

Hygienic Pump

Vitalobe

Characteristic Curves Booklet



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Characteristic Curves Booklet Vitalobe

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Contents

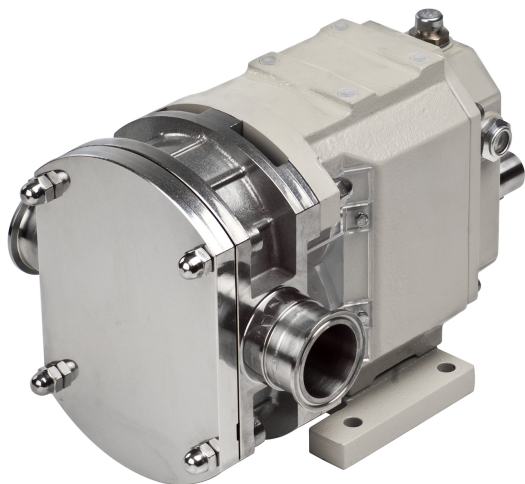
Hygienic Pump	5
Rotary Lobe Pump.....	5
Vitalobe	5
General	5
Overview of sizes.....	6
Vitalobe selection chart.....	8
Characteristic curves.....	9
Characteristic curve Vitalobe 100 - bi-lobe rotor - clearance: standard	9
Characteristic curve Vitalobe 100 - gear-shaped rotor - clearance: standard	10
NPSH curve Vitalobe 100	11
Characteristic curve Vitalobe 105 - bi-wing rotor - clearance: standard	12
Characteristic curve Vitalobe 105 - gear-shaped rotor - clearance: standard	13
Characteristic curve Vitalobe 105 - gear-shaped rotor - clearance: enlarged	14
NPSH curve Vitalobe 105	15
Characteristic curve Vitalobe 110 - tri-lobe rotor - clearance: standard.....	16
Characteristic curve Vitalobe 110 - tri-lobe rotor - clearance: enlarged.....	17
Characteristic curve Vitalobe 110 - bi-wing rotor - clearance: standard	18
Characteristic curve Vitalobe 110 - bi-wing rotor - clearance: enlarged	19
NPSH curve Vitalobe 110	20
Characteristic curve Vitalobe 115 - tri-lobe rotor - clearance: standard.....	21
Characteristic curve Vitalobe 115 - tri-lobe rotor - clearance: enlarged.....	22
Characteristic curve Vitalobe 115 - bi-wing rotor - clearance: standard	23
NPSH curve Vitalobe 115	24
Characteristic curve Vitalobe 215 - bi-lobe rotor - clearance: standard	25
Characteristic curve Vitalobe 215 - tri-lobe rotor - clearance: standard.....	26
Characteristic curve Vitalobe 215 - tri-lobe rotor - clearance: enlarged.....	27
Characteristic curve Vitalobe 215 - bi-wing rotor - clearance: standard	28
Characteristic curve Vitalobe 215 - bi-wing rotor - clearance: enlarged	29
NPSH curve Vitalobe 215	30
Characteristic curve Vitalobe 220 - bi-lobe rotor - clearance: standard	31
Characteristic curve Vitalobe 220 - tri-lobe rotor - clearance: standard.....	32
Characteristic curve Vitalobe 220 - tri-lobe rotor - clearance: enlarged.....	33
Characteristic curve Vitalobe 220 - bi-wing rotor - clearance: standard	34
Characteristic curve Vitalobe 220 - bi-wing rotor - clearance: enlarged	35
NPSH curve Vitalobe 220	36
Characteristic curve Vitalobe 325 - bi-lobe rotor - clearance: standard	37
Characteristic curve Vitalobe 325 - tri-lobe rotor - clearance: standard.....	38
Characteristic curve Vitalobe 325 - tri-lobe rotor - clearance: enlarged.....	39
Characteristic curve Vitalobe 325 - bi-wing rotor - clearance: standard	40
Characteristic curve Vitalobe 325 - bi-wing rotor - clearance: enlarged	41
NPSH curve Vitalobe 325	42
Characteristic curve Vitalobe 330 - bi-lobe rotor - clearance: standard	43
Characteristic curve Vitalobe 330 - bi-lobe rotor - clearance: enlarged	44
Characteristic curve Vitalobe 330 - tri-lobe rotor - clearance: standard.....	45
Characteristic curve Vitalobe 330 - tri-lobe rotor - clearance: enlarged.....	46
Characteristic curve Vitalobe 330 - bi-wing rotor - clearance: standard	47
Characteristic curve Vitalobe 330 - bi-wing rotor - clearance: enlarged	48
NPSH curve Vitalobe 330	49
Characteristic curve Vitalobe 390 - bi-lobe rotor - clearance: standard	50
Characteristic curve Vitalobe 390 - tri-lobe rotor - clearance: standard.....	51
Characteristic curve Vitalobe 390 - tri-lobe rotor - clearance: enlarged.....	52
Characteristic curve Vitalobe 390 - bi-wing rotor - clearance: standard	53
NPSH curve Vitalobe 390	54
Characteristic curve Vitalobe 430 - bi-lobe rotor - clearance: standard	55
Characteristic curve Vitalobe 430 - tri-lobe rotor - clearance: standard.....	56
Characteristic curve Vitalobe 430 - tri-lobe rotor - clearance: enlarged.....	57
Characteristic curve Vitalobe 430 - bi-wing rotor - clearance: standard	58
Characteristic curve Vitalobe 430 - bi-wing rotor - clearance: enlarged	59
NPSH curve Vitalobe 430	60
Characteristic curve Vitalobe 440 - bi-lobe rotor - clearance: standard	61
Characteristic curve Vitalobe 440 - tri-lobe rotor - clearance: standard.....	62
Characteristic curve Vitalobe 440 - tri-lobe rotor - clearance: enlarged.....	63
Characteristic curve Vitalobe 440 - bi-wing rotor - clearance: standard	64

Characteristic curve Vitalobe 440 - bi-wing rotor - clearance: enlarged	65
NPSH curve Vitalobe 440	66
Characteristic curve Vitalobe 470 - bi-lobe rotor - clearance: standard	67
Characteristic curve Vitalobe 470 - tri-lobe rotor - clearance: standard	68
Characteristic curve Vitalobe 470 - tri-lobe rotor - clearance: enlarged	69
Characteristic curve Vitalobe 470 - bi-wing rotor - clearance: standard	70
Characteristic curve Vitalobe 470 - bi-wing rotor - clearance: enlarged	71
NPSH curve Vitalobe 470	72
Characteristic curve Vitalobe 490 - bi-lobe rotor - clearance: standard	73
Characteristic curve Vitalobe 490 - tri-lobe rotor - clearance: standard	74
Characteristic curve Vitalobe 490 - tri-lobe rotor - clearance: enlarged	75
Characteristic curve Vitalobe 490 - bi-wing rotor - clearance: standard	76
Characteristic curve Vitalobe 490 - bi-wing rotor - clearance: enlarged	77
NPSH curve Vitalobe 490	78
Characteristic curve Vitalobe 550 - bi-lobe rotor - clearance: standard	79
Characteristic curve Vitalobe 550 - tri-lobe rotor - clearance: standard	80
Characteristic curve Vitalobe 550 - tri-lobe rotor - clearance: enlarged	81
Characteristic curve Vitalobe 550 - bi-wing rotor - clearance: standard	82
NPSH curve Vitalobe 550	83
Characteristic curve Vitalobe 660 - tri-lobe rotor - clearance: standard	84
Characteristic curve Vitalobe 680 - tri-lobe rotor - clearance: standard	85
NPSH curve Vitalobe 660-680	86

Hygienic Pump

Rotary Lobe Pump

Vitalobe



General

Test class: Characteristic curves to ISO 9906 Class 3B

NPSH values

The NPSH values indicated in the characteristic curves correspond to a head drop of 3 %.

NPSH values in part-load conditions

NPSH values for flow rates below $Q = 0.3 \times Q_{opt}$ can only be measured with intense technical efforts. Evidence of NPSH values in the part-load range cannot be provided.

Density of the fluid handled

The indicated heads and performance data apply to pumped fluids with a density $\rho = 1.0 \text{ kg/dm}^3$ and a kinematic viscosity ν of up to $20 \text{ mm}^2/\text{s}$ max. If the density $\neq 1.0$, the performance data must be multiplied by ρ . For viscosities $>20 \text{ mm}^2/\text{s}$ the corresponding data for cold water has to be calculated and the impact on the pump's performance has to be determined.

Friction loss

For some design variants (reinforced bearings, specific shaft seals) friction losses must be considered and indicated as additional power requirement in the data sheet.

Correction factors

The characteristic curves apply to pumps with cast iron or bronze impellers. When using an impeller made of cast steel materials the efficiency and pump power of the corresponding pump sizes have to be multiplied by the correction factors indicated in the characteristic curves.

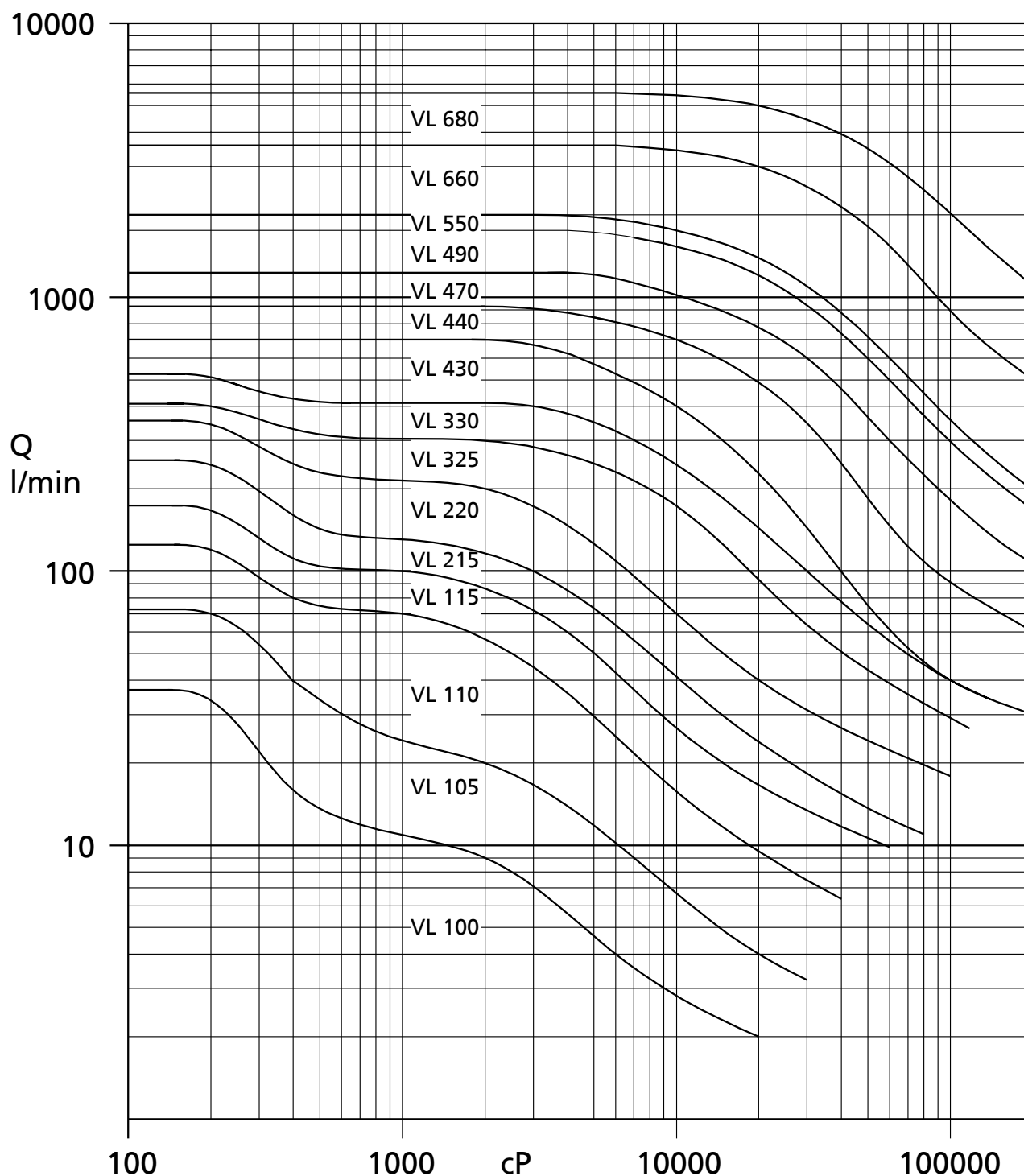
Overview of sizes

Contents page individual characteristic curves Vitalobe

Size	Clearance	
	Standard	Enlarged
Vitalobe 100 - bi-lobe rotor	(⇒ Page 9)	-
Vitalobe 100 - gear-shaped rotor	(⇒ Page 10)	-
NPSH curve Vitalobe 100	(⇒ Page 11)	
Vitalobe 105 - bi-wing rotor	(⇒ Page 12)	-
Vitalobe 105 - gear-shaped rotor	(⇒ Page 13)	(⇒ Page 14)
NPSH curve Vitalobe 105	(⇒ Page 15)	
Vitalobe 110 - tri-lobe rotor	(⇒ Page 16)	(⇒ Page 17)
Vitalobe 110 - bi-wing rotor	(⇒ Page 18)	(⇒ Page 19)
NPSH curve Vitalobe 110	(⇒ Page 20)	
Vitalobe 115 - tri-lobe rotor	(⇒ Page 21)	(⇒ Page 22)
Vitalobe 115 - bi-wing rotor	(⇒ Page 23)	-
NPSH curve Vitalobe 115	(⇒ Page 24)	
Vitalobe 215 - bi-lobe rotor	(⇒ Page 25)	-
Vitalobe 215 - tri-lobe rotor	(⇒ Page 26)	(⇒ Page 27)
Vitalobe 215 - bi-wing rotor	(⇒ Page 28)	(⇒ Page 29)
NPSH curve Vitalobe 215	(⇒ Page 30)	
Vitalobe 220 - bi-lobe rotor	(⇒ Page 31)	-
Vitalobe 220 - tri-lobe rotor	(⇒ Page 32)	(⇒ Page 33)
Vitalobe 220 - bi-wing rotor	(⇒ Page 34)	(⇒ Page 35)
NPSH curve Vitalobe 220	(⇒ Page 36)	
Vitalobe 325 - bi-lobe rotor	(⇒ Page 37)	-
Vitalobe 325 - tri-lobe rotor	(⇒ Page 38)	(⇒ Page 39)
Vitalobe 325 - bi-wing rotor	(⇒ Page 40)	(⇒ Page 41)
NPSH curve Vitalobe 325	(⇒ Page 42)	
Vitalobe 330 - bi-lobe rotor	(⇒ Page 43)	(⇒ Page 44)
Vitalobe 330 - tri-lobe rotor	(⇒ Page 45)	(⇒ Page 46)
Vitalobe 330 - bi-wing rotor	(⇒ Page 47)	(⇒ Page 48)
NPSH curve Vitalobe 330	(⇒ Page 49)	
Vitalobe 390 - bi-lobe rotor	(⇒ Page 50)	-
Vitalobe 390 - tri-lobe rotor	(⇒ Page 51)	(⇒ Page 52)
Vitalobe 390 - bi-wing rotor	(⇒ Page 53)	-
NPSH curve Vitalobe 390	(⇒ Page 54)	
Vitalobe 430 - bi-lobe rotor	(⇒ Page 55)	-
Vitalobe 430 - tri-lobe rotor	(⇒ Page 56)	(⇒ Page 57)
Vitalobe 430 - bi-wing rotor	(⇒ Page 58)	(⇒ Page 59)
NPSH curve Vitalobe 430	(⇒ Page 60)	
Vitalobe 440 - bi-lobe rotor	(⇒ Page 61)	-
Vitalobe 440 - tri-lobe rotor	(⇒ Page 62)	(⇒ Page 63)
Vitalobe 440 - bi-wing rotor	(⇒ Page 64)	(⇒ Page 65)
NPSH curve Vitalobe 440	(⇒ Page 66)	
Vitalobe 470 - bi-lobe rotor	(⇒ Page 67)	-

Size	Clearance	
	Standard	Enlarged
Vitalobe 470 - tri-lobe rotor	(⇒ Page 68)	(⇒ Page 69)
Vitalobe 470 - bi-wing rotor	(⇒ Page 70)	(⇒ Page 71)
NPSH curve Vitalobe 470	(⇒ Page 72)	
Vitalobe 490 - bi-lobe rotor	(⇒ Page 73)	-
Vitalobe 490 - tri-lobe rotor	(⇒ Page 74)	(⇒ Page 75)
Vitalobe 490 - bi-wing rotor	(⇒ Page 76)	(⇒ Page 77)
NPSH curve Vitalobe 490	(⇒ Page 78)	
Vitalobe 550 - bi-lobe rotor	(⇒ Page 79)	-
Vitalobe 550 - tri-lobe rotor	(⇒ Page 80)	(⇒ Page 81)
Vitalobe 550 - bi-wing rotor	(⇒ Page 82)	-
NPSH curve Vitalobe 550	(⇒ Page 83)	
Vitalobe 660 - tri-lobe rotor	(⇒ Page 84)	-
Vitalobe 680 - tri-lobe rotor	(⇒ Page 85)	-
NPSH curve Vitalobe 660-680	(⇒ Page 86)	

Vitalobe selection chart



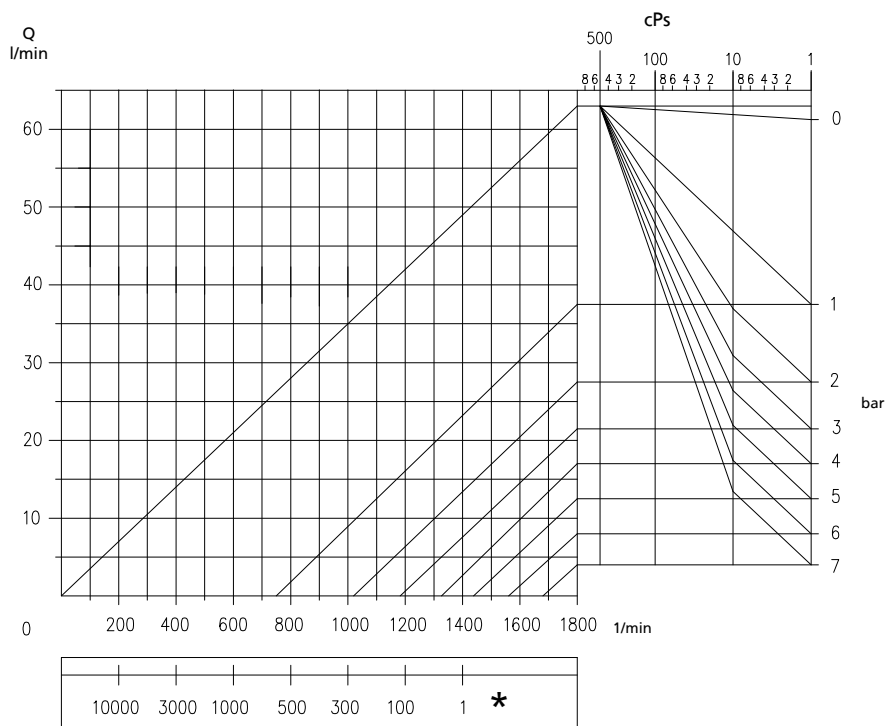
1) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curves

Characteristic curve Vitalobe 100 - bi-lobe rotor - clearance: standard

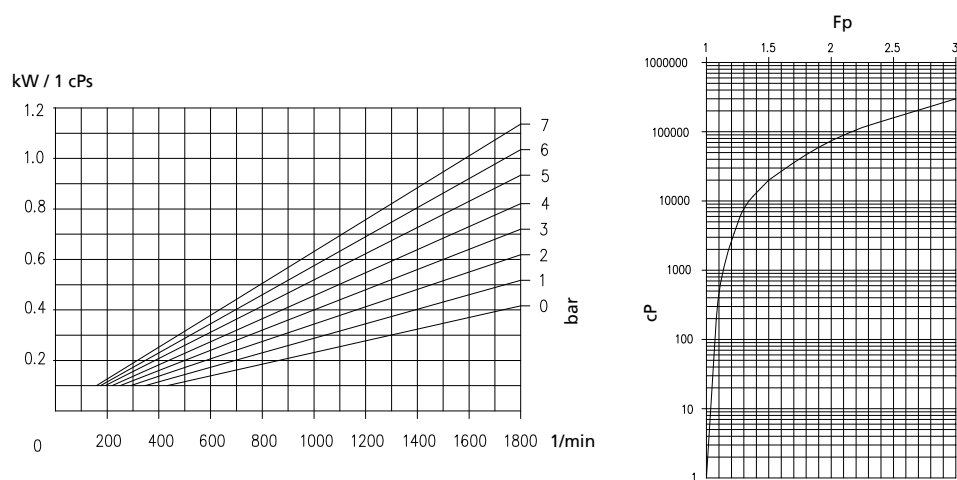
Characteristic curve Vitalobe 100 - bi-lobe rotor - clearance: standard

Flow rate: 0.035 l/rotation ¹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 22 mm
Standard nominal nozzle diameter DN 25
Max. speed at 1 cPs = 1400 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 100 - bi-lobe rotor - clearance: standard

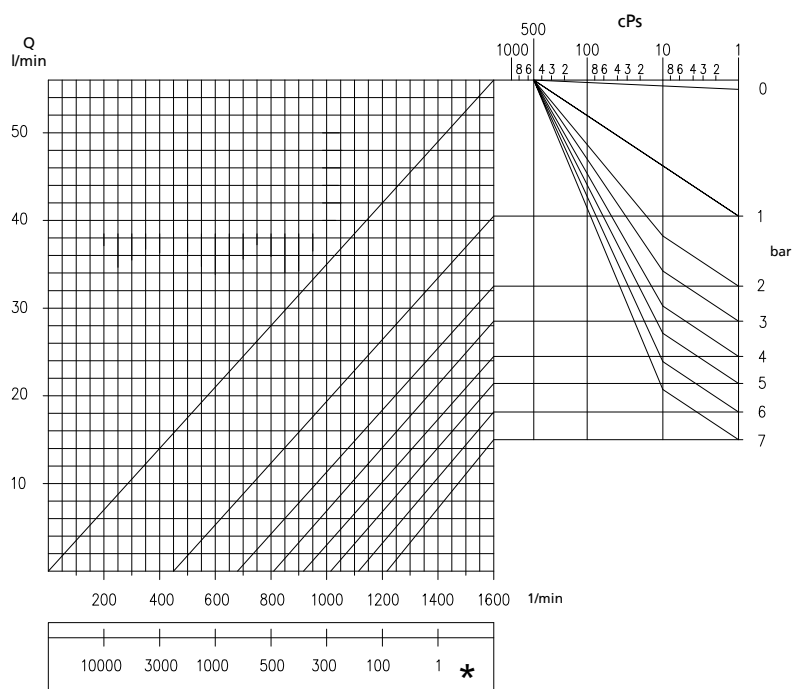


Total power = kW (1 cPs) x Fp

Characteristic curve Vitalobe 100 - gear-shaped rotor - clearance: standard

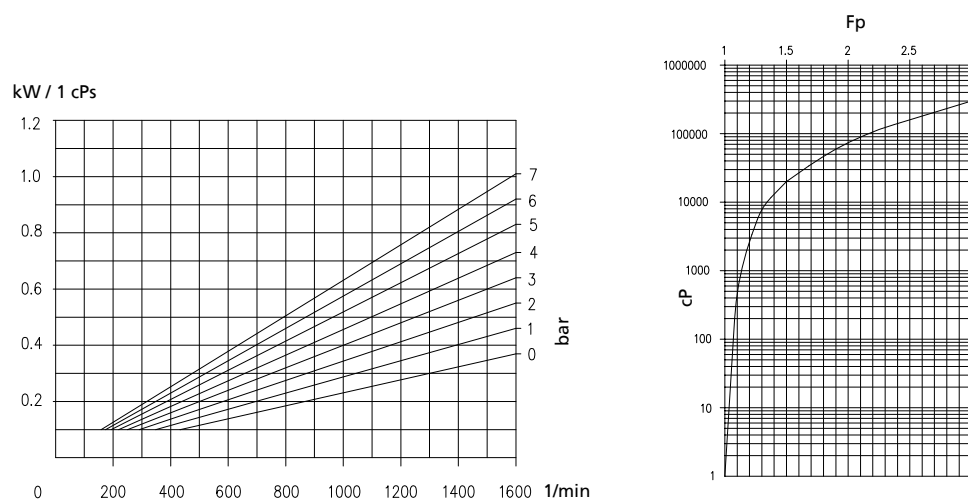
Characteristic curve Vitalobe 100 - gear-shaped rotor - clearance: standard

Flow rate: 0.035 l/rotation ²⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 22 mm
Standard nominal nozzle diameter DN 25
Max. speed at 1 cPs = 1400 rpm
It is recommended not to use all maximum values at the same time.

