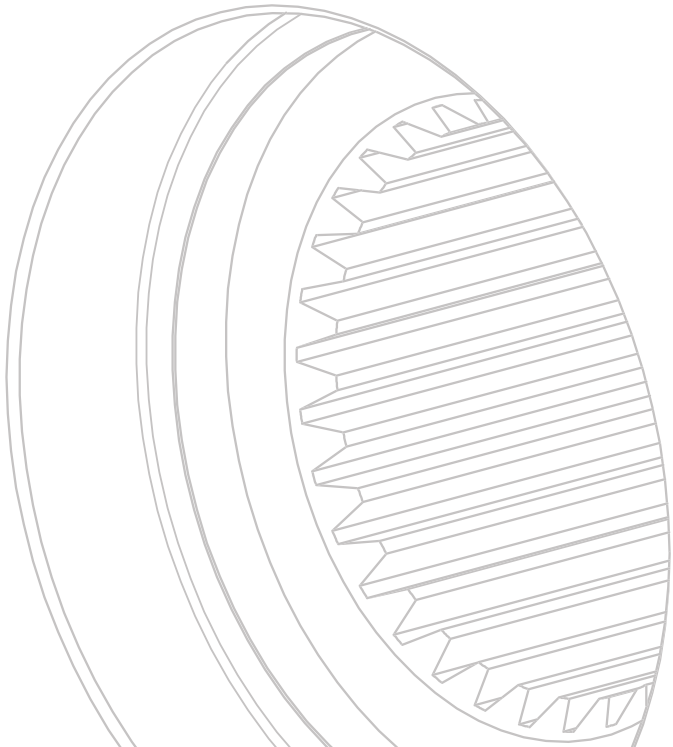
Technical Manual



Positive displacement lobe pump

Serie C - CF

Translation of the original instructions

Revision 1 - May 2012

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Summary

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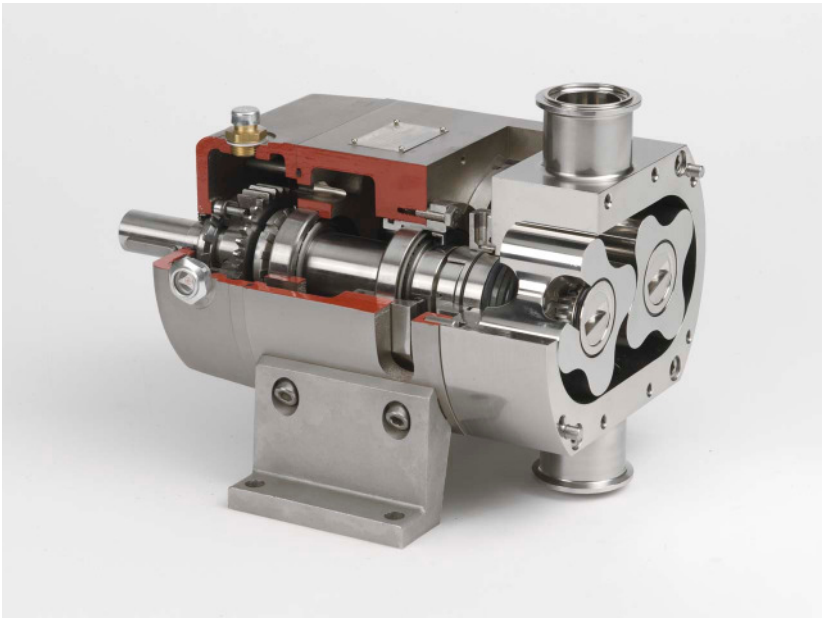
Technical features of the C CF Series pump

The table below shows the nominal features of the various dimensions of the pumps. The data that make up the table refer to the pump model, the capacity that each pump model (100, 110...) elaborates every 100 revolutions, the maximum operation speed of each pump size, the differential operating pressure, expressed in bar, and the standard dimensions of the opening couplings, expressed in millimetres and inches.

MODEL PUMP	THEORETIC FLOW-RATE	MAXIMUM SPEED	MAXIMUM POWER	MAXIMUM OPERATING PRESSURE (bar)		STANDARD CONNECTIONS	
	lt/100 rpm	rpm	kW	ST standard clearance with shafts in AISI 630	SM increased clearance with shafts in AISI 630	DN	INCHES
C100	3	1400	1.5	7	-	25	-
C110	17	1000	4	8	13	40	-
C115	21	1000	4	5	8	40	-
C220	30	800	7.5	8	13	40	-
C270	38	800	7.5	5	8	50	-
C325	63	700	18.5	13	17	65	-
C330	81	700	18.5	8	12	65	-
C390	100	700	18.5	5	8	80	-
C570	600	400	45	8	13	125	-



A section of C220 Series pump

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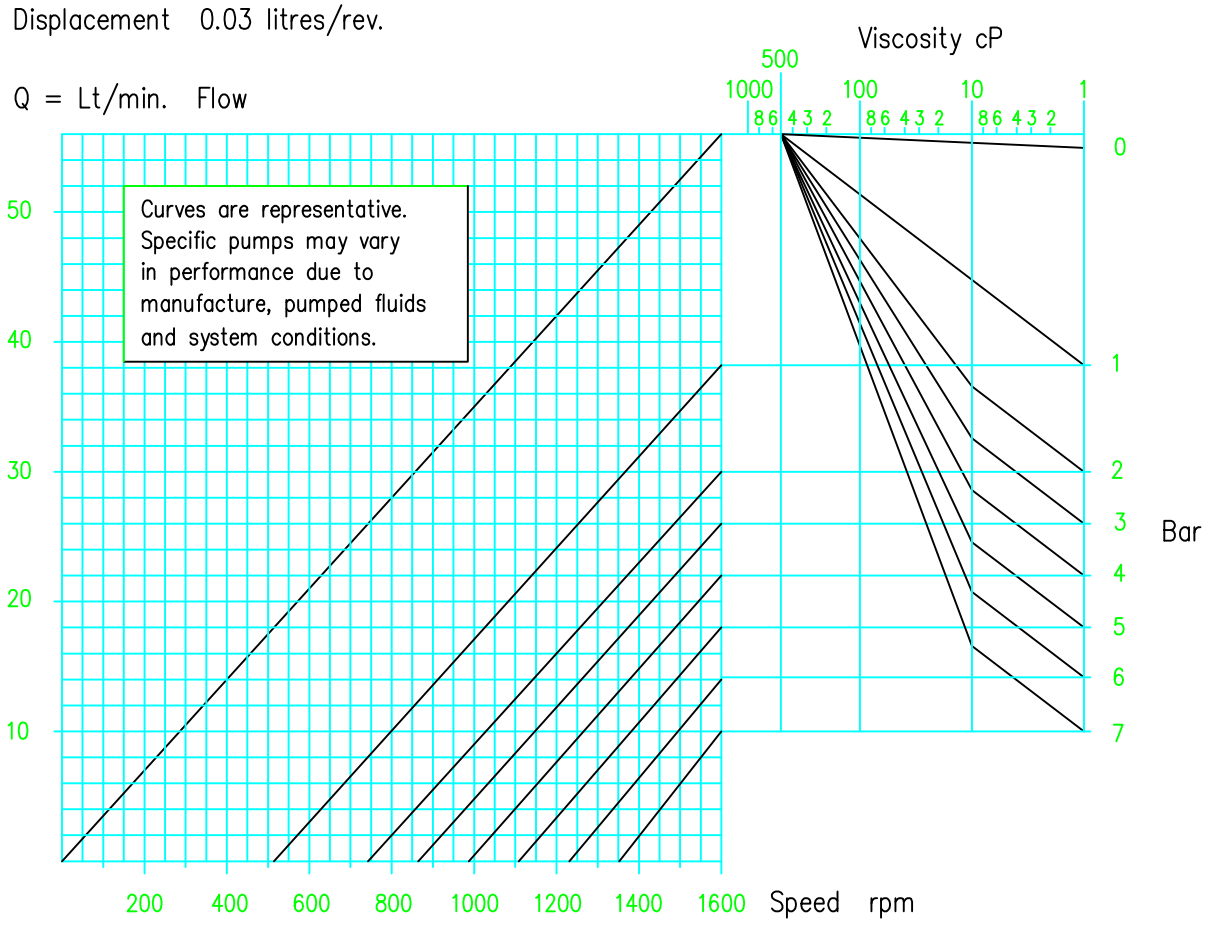
C100 with gear rotor in AISI 316L and standard tolerance (LI-ST) code 8

Displacement 0.03 litres/rev.

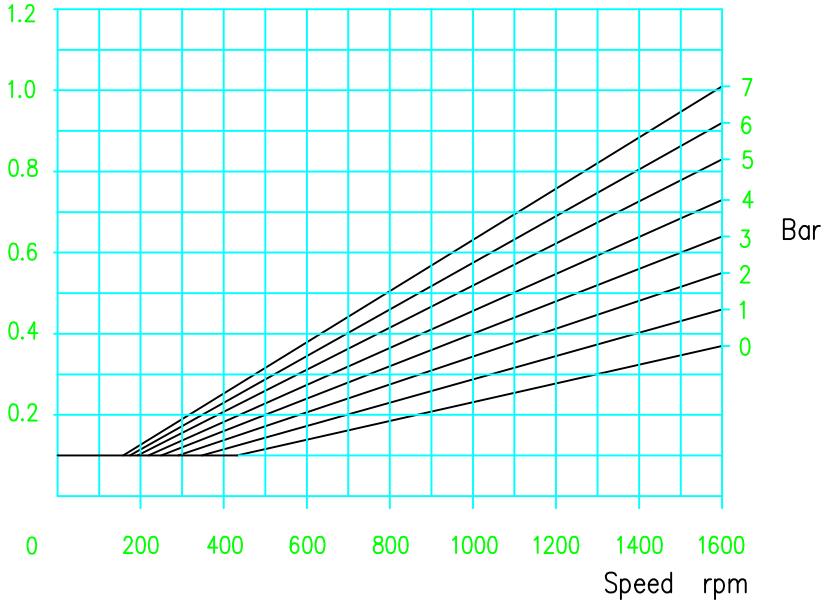


Max viscosity (cP) at 0 barg suction
Port bore Ø=22 mm.
Standard port DN 25

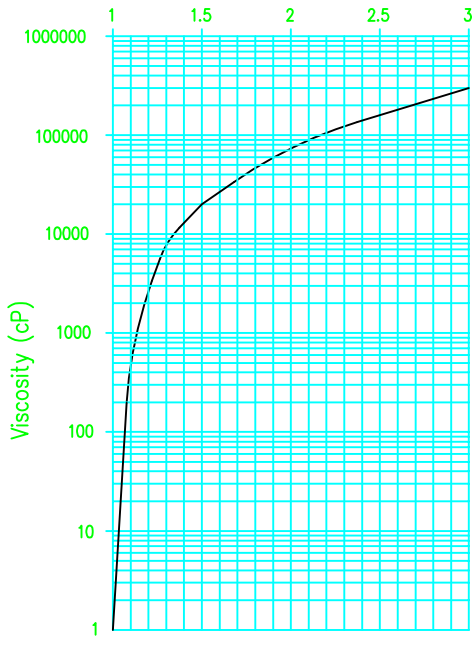
Max speed at 1 cP = 1400 r.p.m.

We advise to do not reach at the same time all permitted maximum performance

Kw = Power at 1 cP



Power correction factor (Fp)

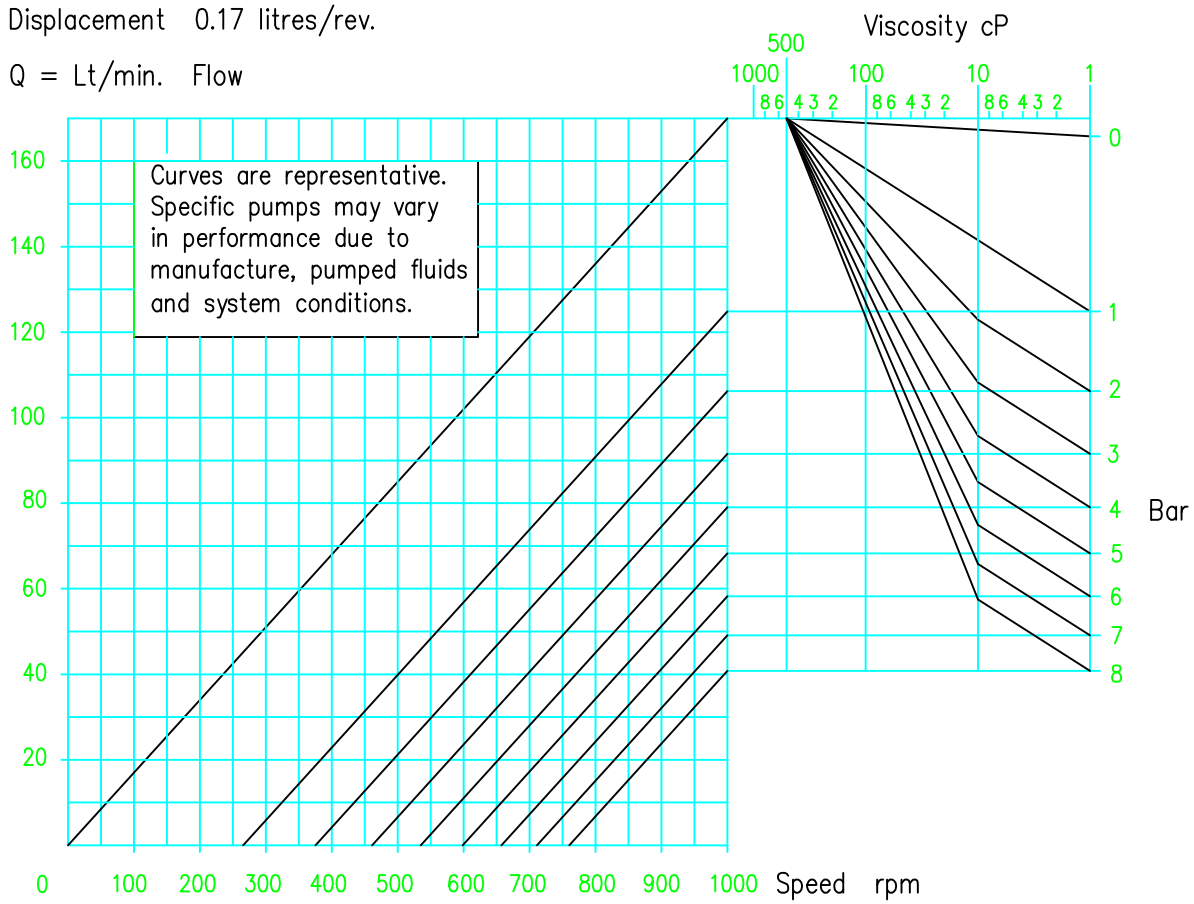


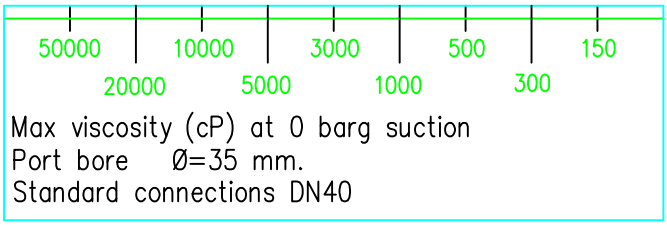
Total Power = KW(1 cP) x Fp

C110 with 4-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 0

Displacement 0.17 litres/rev.

Q = Lt/min. Flow



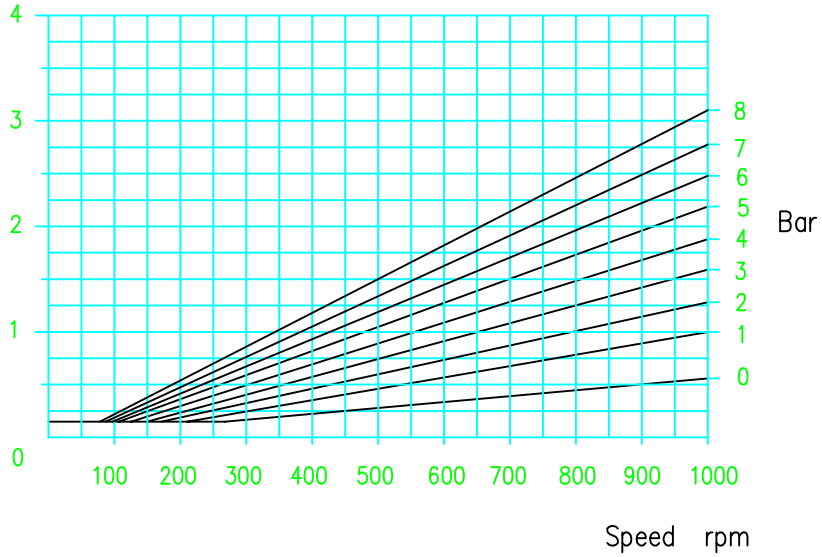


Max viscosity (cP) at 0 barg suction
Port bore Ø=35 mm.
Standard connections DN40

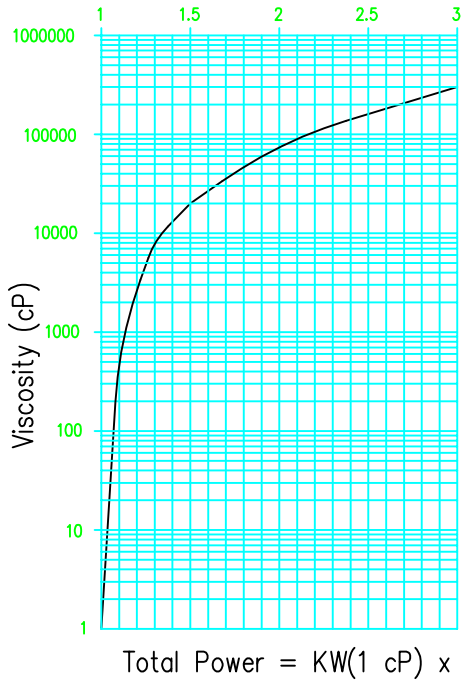
Max speed at 1 cP = 1000 r.p.m.

