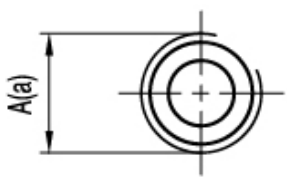
Port positions A or C**GA***

Tipo Type	Aspirazione Inlet	Mandata Outlet
	A	a
1PE 0.8 ÷ 8	G1/4	Ø9



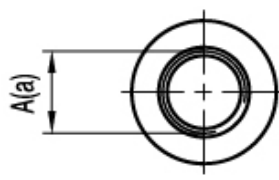
Port positions A or C**GC***

Tipo Type	Aspirazione Inlet	Mandata Outlet
	A	a
1PE 0.8 ÷ 8	G3/8	Ø9



GD*

Tipo Type	Aspirazione Inlet	Mandata Outlet
	A	a
1PE 0.8 ÷ 8	G3/8	G1/4

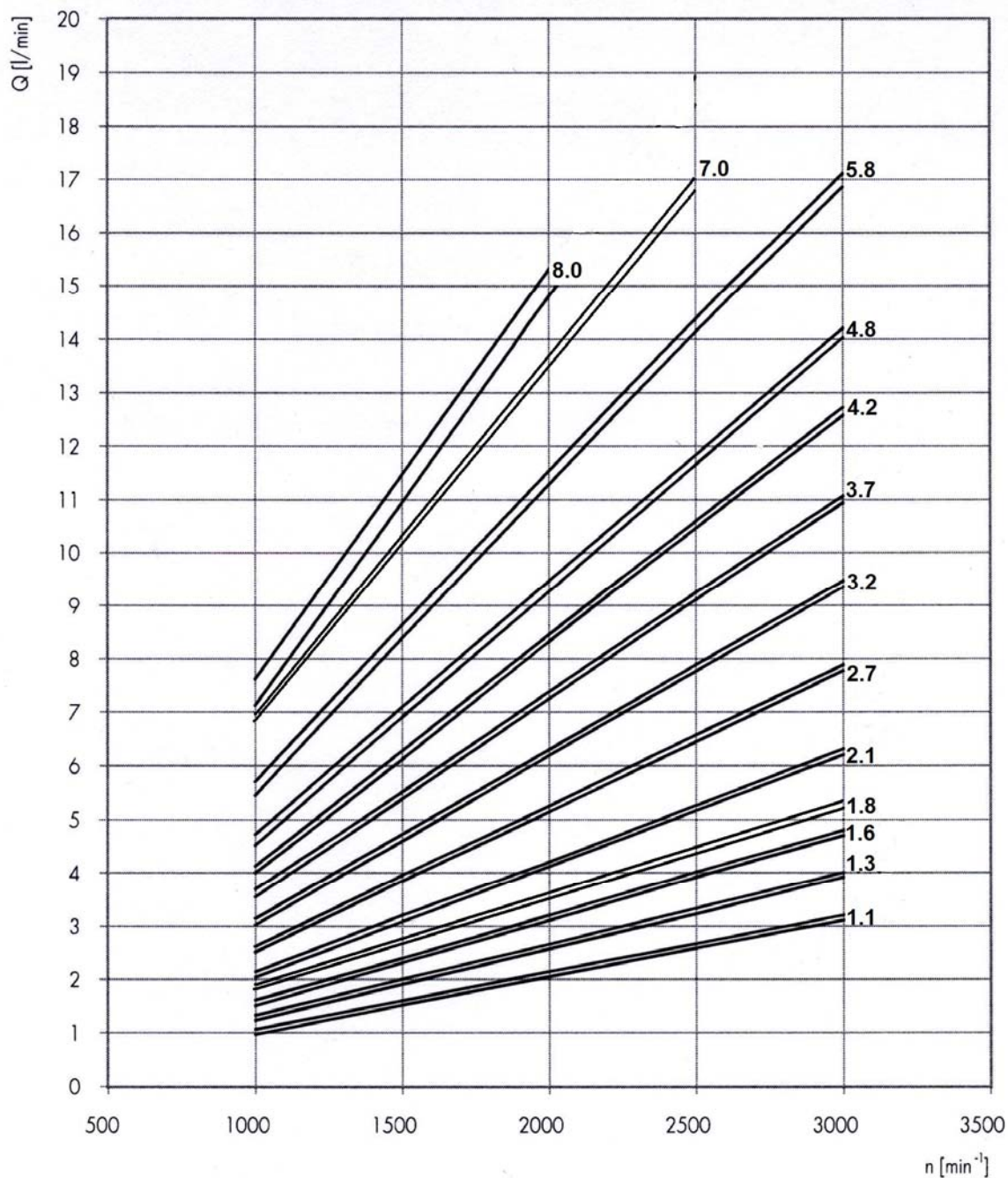


R0

Tipo Type	Codice bocca Port code	Aspirazione Inlet	Mandata Outlet
		A	a
1PE 0.8 ÷ 5.8	R0	3/4-16UNF	9/16-18UNF

* Available for quantity

1PE CURVE CARATTERISTICHE / 1PE 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.