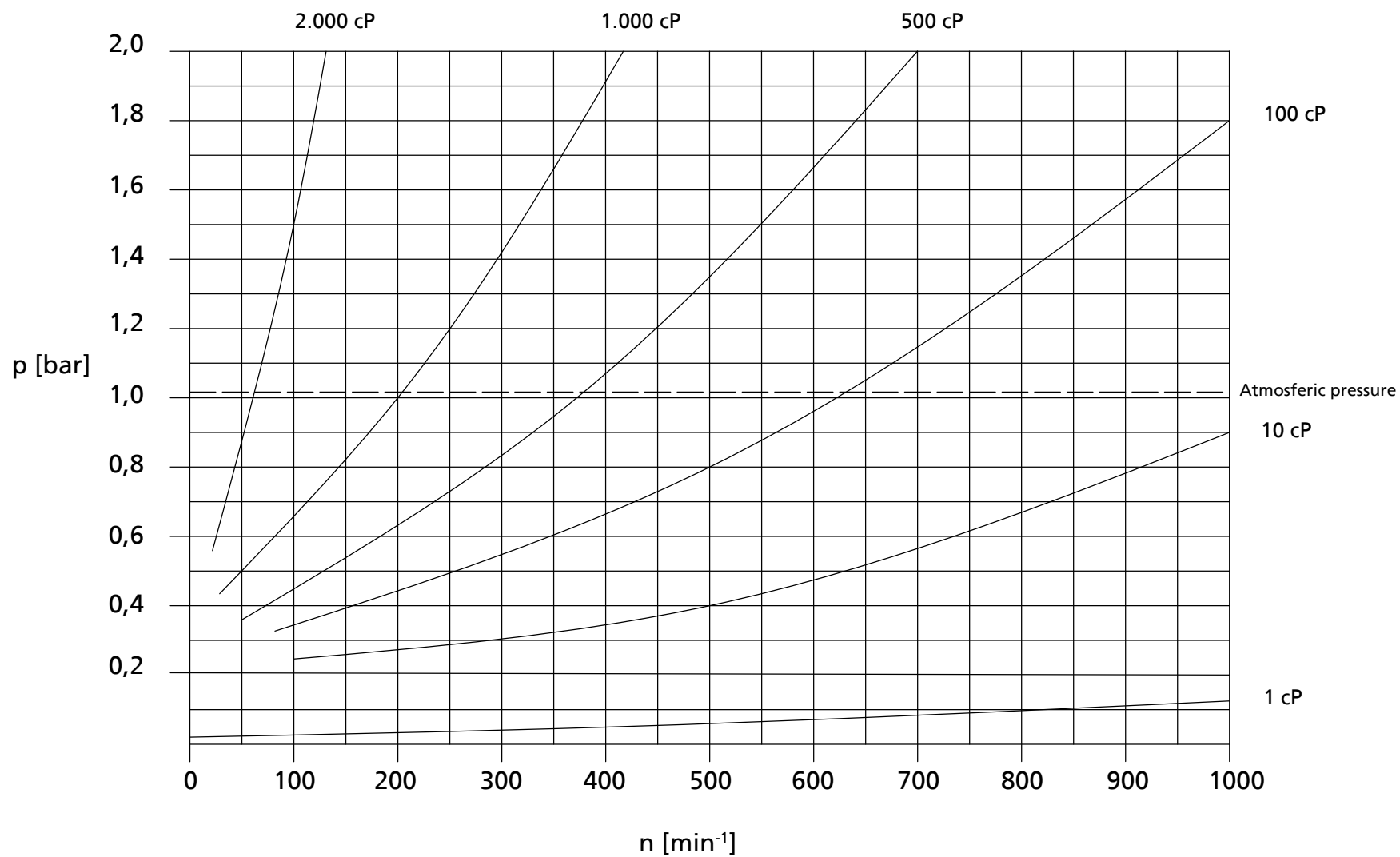
Total input power Vitalobe 100 - gear-shaped rotor - clearance: standard



Total power = kW (1 cPs) x Fp

2) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

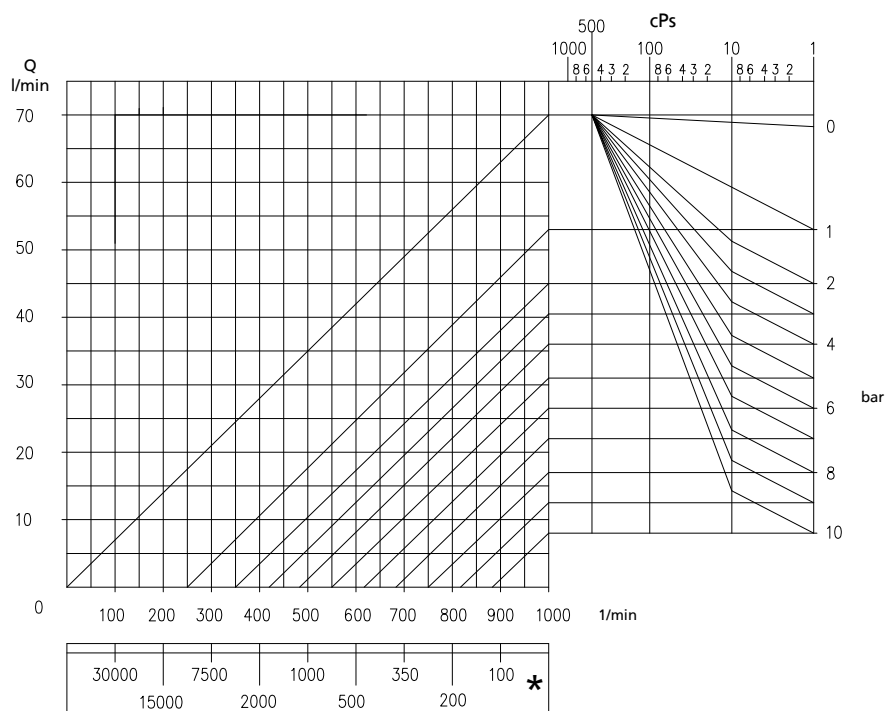
NPSH curve Vitalobe 100



Characteristic curve Vitalobe 105 - bi-wing rotor - clearance: standard

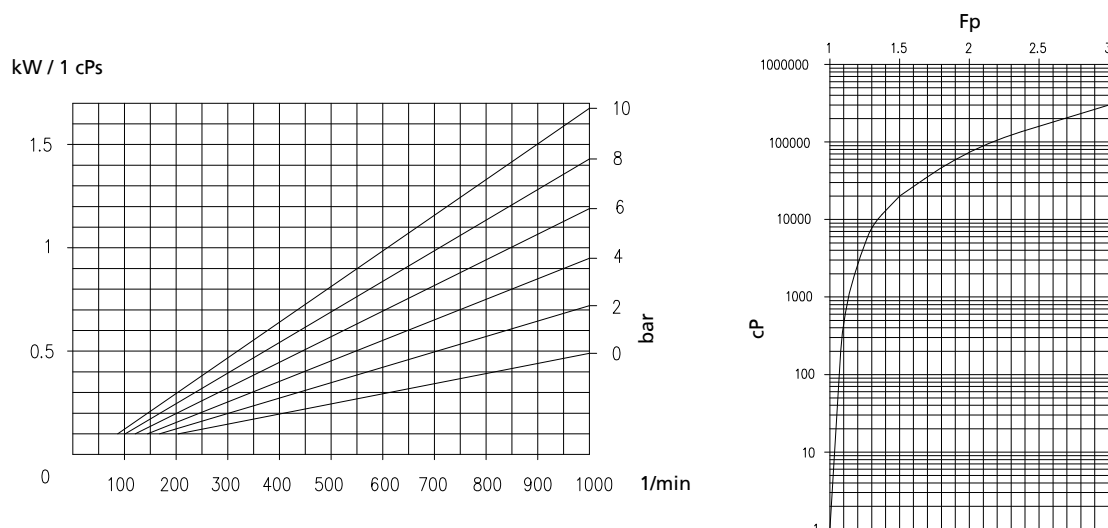
Characteristic curve Vitalobe 105 - bi-wing rotor - clearance: standard

Flow rate: 0.07 l/rotation ³⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 30.5 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 105 - bi-wing rotor - clearance: standard



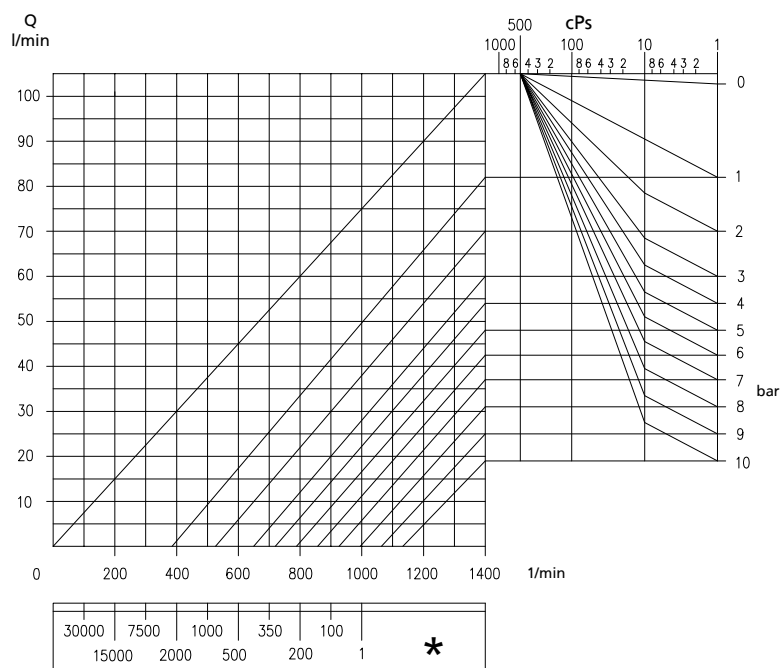
Total power = kW (1 cPs) x Fp

- 3) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
- 4) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 105 - gear-shaped rotor - clearance: standard

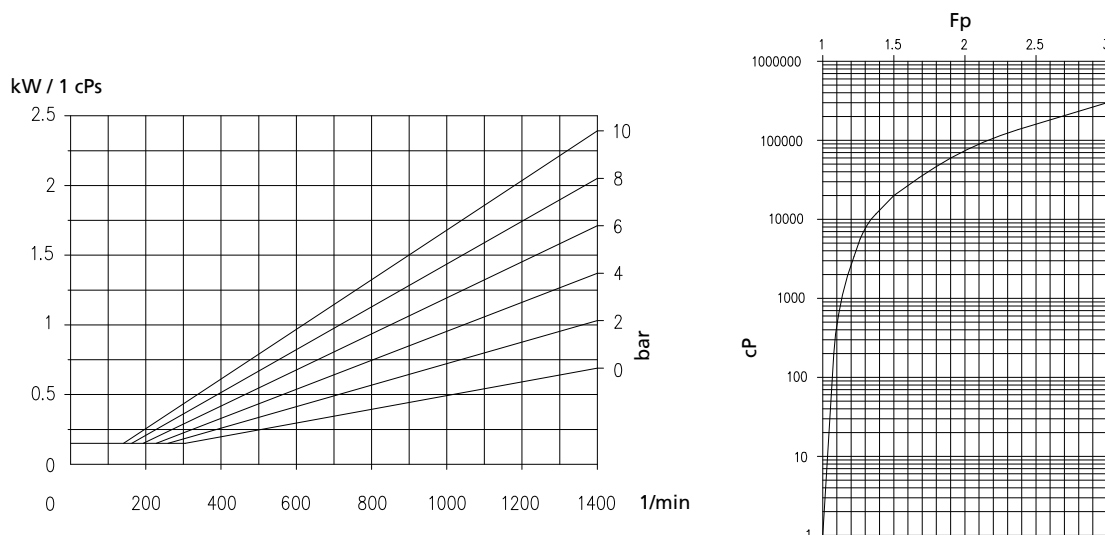
Characteristic curve Vitalobe 105 - gear-shaped rotor - clearance: standard

Flow rate: 0.075 l/rotation ⁴⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 30.5 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 105 - gear-shaped rotor - clearance: standard



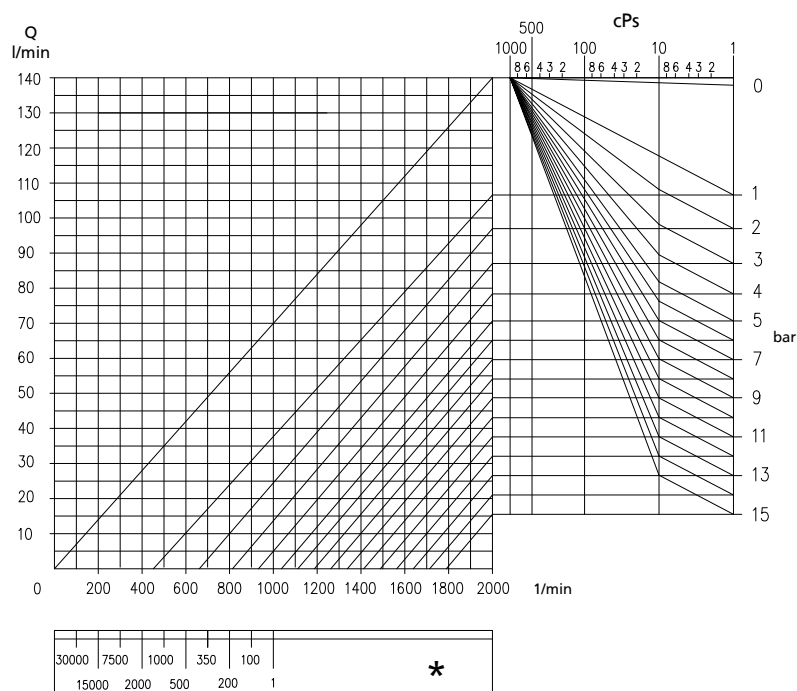
Total power = kW (1 cPs) x F_p

5) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 105 - gear-shaped rotor - clearance: enlarged

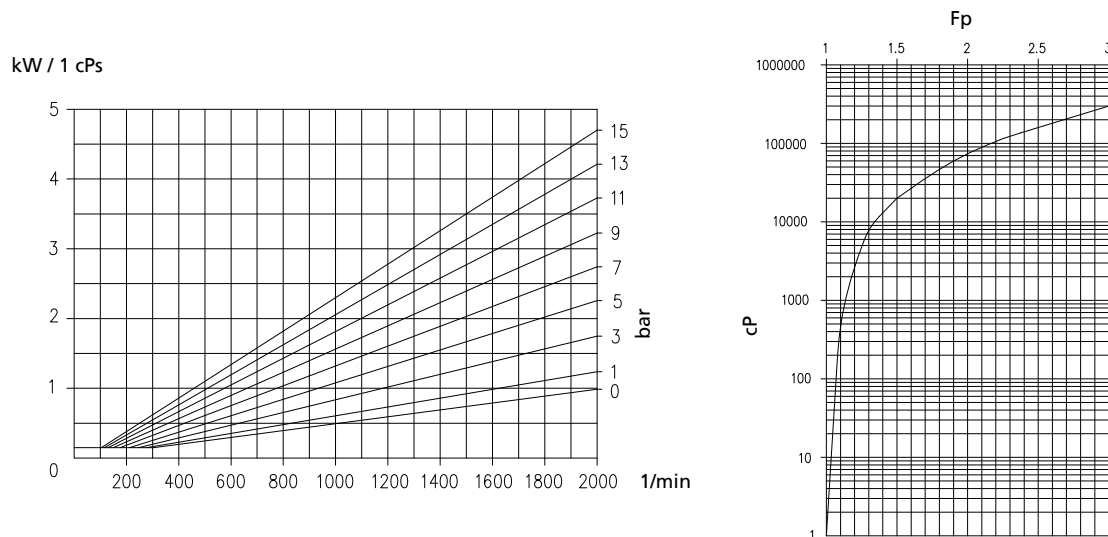
Characteristic curve Vitalobe 105 - gear-shaped rotor - clearance: enlarged

Flow rate: 0.075 l/rotation ⁵⁾



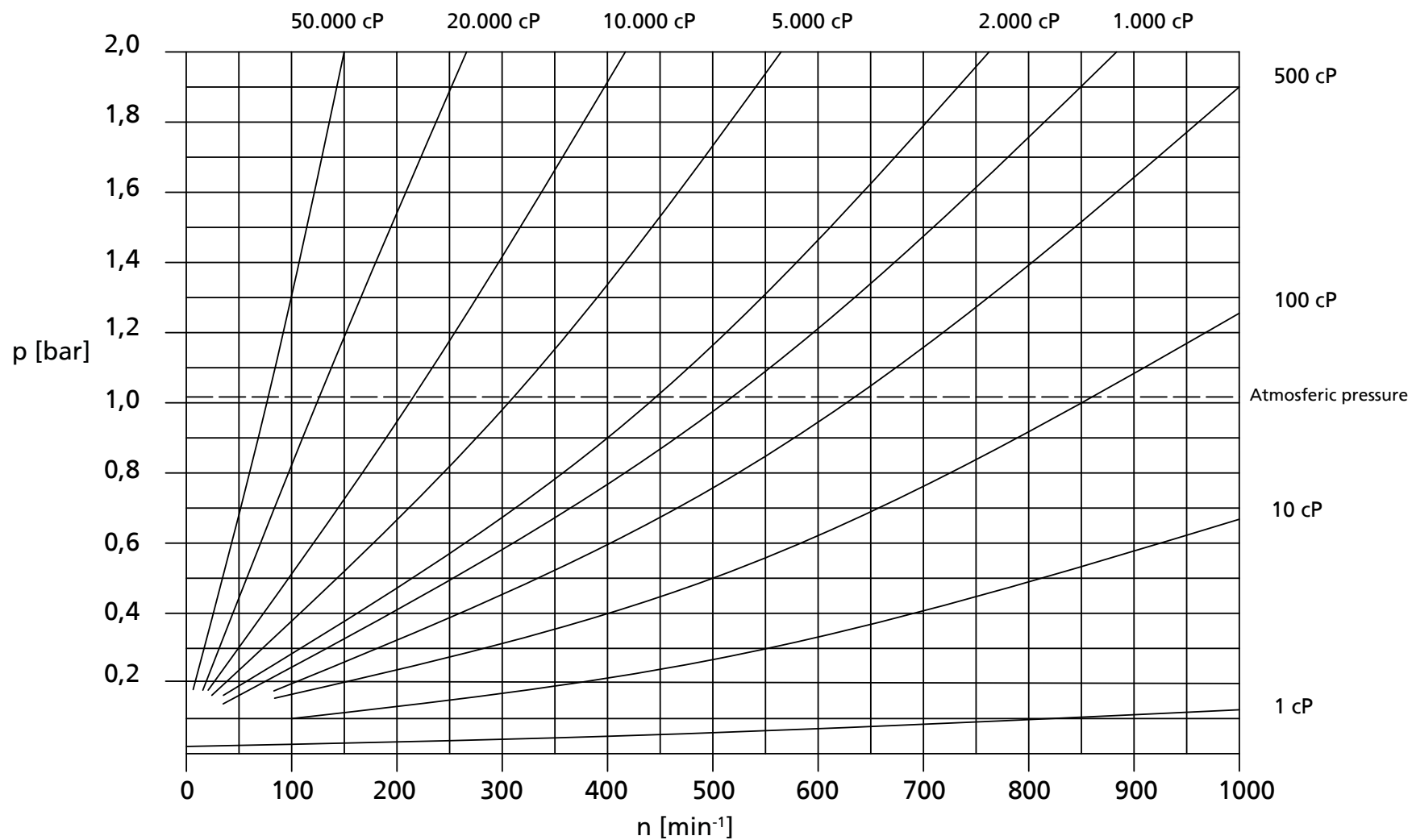
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 30.5 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 105 - gear-shaped rotor - clearance: enlarged



Total power = $kW (1 cPs) \times Fp$

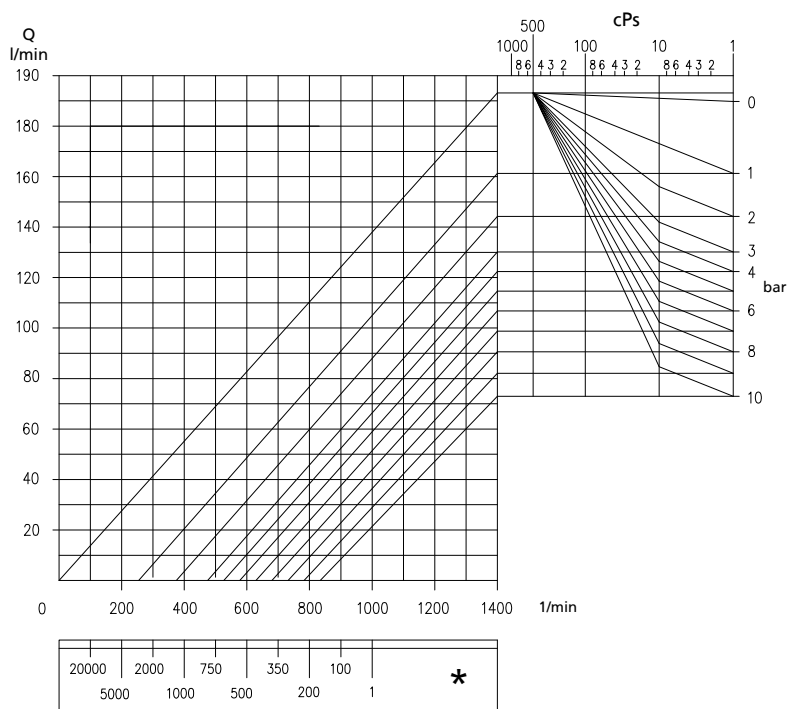
NPSH curve Vitalobe 105



Characteristic curve Vitalobe 110 - tri-lobe rotor - clearance: standard

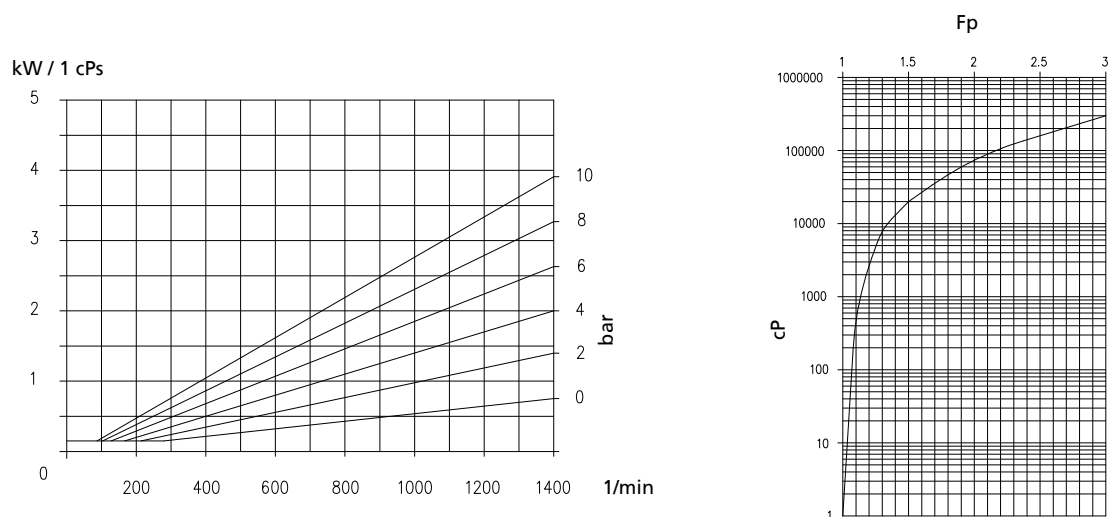
Characteristic curve Vitalobe 110 - tri-lobe rotor - clearance: standard

Flow rate: 0.138 l/rotation ⁶⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 30.5 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 110 - tri-lobe rotor - clearance: standard



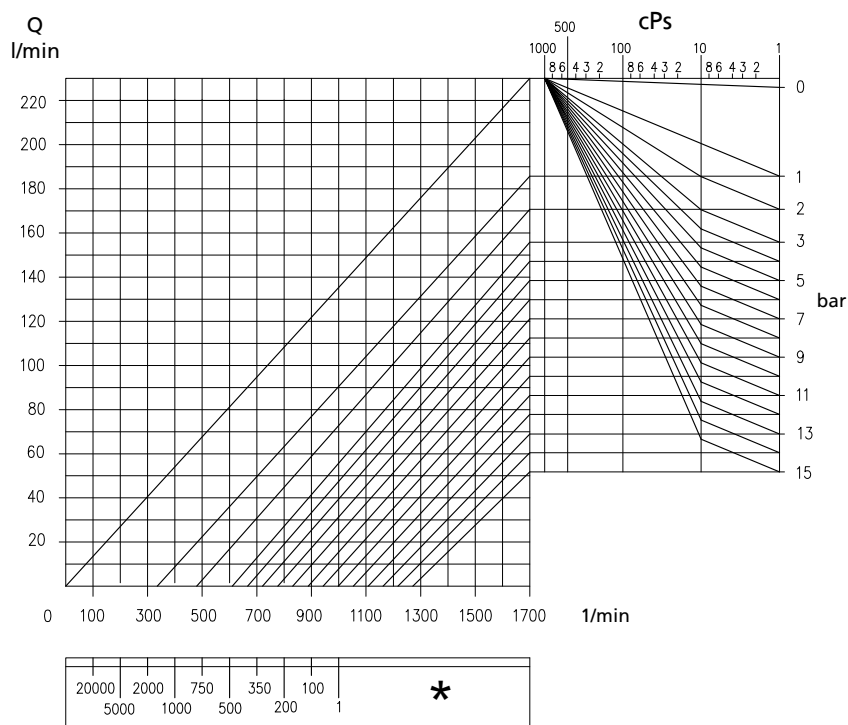
Total power = kW (1 cPs) x Fp

- 6) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
- 7) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 110 - tri-lobe rotor - clearance: enlarged

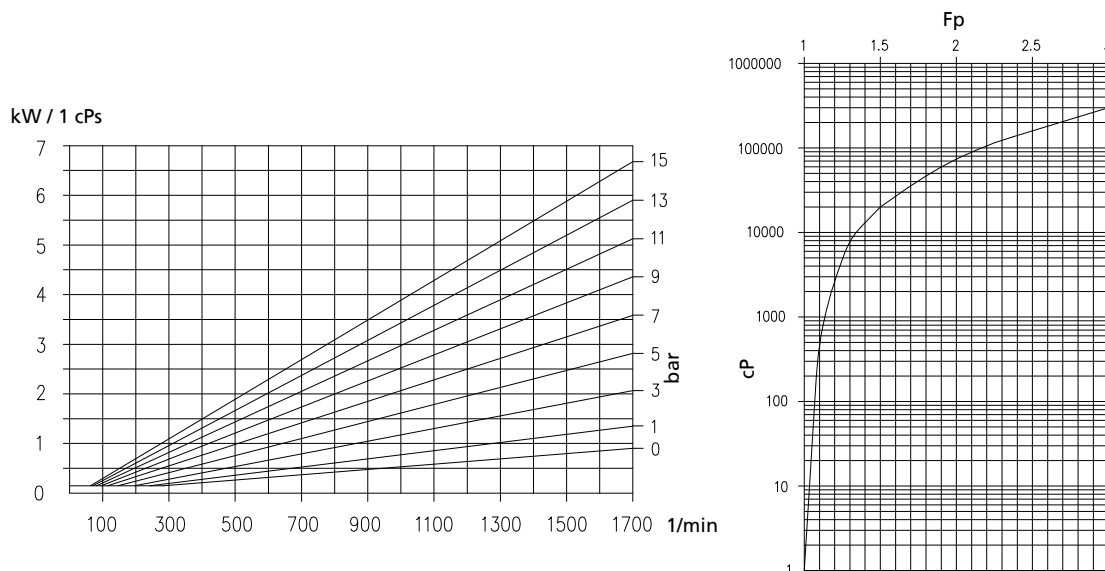
Characteristic curve Vitalobe 110 - tri-lobe rotor - clearance: enlarged

Flow rate: 0.138 l/rotation ⁷⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 30.5 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 110 - tri-lobe rotor - clearance: enlarged



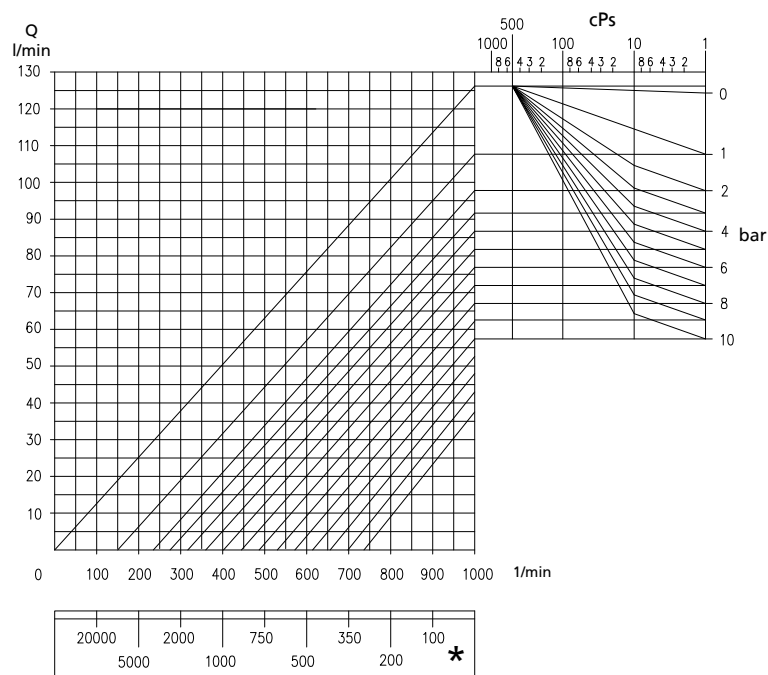
Total power = kW (1 cPs) x Fp

8) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 110 - bi-wing rotor - clearance: standard