We advise to do not reach at the same time all permitted maximum performance

Kw = Power at 1 cP



Power correction factor (Fp)



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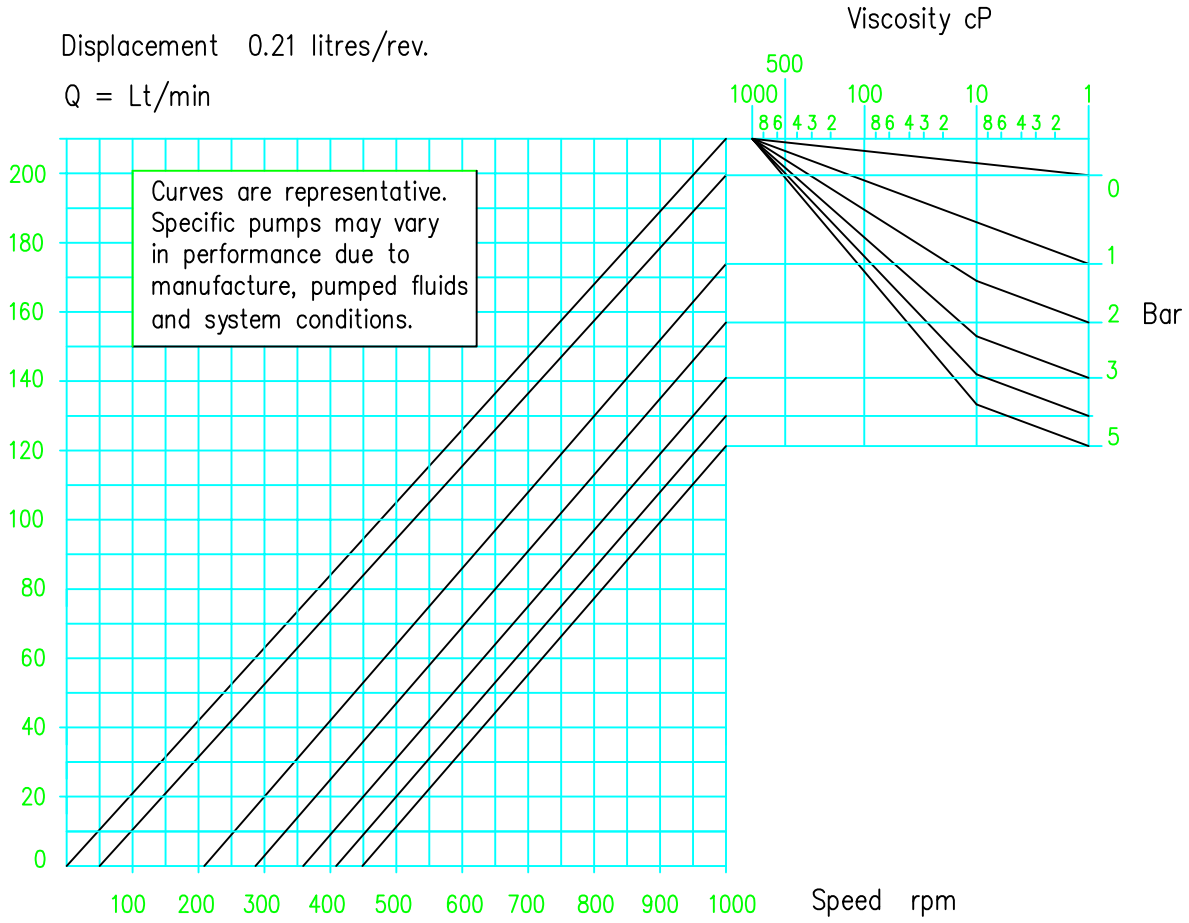
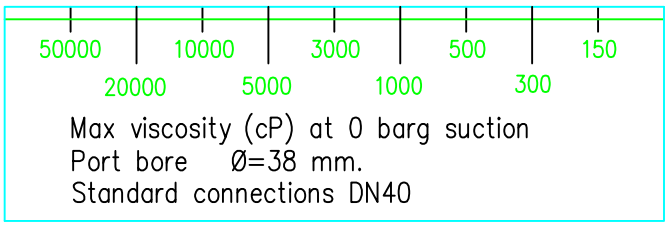
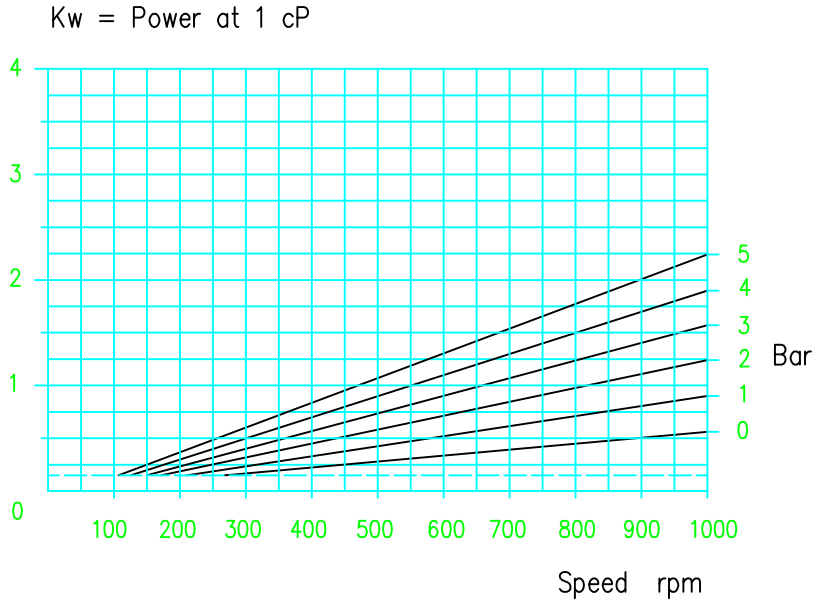
C115 with 4-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 0

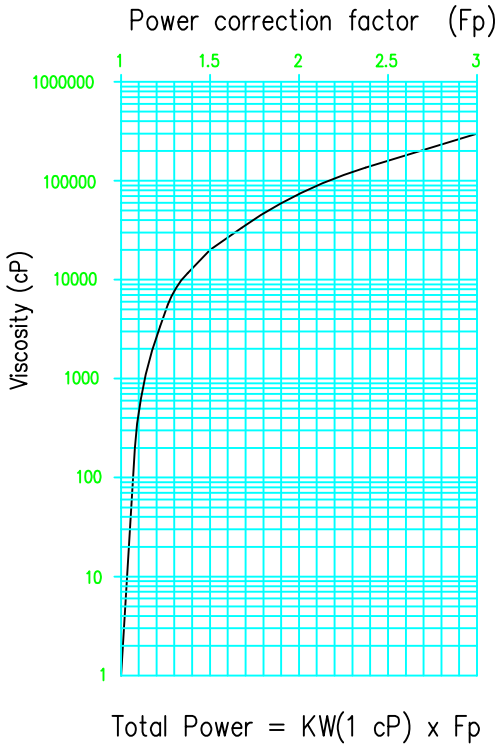




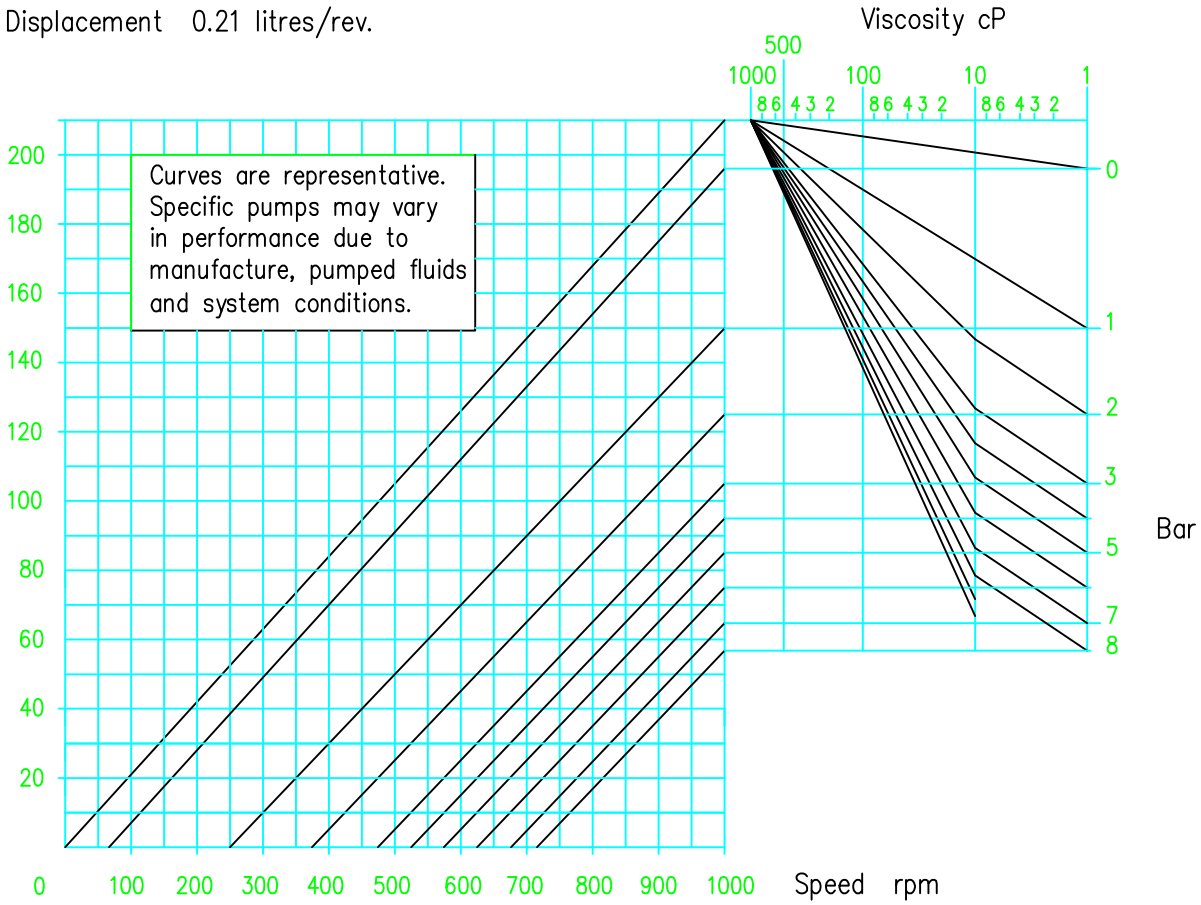
Max speed at 1 cP = 1000 r.p.m.

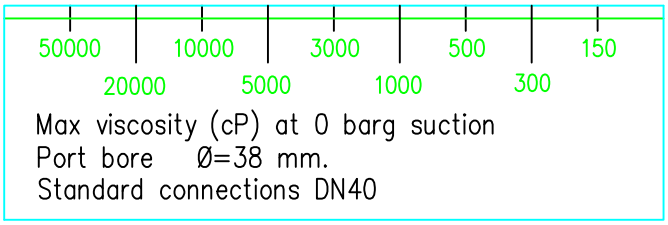
We advise to do not reach at the same time all permitted maximum performance





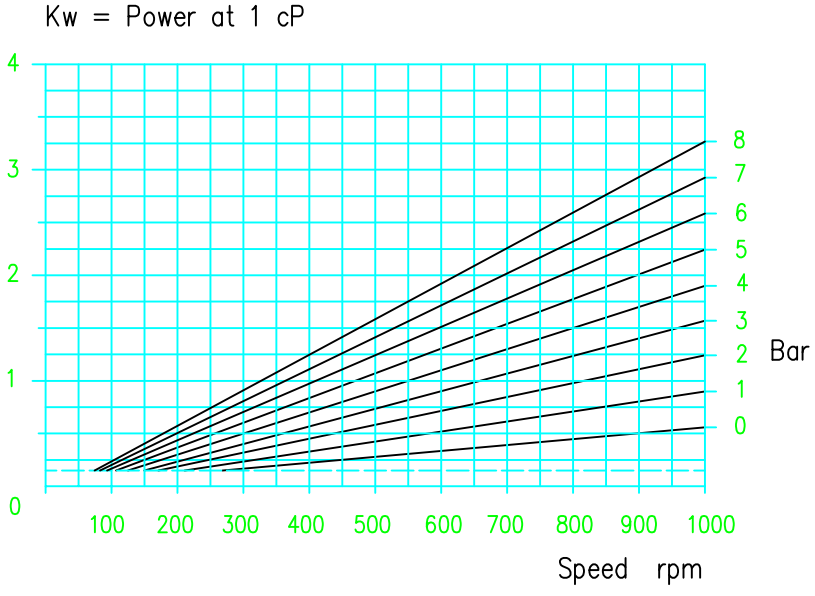
C115 with 4-lobe rotor in AISI 316L and increased tolerance (LI-SM) code 1

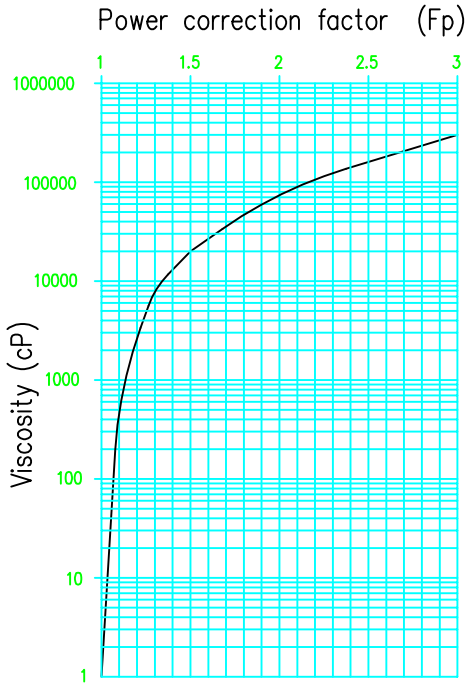




Max speed at 1 cP = 1000 r.p.m.

We advise to do not reach at the same time all permitted maximum performance





Total Power = KW(1 cP) x Fp

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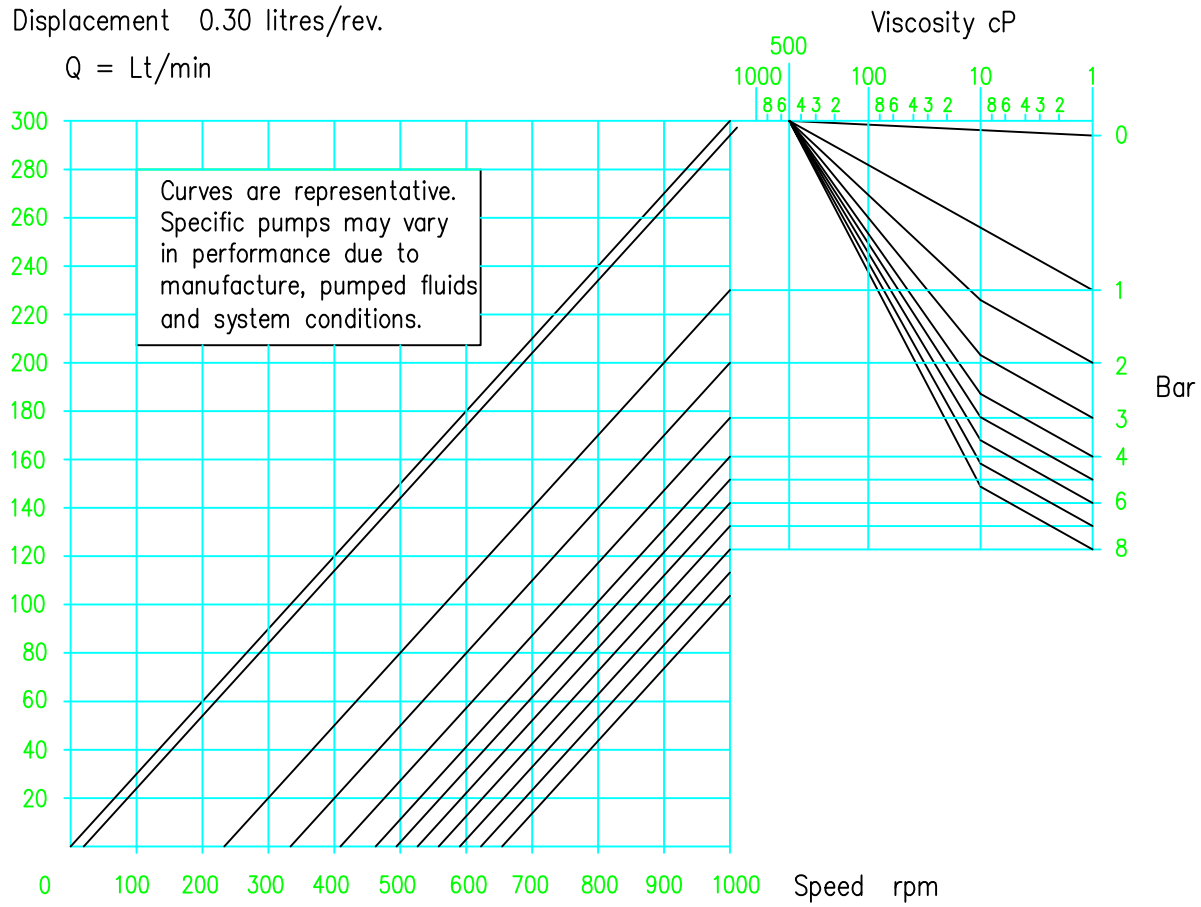
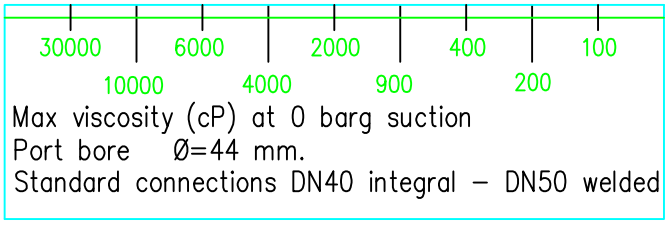
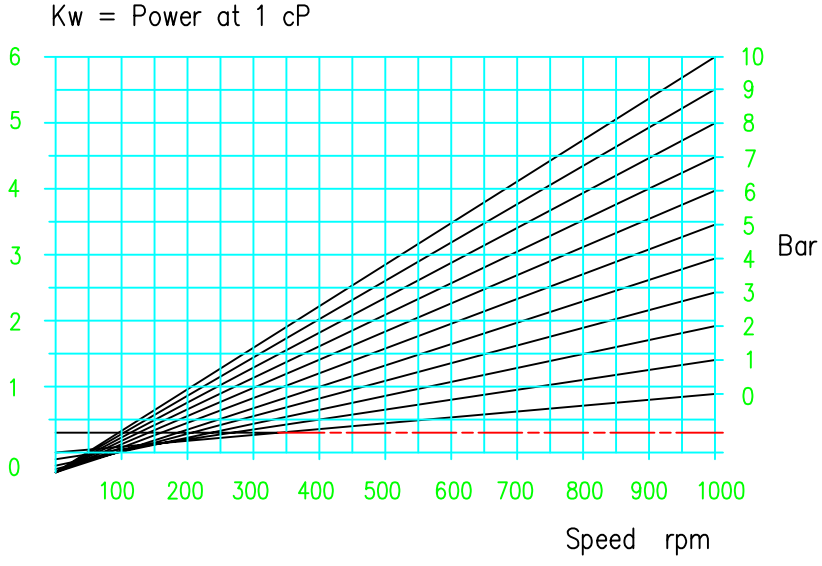
C220 with 4-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 0