1.1
1.3
1.6
2.1
2.7

25-230 bar

3.2
3.7
4.2

25-210 bar

4.8
5.8

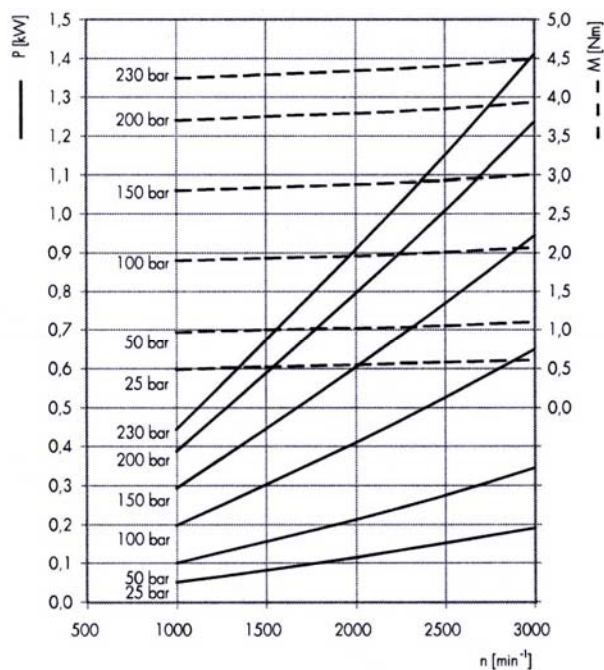
25-190 bar

8.0 | 25-140 bar

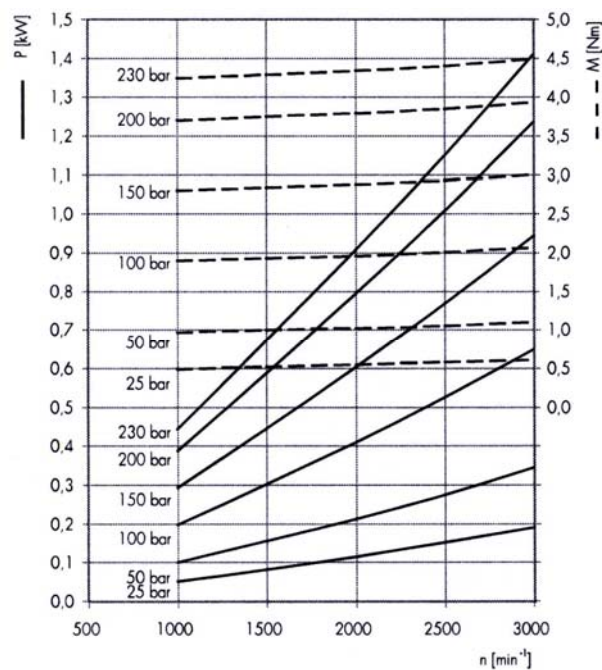
1PE CURVE CARATTERISTICHE / 1PE PERFORMANCE CURVES

Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

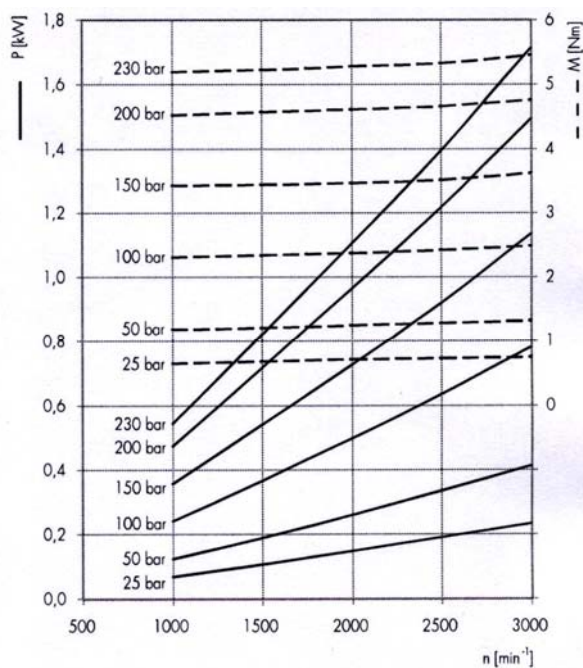
1PE 0.8



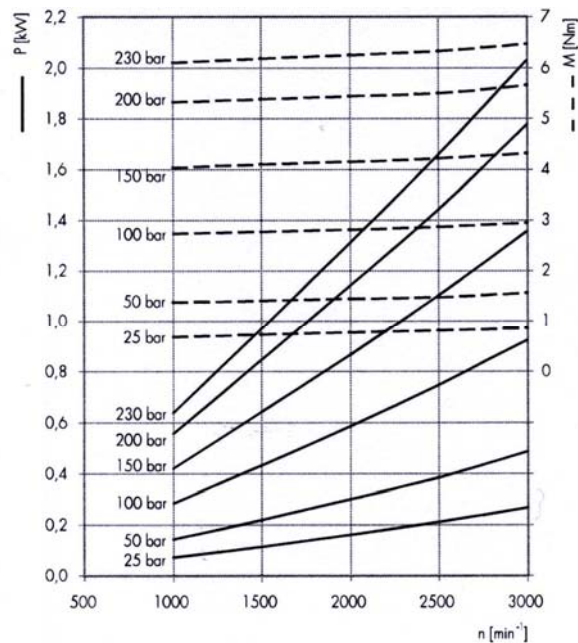
1PE 1.1



1PE 1.3



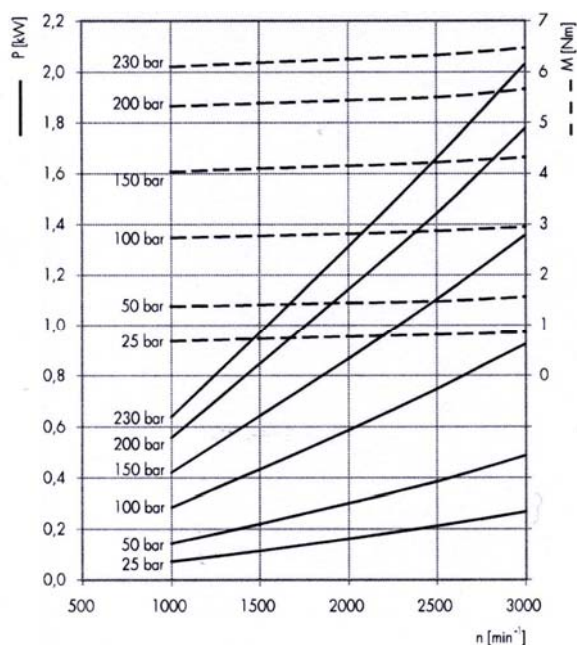