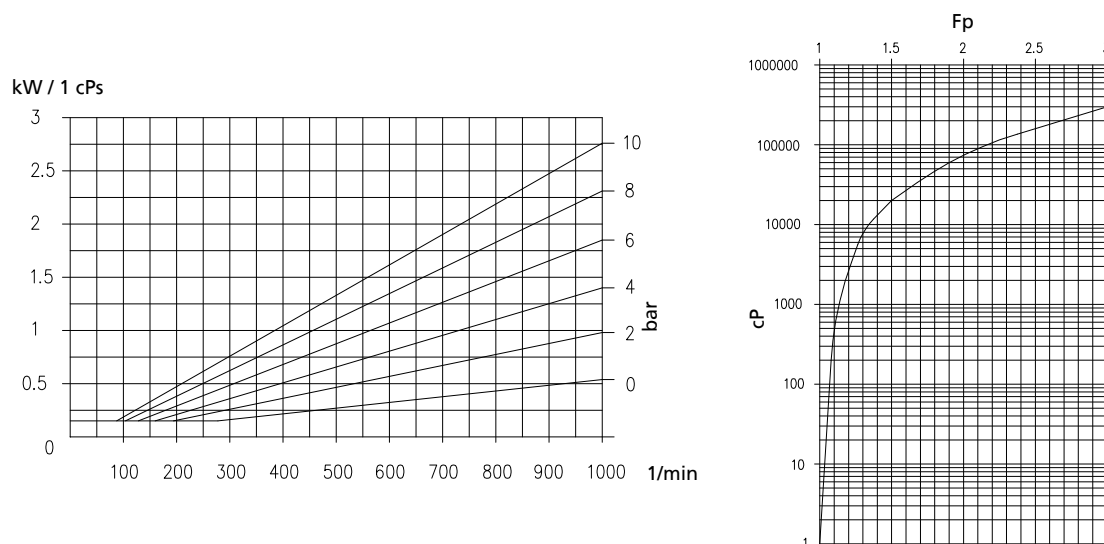
Characteristic curve Vitalobe 110 - bi-wing rotor - clearance: standard

Flow rate: 0.124 l/rotation ⁹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 30.5 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 110 - bi-wing rotor - clearance: standard



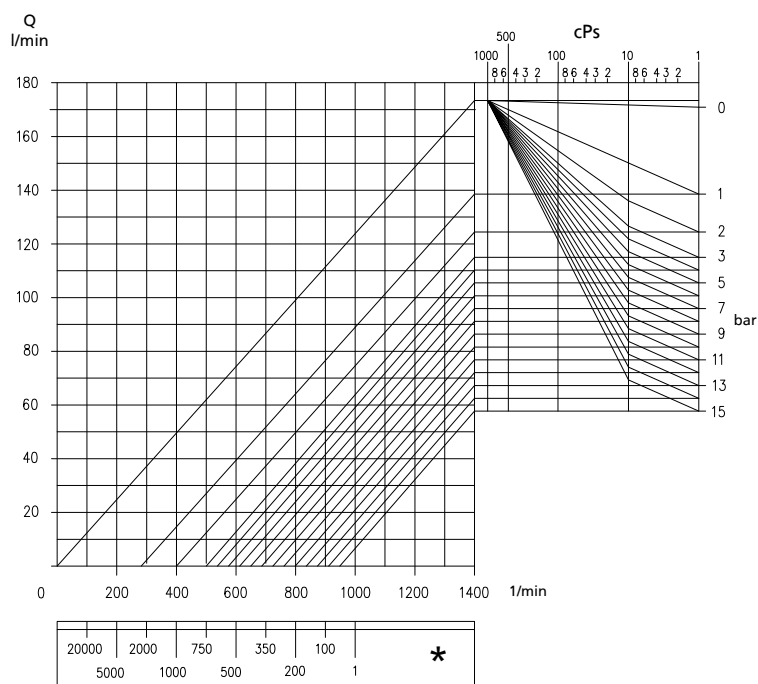
Total power = kW (1 cPs) x Fp

9) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 110 - bi-wing rotor - clearance: enlarged

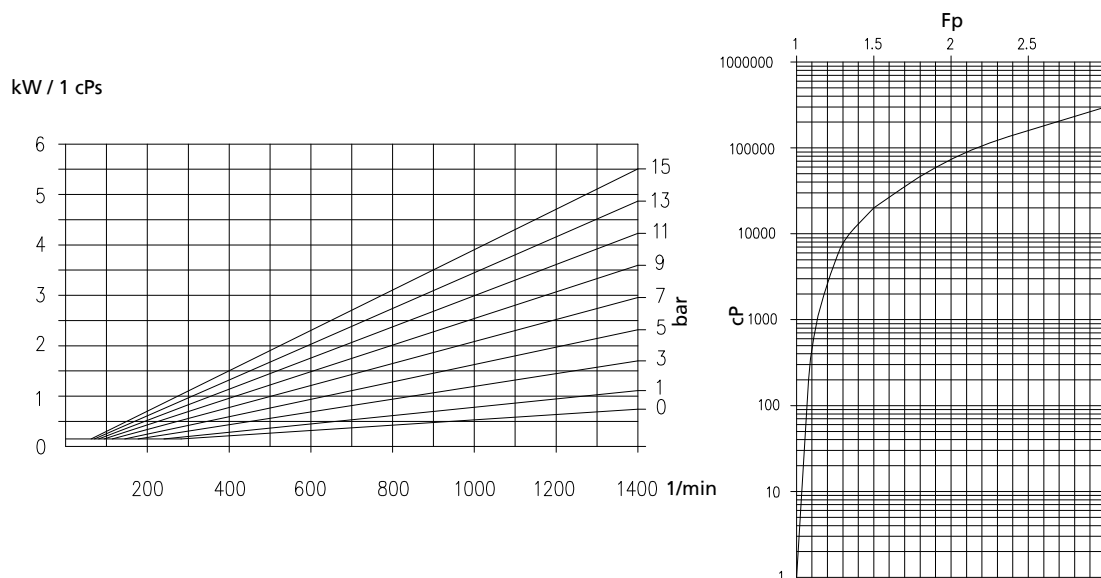
Characteristic curve Vitalobe 110 - bi-wing rotor - clearance: enlarged

Flow rate: 1.124 l/rotation ⁹⁾



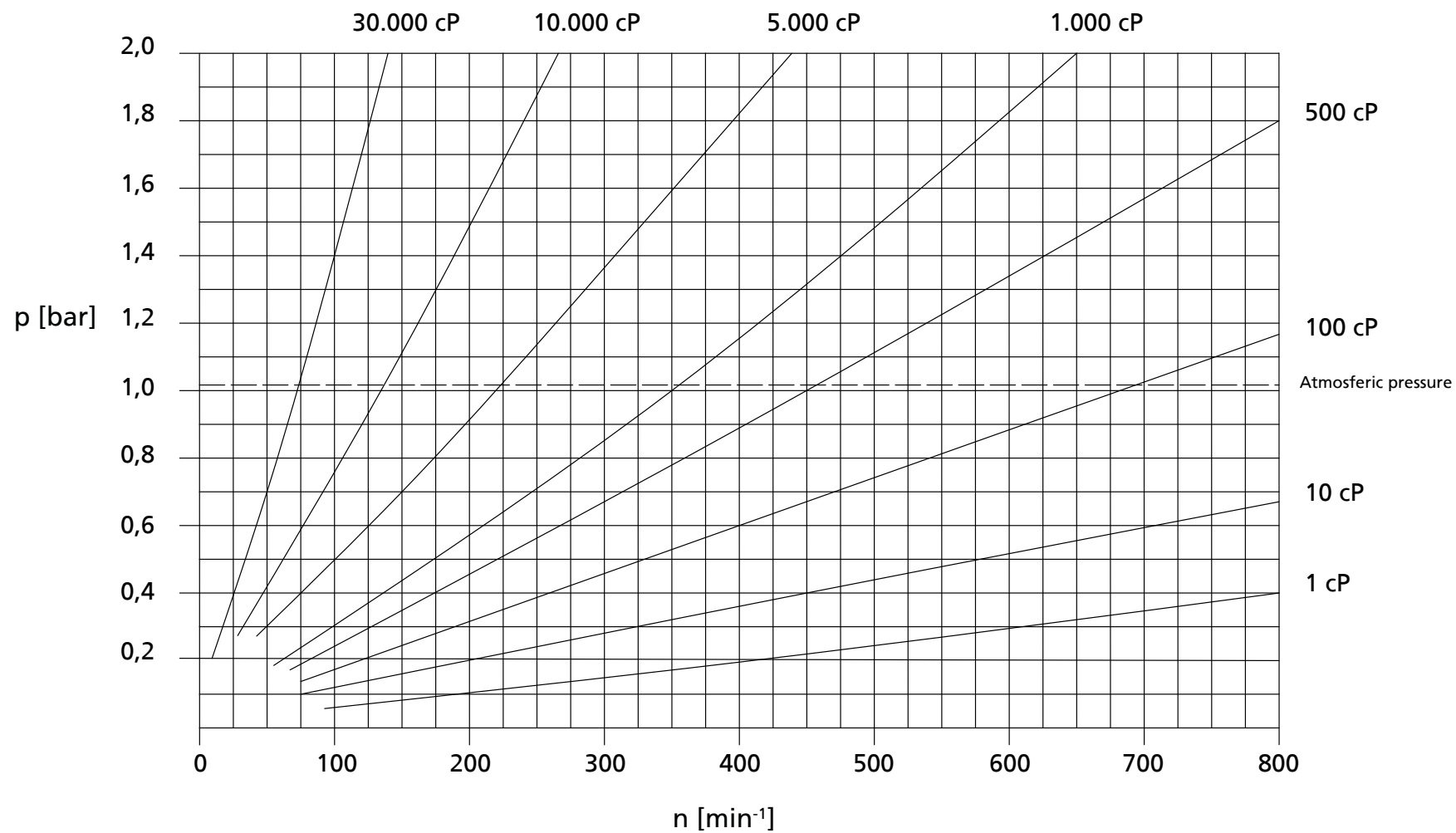
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 30.5 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 110 - bi-wing rotor - clearance: enlarged



Total power = kW (1 cPs) x Fp

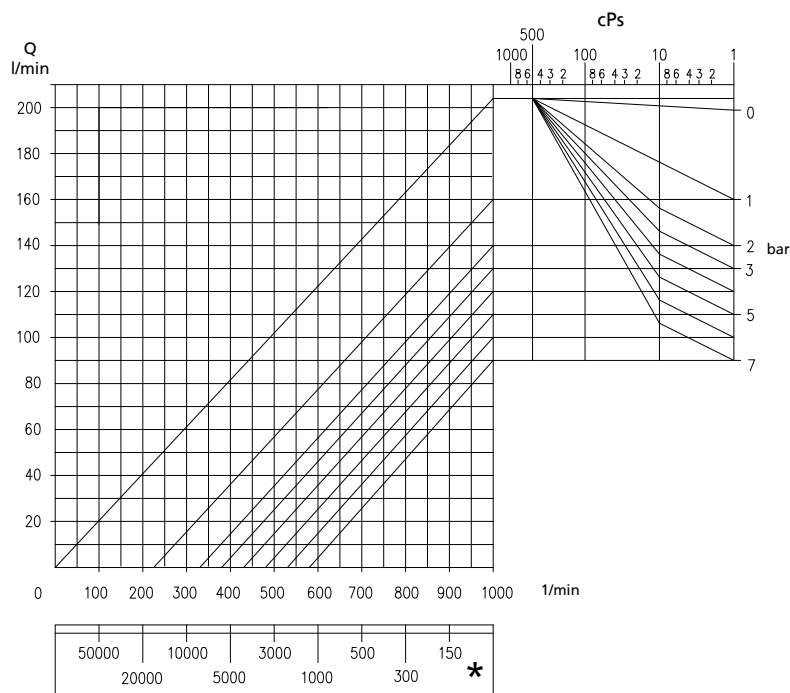
NPSH curve Vitalobe 110



Characteristic curve Vitalobe 115 - tri-lobe rotor - clearance: standard

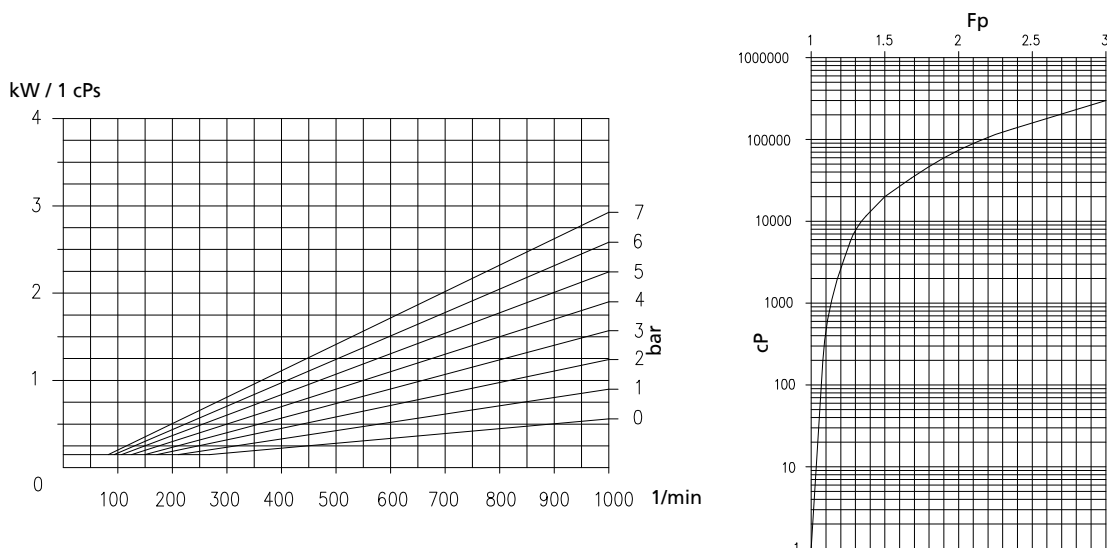
Characteristic curve Vitalobe 115 - tri-lobe rotor - clearance: standard

Flow rate: 0.204 l/rotation ¹⁰⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 115 - tri-lobe rotor - clearance: standard



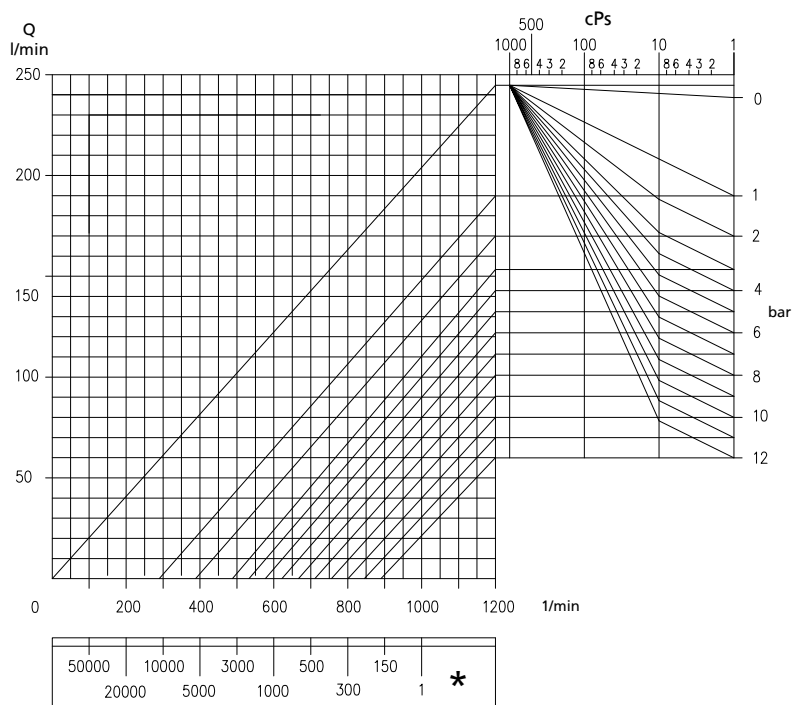
Total power = $kW (1 cPs) \times Fp$

- 10) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
11) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 115 - tri-lobe rotor - clearance: enlarged

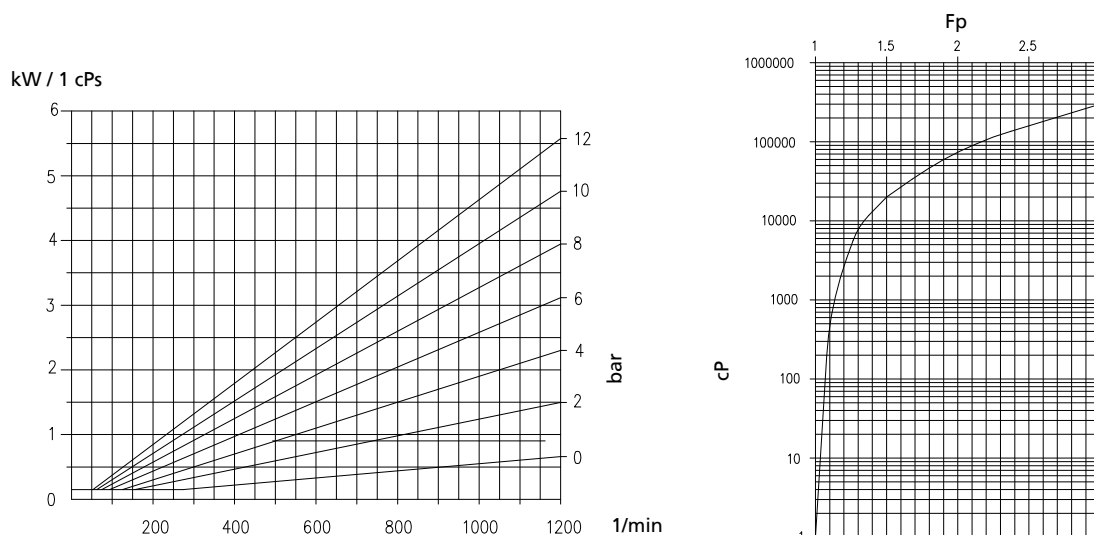
Characteristic curve Vitalobe 115 - tri-lobe rotor - clearance: enlarged

Flow rate: 0.204 l/rotation ¹¹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 115 - tri-lobe rotor - clearance: enlarged



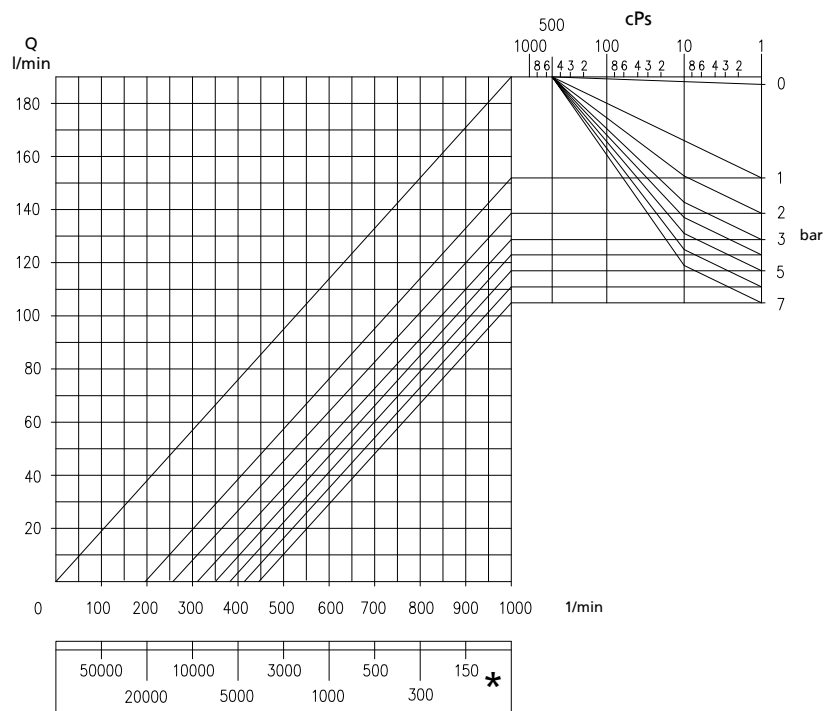
Total power = kW (1 cPs) x Fp

12) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 115 - bi-wing rotor - clearance: standard

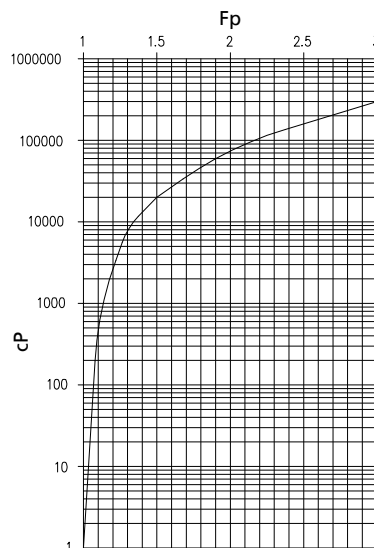
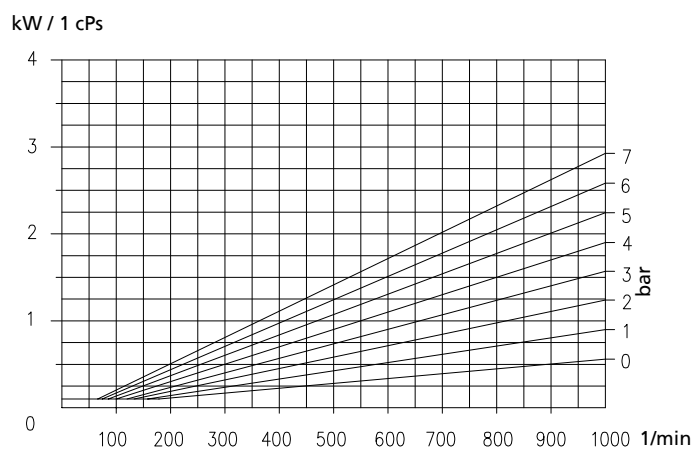
Characteristic curve Vitalobe 115 - bi-wing rotor - clearance: standard

Flow rate: 0.19 l/rotation ¹²⁾



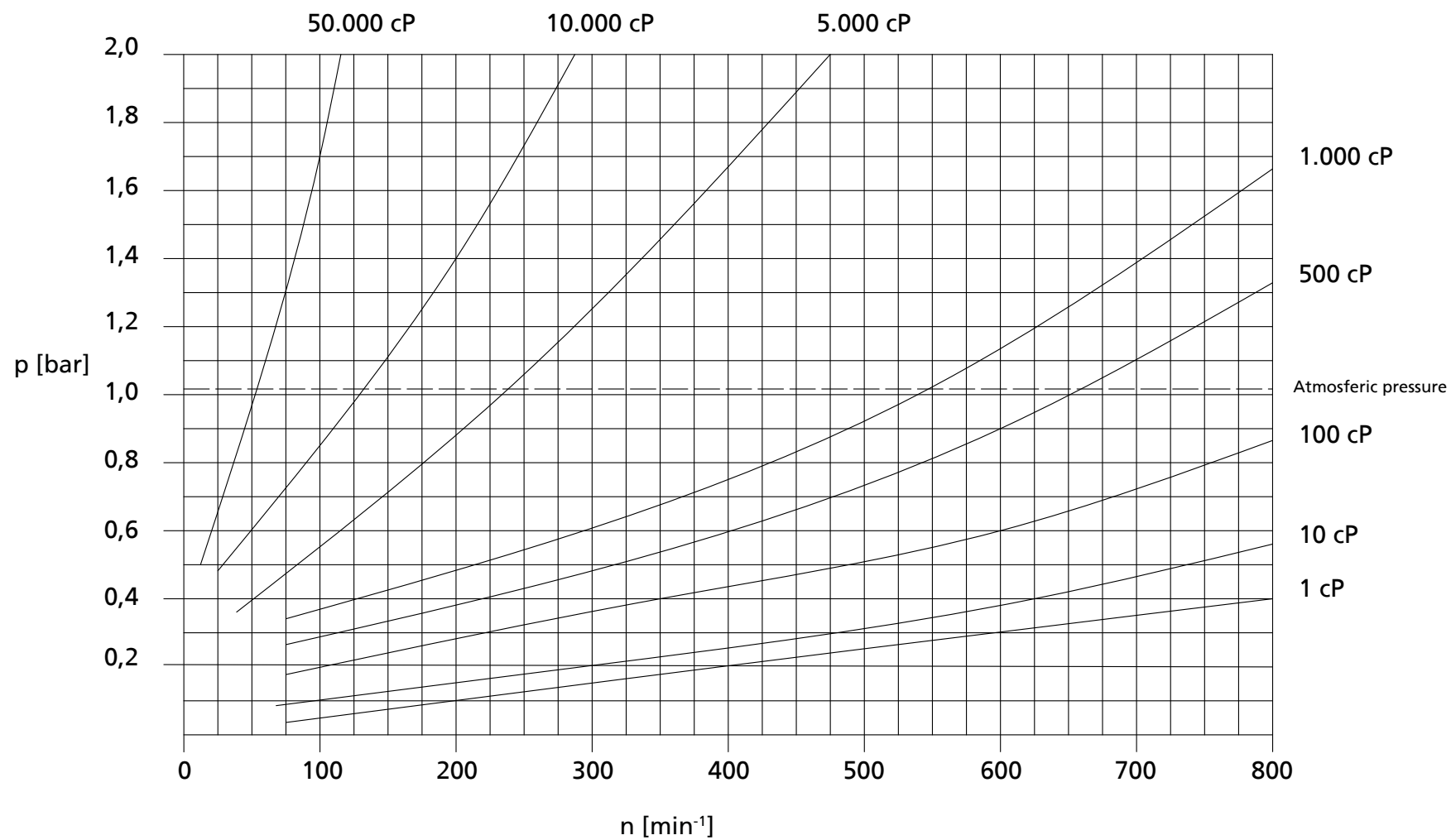
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 115 - bi-wing rotor - clearance: standard