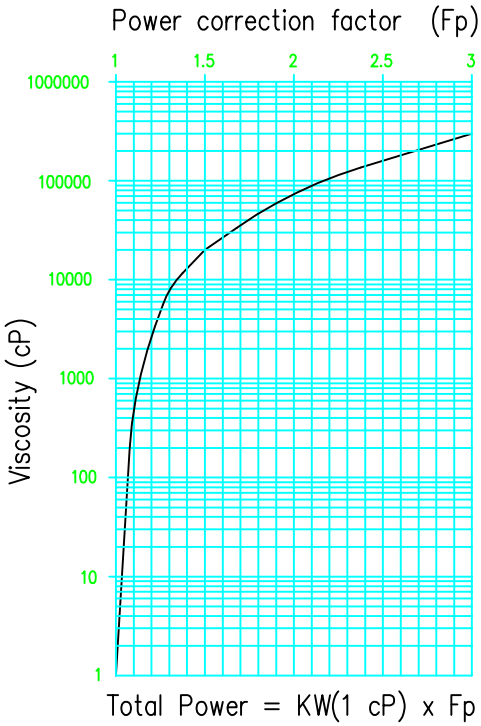




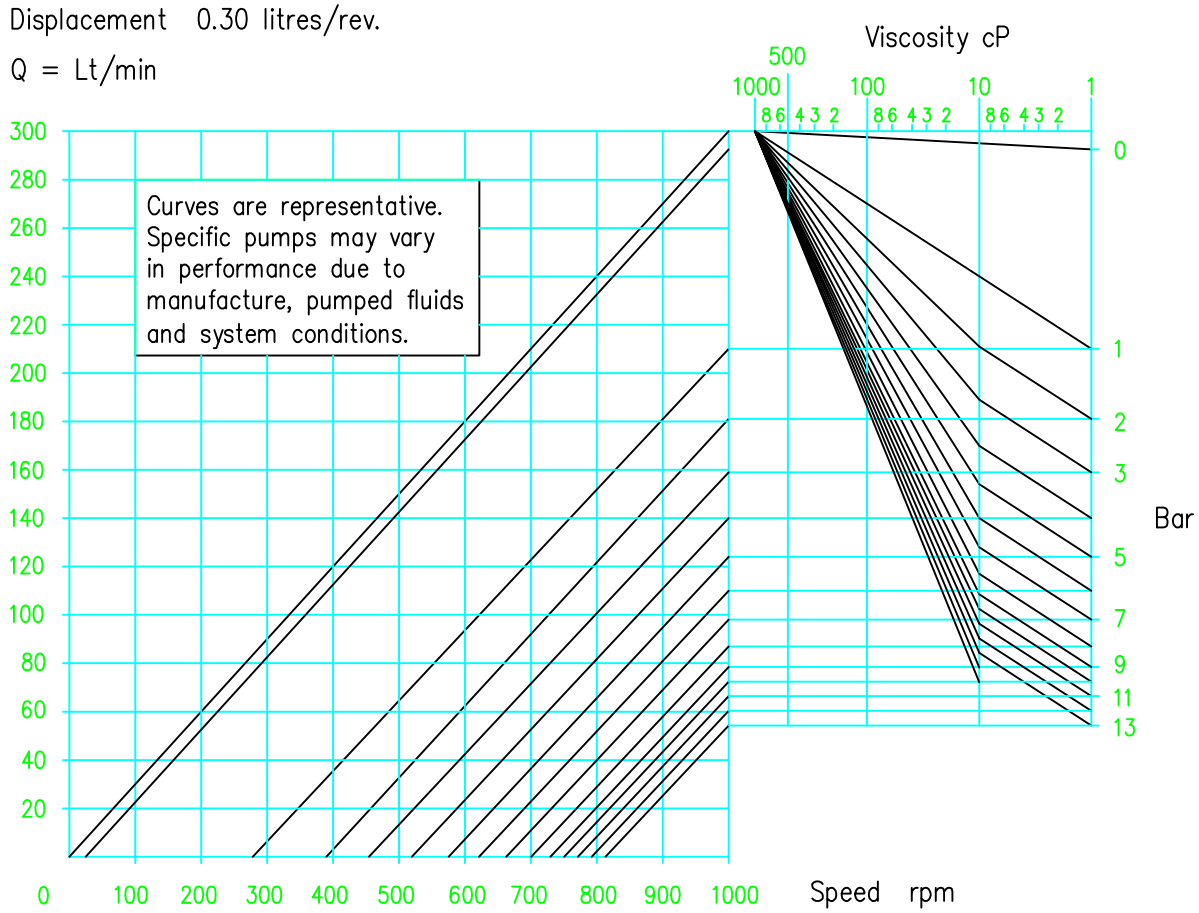
Max speed at 1 cP = 800 r.p.m.

We advise to do not reach at the same time all permitted maximum performance



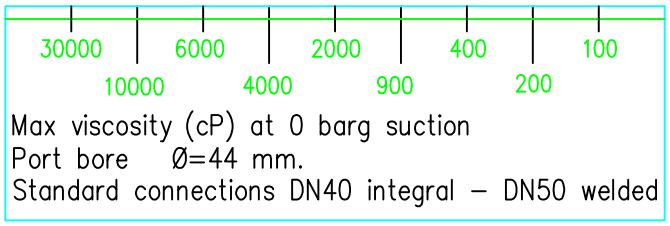


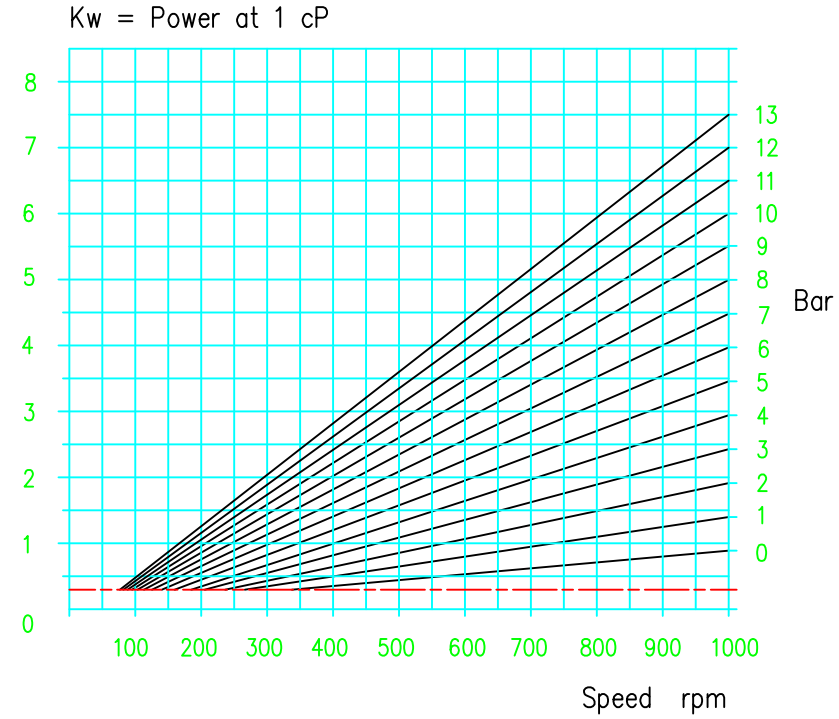
C220 with 4-lobe rotor in AISI 316L and increased tolerance (LI-SM) code 1

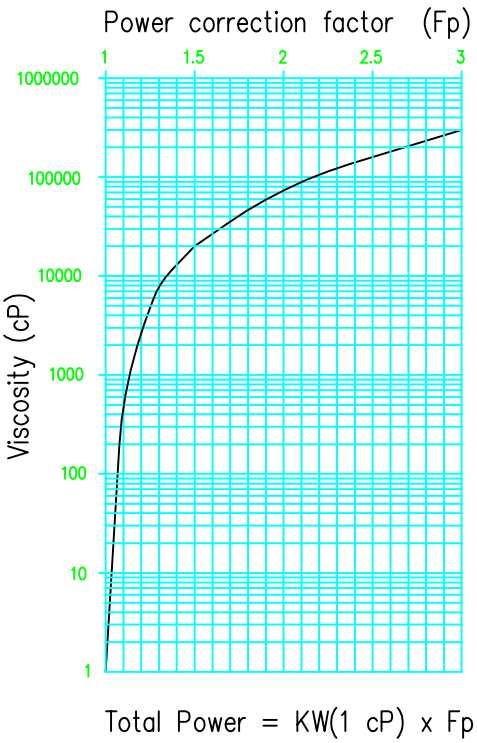


Max speed at 1 cP = 800 r.p.m.

We advise to do not reach at the same time all permitted maximum performance







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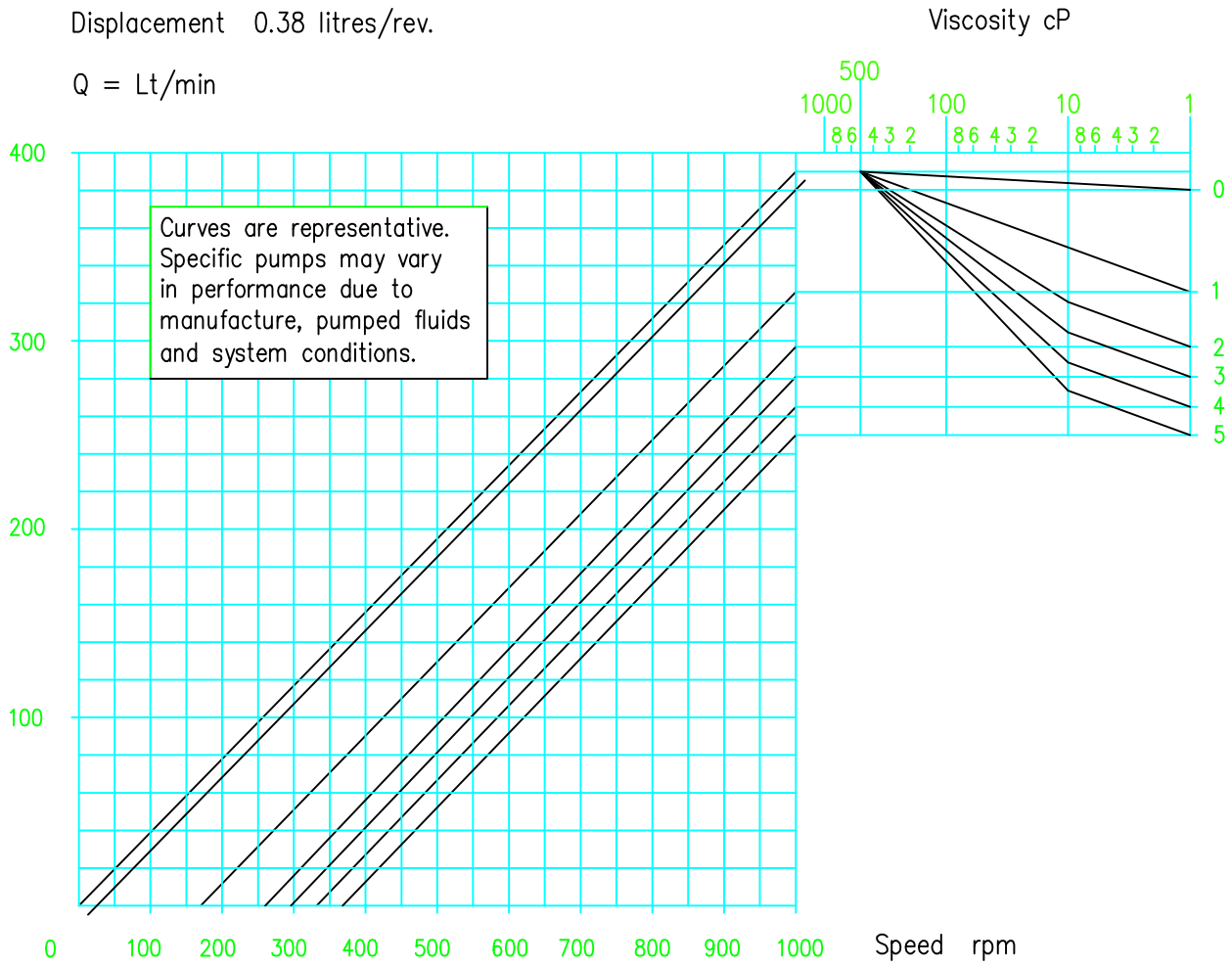
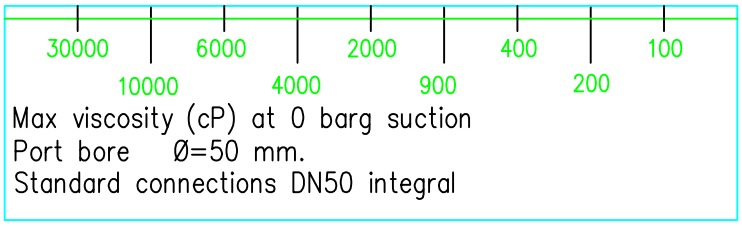
C270 with 4-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 0

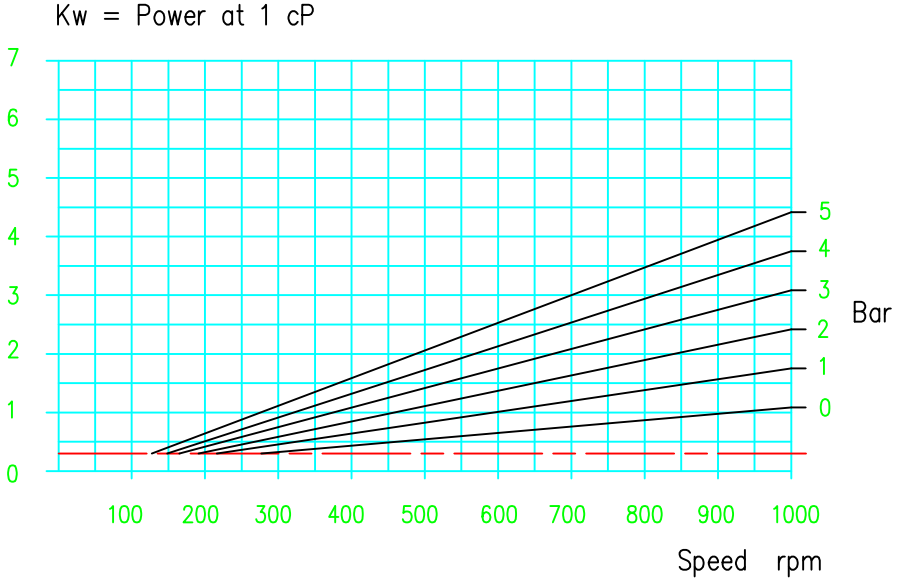


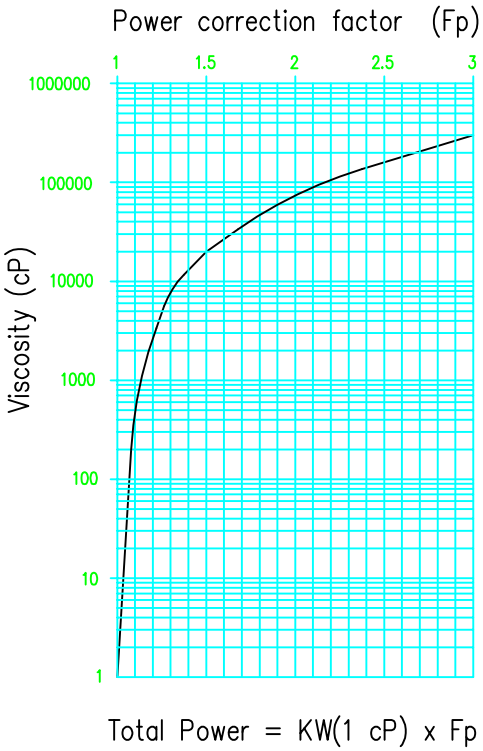
Max speed at 1 cP = 800 r.p.m.