1PE 1.6



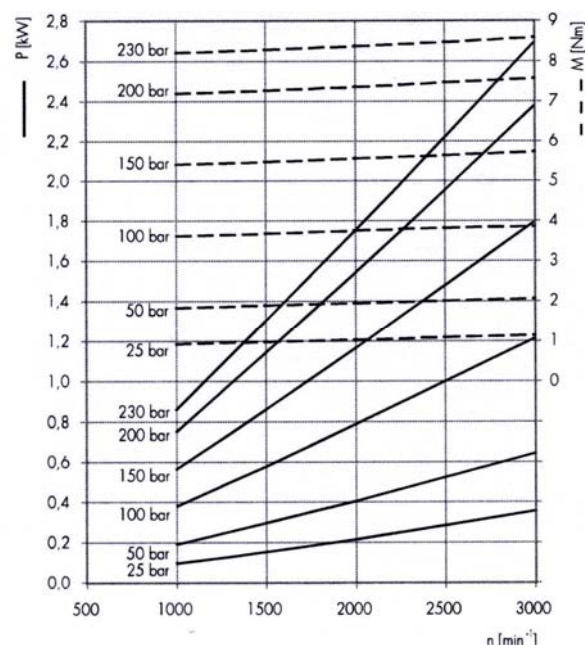
1PE CURVE CARATTERISTICHE / 1PE PERFORMANCE CURVES

Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

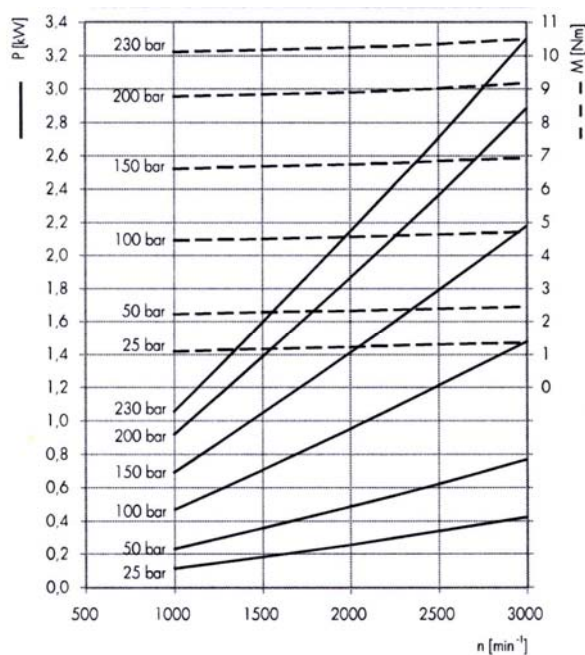
1PE 1.8



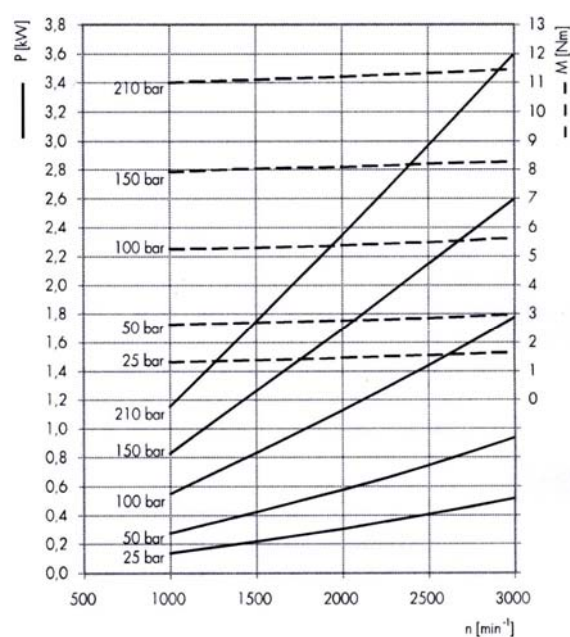
1PE 2.1



1PE 2.7



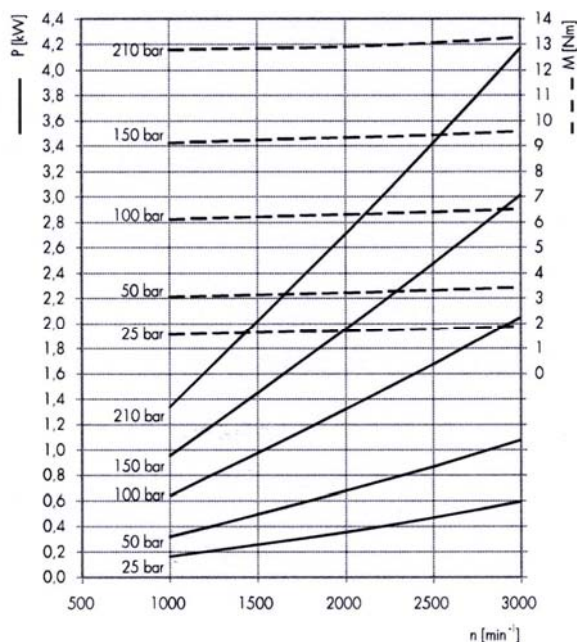
1PE 3.2



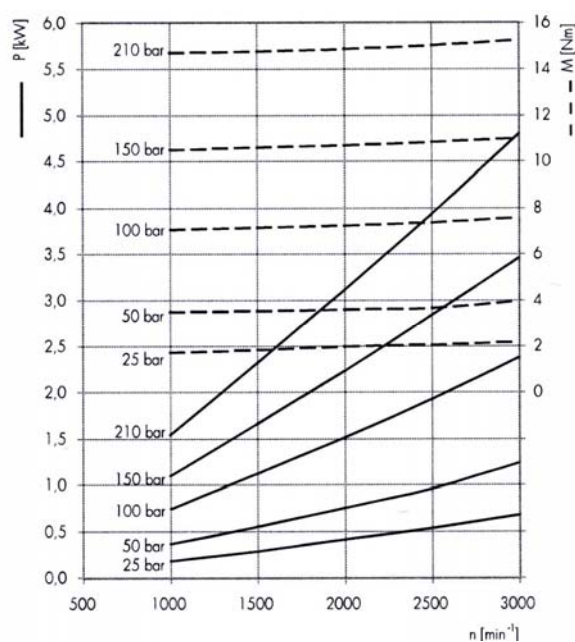
1PE CURVE CARATTERISTICHE / 1PE PERFORMANCE CURVES

Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

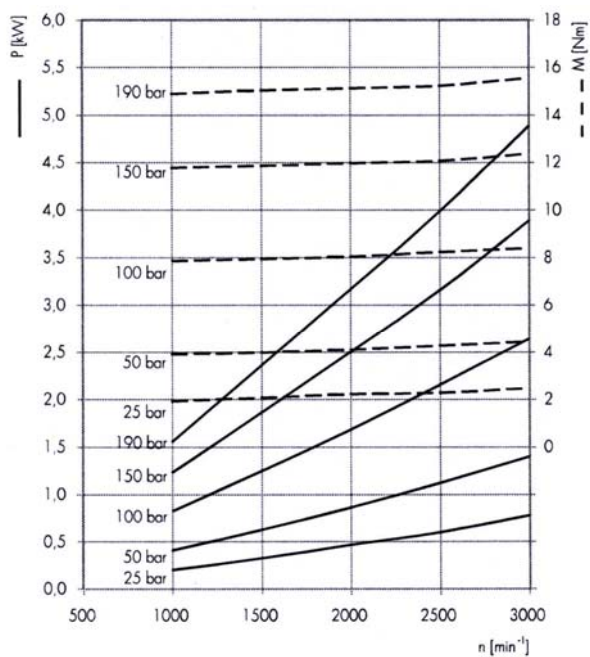
1PE 3.7



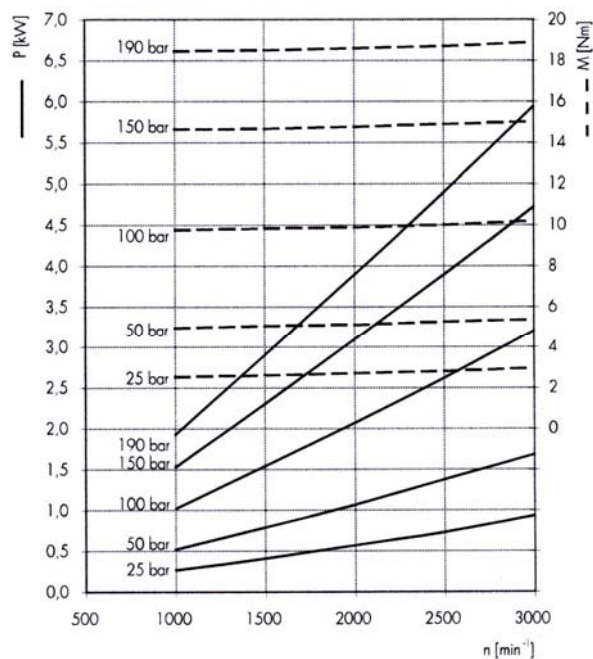
1PE 4.2



1PE 4.8



1PE 5.8



COME ORDINARE - HOW TO ORDER

1.6	PE	Cilindrata Size	Rotazione Rotation	Bocche Ports	Albero Shaft	Flangia Flange	Pos. boc- che Port position	Guarni- zioni Seals	Opzioni Options
---	---	---	---	---	---	---	---	---	---
Serie Series	Pompa Pump	1.4	D Destrosa CW	R0	80	S0	-	-	-
		2.1	S Sinistrosa CCW	R1	51	S1	R*	V	
		2.8	R Revers.le Reversible		83			H	
		3.5						T	
		4.1						N	
		5.2							
		6.2							
		7.6							

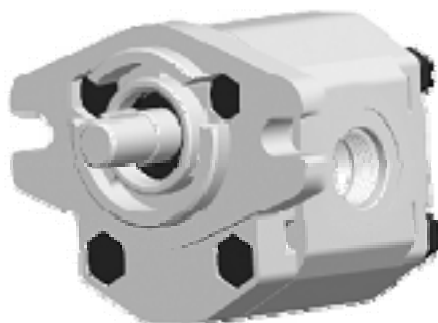
Posizione bocche - Port position

- Aspirazione laterale - Mandata laterale / *side Inlet - side Outlet*
- R* Aspirazione e Mandata posteriore / *back Inlet - back 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*

* Available for quantity

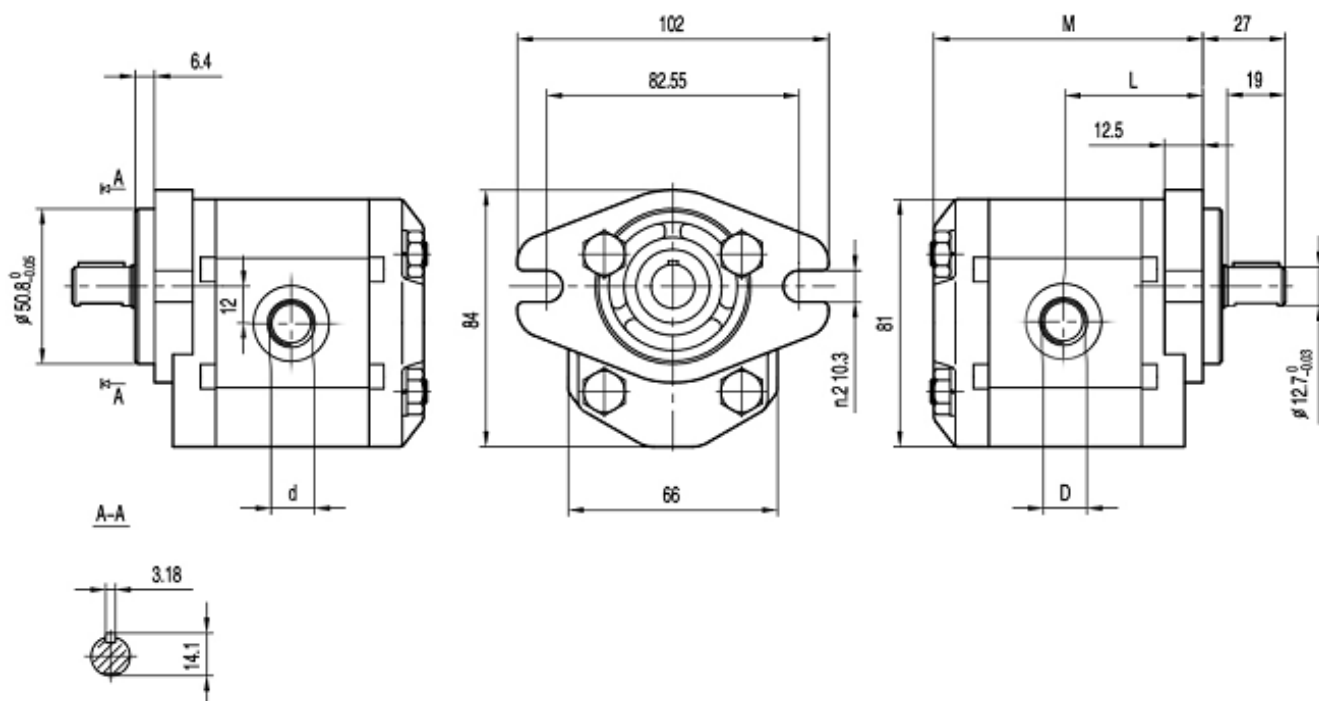


1.6PE – R0/R1.80.S0

Bocche di aspirazione e mandata filettate SAE coniche.	<i>Inlet and outlet port SAE taper threaded</i>
Assemblaggio con 4 tiranti da M8 coppia di serraggio 27 ± 3 Nm	<i>To mount the pump, n.4 x M8 screws, with a torque wrench settings fixed at 27 ± 3 Nm</i>
Flangia SAE A-A (J744c)	<i>Mounting flange SAE A-A (J744c)</i>