Total power = kW (1 cPs) x Fp

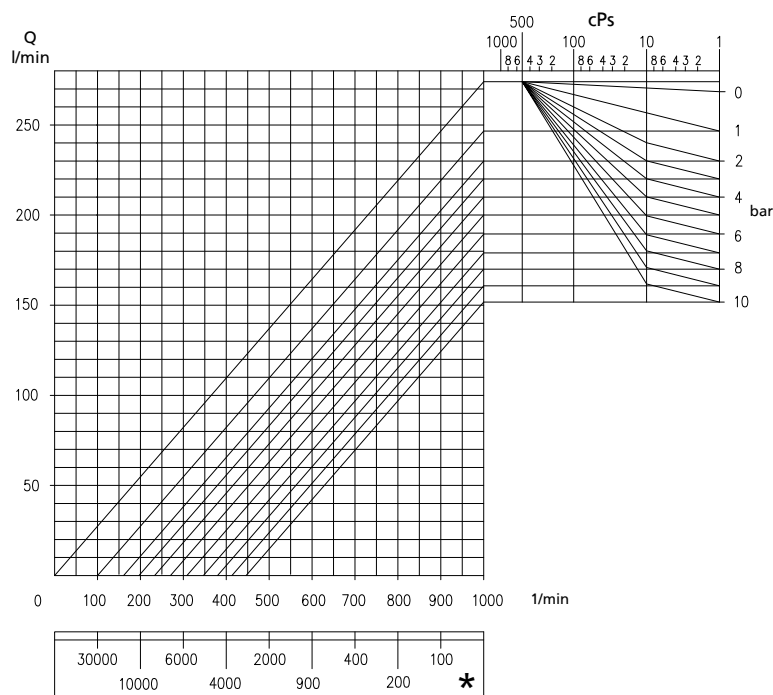
NPSH curve Vitalobe 115



Characteristic curve Vitalobe 215 - bi-lobe rotor - clearance: standard

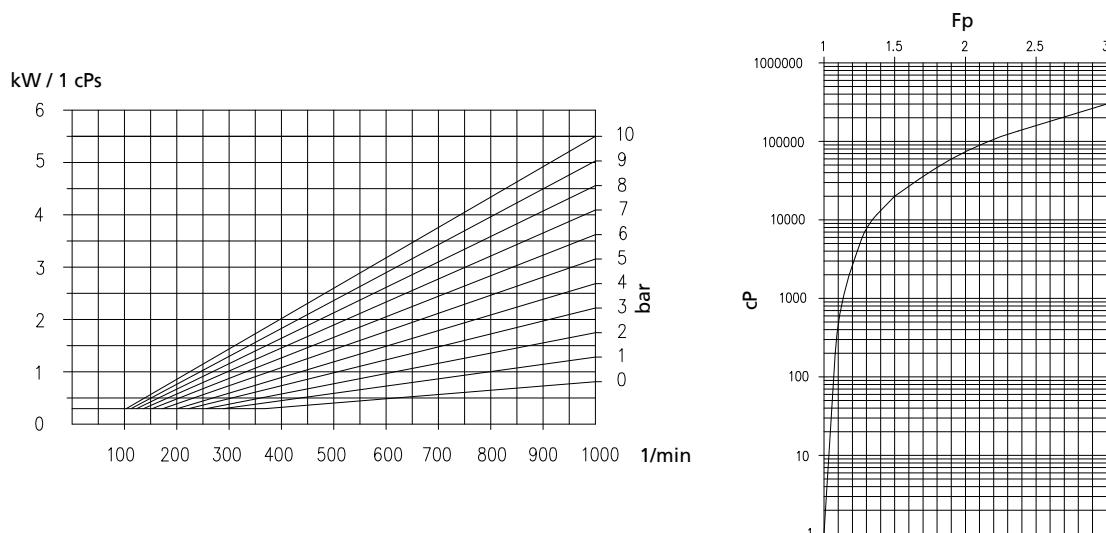
Characteristic curve Vitalobe 215 - bi-lobe rotor - clearance: standard

Flow rate: 0.274 l/rotation ¹³⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 215 - bi-lobe rotor - clearance: standard



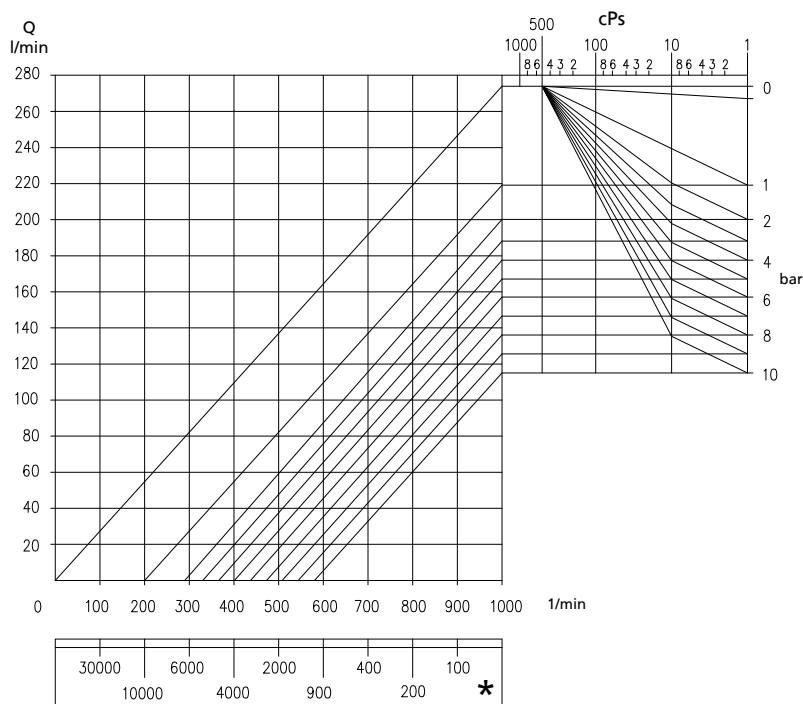
Total power = kW (1 cPs) x Fp

- 13) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
- 14) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 215 - tri-lobe rotor - clearance: standard

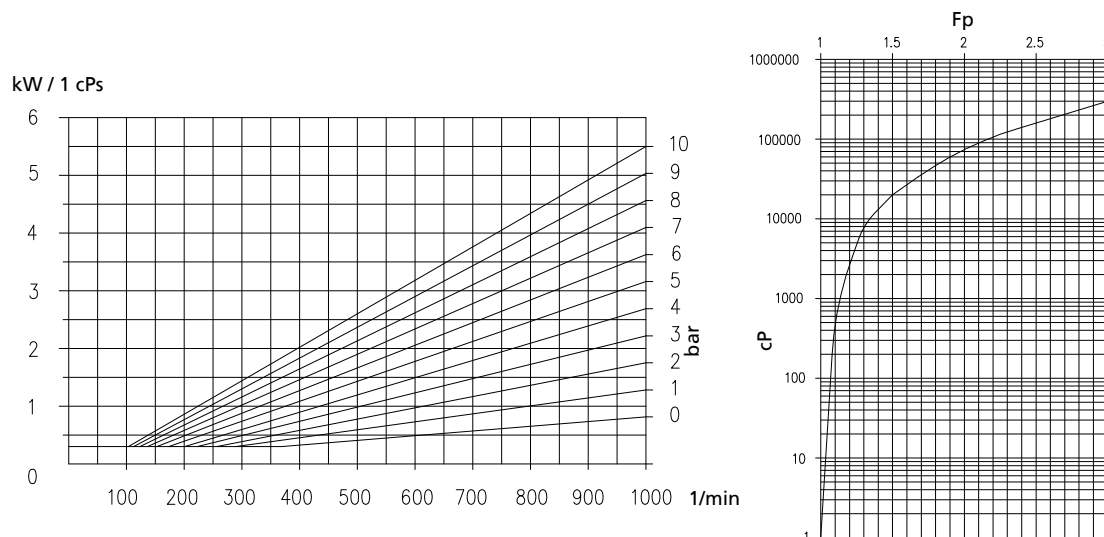
Characteristic curve Vitalobe 215 - tri-lobe rotor - clearance: standard

Flow rate: 0.274 l/rotation ¹⁴⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 215 - tri-lobe rotor - clearance: standard



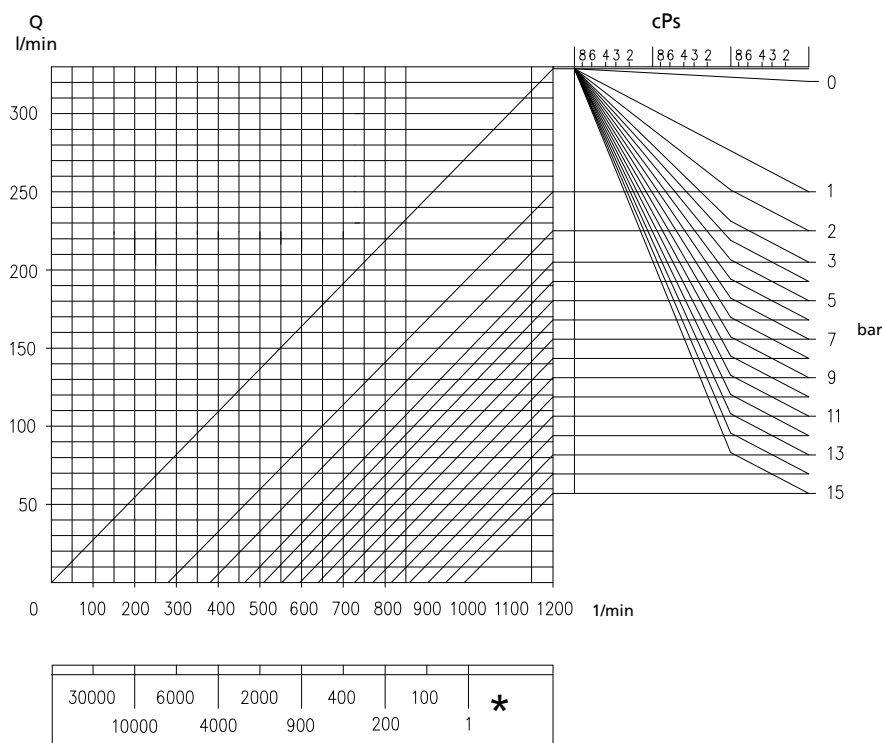
Total power = kW (1 cPs) x F_p

15) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 215 - tri-lobe rotor - clearance: enlarged

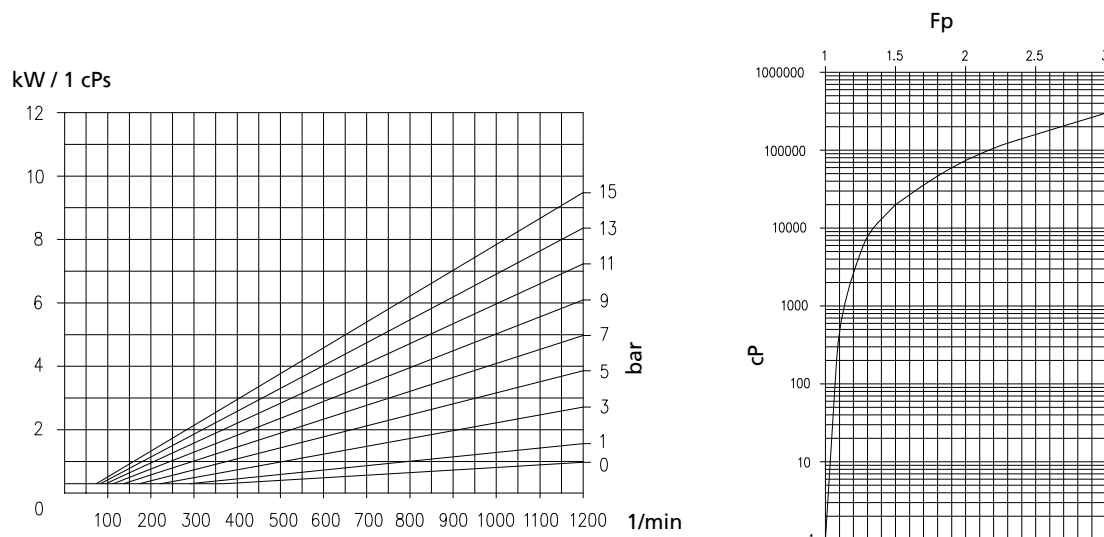
Characteristic curve Vitalobe 215 - tri-lobe rotor - clearance: enlarged

Flow rate: 0.274 l/rotation ¹⁵⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 215 - tri-lobe rotor - clearance: enlarged



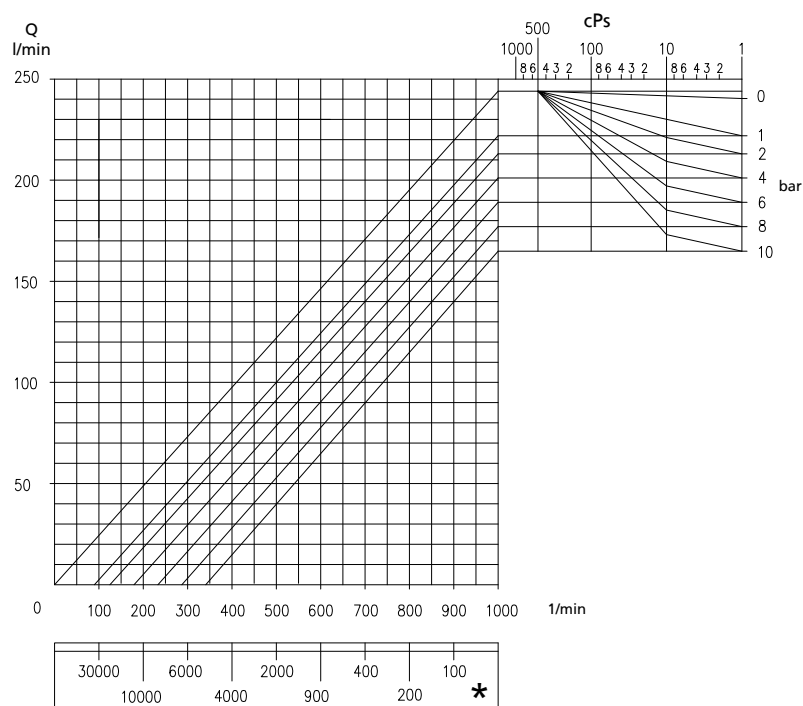
Total power = $kW (1 cPs) \times Fp$

16) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 215 - bi-wing rotor - clearance: standard

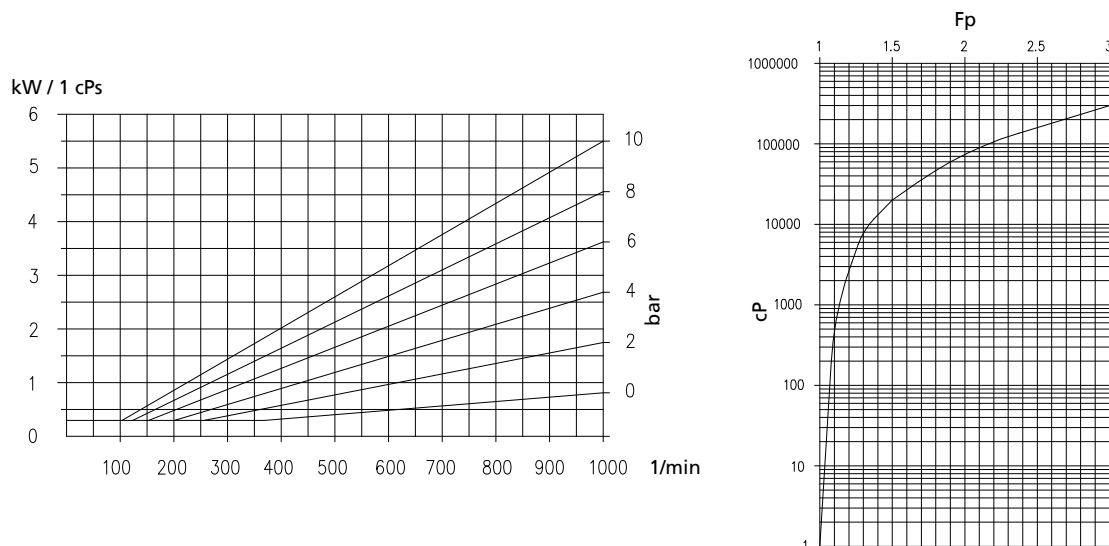
Characteristic curve Vitalobe 215 - bi-wing rotor - clearance: standard

Flow rate: 0.244 l/rotation ¹⁶⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 215 - bi-wing rotor - clearance: standard



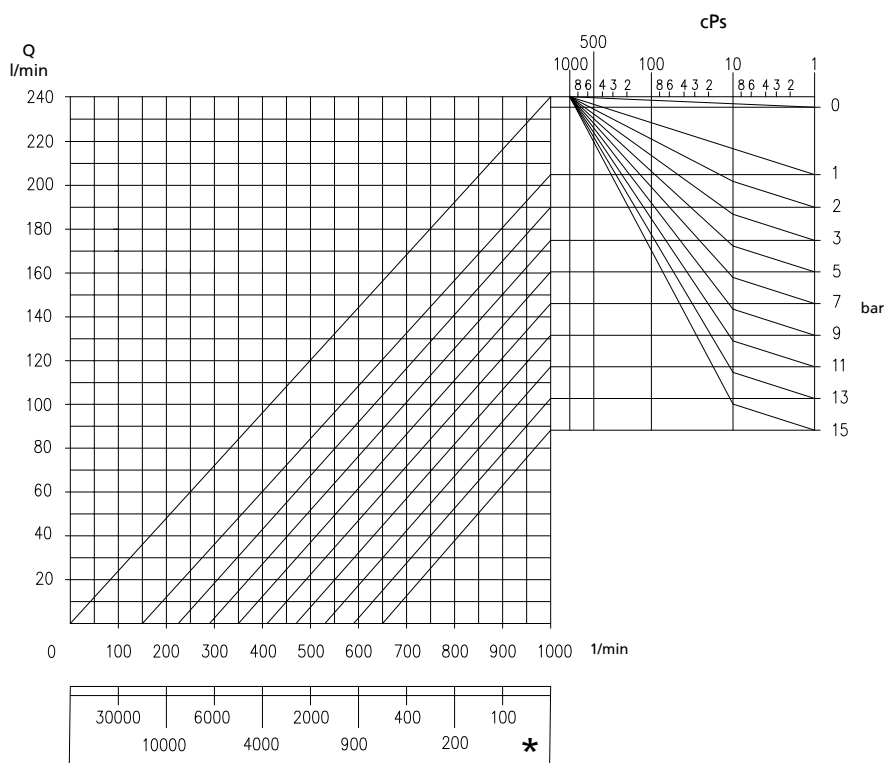
Total power = kW (1 cPs) x F_p

17) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 215 - bi-wing rotor - clearance: enlarged

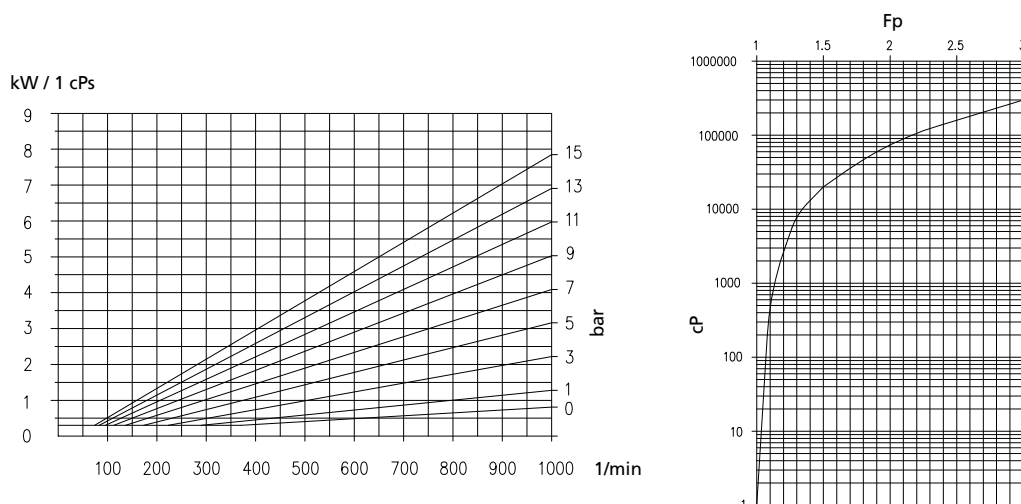
Characteristic curve Vitalobe 215 - bi-wing rotor - clearance: enlarged

Flow rate: 0.24 l/rotation ¹⁷⁾



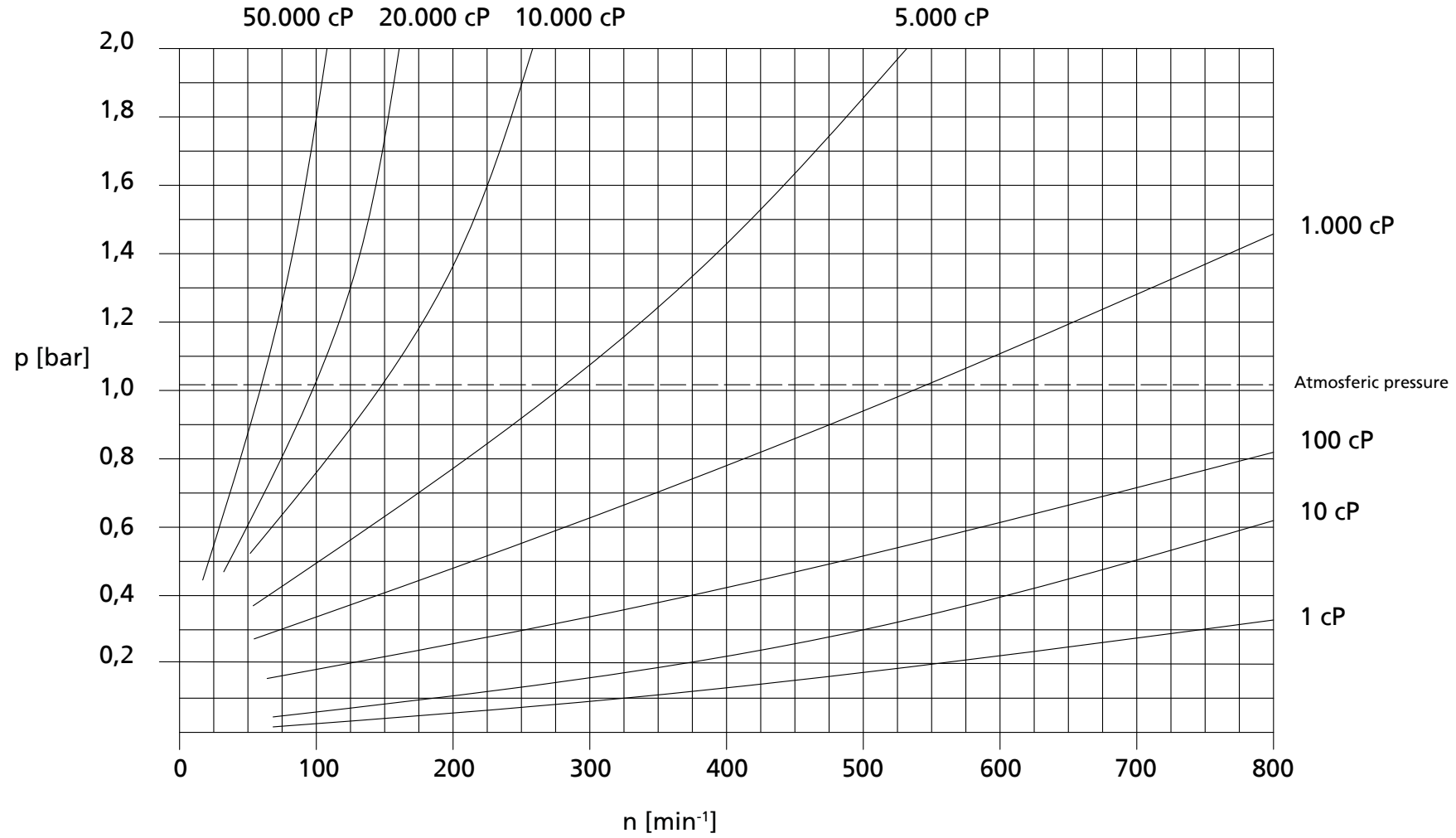
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 215 - bi-wing rotor - clearance: enlarged



Total power = $kW (1 cPs) \times Fp$

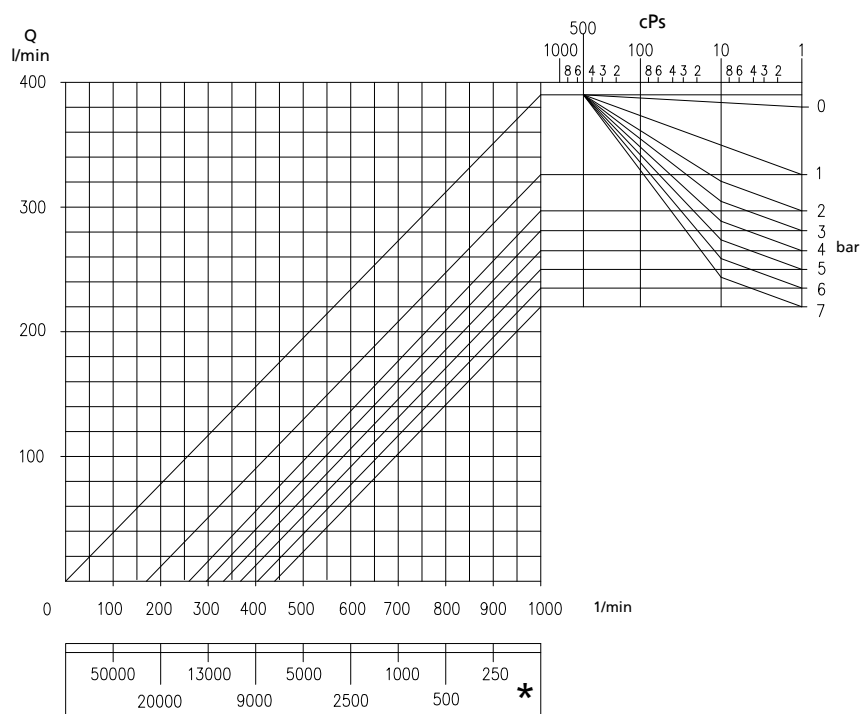
NPSH curve Vitalobe 215



Characteristic curve Vitalobe 220 - bi-lobe rotor - clearance: standard

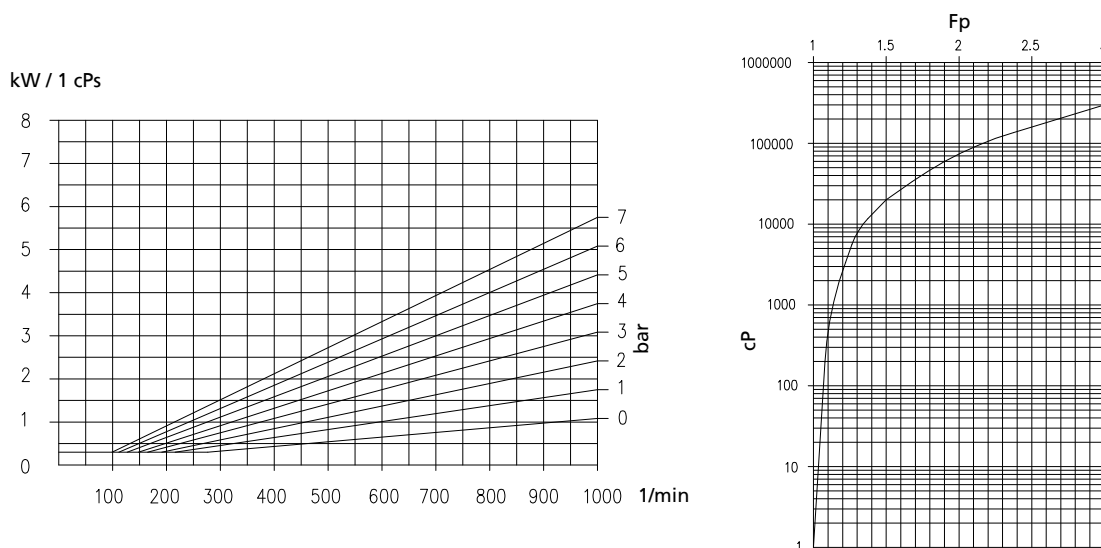
Characteristic curve Vitalobe 220 - bi-lobe rotor - clearance: standard

Flow rate: 0.39 l/rotation ¹⁸⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 50 mm
Standard nominal nozzle diameter DN 50
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 220 - bi-lobe rotor - clearance: standard