We advise to do not reach at the same time all permitted maximum performance



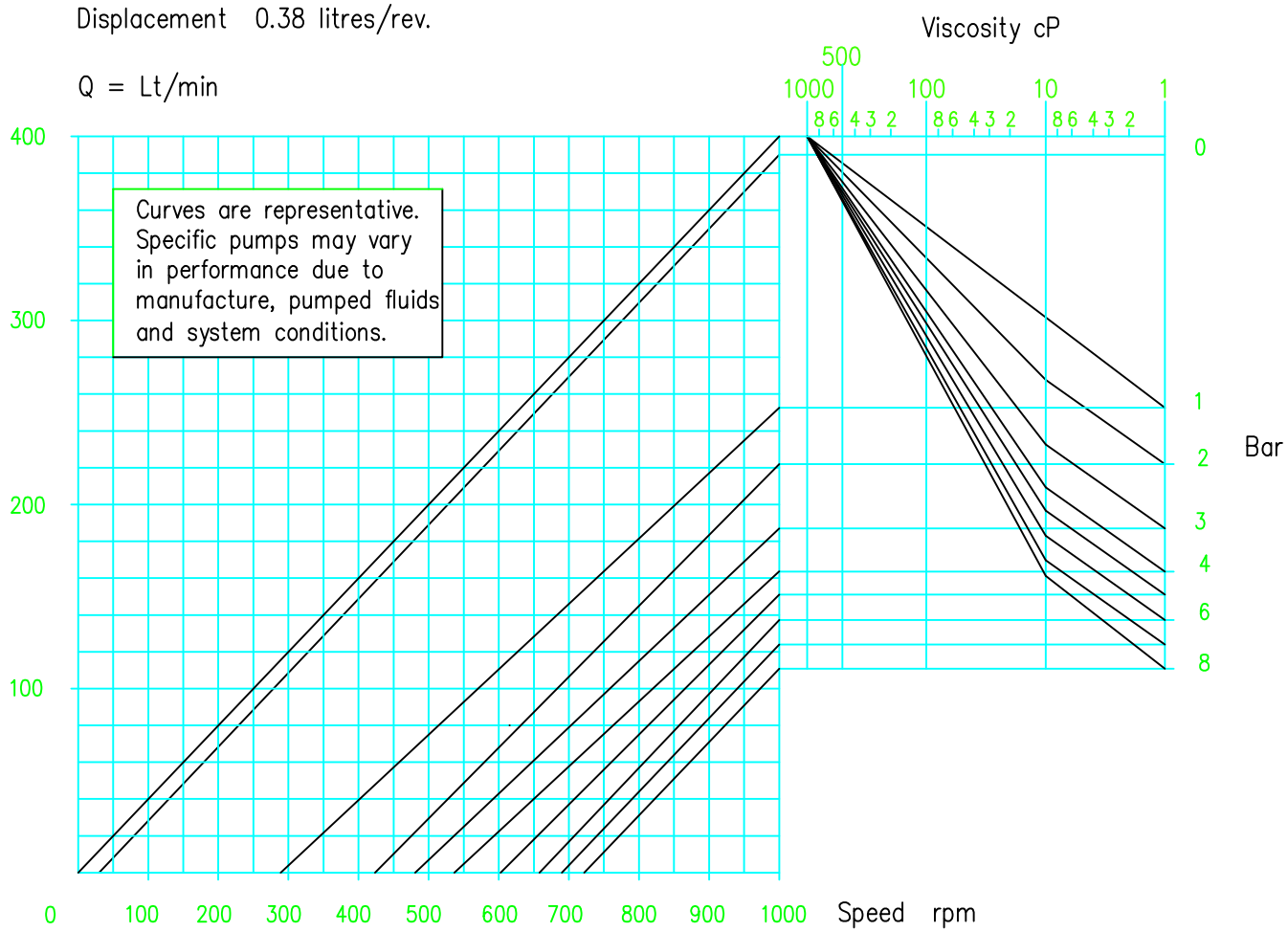
Max viscosity (cP) at 0 barg suction
Port bore Ø=50 mm.
Standard connections DN50 integral

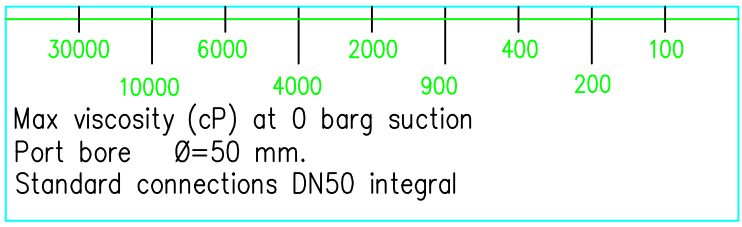




Total Power = KW(1 cP) x Fp

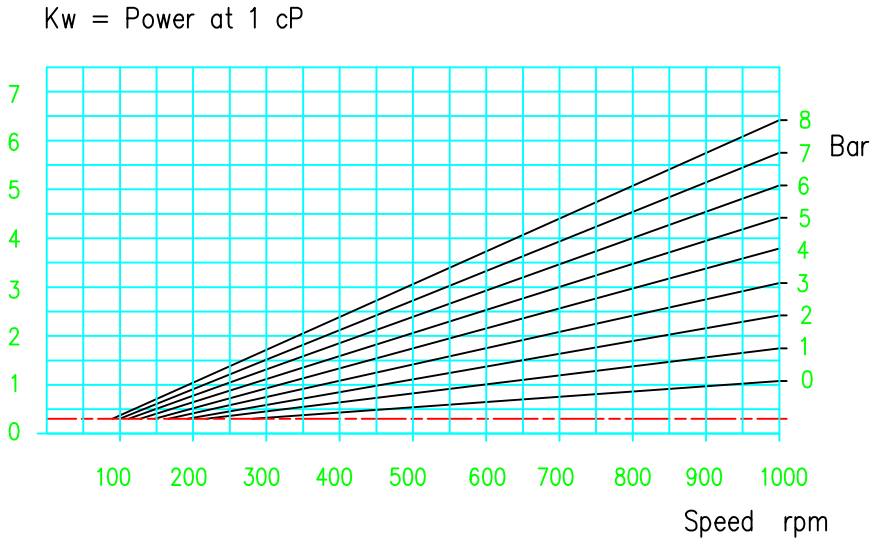
C270 with 4-lobe rotor in AISI 316L and increased tolerance (LI-SM) code 1

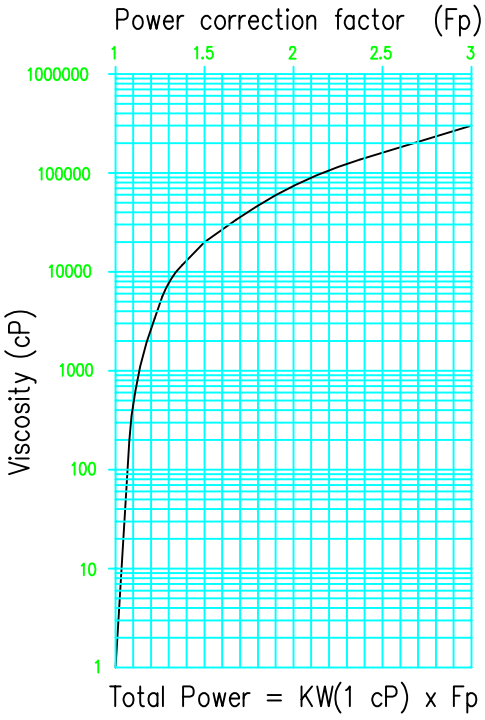




Max speed at 1 cP = 800 r.p.m.

We advise to do not reach at the same time all permitted maximum performance





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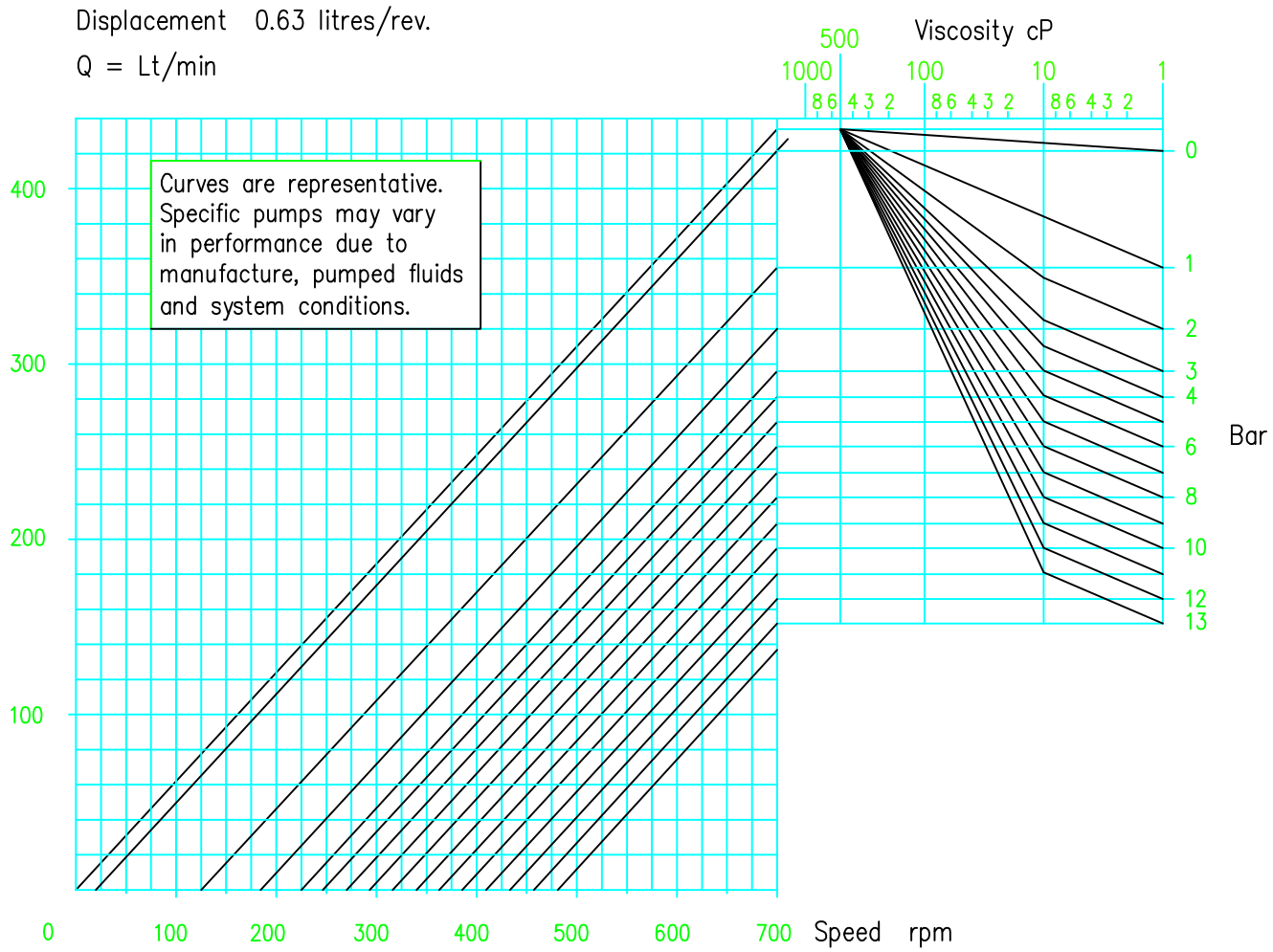
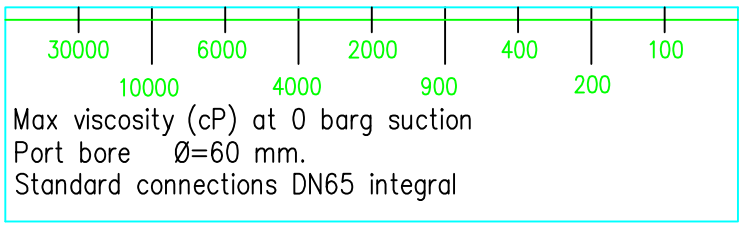
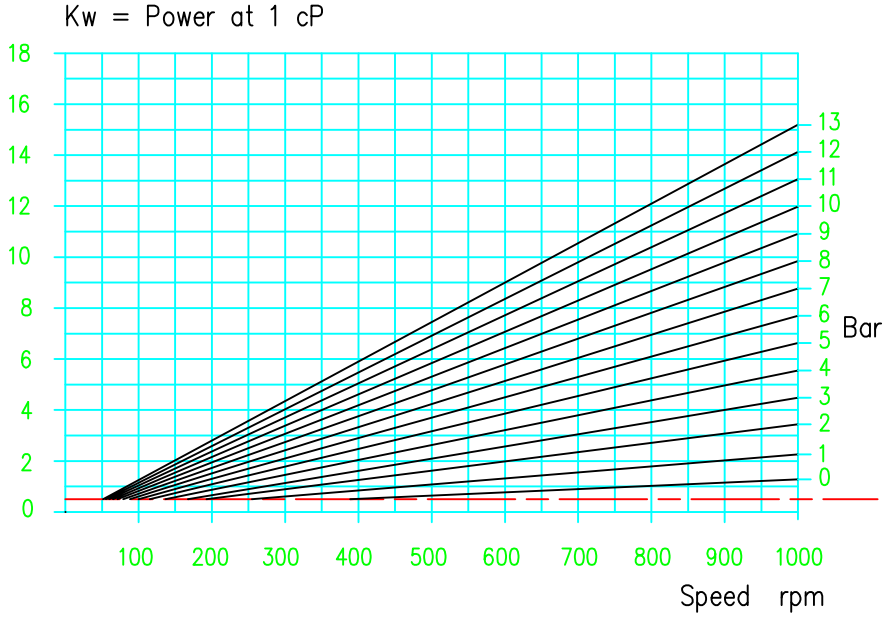
C325 with 4-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 0

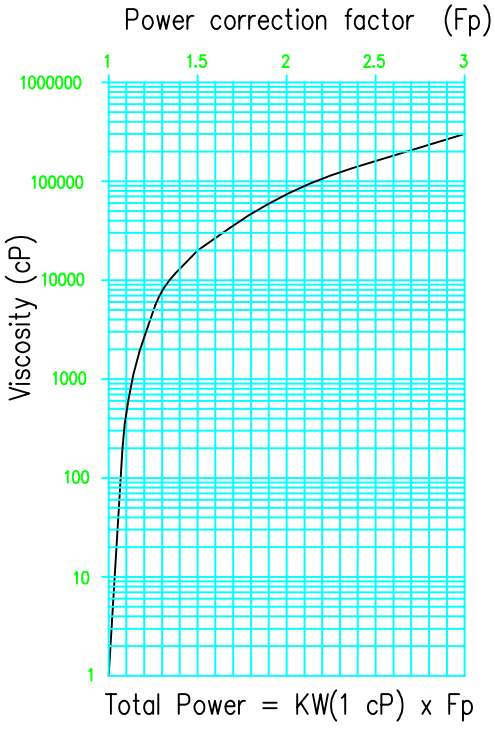




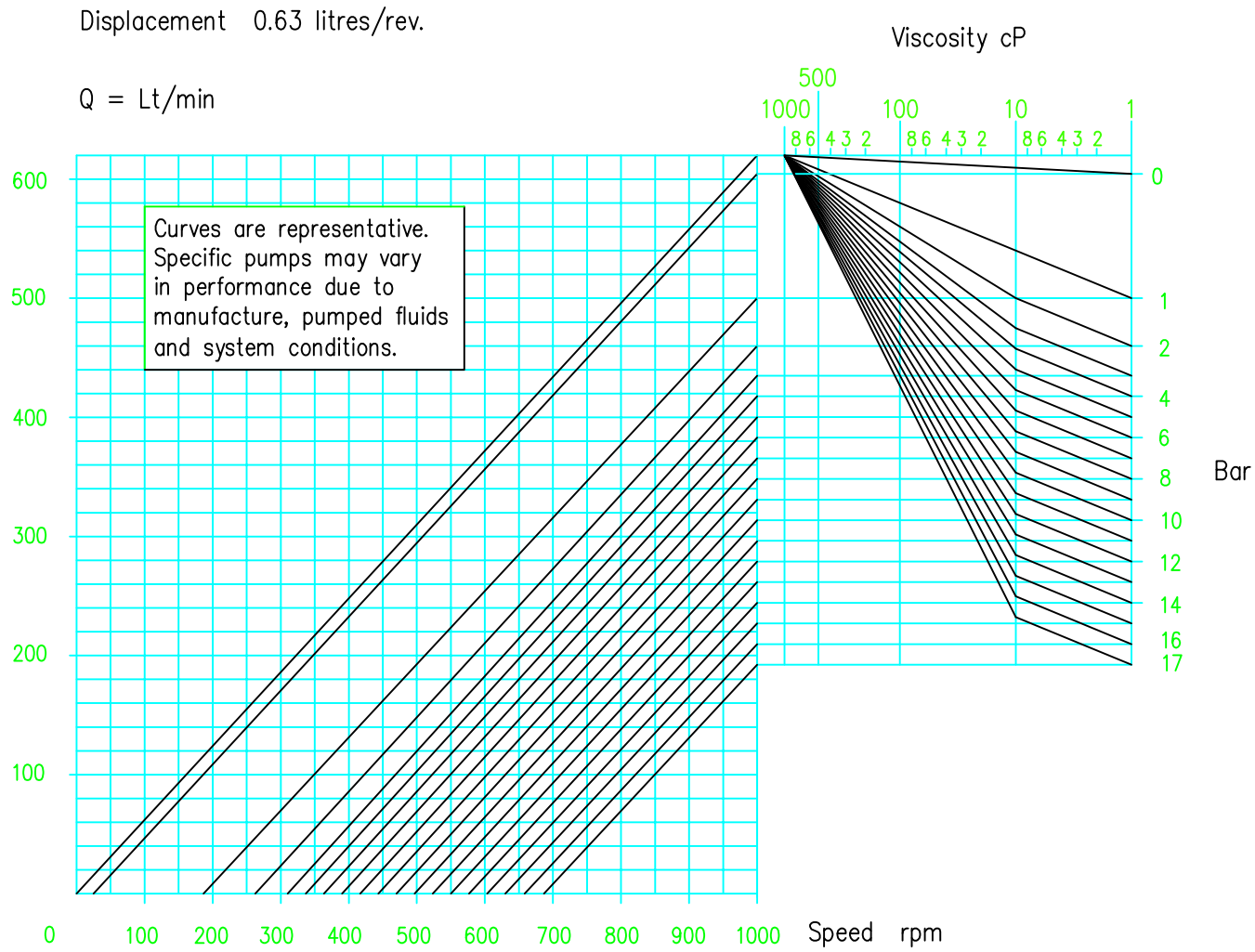
Max speed at 1 cP = 720 r.p.m.