**MANDATA
OUTLET**

**ASPIRAZIONE
INLET**

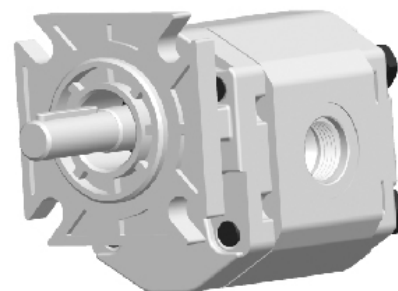


Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

Tipo Type	Cilindrata- Disp.ment (cm ³ /rev)	Pressione massima Max pressure			Velocità max Max speed (r/min)	Velocità min.ma Min. speed (r/min)	Dimensioni Dimensions			
		P1 bar	P2 bar	P3 bar			M mm	L mm	D mm	d mm
1.6PE 1.4	1.4	250	270	290	6000	800	82.5	42	3/4-16UNF	9/16-18UNF
1.6PE 2.1	2.1	250	270	290	6000	800	82.5	43	3/4-16UNF	9/16-18UNF
1.6PE 2.8	2.8	250	270	290	5000	800	86.5	44	3/4-16UNF	9/16-18UNF
1.6PE 3.5	3.5	250	270	290	5000	800	88.5	45	3/4-16UNF	9/16-18UNF
1.6PE 4.1	4.1	250	270	290	4000	800	90.5	46	3/4-16UNF	9/16-18UNF
1.6PE 5.2	5.2	230	245	260	4000	800	93.5	47.5	3/4-16UNF	9/16-18UNF
1.6PE 6.2	6.2	230	245	260	3500	800	96.5	49	3/4-16UNF	9/16-18UNF
1.6PE 7.6	7.6	200	215	230	3000	600	100. 5	51	7/8 -14UNF	3/4 -16UNF

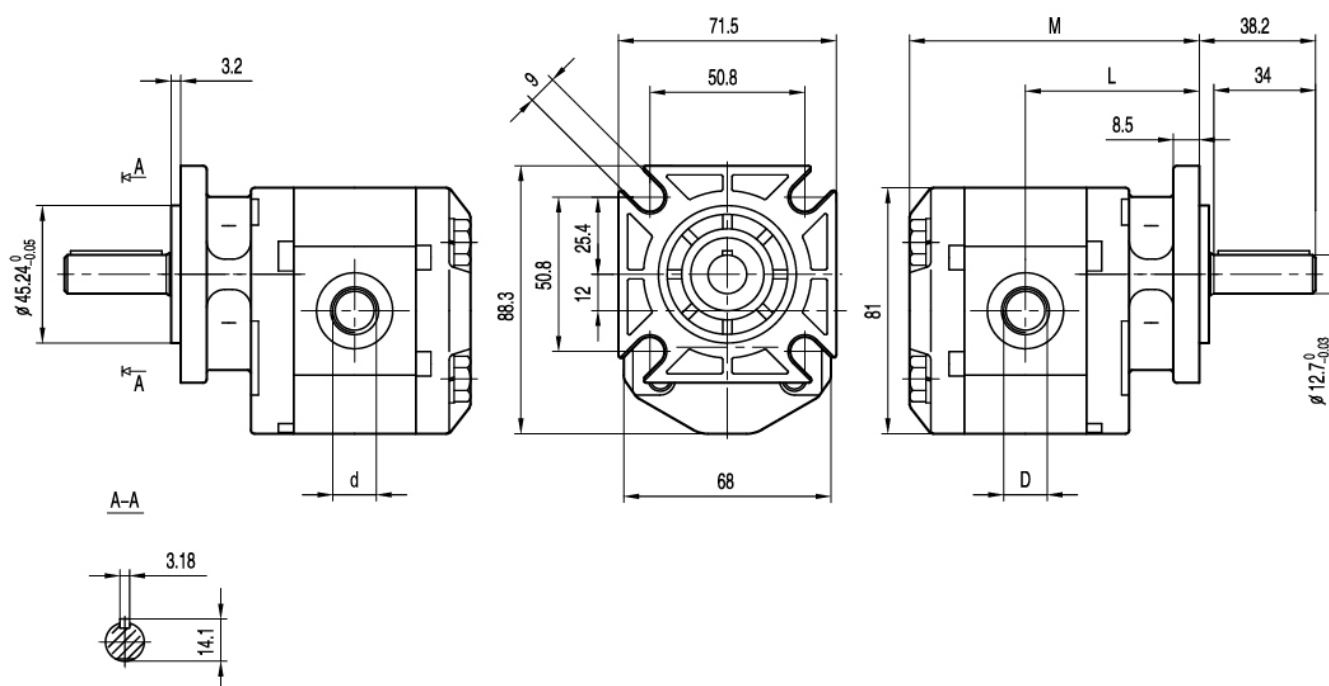
1.6PE – R0/R1.83.S1

Bocche di aspirazione e mandata filettate SAE con tenuta O-ring (SAE J1926/1)	<i>Inlet and outlet port SAE threaded with O-ring seal (SAE J1926/1)</i>
Assemblaggio con 4 tiranti da M8 coppia di serraggio 27 ± 3 Nm	<i>To mount the pump, n.4 x M8 screws, with a torque wrench settings fixed at 27 ± 3 Nm</i>
Flangia SAE A-A 4 fori	<i>Mounting flange SAE A-A 4 holes</i>