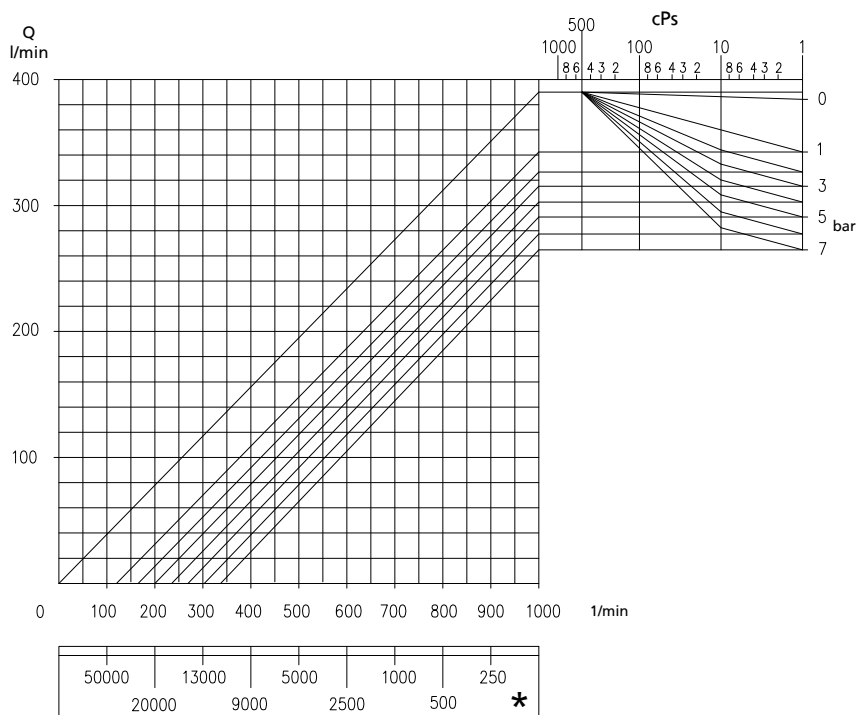
Total power = kW (1 cPs) x F_p

- 18) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
19) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 220 - tri-lobe rotor - clearance: standard

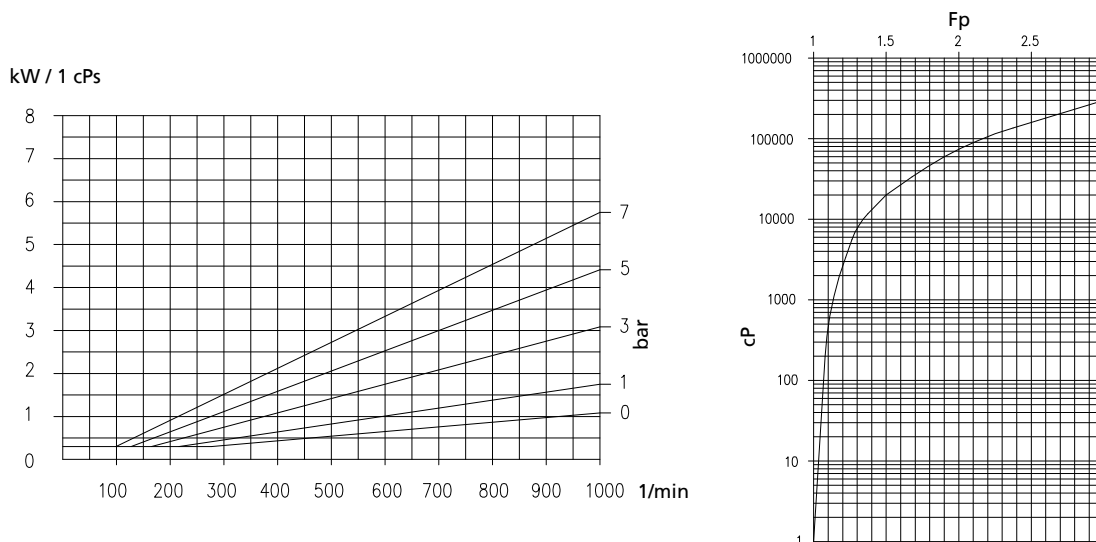
Characteristic curve Vitalobe 220 - tri-lobe rotor - clearance: standard

Flow rate: 0.39 l/rotation ¹⁹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 50 mm
Standard nominal nozzle diameter DN 50
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 220 - tri-lobe rotor - clearance: standard



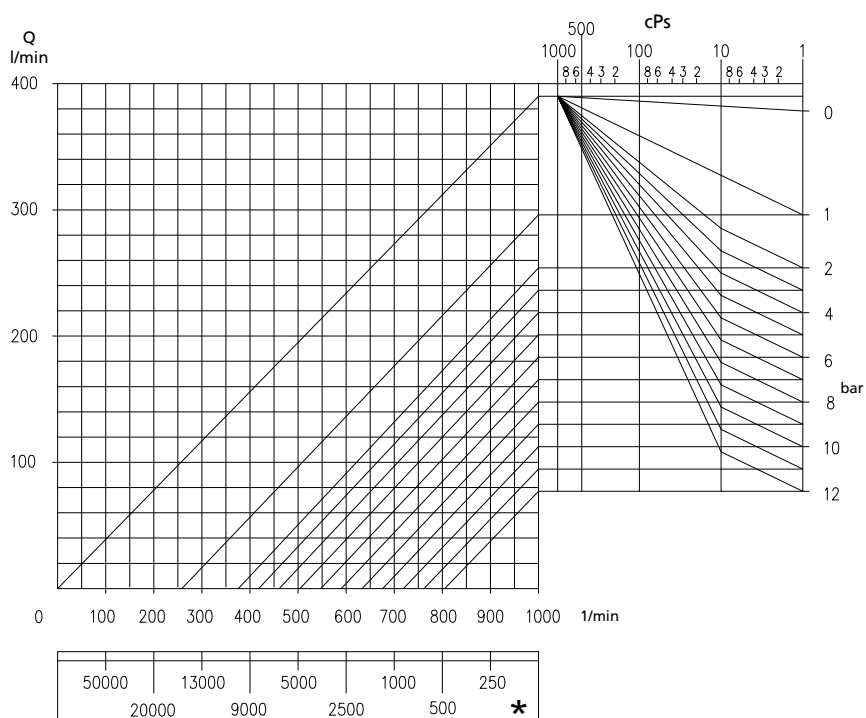
Total power = kW (1 cPs) x Fp

20) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 220 - tri-lobe rotor - clearance: enlarged

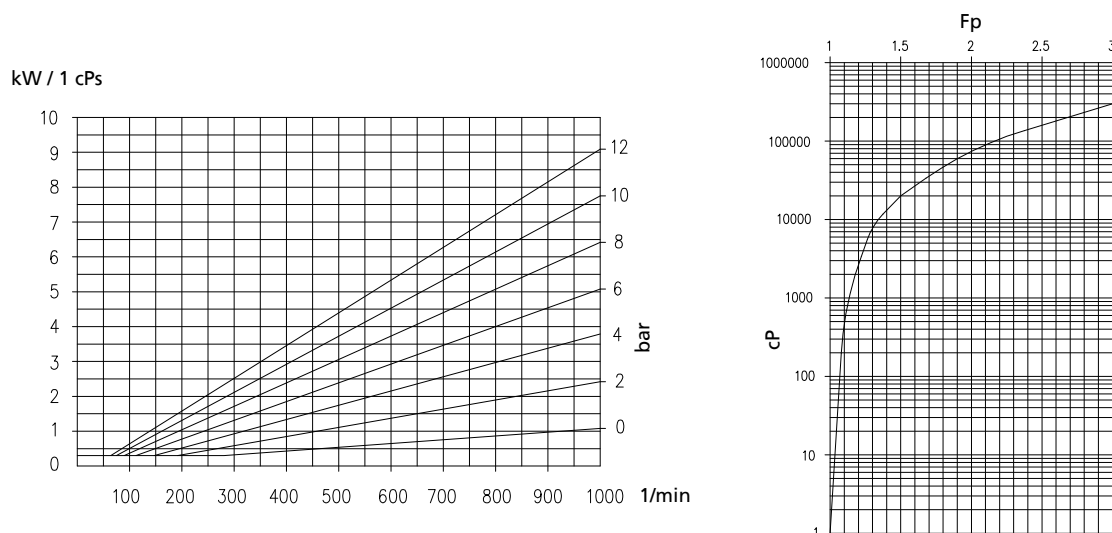
Characteristic curve Vitalobe 220 - tri-lobe rotor - clearance: enlarged

Flow rate: 0.39 l/rotation ²⁰⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 50 mm
Standard nominal nozzle diameter DN 50
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 220 - tri-lobe rotor - clearance: enlarged



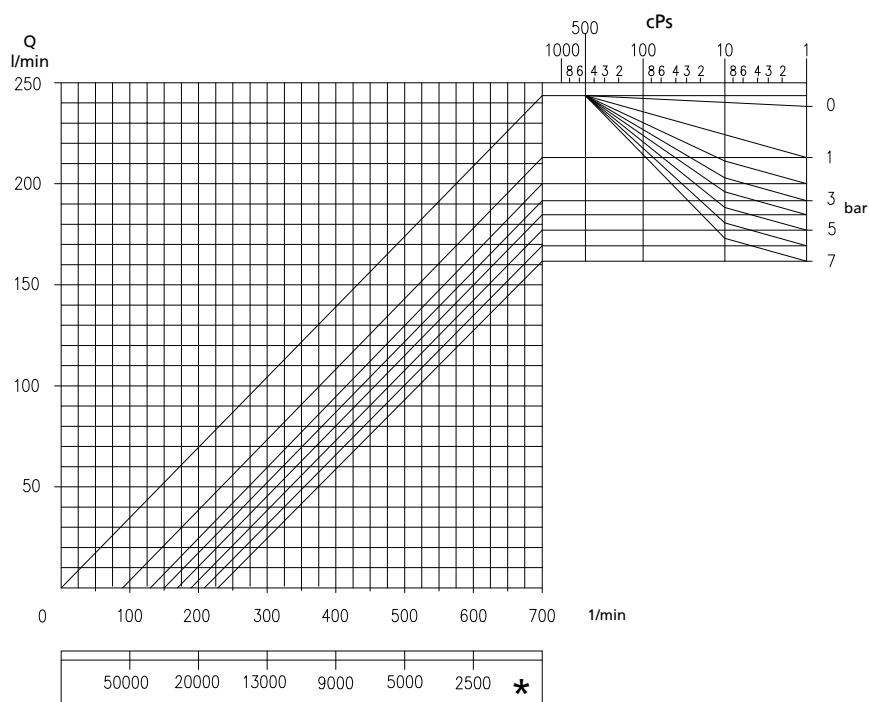
Total power = kW (1 cPs) x Fp

21) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 220 - bi-wing rotor - clearance: standard

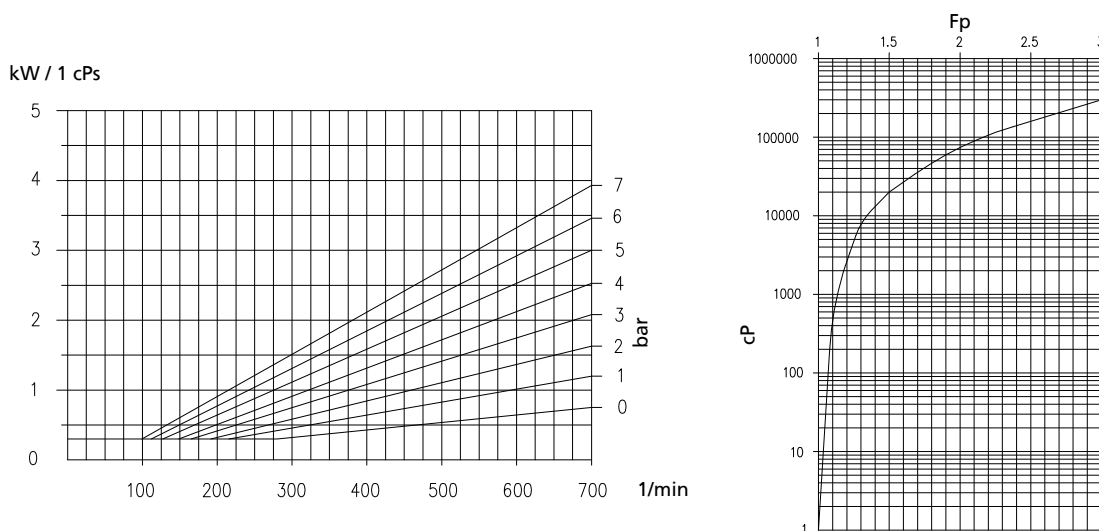
Characteristic curve Vitalobe 220 - bi-wing rotor - clearance: standard

Flow rate: 0.348 l/rotation ²¹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 50 mm
Standard nominal nozzle diameter DN 50
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 220 - bi-wing rotor - clearance: standard



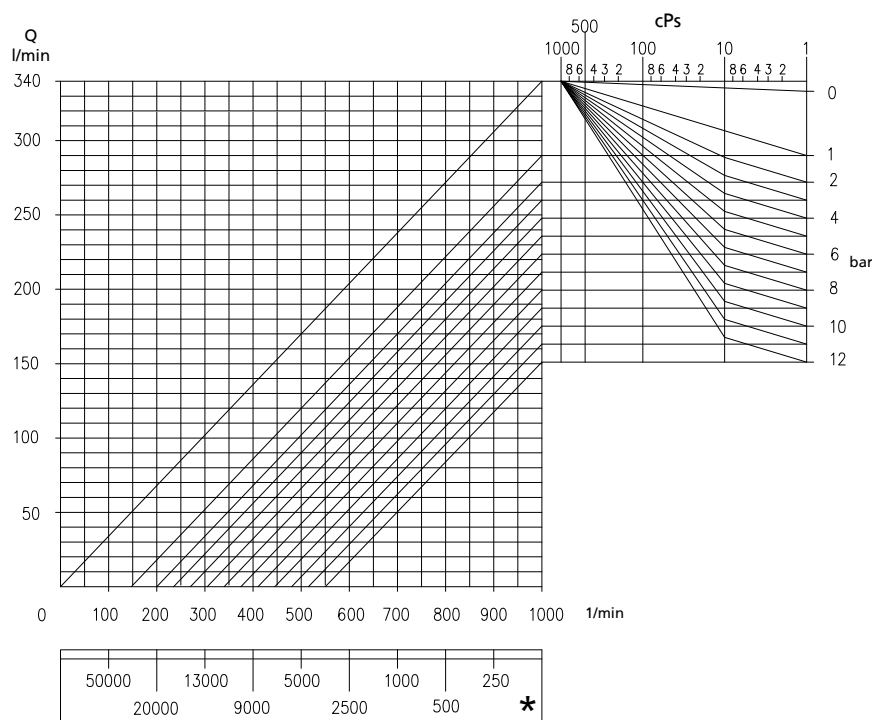
Total power = kW (1 cPs) x F_p

22) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 220 - bi-wing rotor - clearance: enlarged

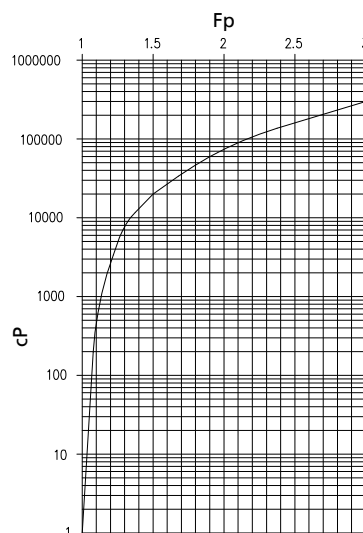
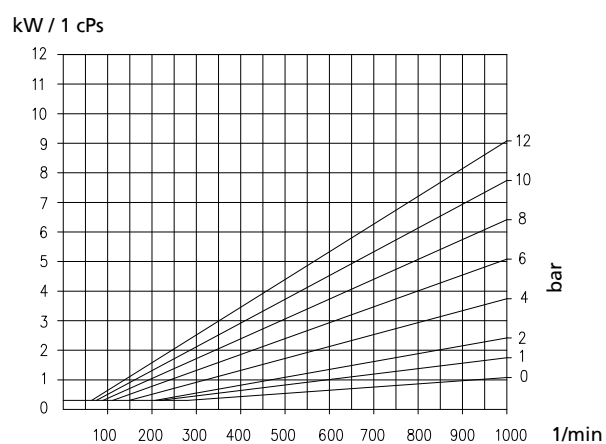
Characteristic curve Vitalobe 220 - bi-wing rotor - clearance: enlarged

Flow rate: 0.34 l/rotation ²²⁾



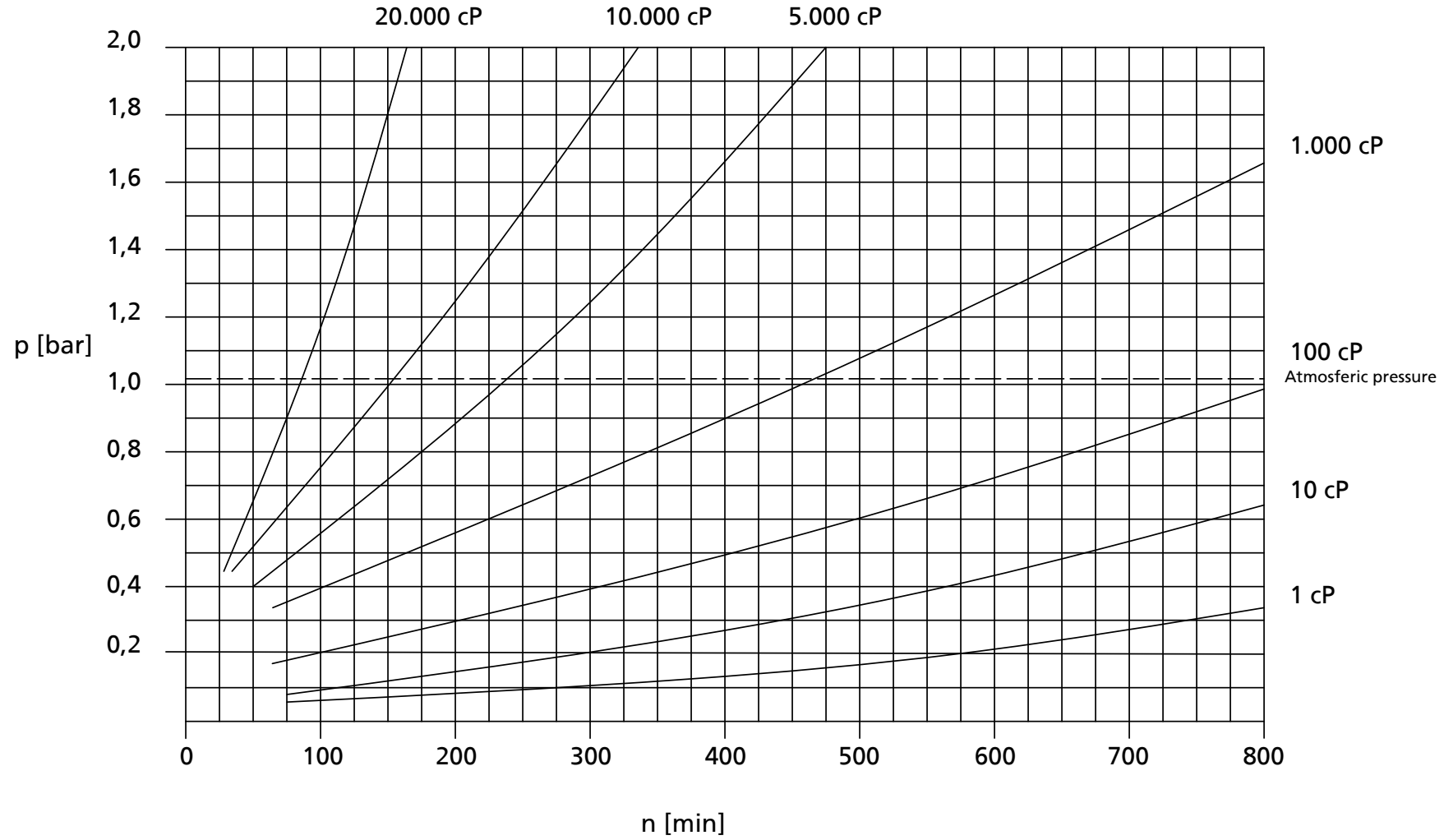
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 50 mm
Standard nominal nozzle diameter DN 50
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 220 - bi-wing rotor - clearance: enlarged



Total power = kW (1 cPs) x F_p

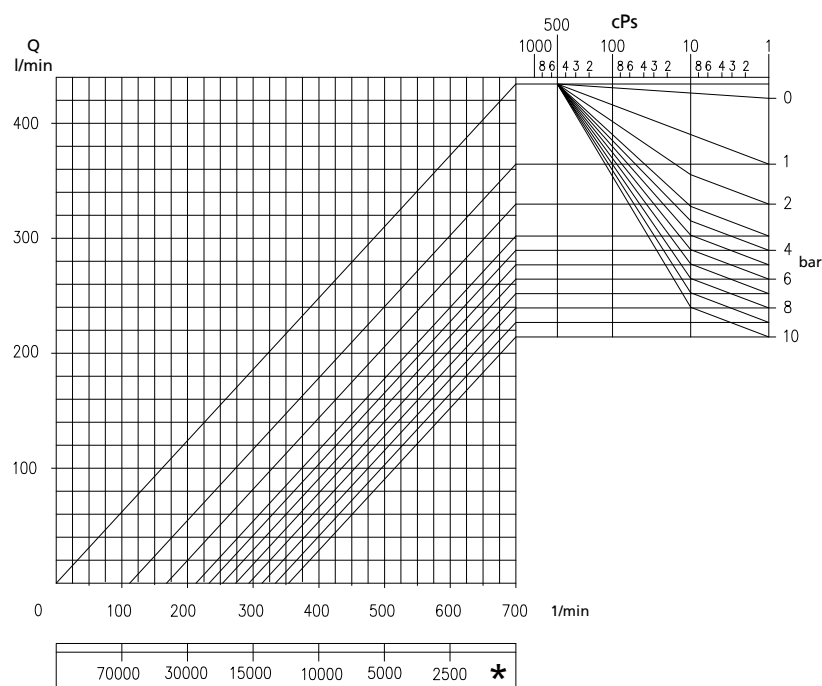
NPSH curve Vitalobe 220



Characteristic curve Vitalobe 325 - bi-lobe rotor - clearance: standard

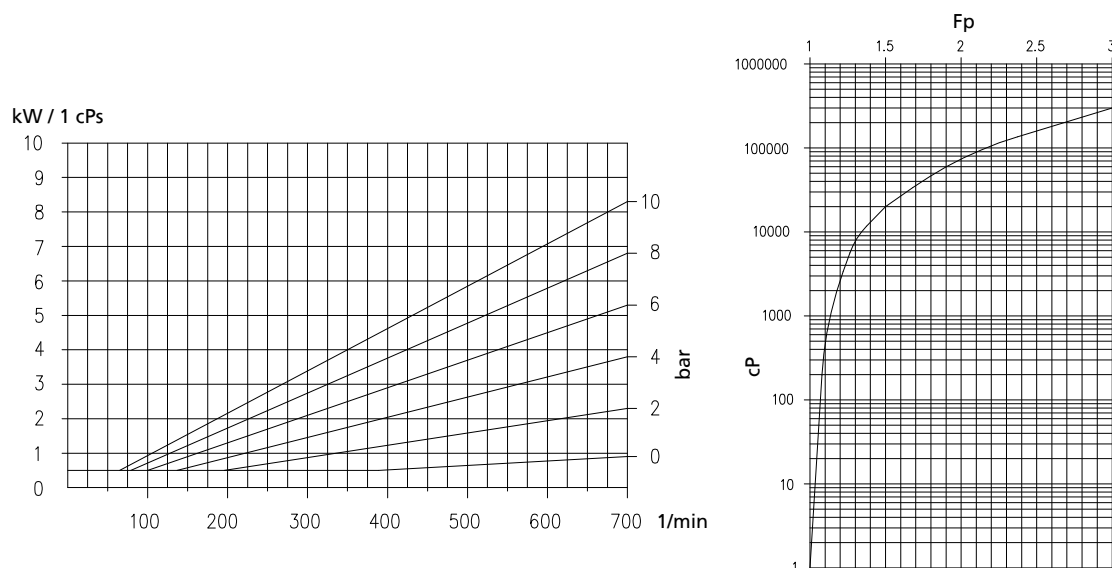
Characteristic curve Vitalobe 325 - bi-lobe rotor - clearance: standard

Flow rate: 0.62 l/rotation ²³⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 57 mm
Standard nominal nozzle diameter DN 65
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 325 - bi-lobe rotor - clearance: standard



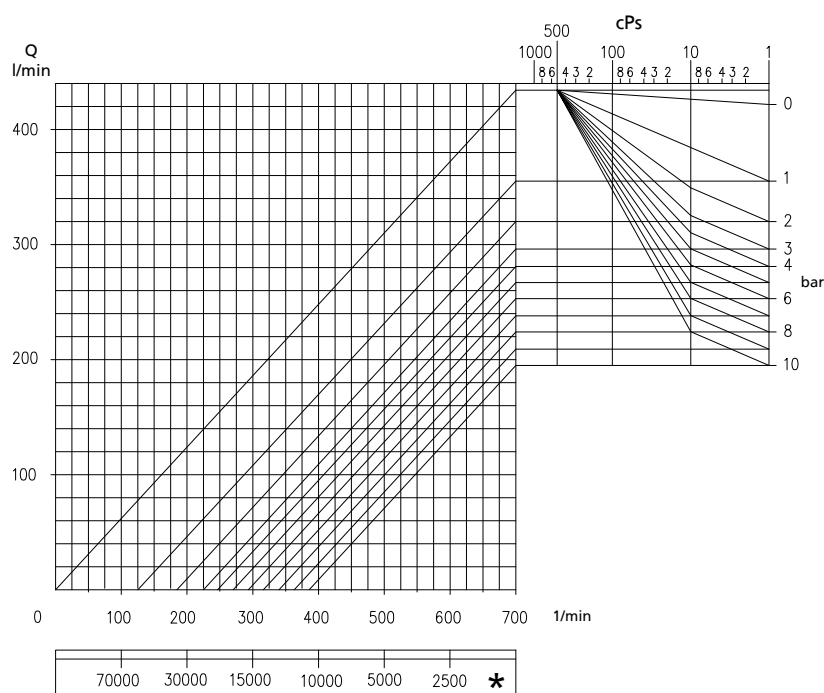
Total power = kW (1 cPs) x Fp

- 23) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
- 24) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 325 - tri-lobe rotor - clearance: standard

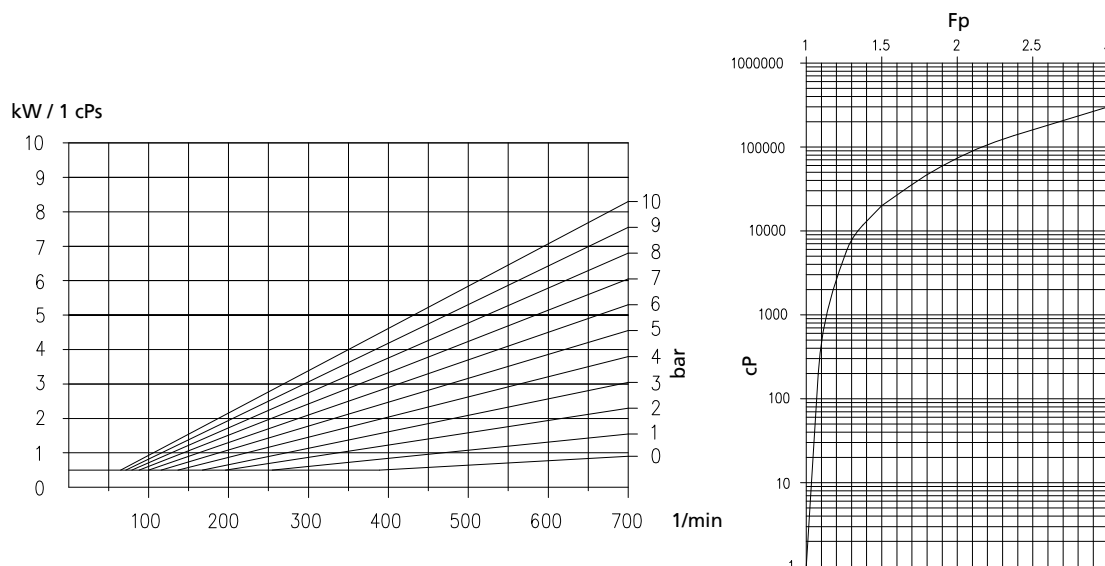
Characteristic curve Vitalobe 325 - tri-lobe rotor - clearance: standard