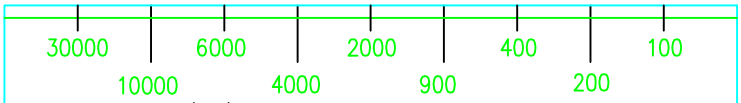
We advise to do not reach at the same time all permitted maximum performance





C325 with 4-lobe rotor in AISI 316L and increased tolerance (LI-SM) code 1

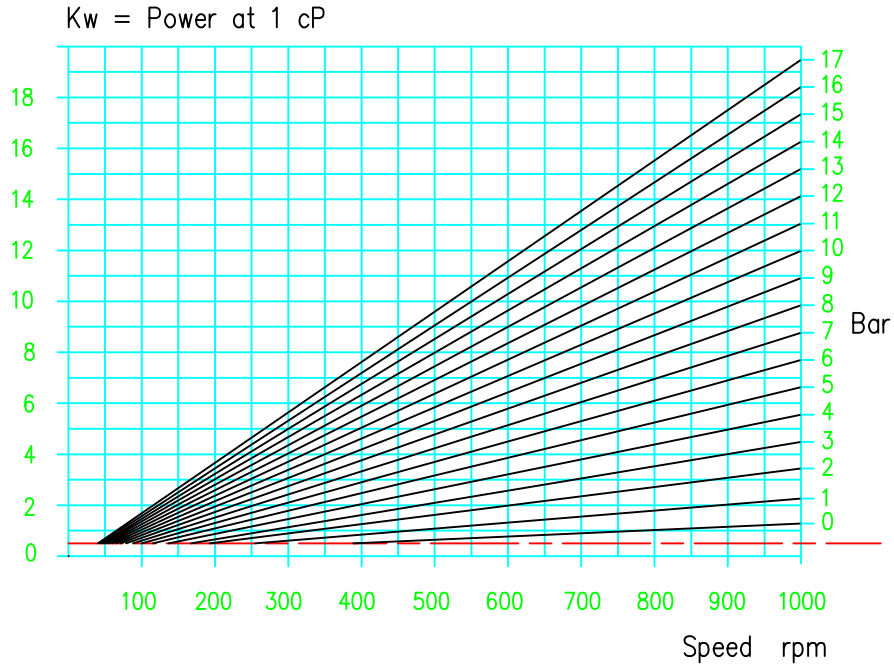


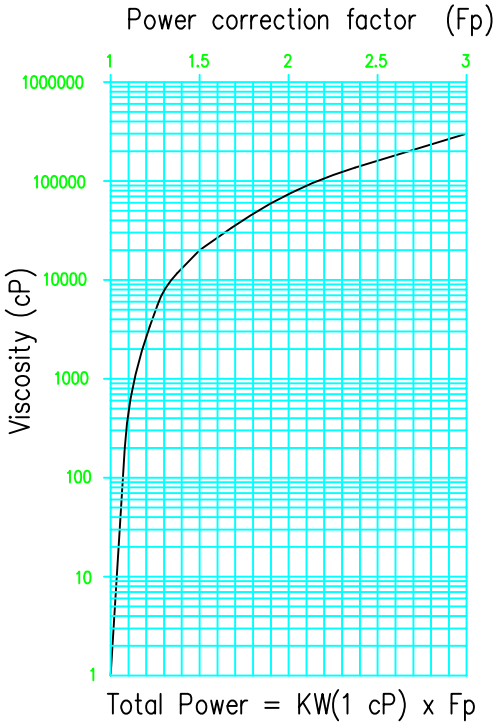


Max viscosity (cP) at 0 barg suction
Port bore Ø=60 mm.
Standard connections DN65 integral

Max speed at 1 cP = 720 r.p.m.

We advise to do not reach at the same time all permitted maximum performance





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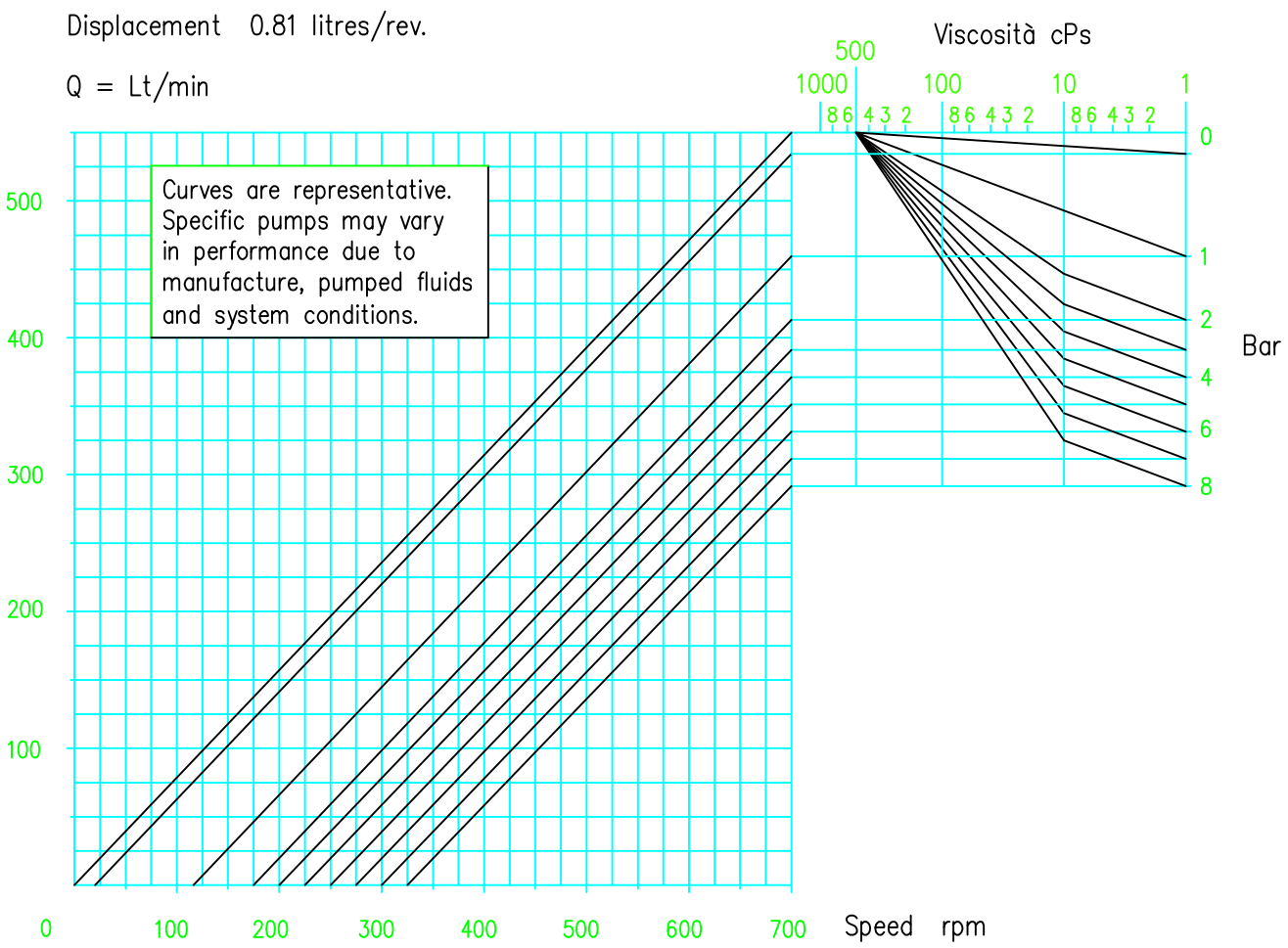
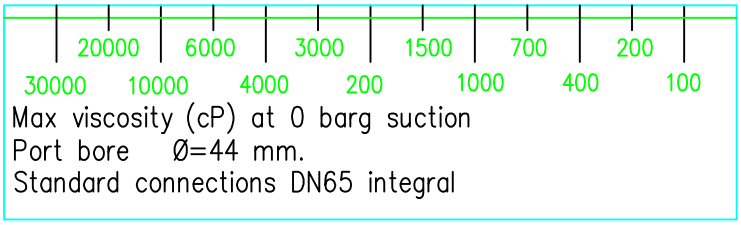
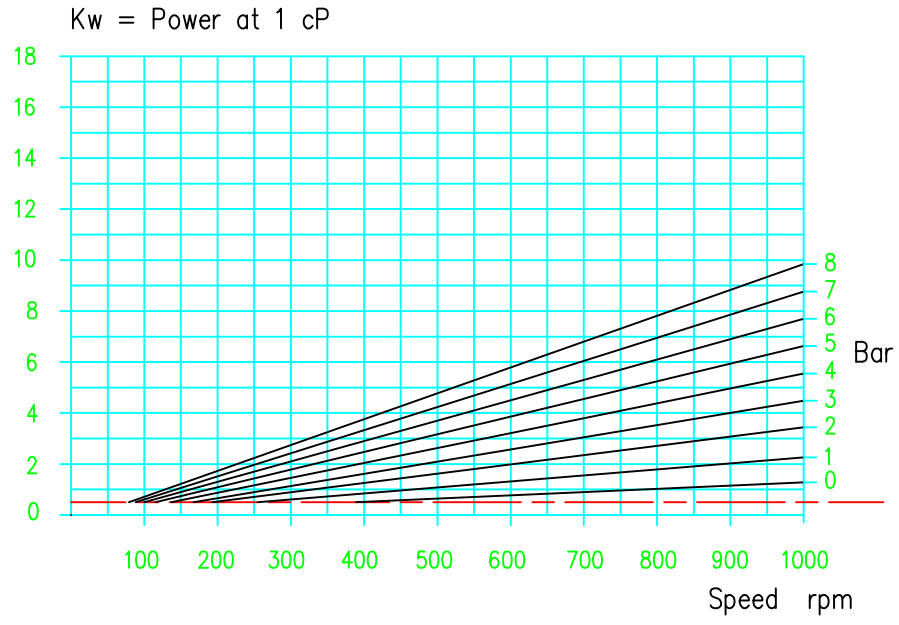
C330 with 4-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 0

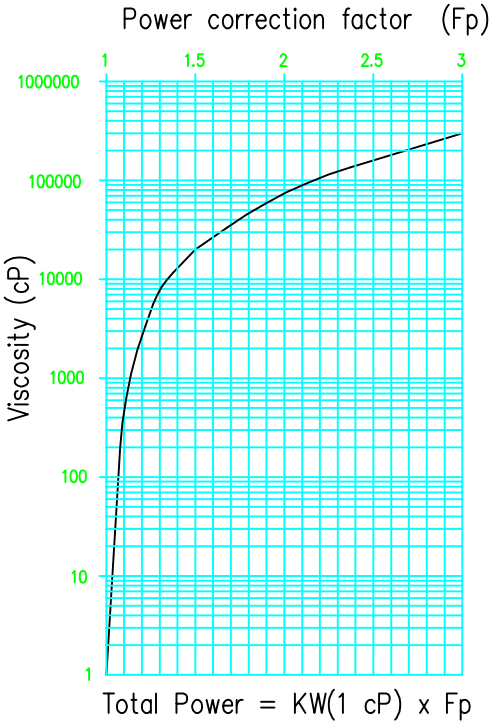




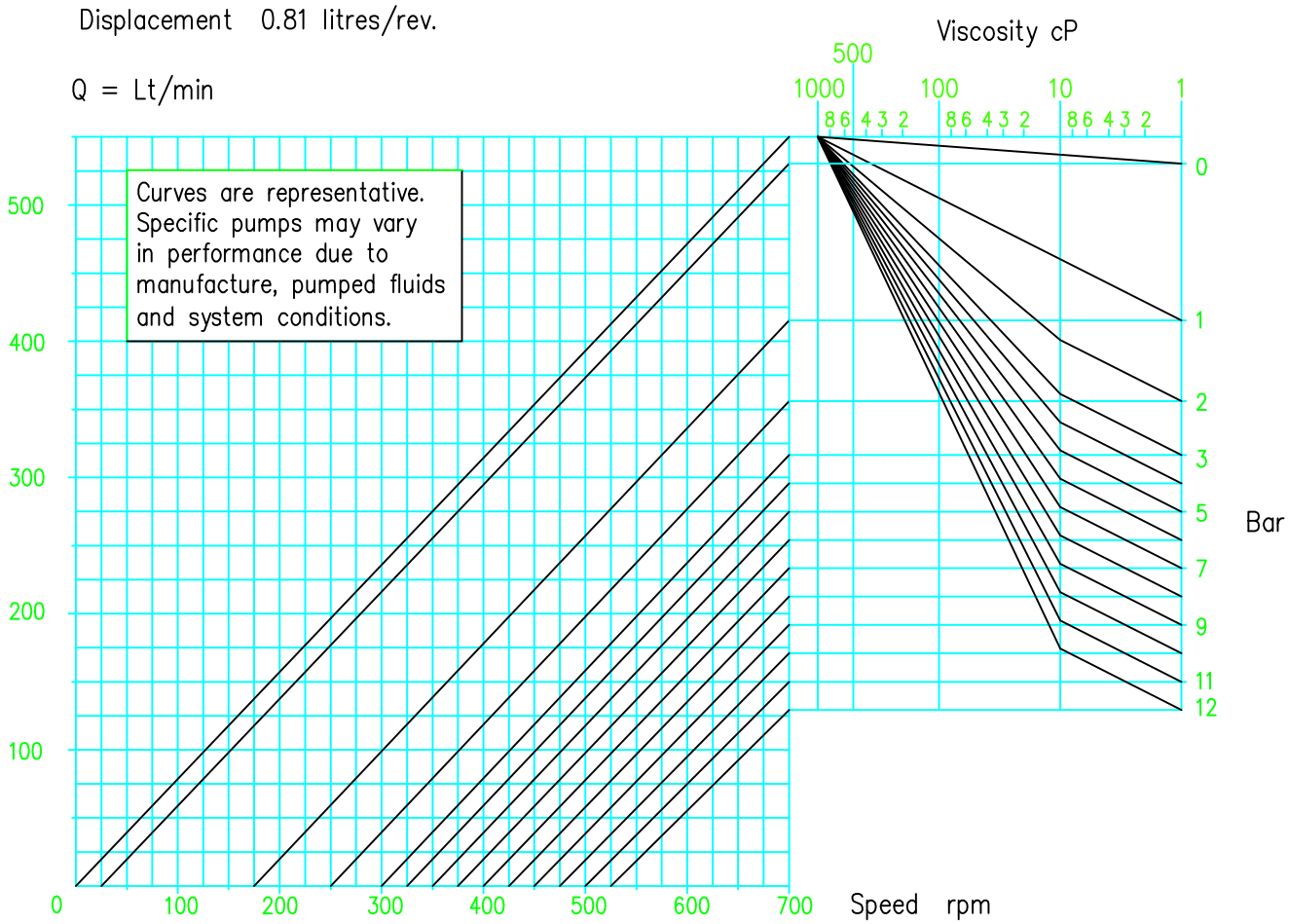
Max speed at 1 cP = 700 r.p.m.