**MANDATA
OUTLET**

**ASPIRAZIONE
INLET**

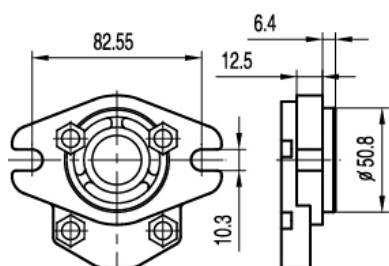


Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

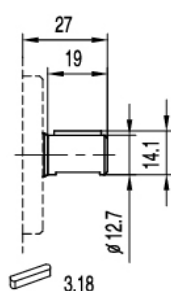
Tipo Type	Cilindrata- Disp.ment (cm³/rev)	Pressione massima Max pressure			Velocità max Max speed (r/min)	Velocità- min.ma Min. speed (r/min)	Dimensioni Dimensions			
		P1 bar	P2 bar	P3 bar			M mm	L mm	D mm	d mm
1.6PE 1.4	1.4	250	270	290	6000	800	98	59	3/4 -16UNF	9/16-18UNF
1.6PE 2.1	2.1	250	270	290	6000	800	100	60	3/4 -16UNF	9/16-18UNF
1.6PE 2.8	2.8	250	270	290	5000	800	102	61	3/4 -16UNF	9/16-18UNF
1.6PE 3.5	3.5	250	270	290	5000	800	104	62	3/4 -16UNF	9/16-18UNF
1.6PE 4.1	4.1	250	270	290	4000	800	106	63	3/4 -16UNF	9/16-18UNF
1.6PE 5.2	5.2	230	245	260	4000	800	109	64.5	3/4 -16UNF	9/16-18UNF
1.6PE 6.2	6.2	230	245	260	3500	800	112	66	3/4 -16UNF	9/16-18UNF
1.6PE 7.6	7.6	200	215	230	3000	600	116	68	7/8 -14UNF	3/4 -16UNF

FLANGE / FRONT COVERS

ALBERI / SHAFTS

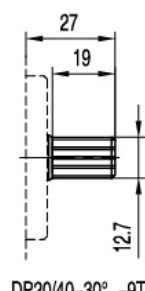


S0



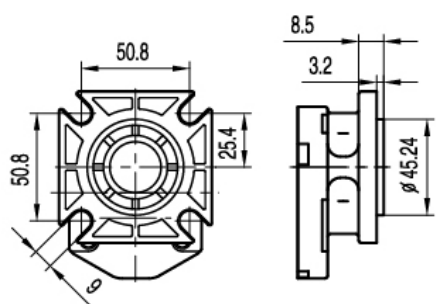
80

Coppia max 60 Nm
Max. torque 60 Nm

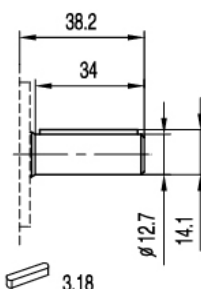


51

Coppia max 100 Nm
Max. torque 100 Nm



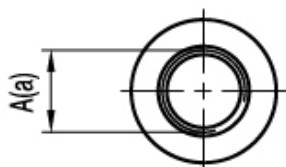
S1



83

Coppia max 100 Nm
Max. torque 100 Nm

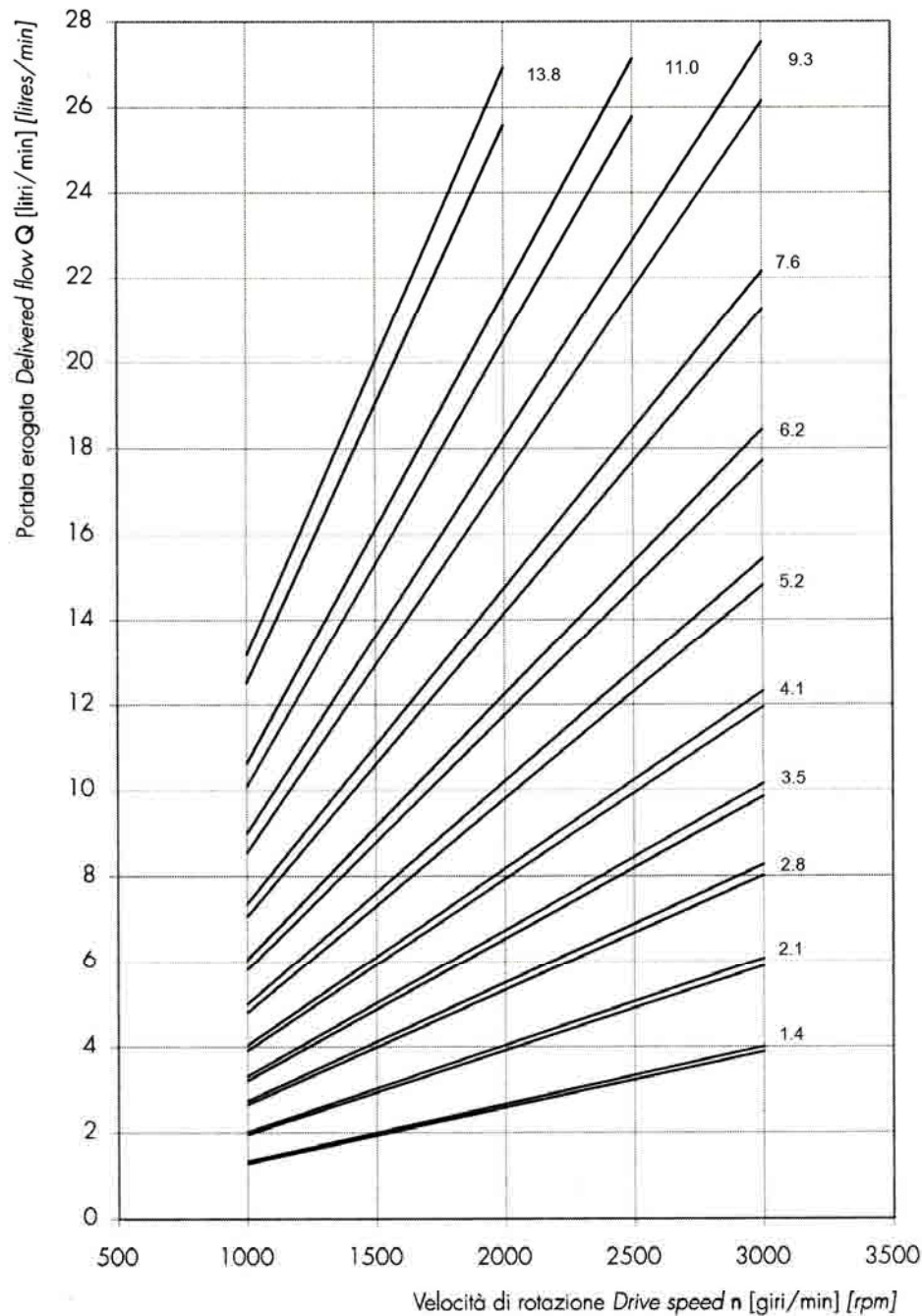
BOCCHIE / PORTS



R0/R1

Tipo Type	Codice bocca Port code	Aspirazione Inlet	Mandata Outlet
		A	a
1.6PE 1.4 ÷ 6.2	R0	3/4-16UNF	9/16-18UNF
1.6PE 7.6 ÷ 13.8	R1	7/8-14UNF	3/4-16UNF