Flow rate: 0.62 l/rotation ²⁴⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 57 mm
Standard nominal nozzle diameter DN 65
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 325 - tri-lobe rotor - clearance: standard



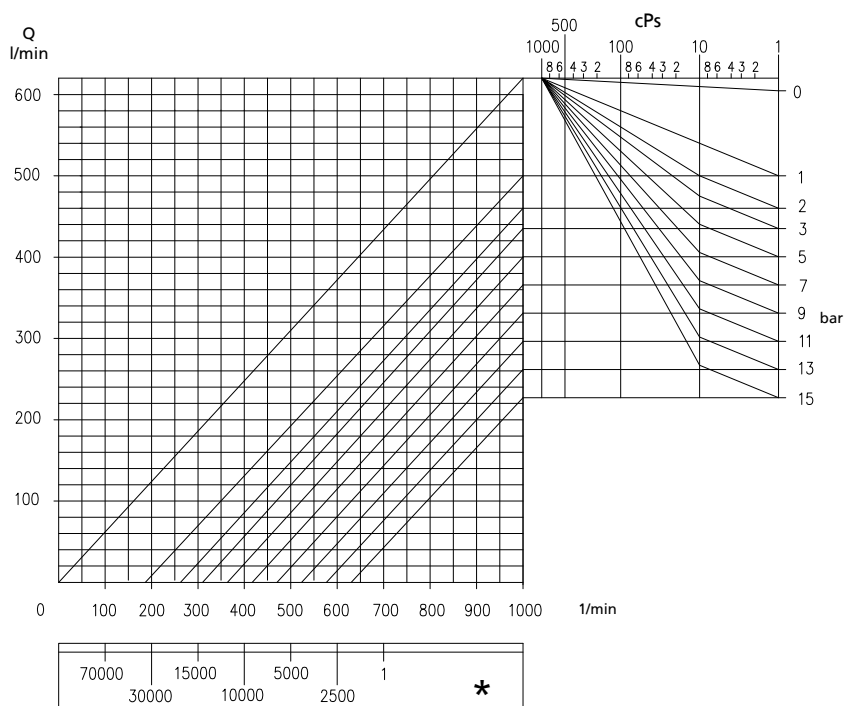
Total power = kW (1 cPs) x Fp

25) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 325 - tri-lobe rotor - clearance: enlarged

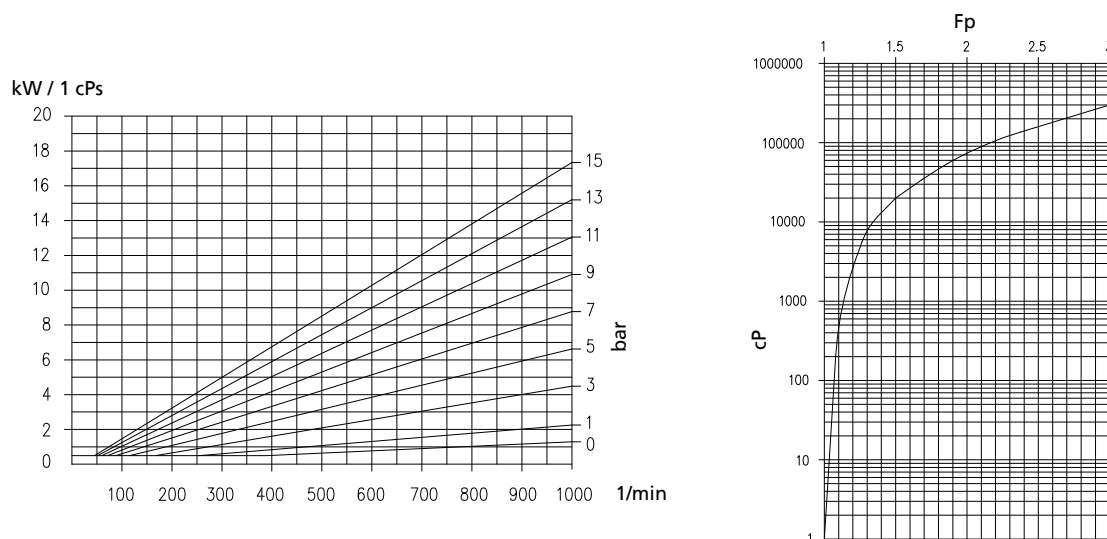
Characteristic curve Vitalobe 325 - tri-lobe rotor - clearance: enlarged

Flow rate: 0.62 l/rotation ²⁵⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 57 mm
Standard nominal nozzle diameter DN 65
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 325 - tri-lobe rotor - clearance: enlarged



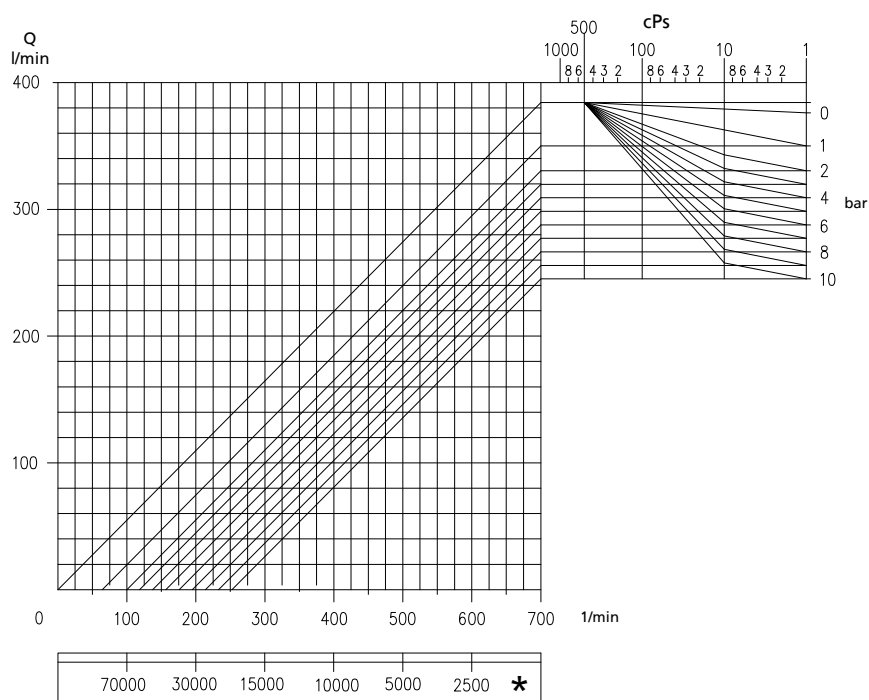
Total power = $kW (1 \text{ cPs}) \times F_p$

26) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 325 - bi-wing rotor - clearance: standard

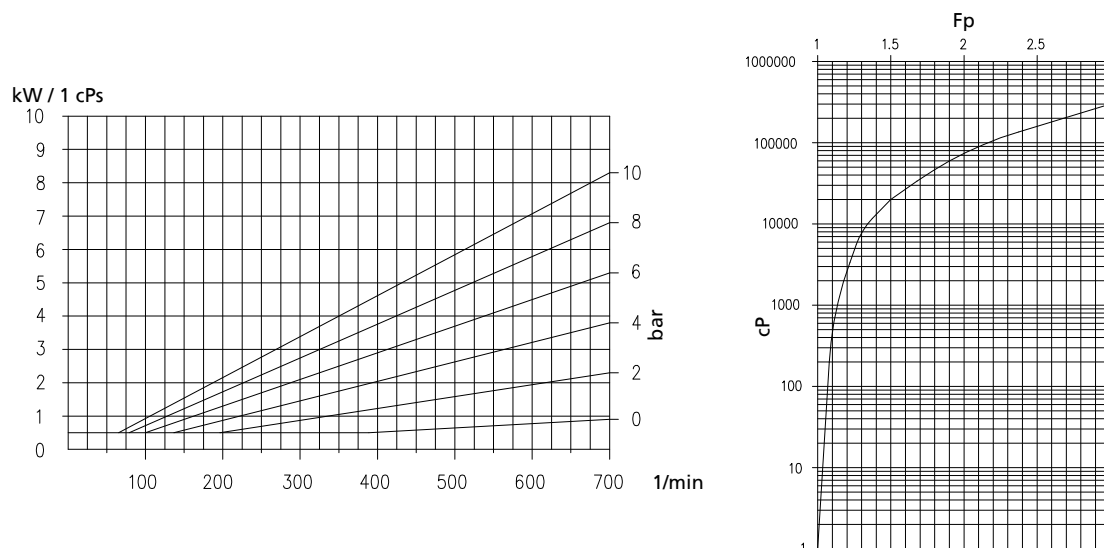
Characteristic curve Vitalobe 325 - bi-wing rotor - clearance: standard

Flow rate: 0.55 l/rotation ²⁶⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 57 mm
Standard nominal nozzle diameter DN 65
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 325 - Bi-wing rotor - clearance: standard



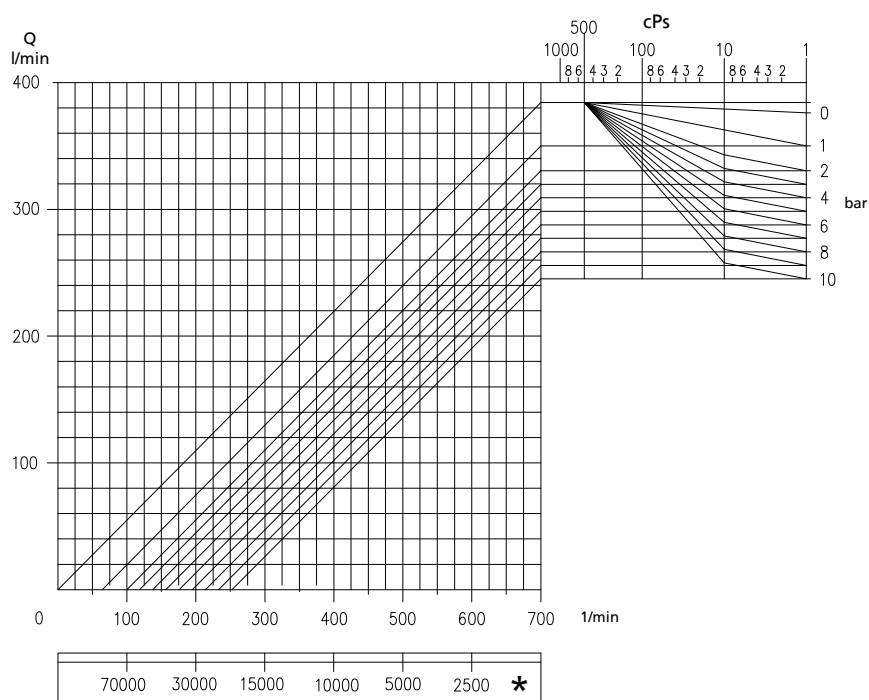
Total power = kW (1 cPs) x Fp

27) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 325 - bi-wing rotor - clearance: enlarged

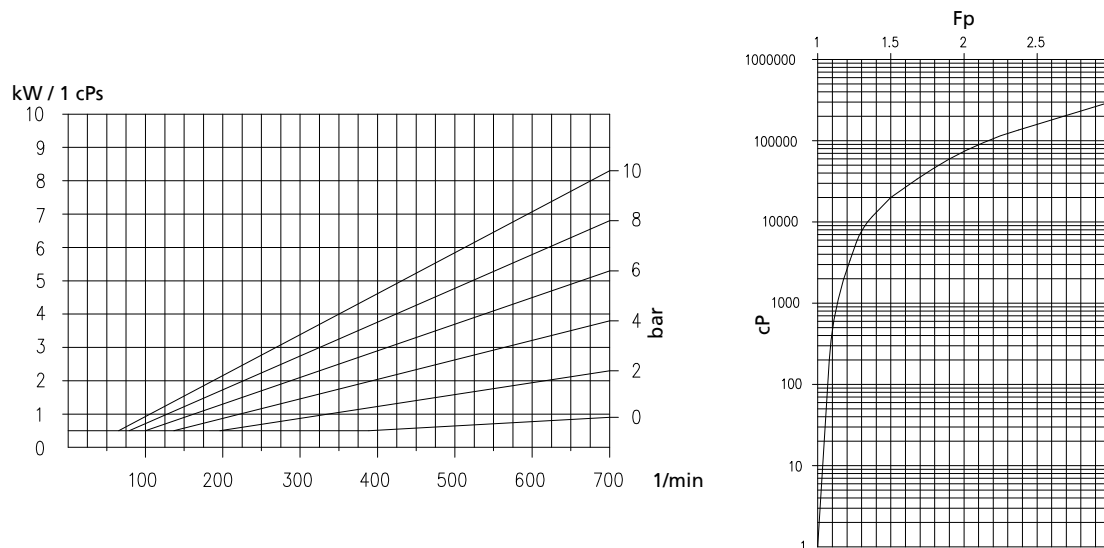
Characteristic curve Vitalobe 325 - bi-wing rotor - clearance: standard

Flow rate: 0.55 l/rotation ²⁷⁾



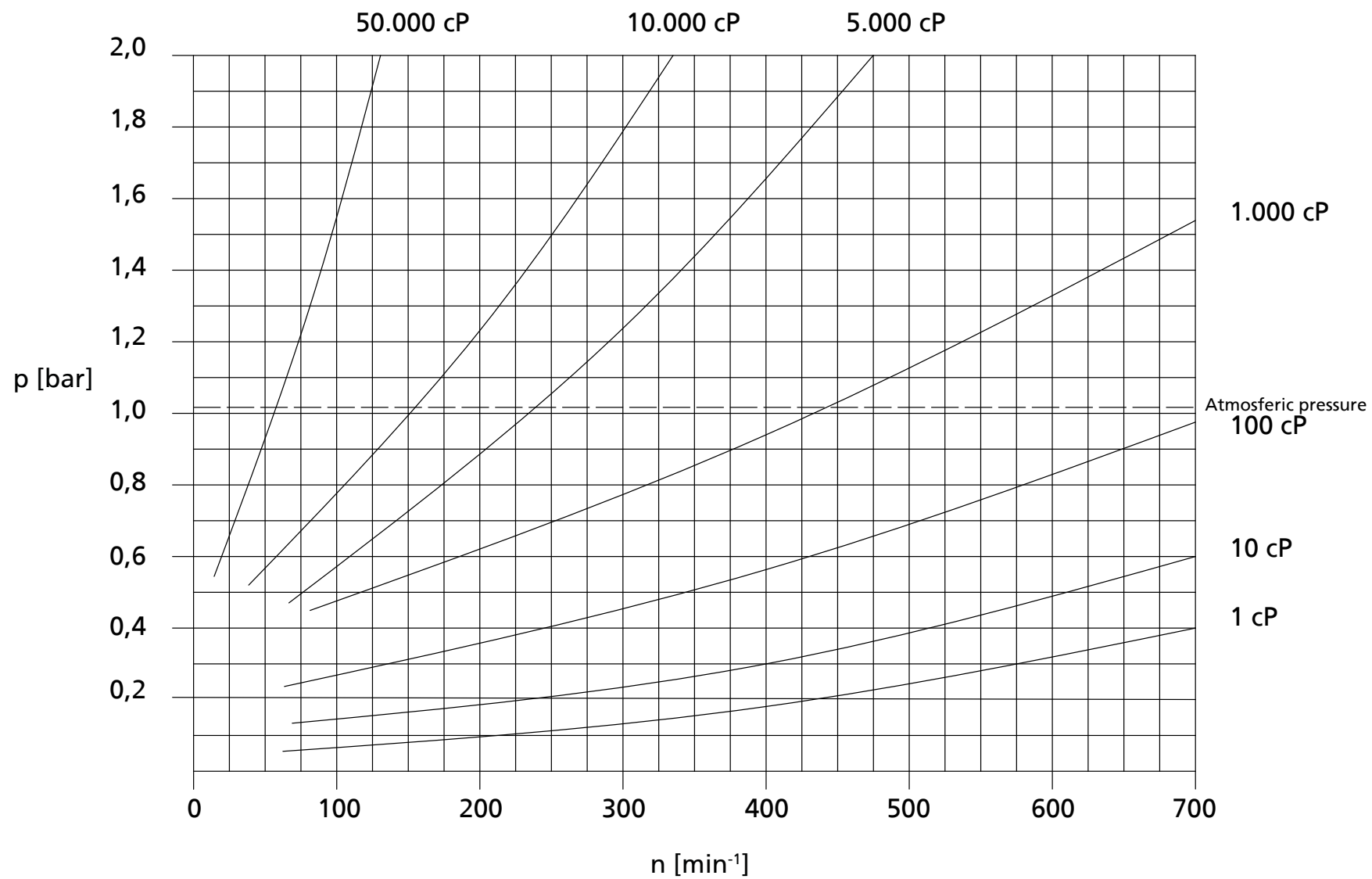
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 57 mm
Standard nominal nozzle diameter DN 65
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 325 - bi-wing rotor - clearance: standard



Total power = kW (1 cPs) x Fp

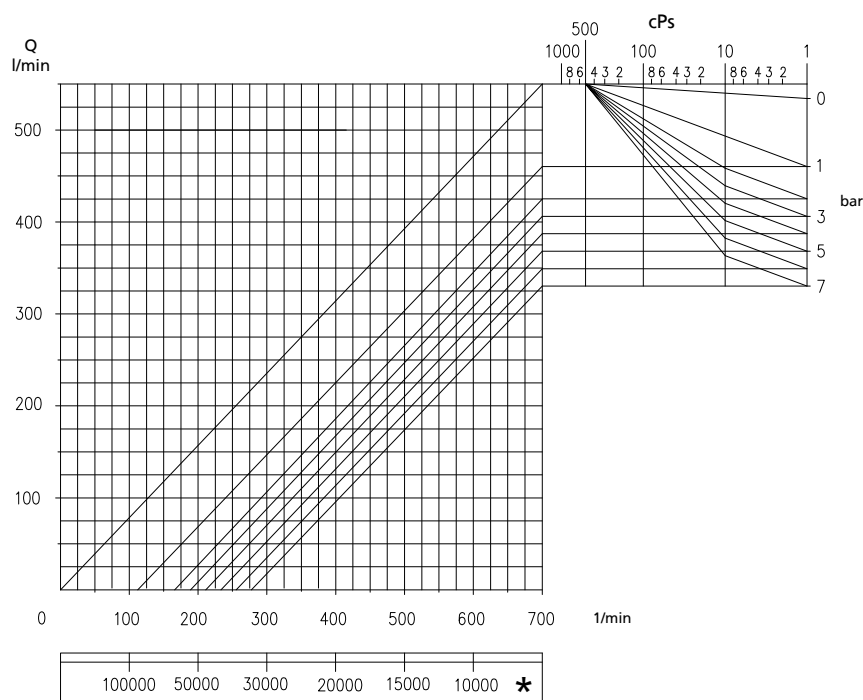
NPSH curve Vitalobe 325



Characteristic curve Vitalobe 330 - bi-lobe rotor - clearance: standard

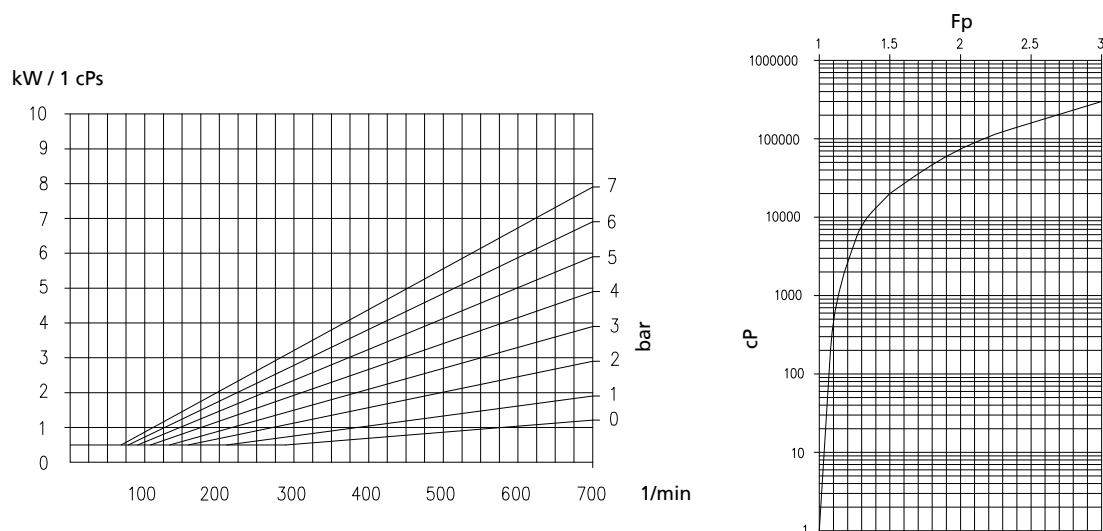
Characteristic curve Vitalobe 330 - bi-lobe rotor - clearance: standard

Flow rate: 0.79 l/rotation ²⁸⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 330 - bi-lobe rotor - clearance: standard



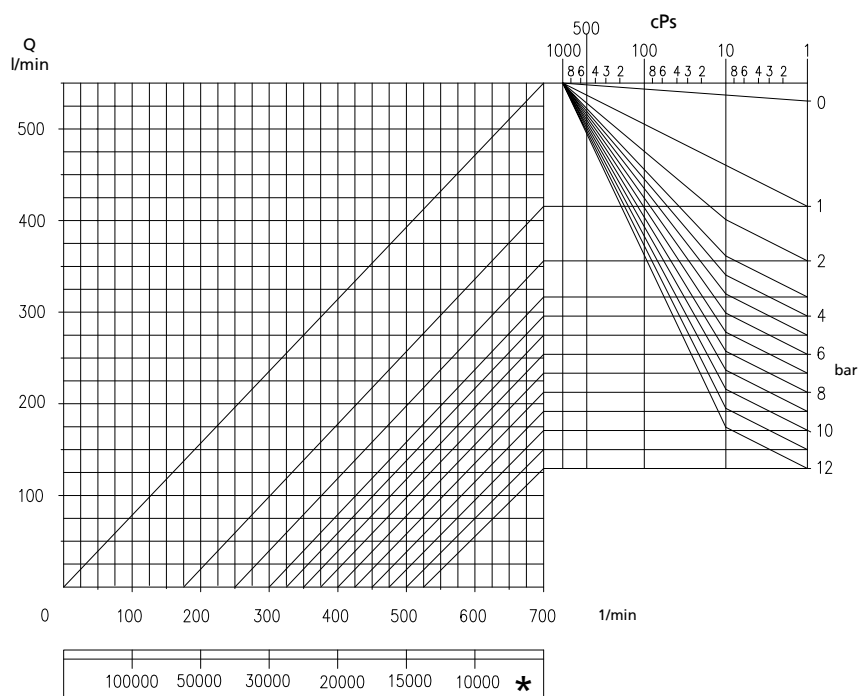
Total power = kW (1 cPs) x Fp

- 28) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
29) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 330 - bi-lobe rotor - clearance: enlarged

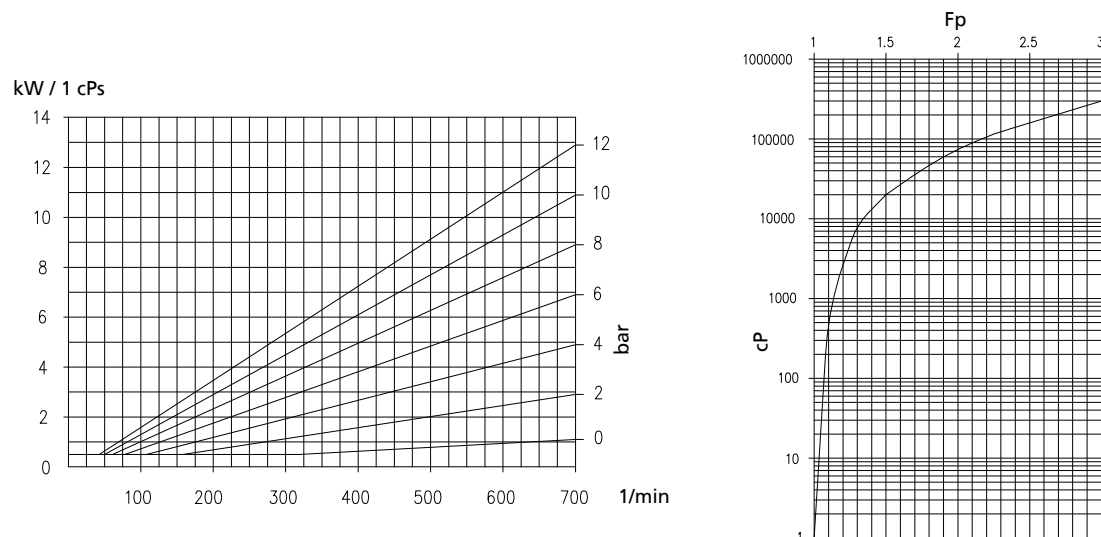
Characteristic curve Vitalobe 330 - bi-lobe rotor - clearance: enlarged

Flow rate: 0.79 l/rotation ²⁹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 330 - bi-lobe rotor - clearance: enlarged



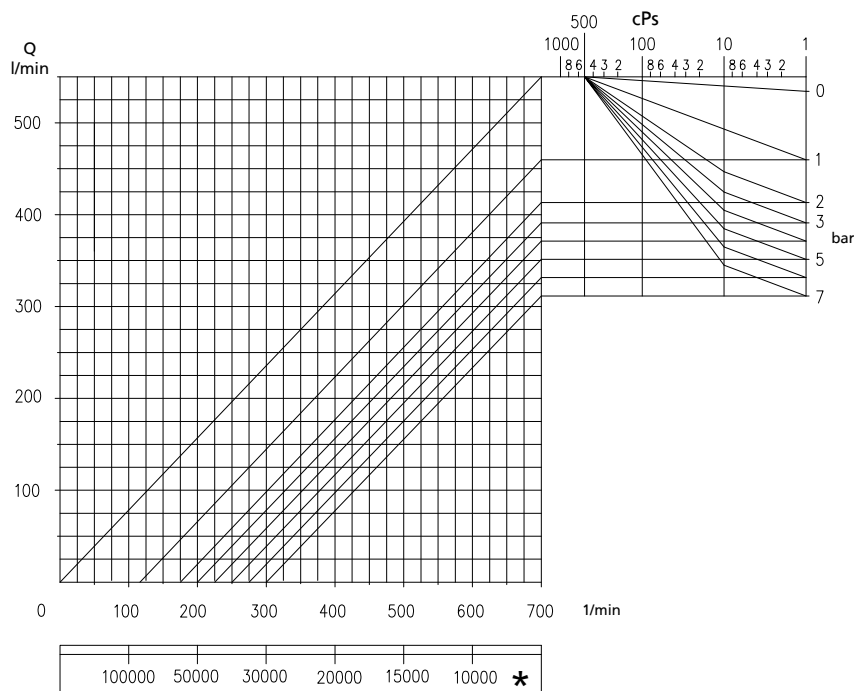
Total power = kW (1 cPs) x Fp

30) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 330 - tri-lobe rotor - clearance: standard