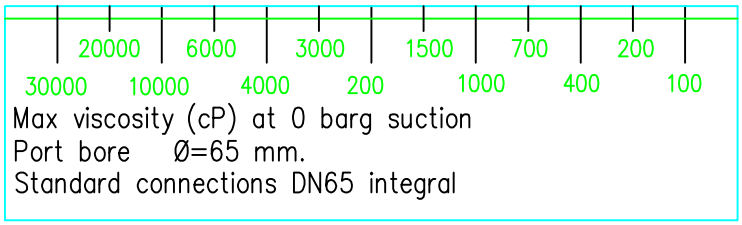
We advise to do not reach at the same time all permitted maximum performance





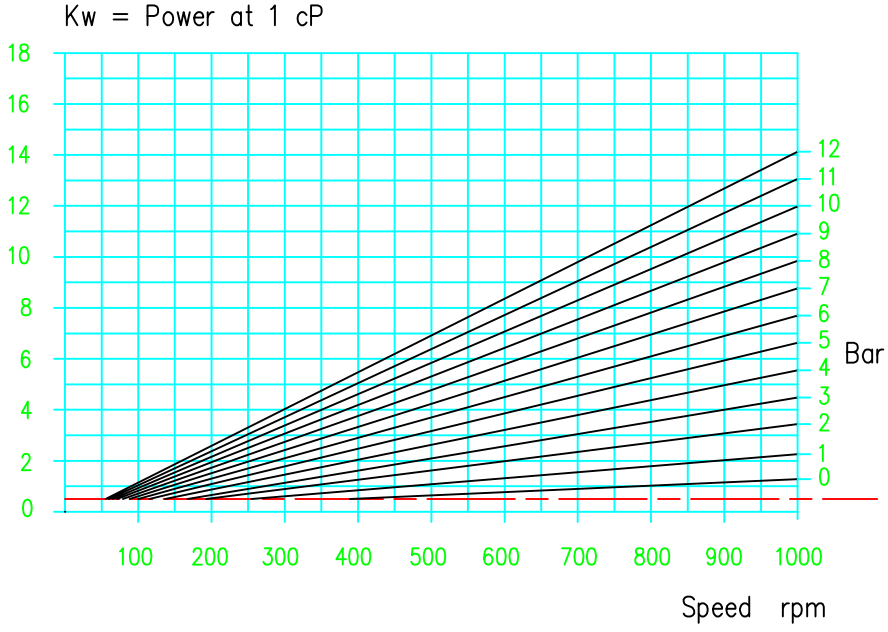
C330 with 4-lobe rotor in AISI 316L and increased tolerance (LI-SM) code 1

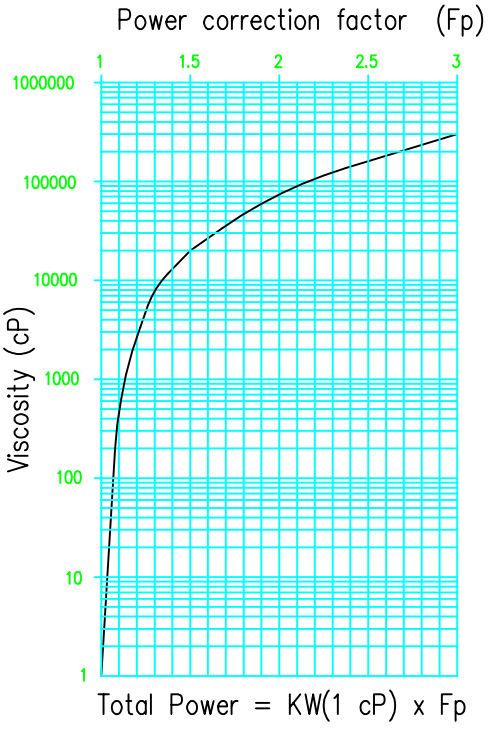




Max speed at 1 cP = 700 r.p.m.

We advise to do not reach at the same time all permitted maximum performance





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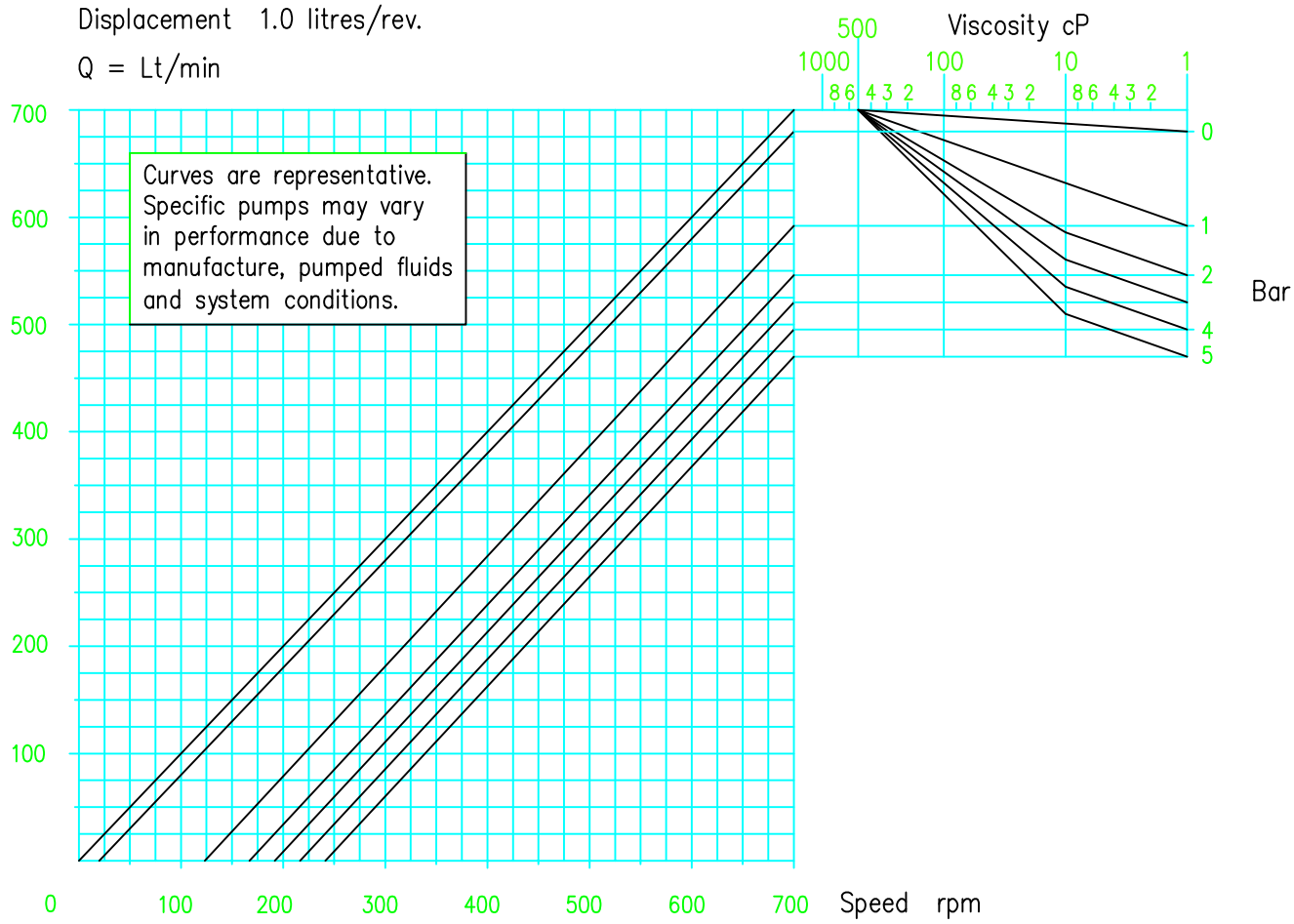
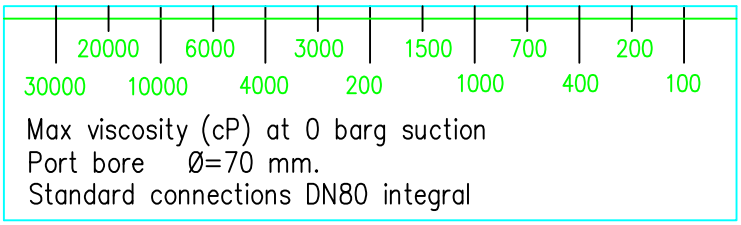
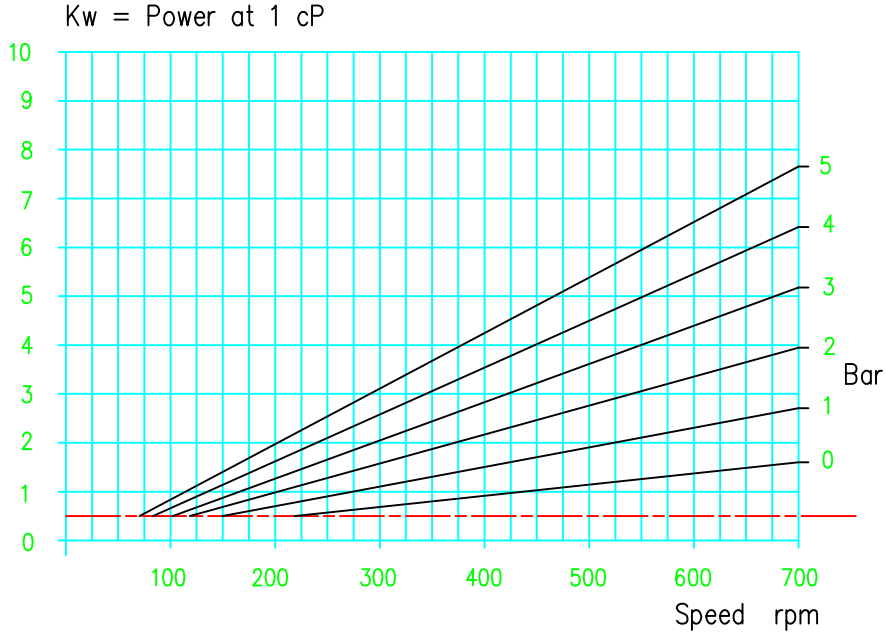
C390 with 4-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 0

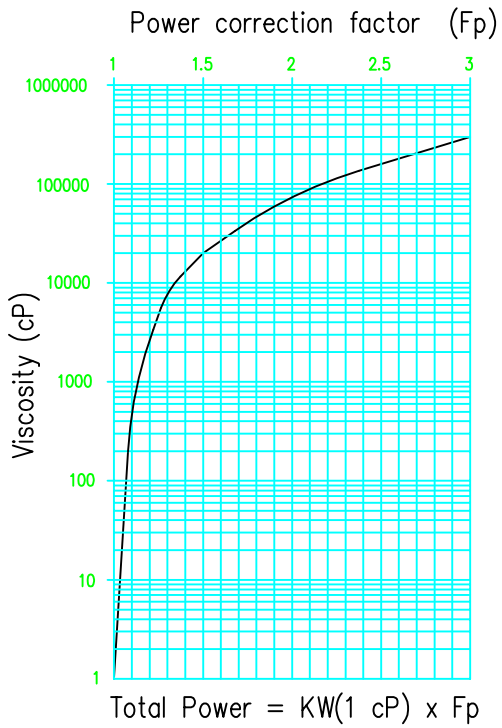




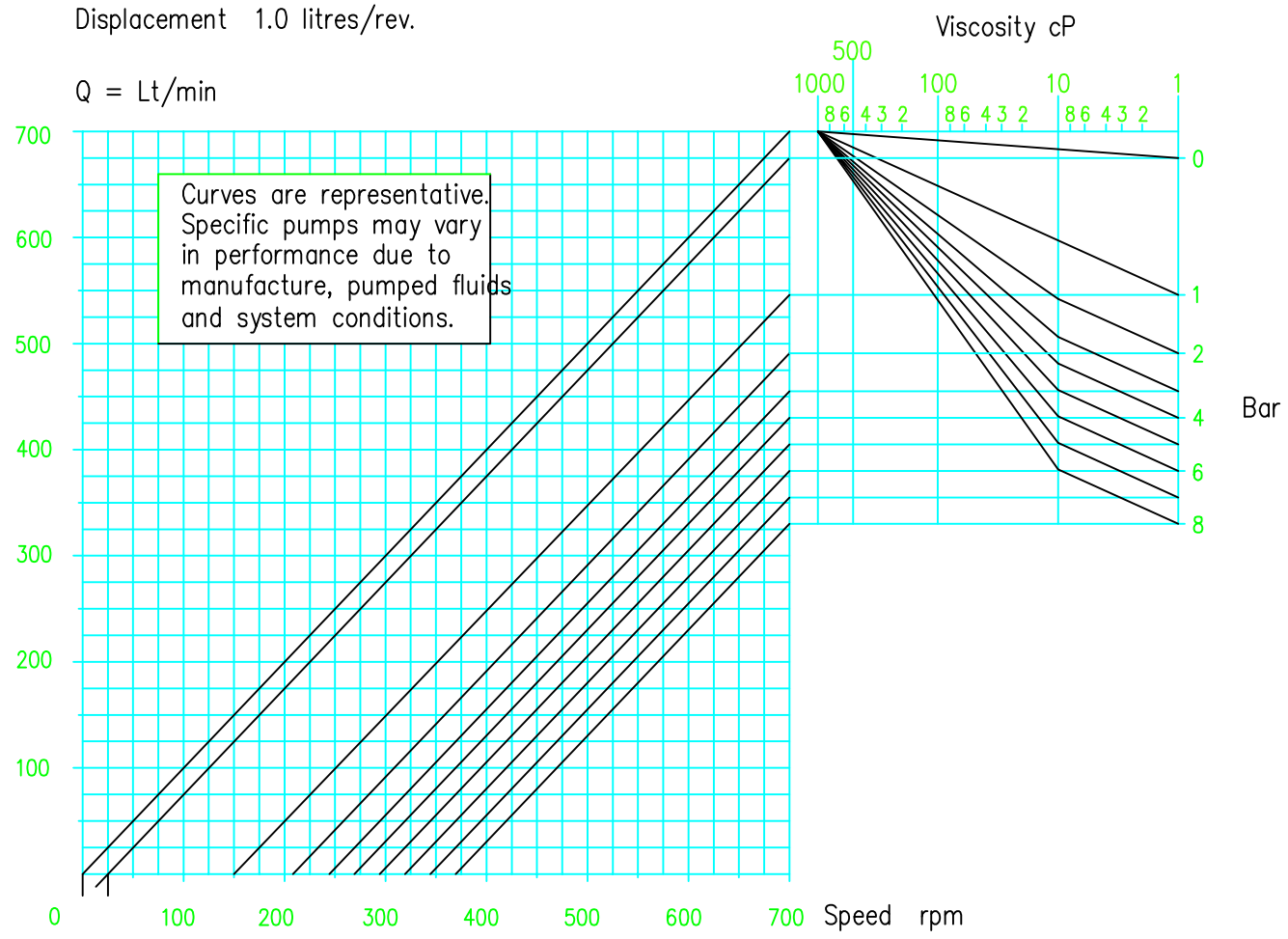
Max speed at 1 cP = 700 r.p.m.

We advise to do not reach at the same time all permitted maximum performance



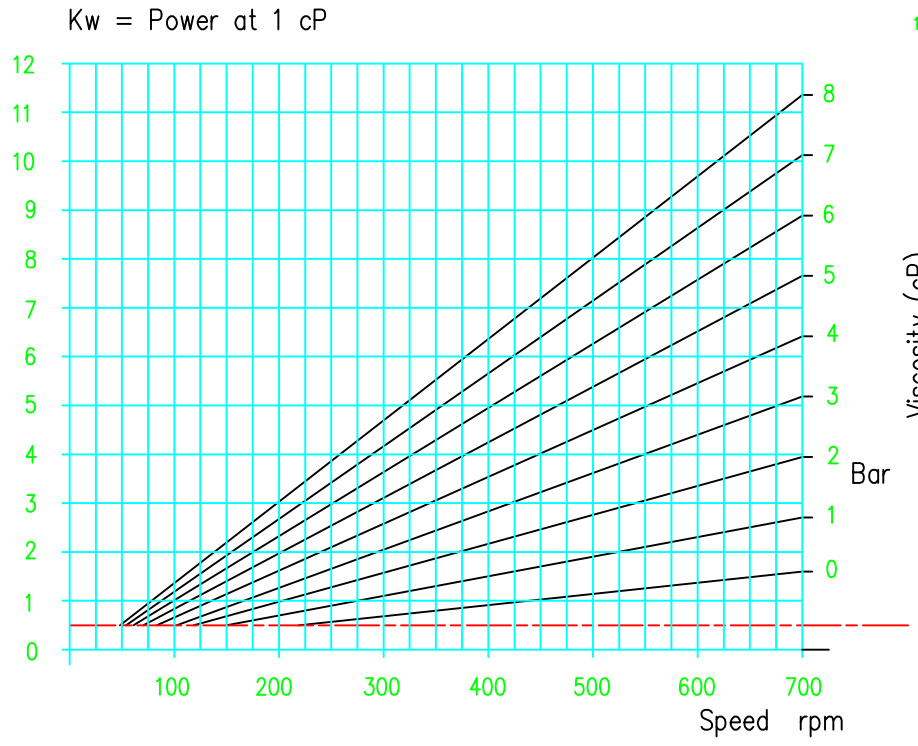


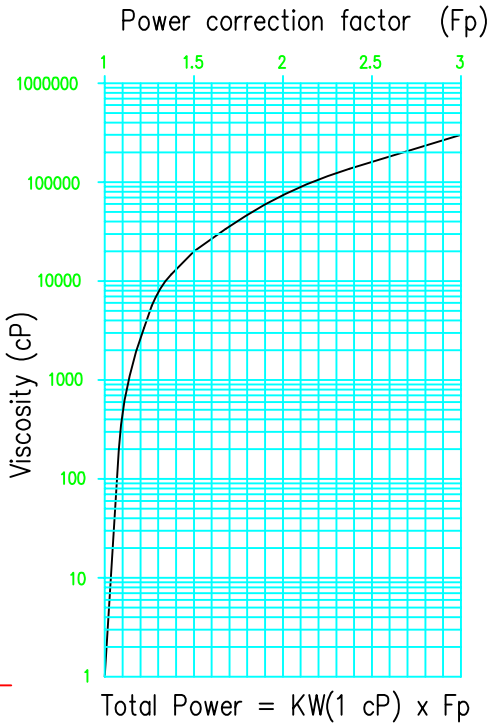
C390 with 4-lobe rotor in AISI 316L and increased tolerance (LI-SM) code 1



Max speed at 1 cP = 700 r.p.m.