1,6PE CURVE CARATTERISTICHE / 1,6PE PERFORMANCE CURVES



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

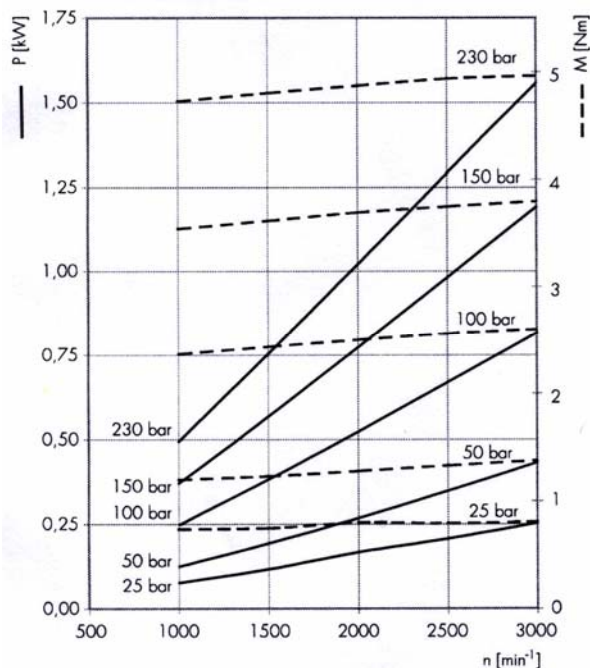
Each curve has been obtained at 50°C, using oil with viscosity 30 cSt at these pressure.

1.4	2.1	2.8	3.5	1.4	2.1	2.8	3.5	4.1	5.2	6.2	7.6	9.3	11.0	13.8
25-240 bar	25-230 bar	25-220 bar	25-180 bar	25-170 bar	25-150 bar	25-140 bar								

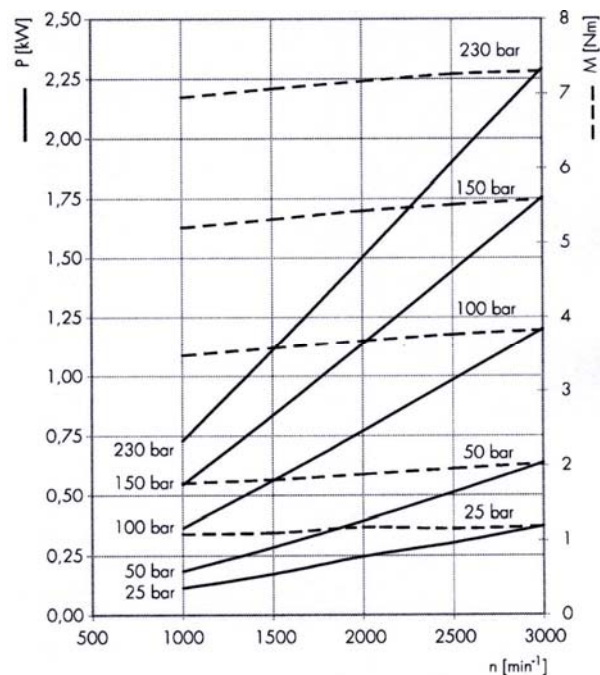
1,6PE CURVE CARATTERISTICHE / 1,6PE PERFORMANCE CURVES

Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

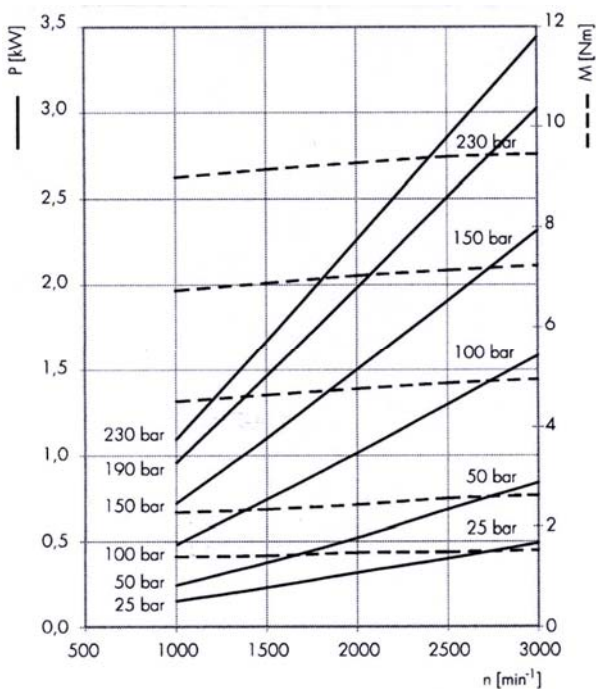
1,6PE 1.4



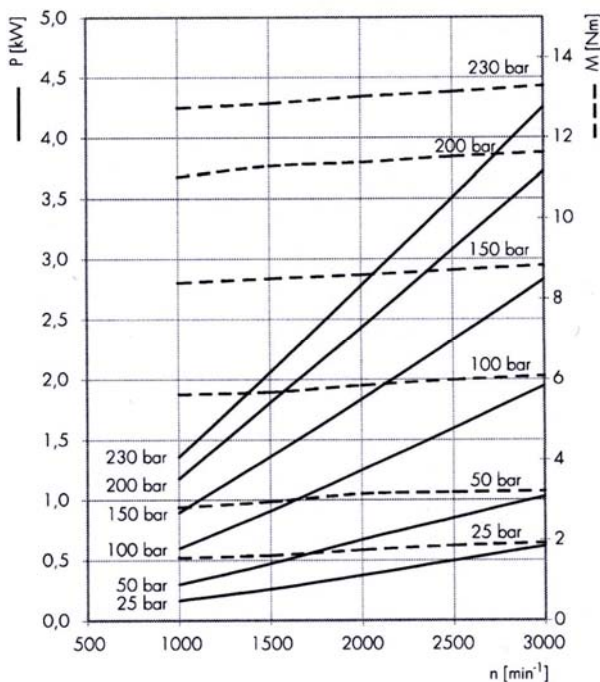
1,6PE 2.1



1,6PE 2.8



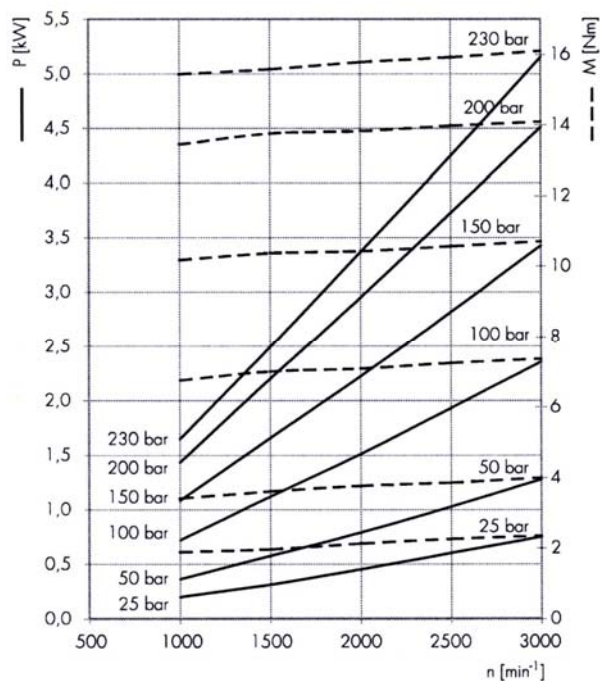
1,6PE 3.5



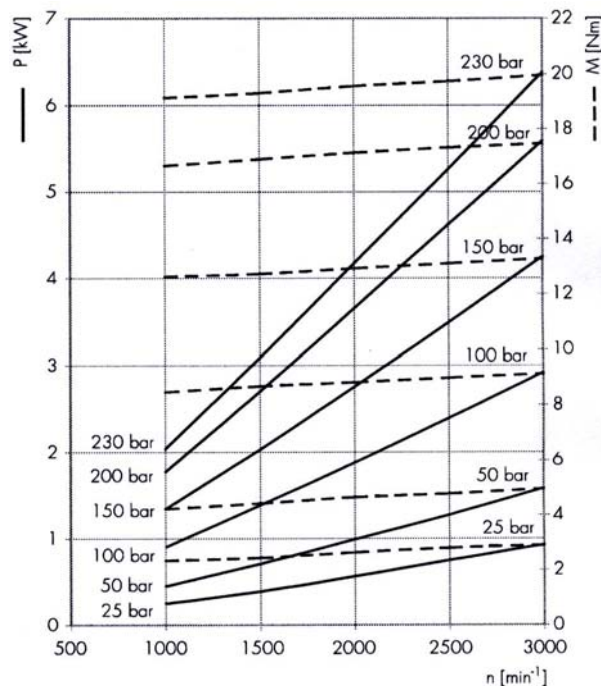
1,6PE CURVE CARATTERISTICHE / 1,6PE PERFORMANCE CURVES

Performance curves carried out with oil viscosity at 30 cSt and oil temperature at 50°C

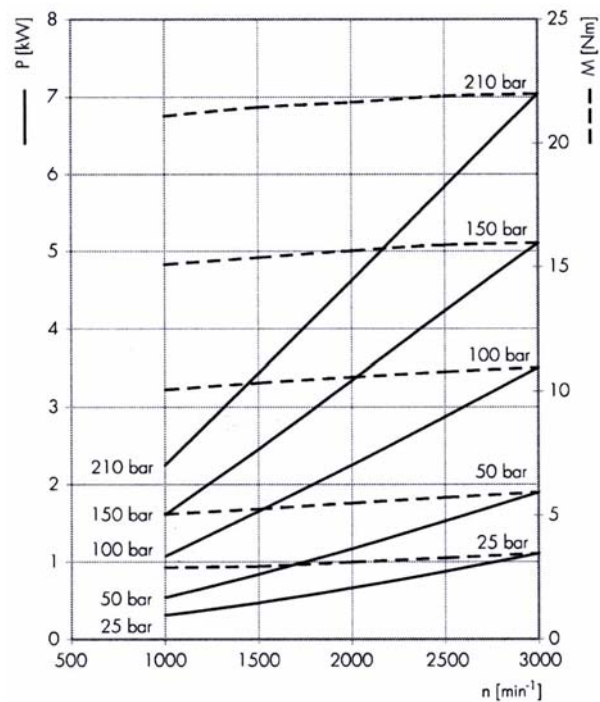
1,6PE 4.1



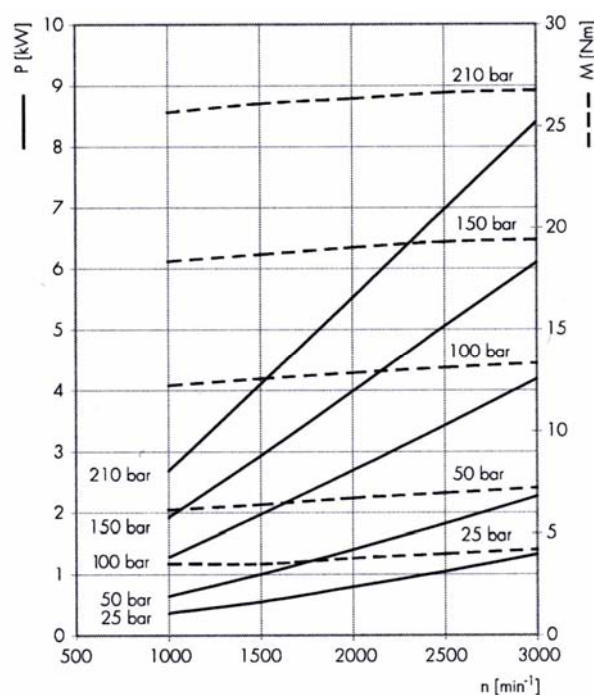
1,6PE 5.2



1,6PE 6.2



1,6PE 7.6





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