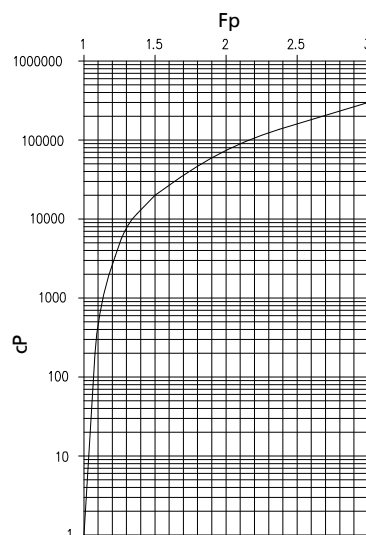
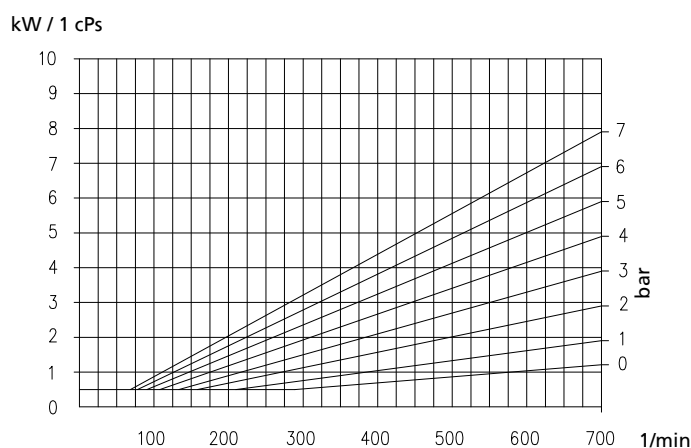
Characteristic curve Vitalobe 330 - tri-lobe rotor - clearance: standard

Flow rate: 0.79 l/rotation³⁰⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 330 - tri-lobe rotor - clearance: standard



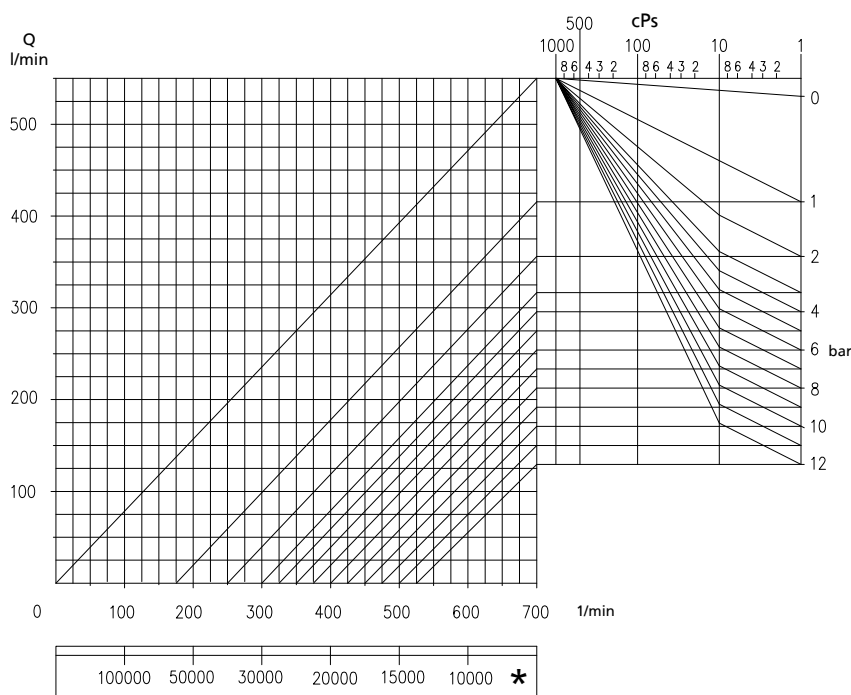
Total power = kW (1 cPs) x F_p

31) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 330 - tri-lobe rotor - clearance: enlarged

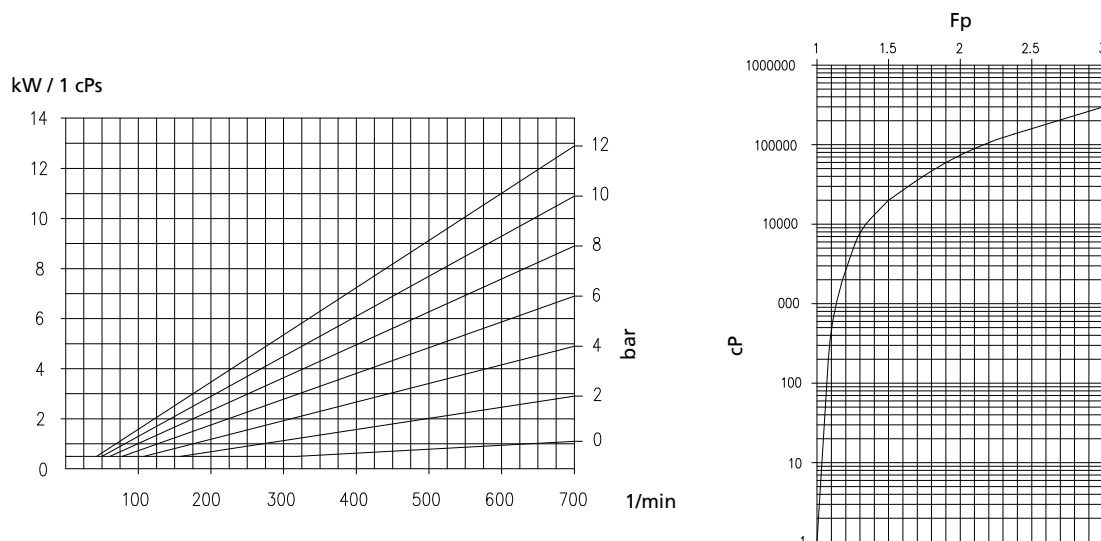
Characteristic curve Vitalobe 330 - tri-lobe rotor - clearance: enlarged

Flow rate: 0.79 l/rotation ³¹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 330 - tri-lobe rotor - clearance: enlarged



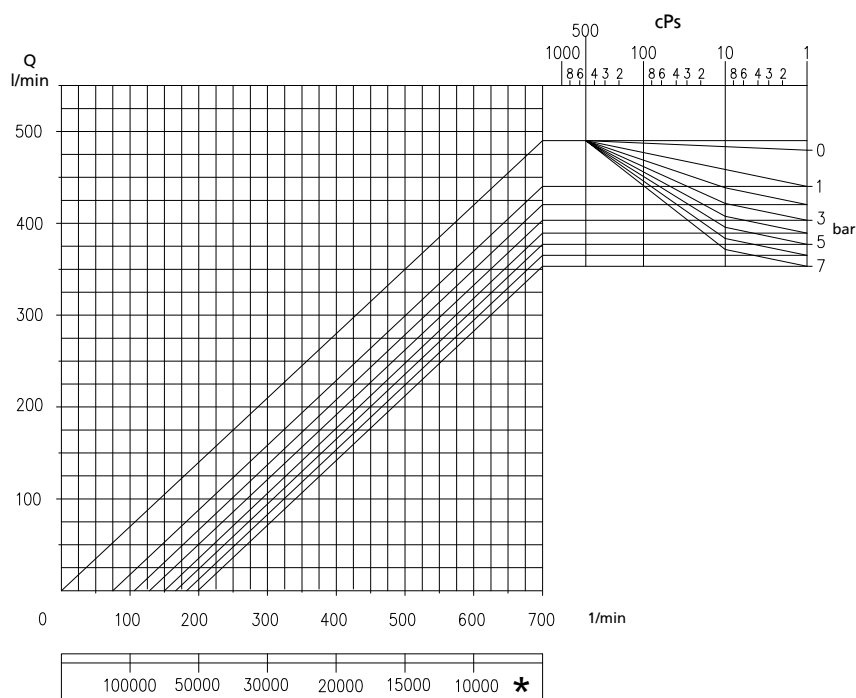
Total power = kW (1 cPs) x Fp

32) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 330 - bi-wing rotor - clearance: standard

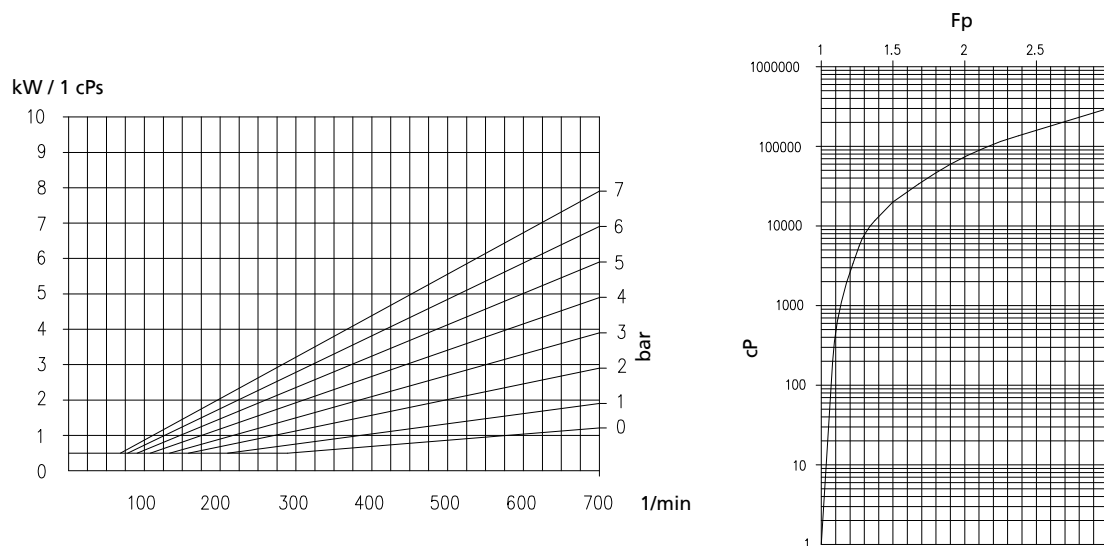
Characteristic curve Vitalobe 330 - bi-wing rotor - clearance: standard

Flow rate: 0.7 l/rotation ³²⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 330 - bi-wing rotor - clearance: standard



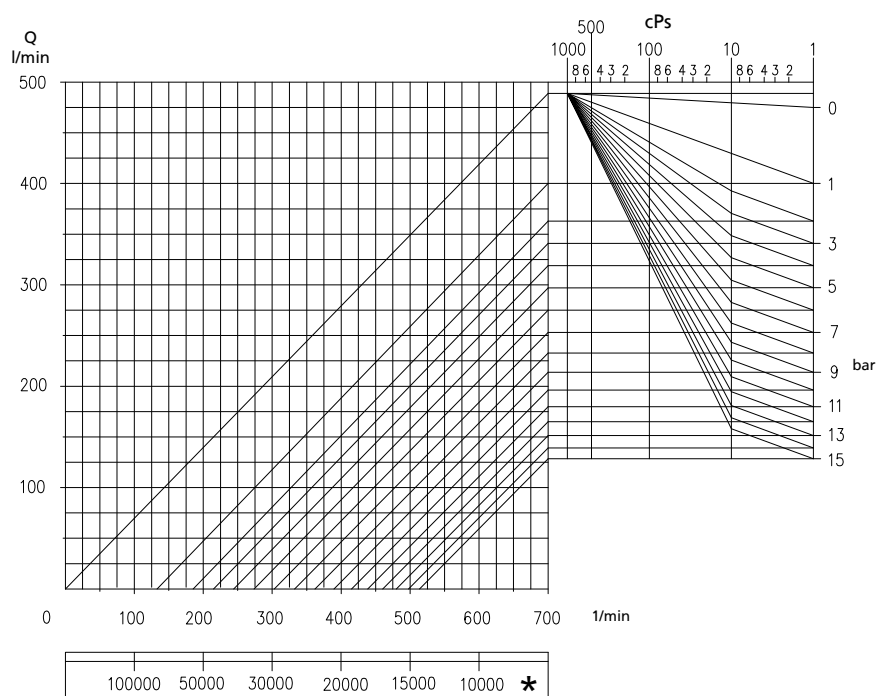
Total power = kW (1 cPs) x F_p

33) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 330 - bi-wing rotor - clearance: enlarged

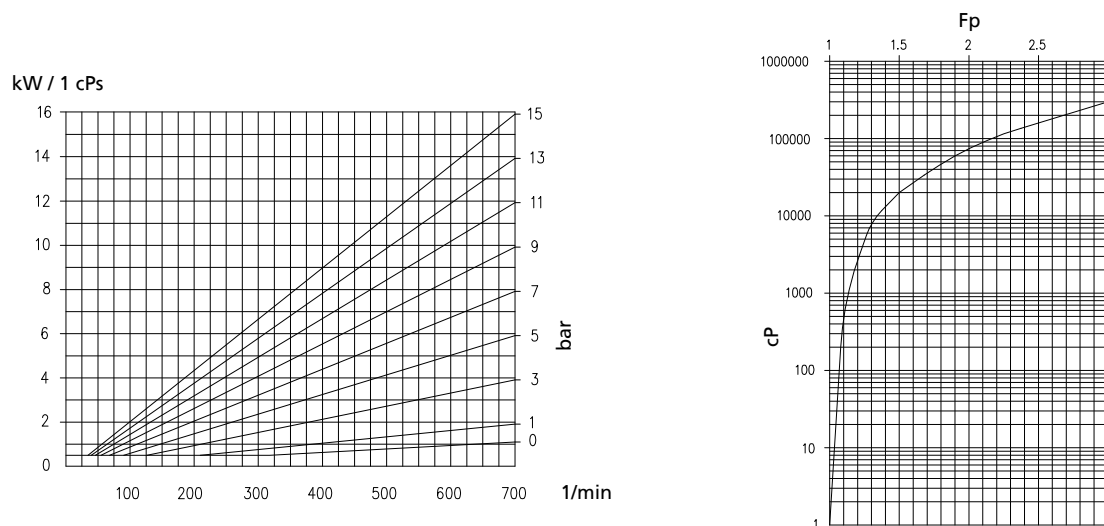
Characteristic curve Vitalobe 330 - bi-wing rotor - clearance: enlarged

Flow rate: 0.7 l/rotation ³³⁾



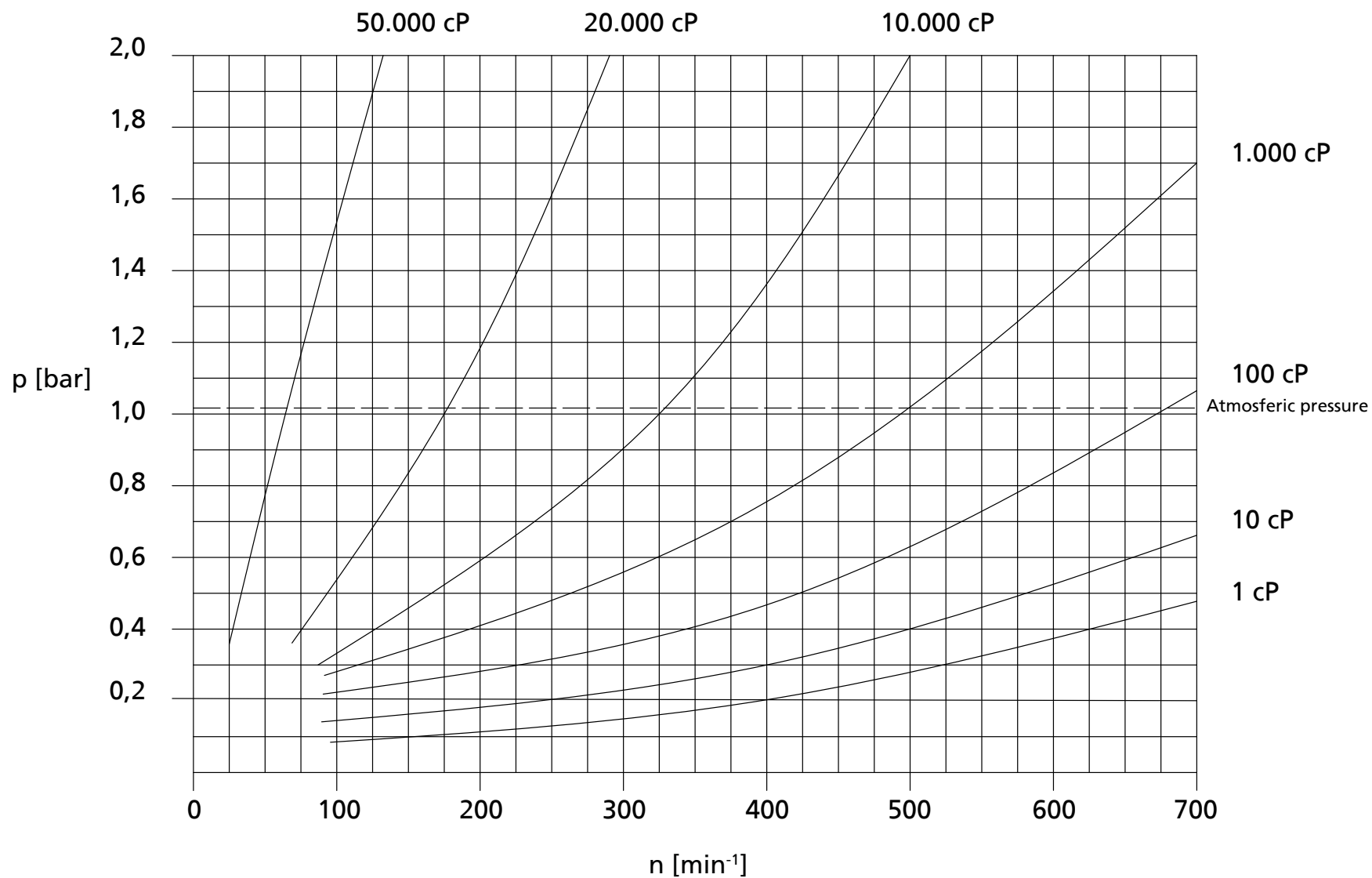
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 330 - bi-wing rotor - clearance: enlarged



Total power = kW (1 cPs) x Fp

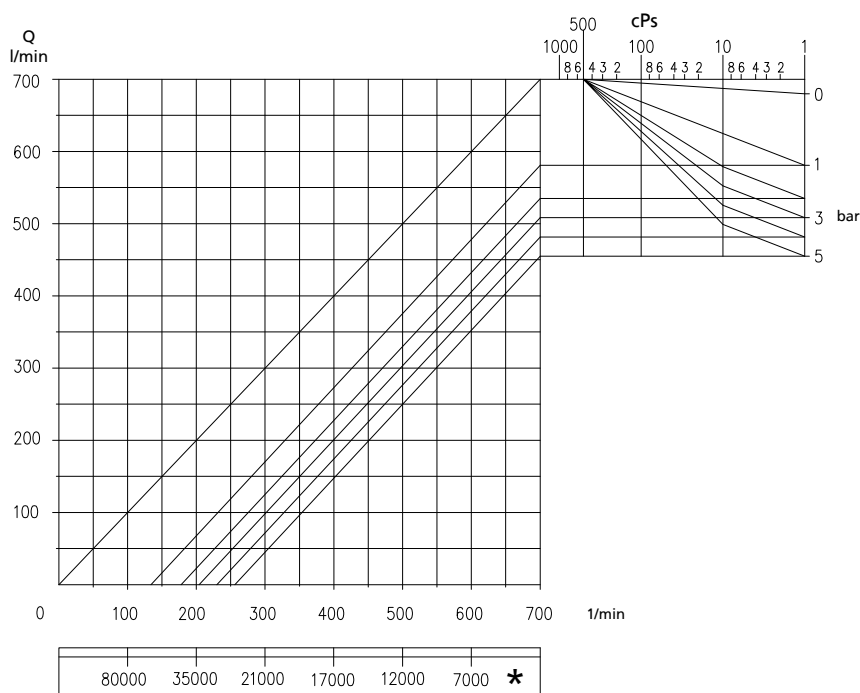
NPSH curve Vitalobe 330



Characteristic curve Vitalobe 390 - bi-lobe rotor - clearance: standard

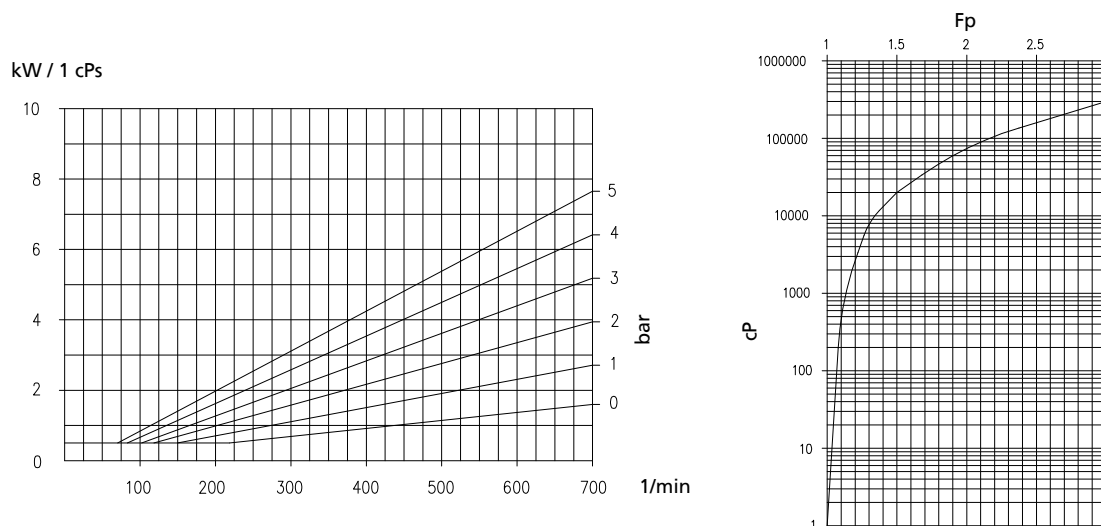
Characteristic curve Vitalobe 390 - bi-lobe rotor - clearance: standard

Flow rate: 1.0 l/rotation ³⁴⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 390 - bi-lobe rotor - clearance: standard



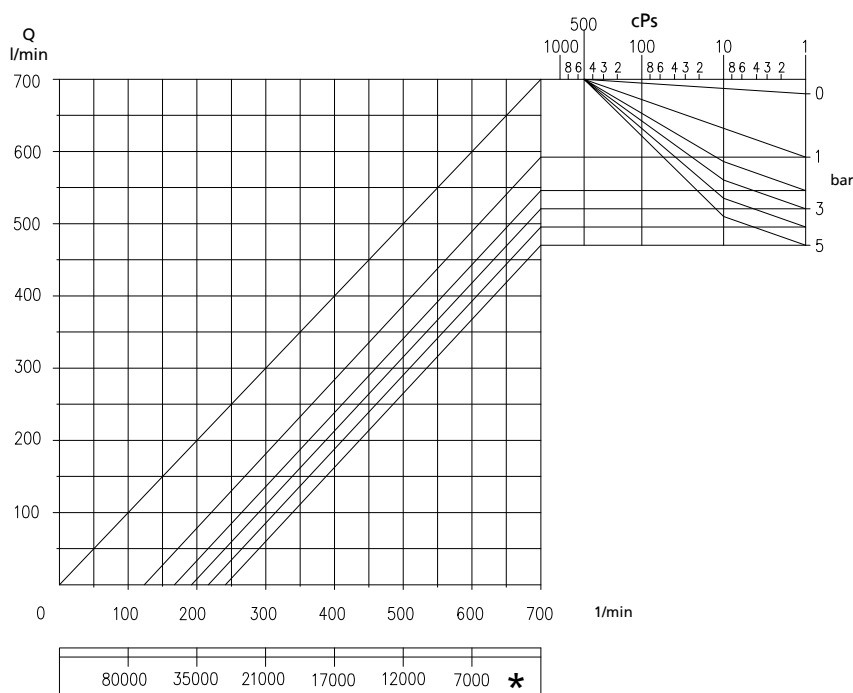
Total power = kW (1 cPs) x F_p

- 34) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
35) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 390 - tri-lobe rotor - clearance: standard

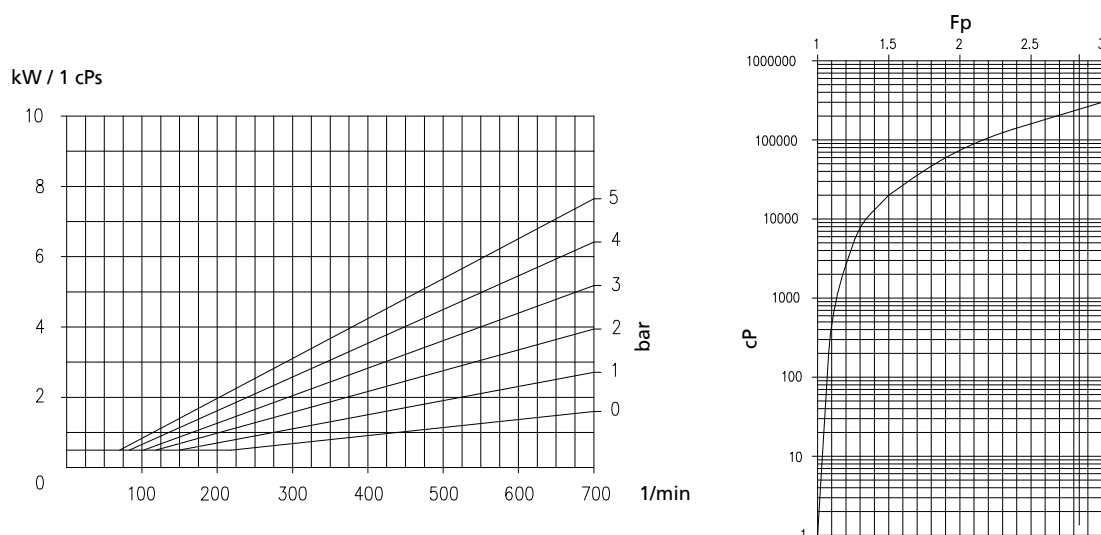
Characteristic curve Vitalobe 390 - tri-lobe rotor - clearance: standard

Flow rate: 1.0 l/rotation ³⁵⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 390 - tri-lobe rotor - clearance: standard



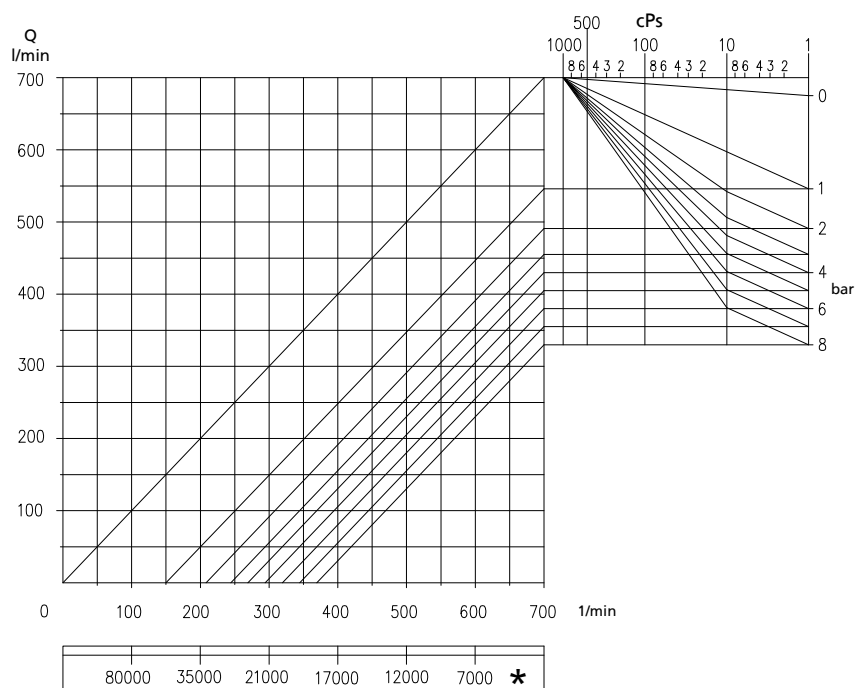
Total power = kW (1 cPs) x F_p

36) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 390 - tri-lobe rotor - clearance: enlarged