We advise to do not reach at the same time all permitted maximum performance





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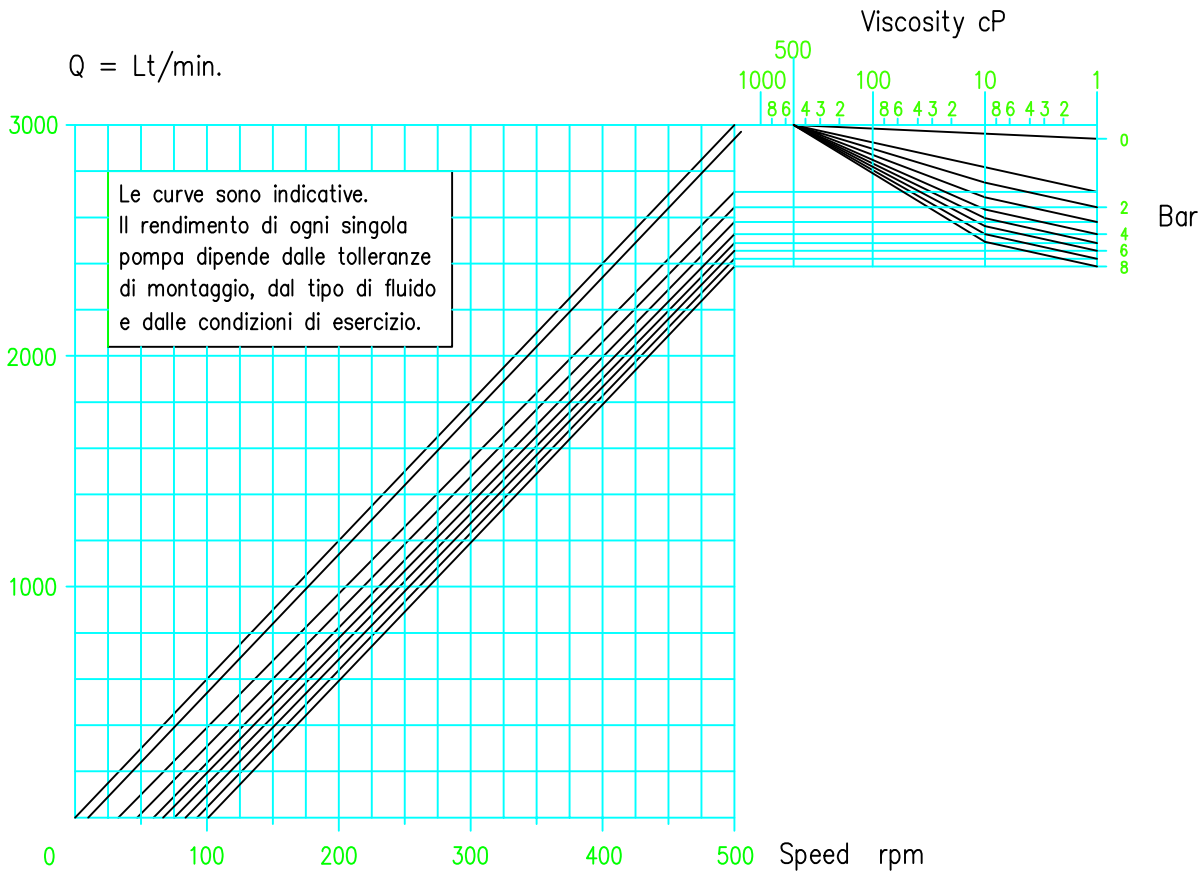
C570 with 4-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 0

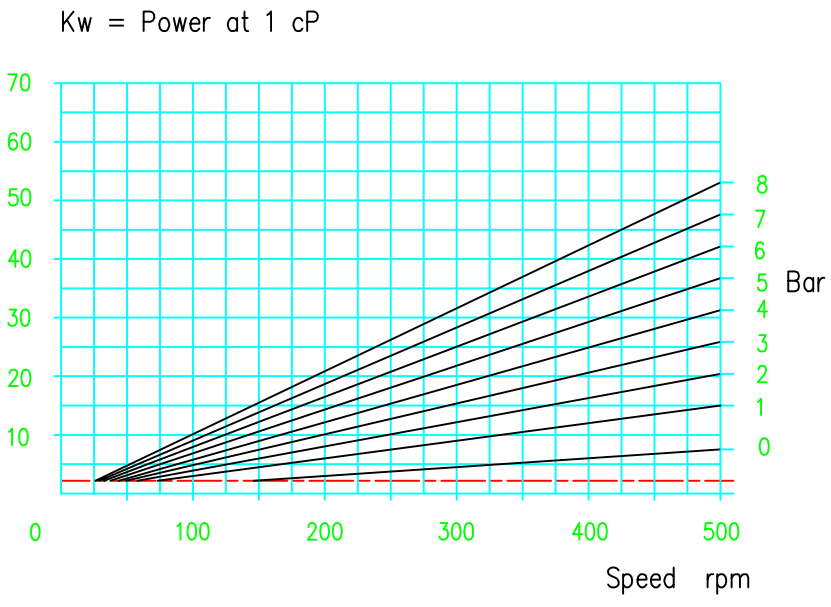
Displacement 6.0 litres/rev.

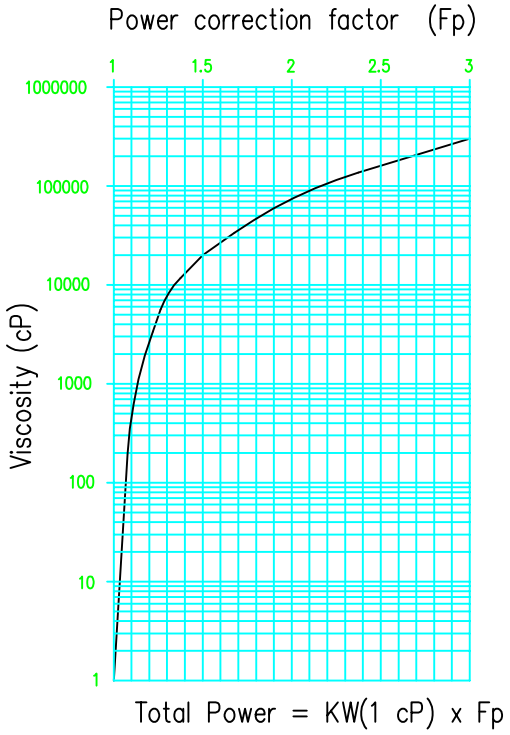


Max viscosity (cP) at 0 barg suction
Port bore Ø=115 mm.
Standard connections DN125 – 5" integral

Max speed at 1 cP = 400 r.p.m.

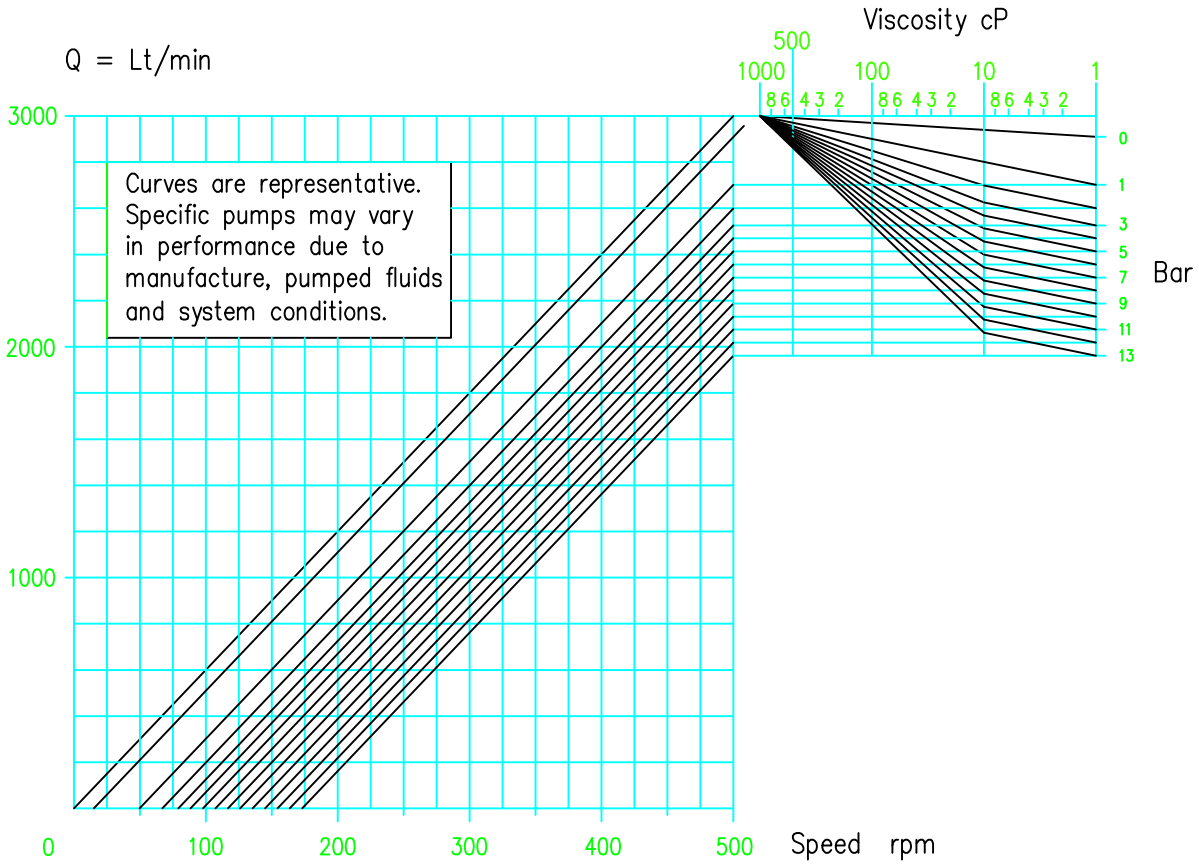
We advise to do not reach at the same time all permitted maximum performance

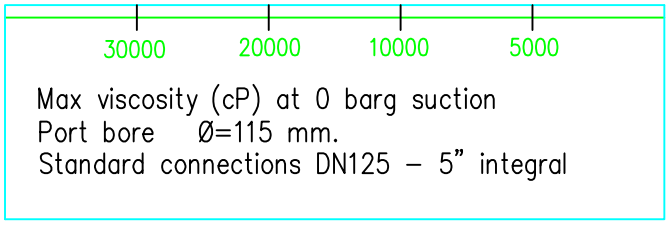




C570 with 4-lobe rotor in AISI 316L and increased tolerance (LI-SM) code 1

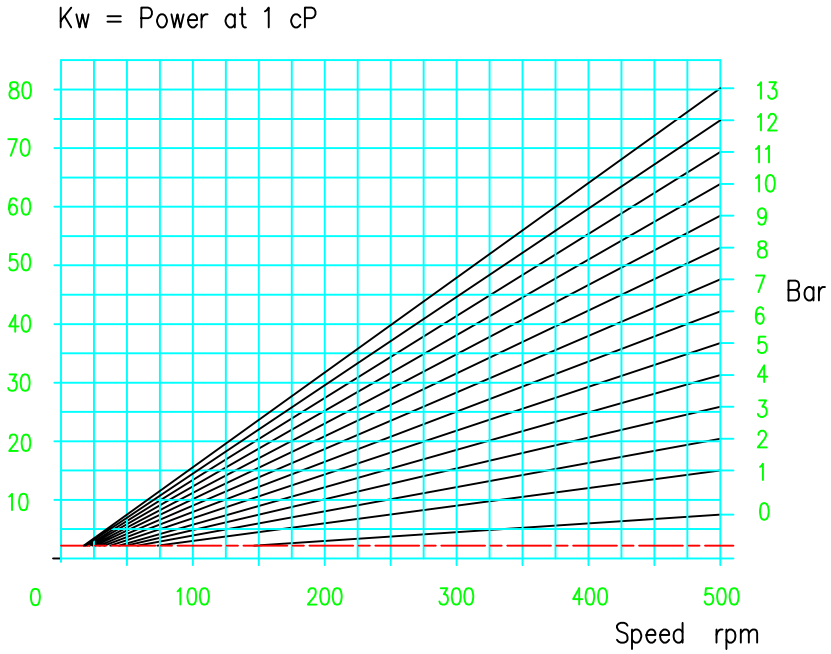
Displacement 6.0 litres/rev.

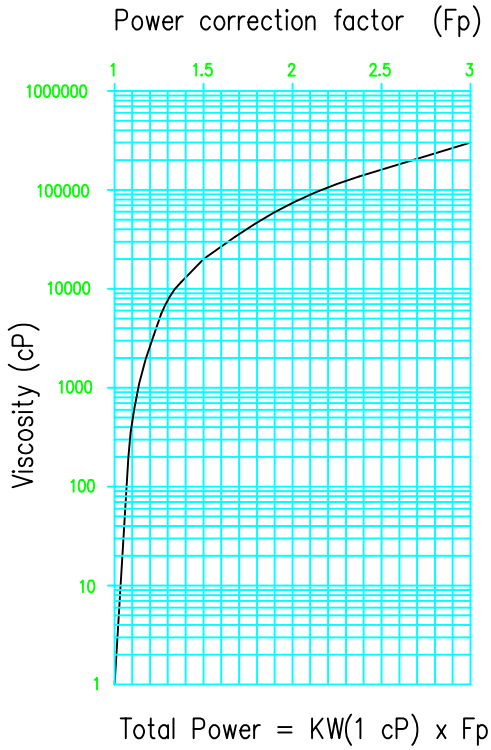




Max speed at 1 cP = 400 r.p.m.

We advise to do not reach at the same time all permitted maximum performance





Total Power = KW(1 cP) x Fp

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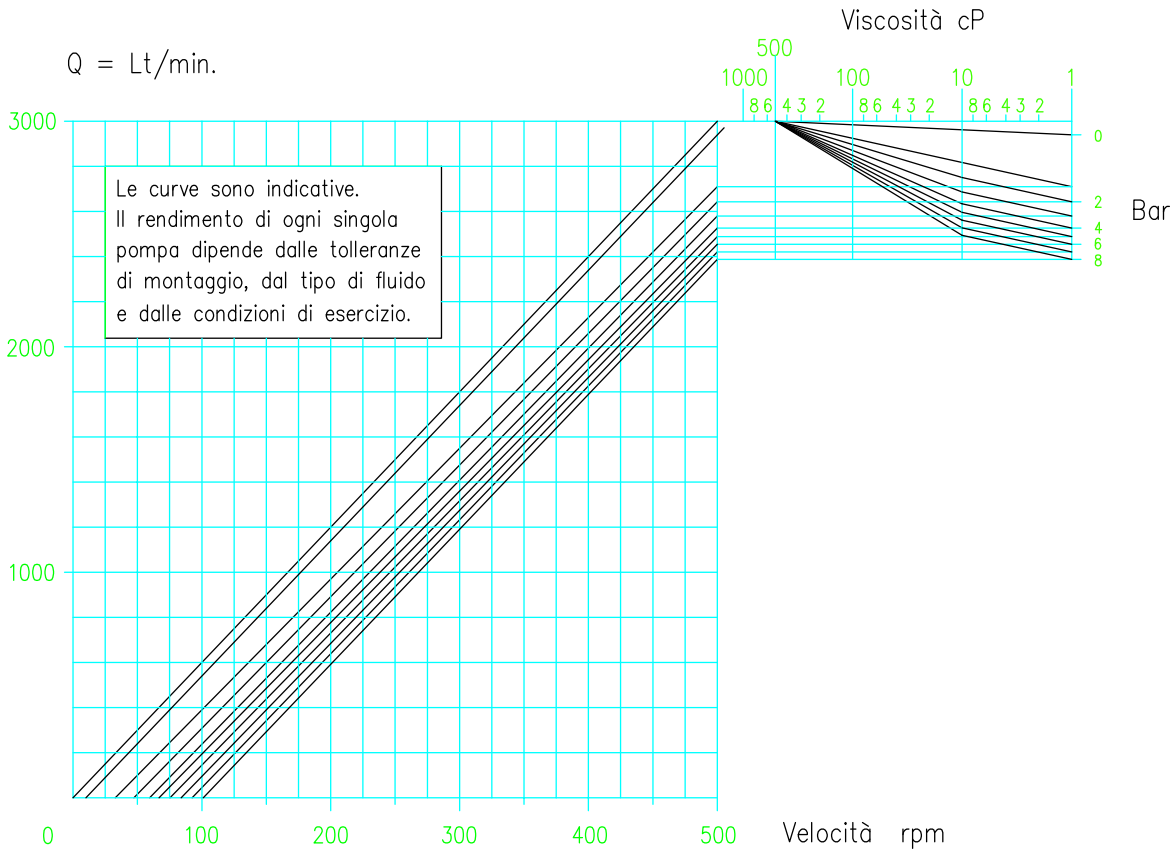
C570 con rotore trilobo in AISI 316L e tolleranza standard ST - codice 5

Portata volumetrica 6.0 litres/rev.

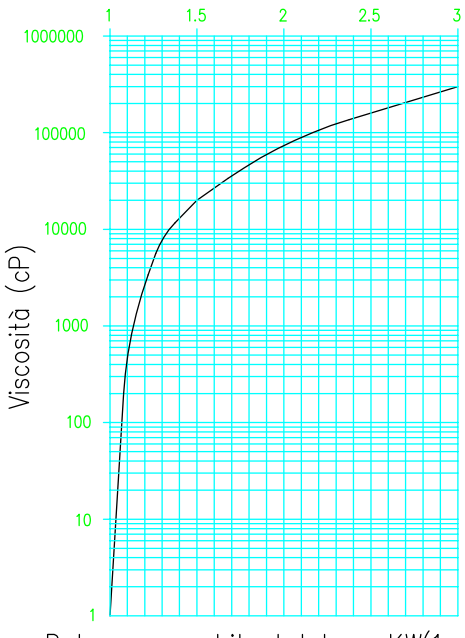


Max viscosità (cP) a 0 barg in aspirazione
Diametro interno standard Ø=115 mm.
Connessione standard DN125 – 5”

Max velocità a 1 cP = 400 r.p.m.

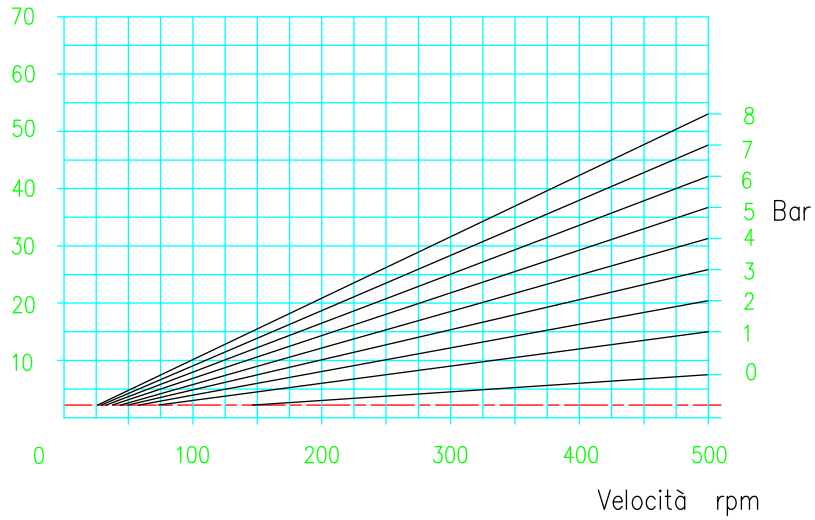
Si consiglia di non raggiungere contemporaneamente tutte le massime prestazioni consentite

Fattore di correzione della potenza (Fp)



Potenza assorbita totale = KW(1 cP) x Fp

Kw = Potenza richiesta a 1 cP



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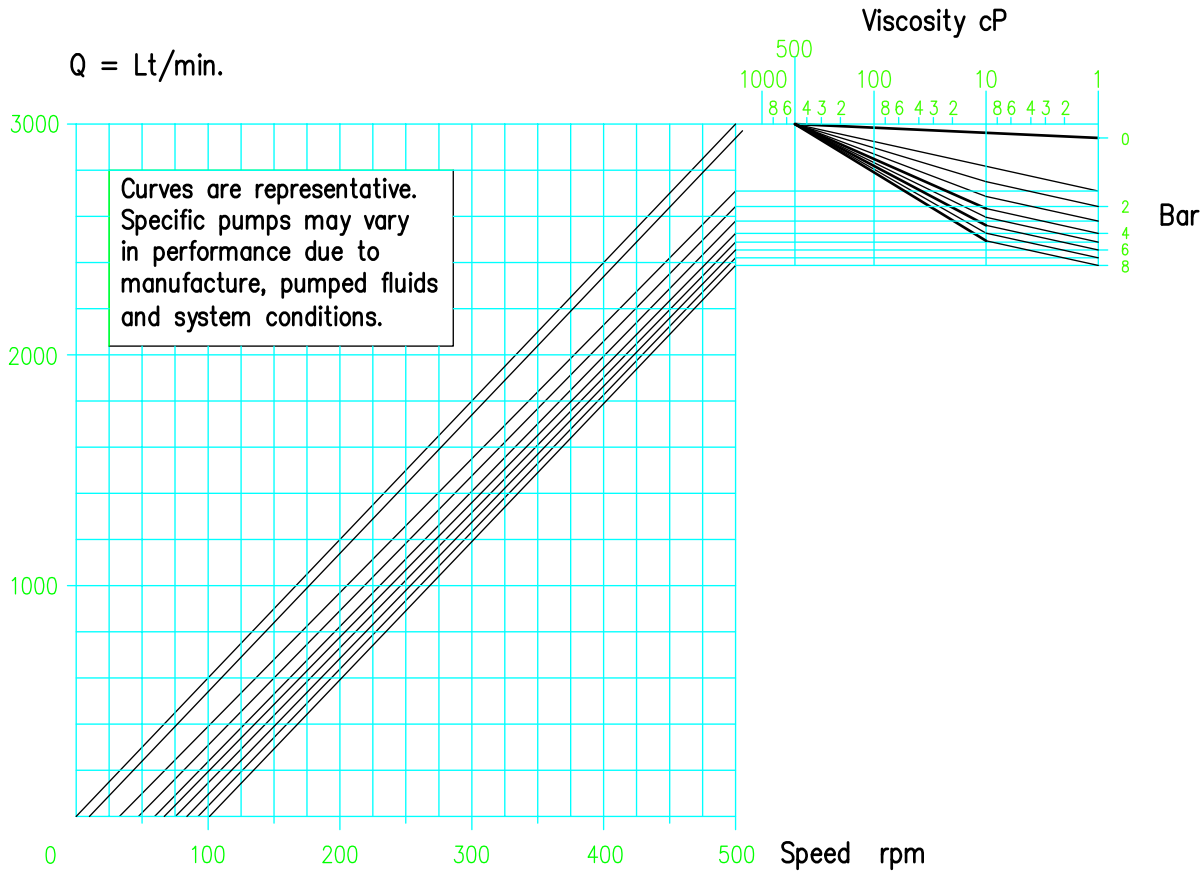
C570 with 3-lobe rotor in AISI 316L and standard tolerance (LI-ST) code 5

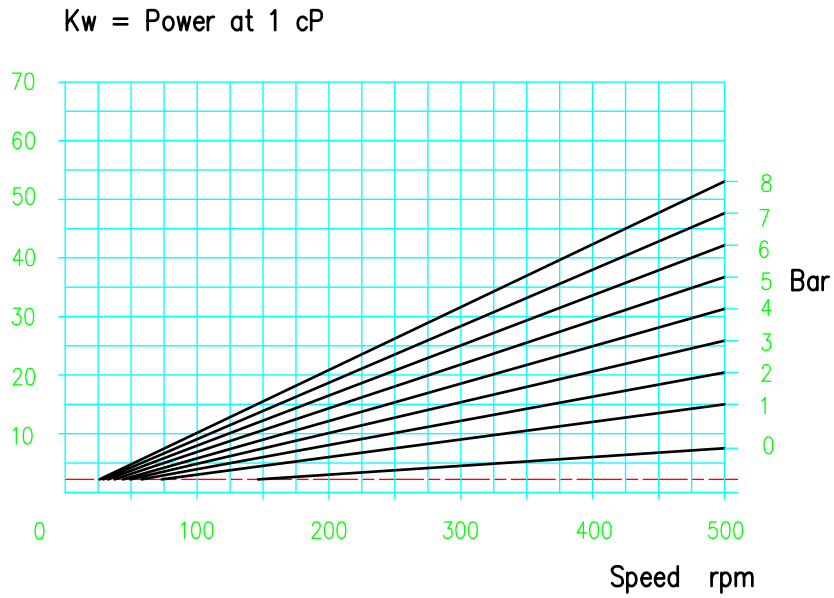
Displacement 6.0 litres/rev.

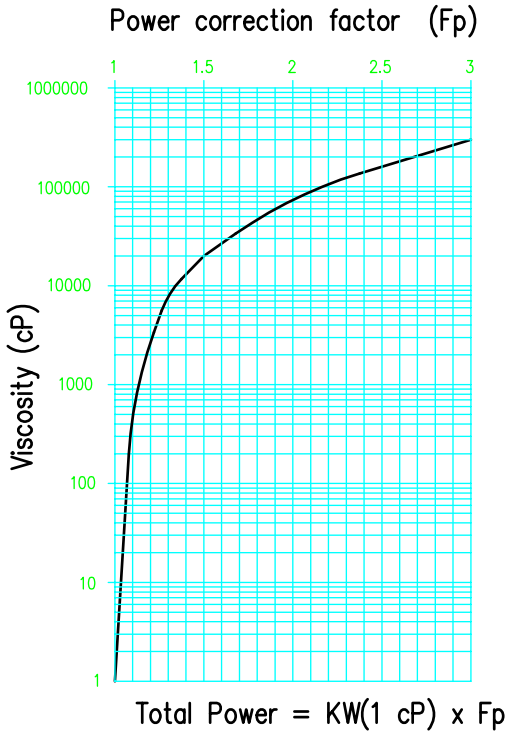


Max viscosity (cP) at 0 barg suction
Port bore Ø=115 mm.
Standard connections DN125 – 5" integral

Max speed at 1 cP = 400 r.p.m.

We advise to do not reach at the same time all permitted maximum performance





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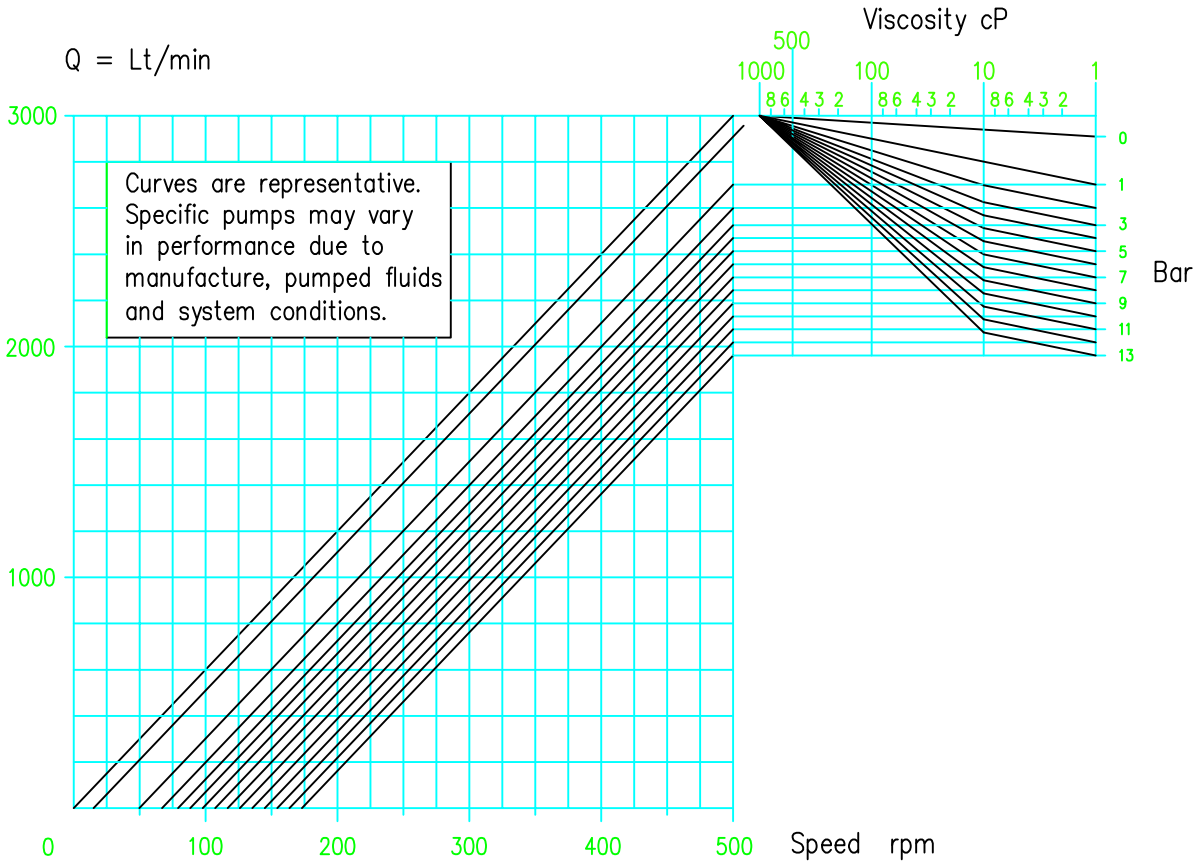
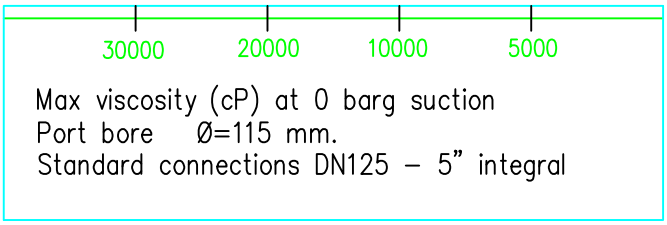
C570 with 3-lobe rotor in AISI 316L and increased tolerance (LI-SM) code 6

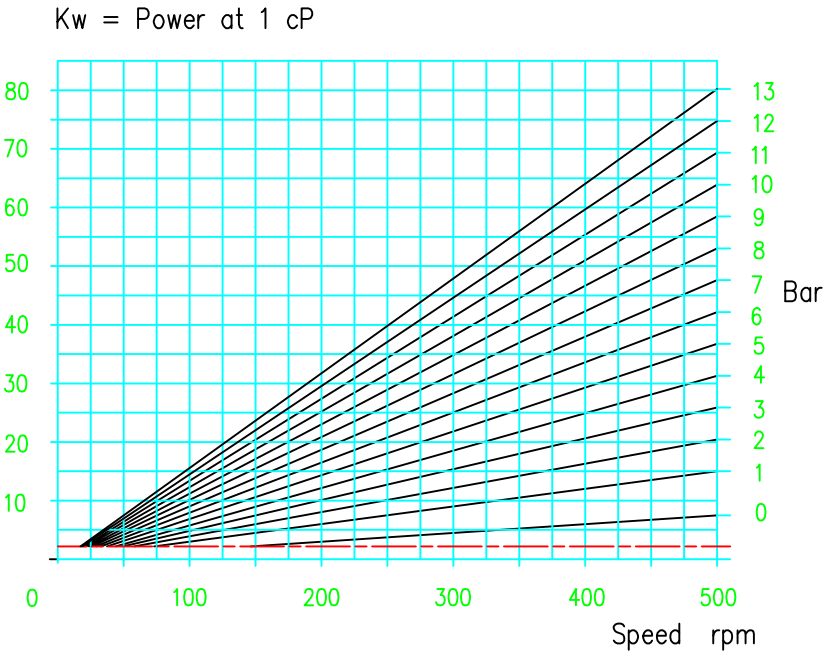
Displacement 6.0 litres/rev.

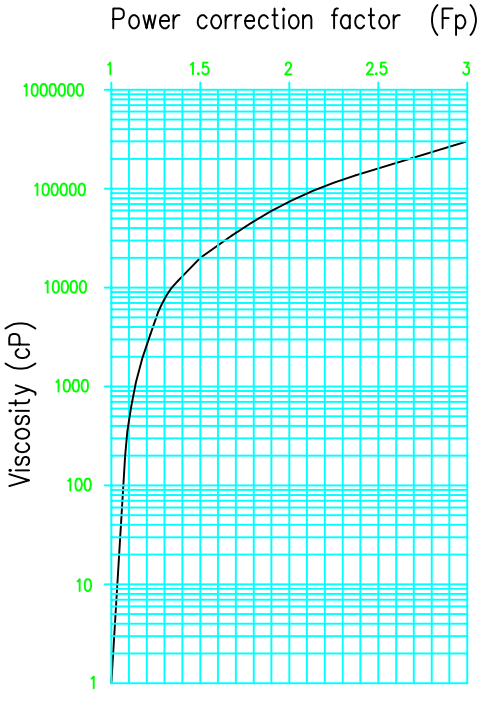




Max speed at 1 cP = 400 r.p.m.

We advise to do not reach at the same time all permitted maximum performance





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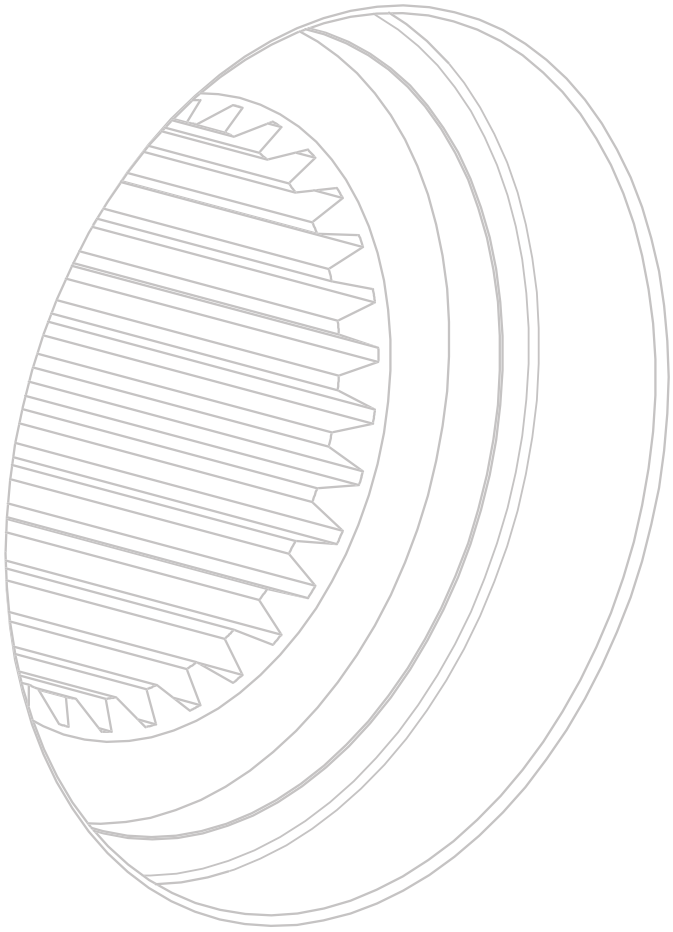

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