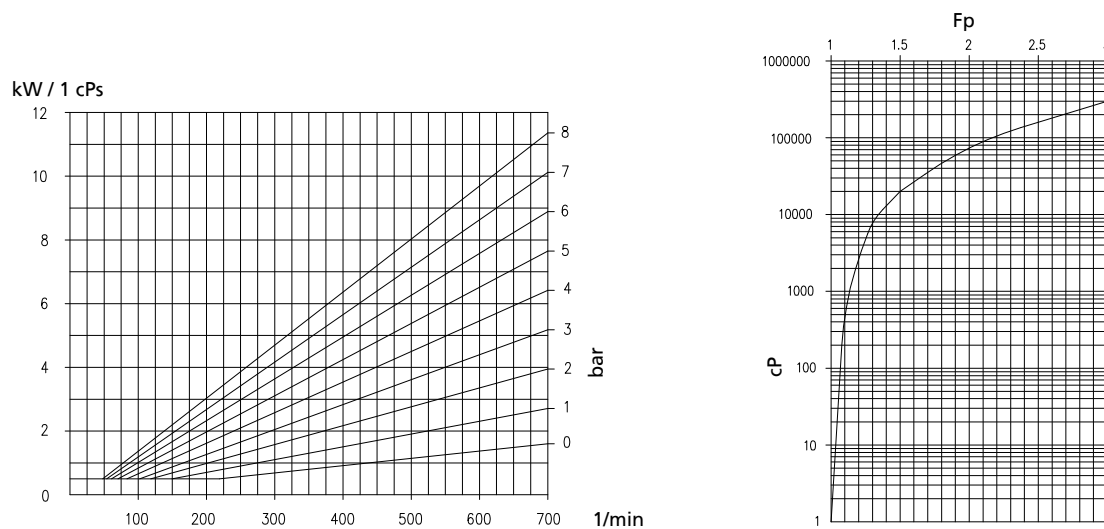
Characteristic curve Vitalobe 390 - tri-lobe rotor - clearance: enlarged

Flow rate: 1.0 l/rotation ³⁶⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 390 - tri-lobe rotor - clearance: enlarged



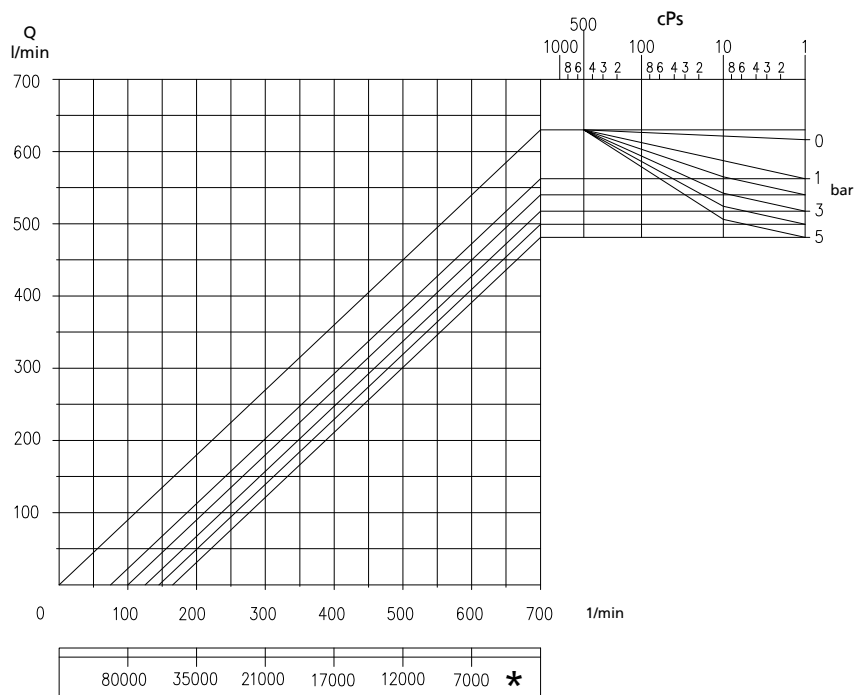
Total power = kW (1 cPs) x Fp

37) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 390 - bi-wing rotor - clearance: standard

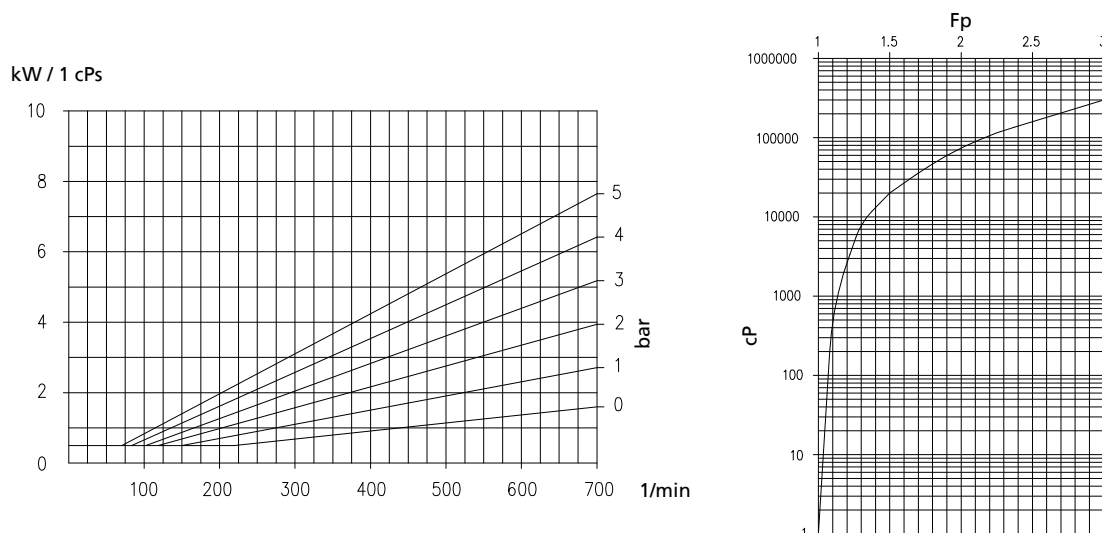
Characteristic curve Vitalobe 390 - bi-wing rotor - clearance: standard

Flow rate: 0.9 l/rotation ³⁷⁾



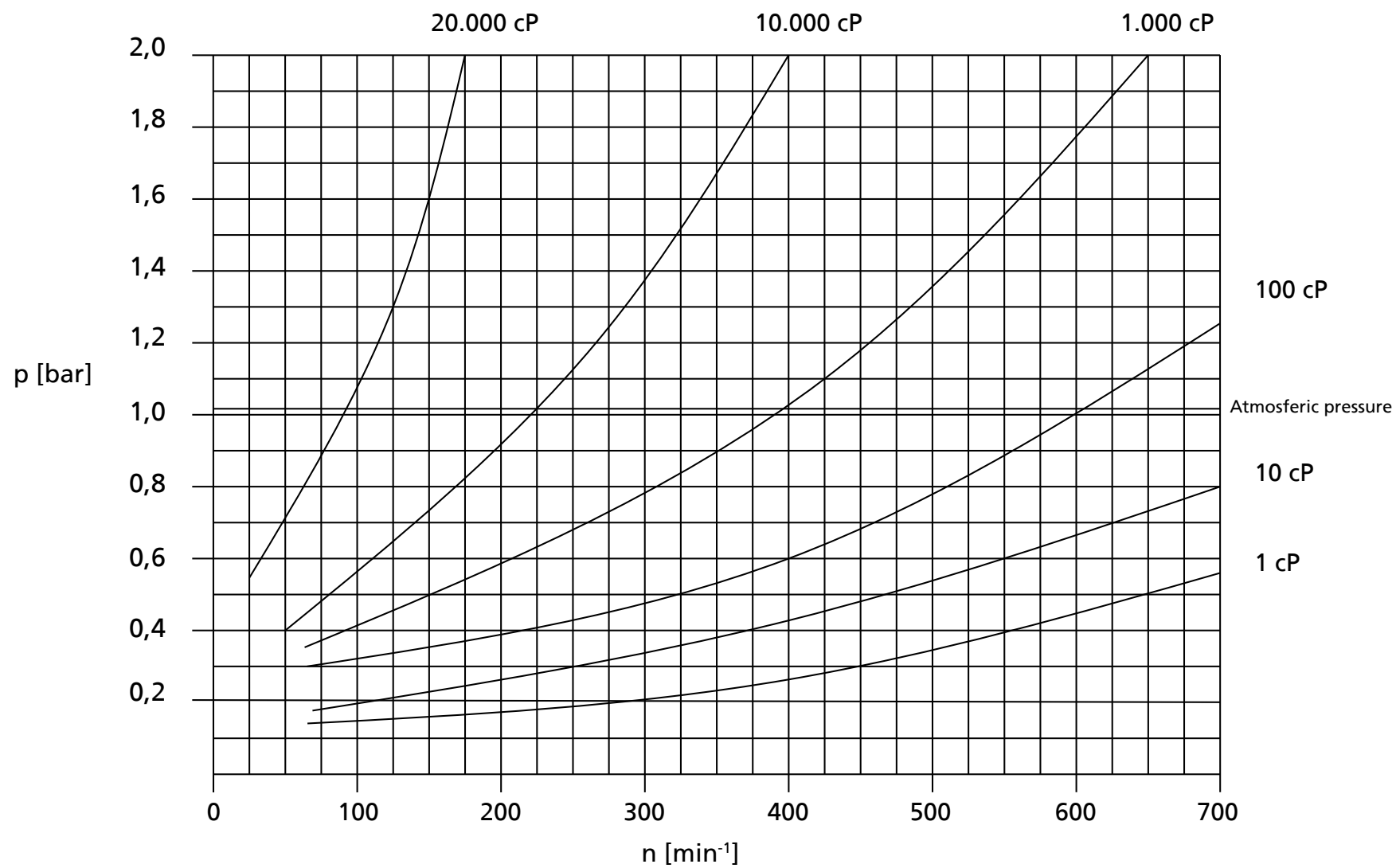
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 700 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 390 - bi-wing rotor - clearance: standard



Total power = kW (1 cPs) x F_p

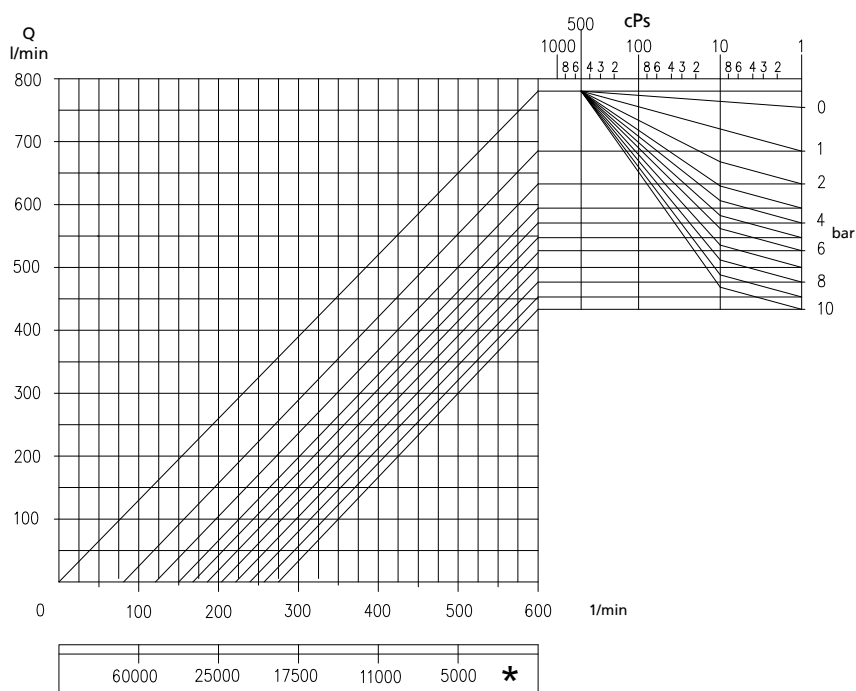
NPSH curve Vitalobe 390



Characteristic curve Vitalobe 430 - bi-lobe rotor - clearance: standard

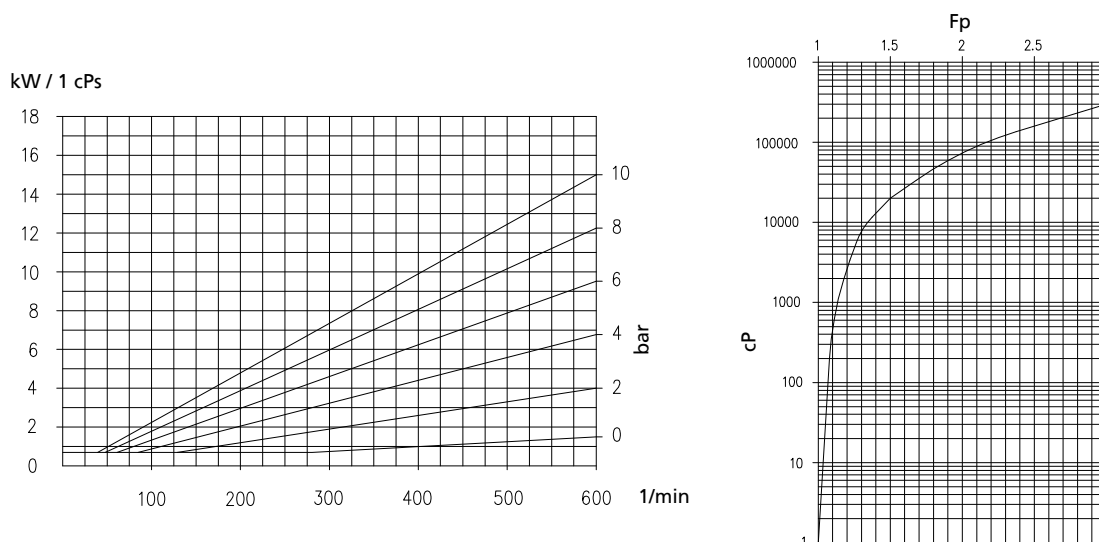
Characteristic curve Vitalobe 430 - bi-lobe rotor - clearance: standard

Flow rate: 1.3 l/rotation ³⁸⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 600 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 430 - bi-lobe rotor - clearance: standard



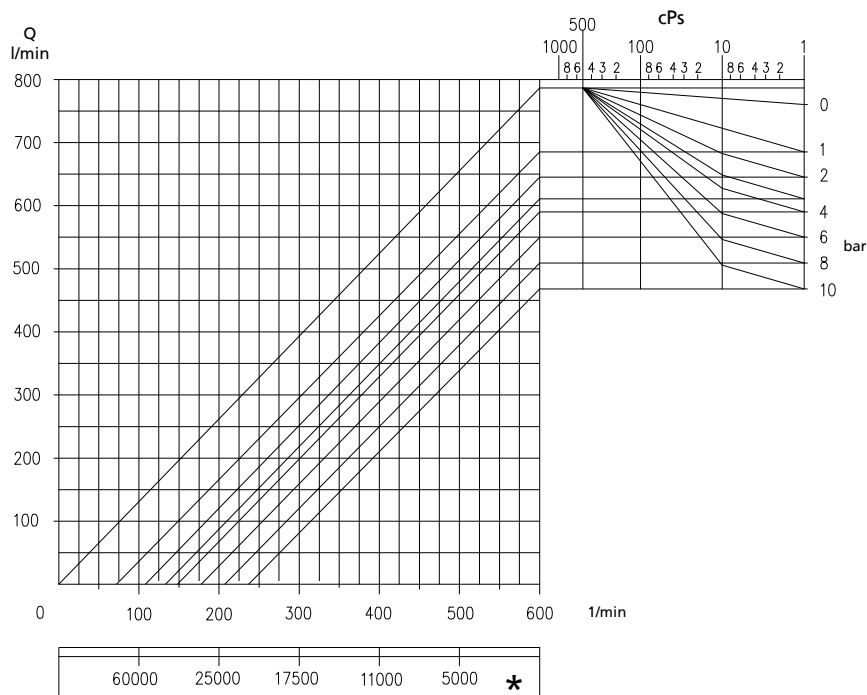
Total power = kW (1 cPs) x Fp

- 38) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
39) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 430 - tri-lobe rotor - clearance: standard

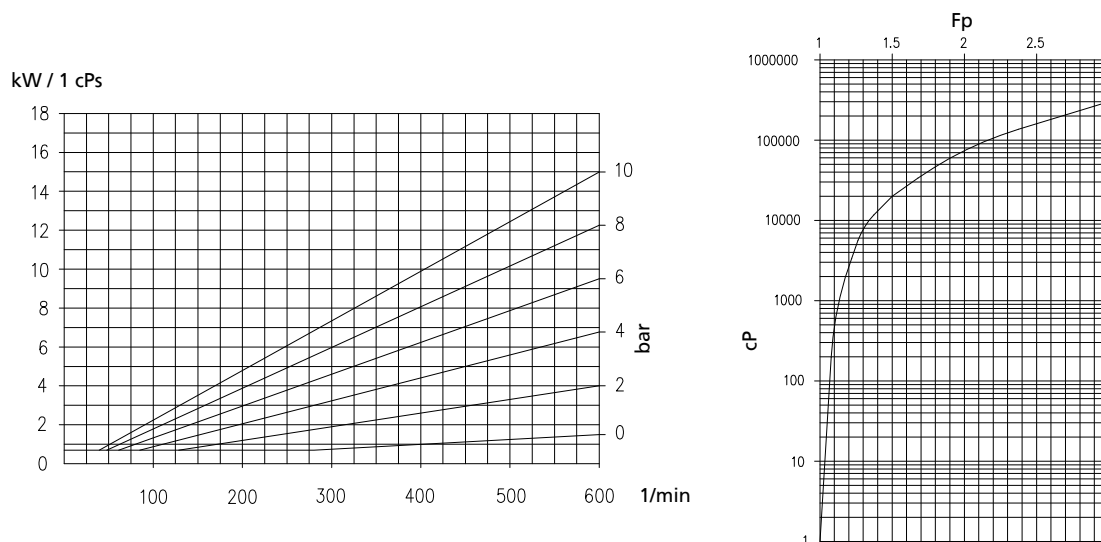
Characteristic curve Vitalobe 430 - tri-lobe rotor - clearance: standard

Flow rate: 1.31 l/rotation ³⁹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 600 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 430 - tri-lobe rotor - clearance: standard



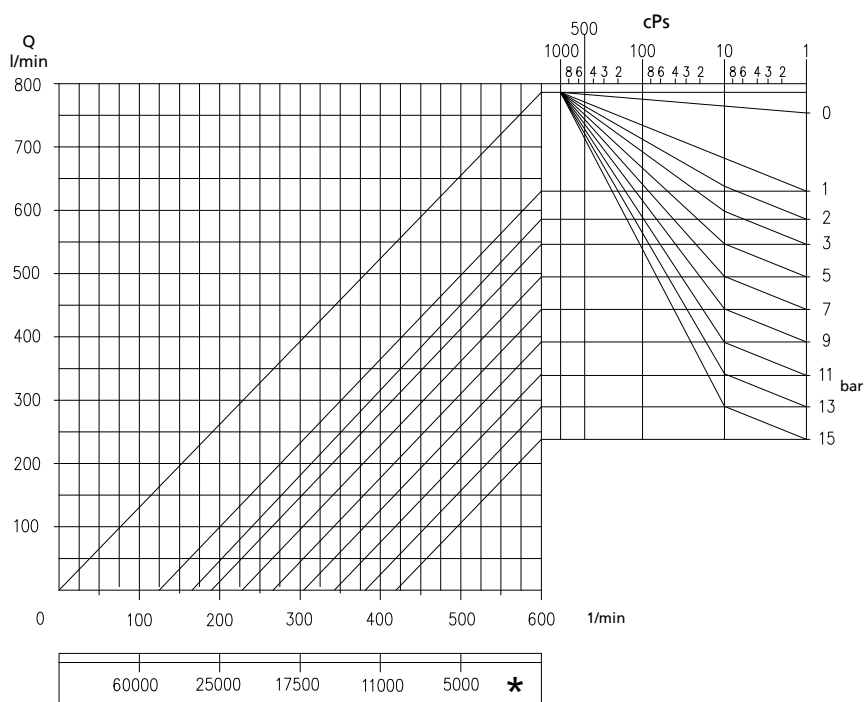
Total power = kW (1 cPs) x Fp

40) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 430 - tri-lobe rotor - clearance: enlarged

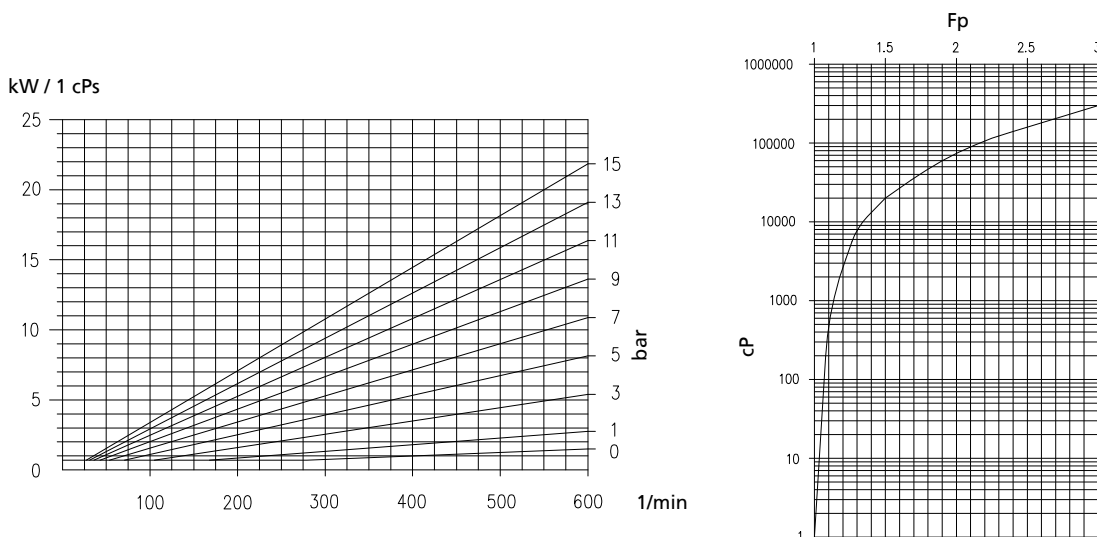
Characteristic curve Vitalobe 430 - tri-lobe rotor - clearance: enlarged

Flow rate: 1.31 l/rotation ⁴⁰⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 600 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 430 - tri-lobe rotor - clearance: enlarged



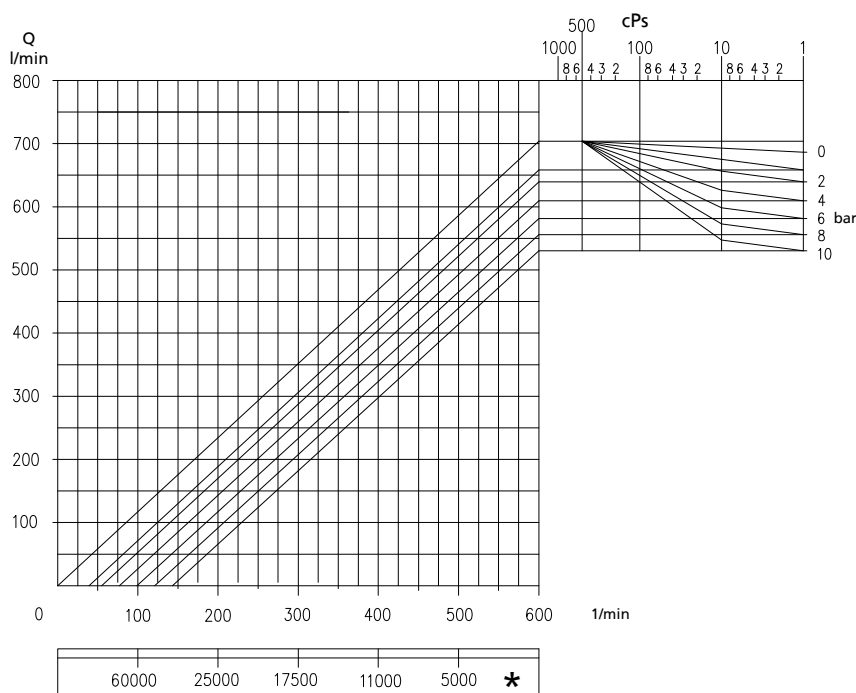
Total power = kW (1 cPs) x Fp

41) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 430 - bi-wing rotor - clearance: standard

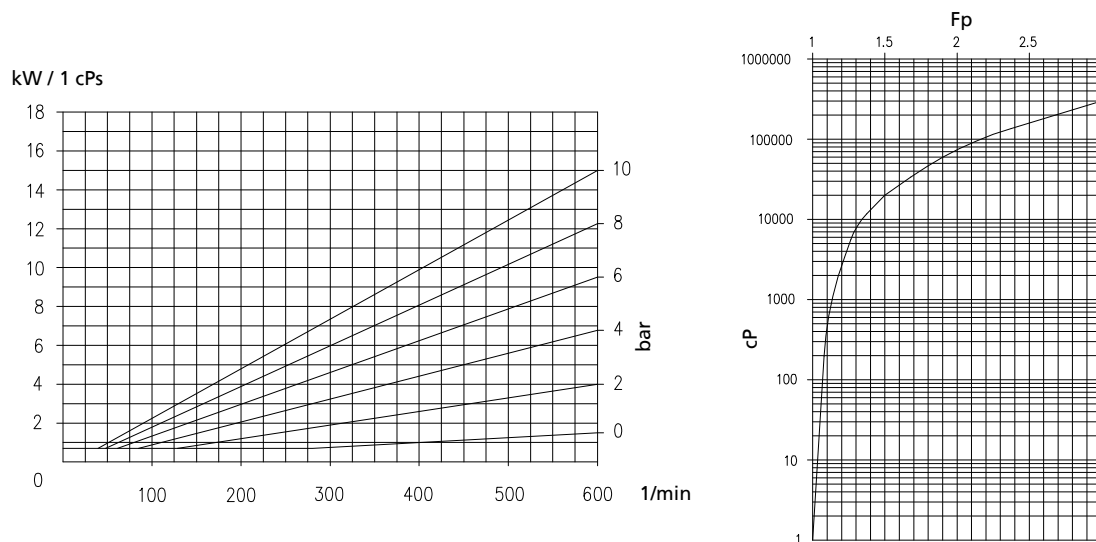
Characteristic curve Vitalobe 430 - bi-wing rotor - clearance: standard

Flow rate: 1.17 l/rotation ⁴¹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 600 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 430 - bi-wing rotor - clearance: standard



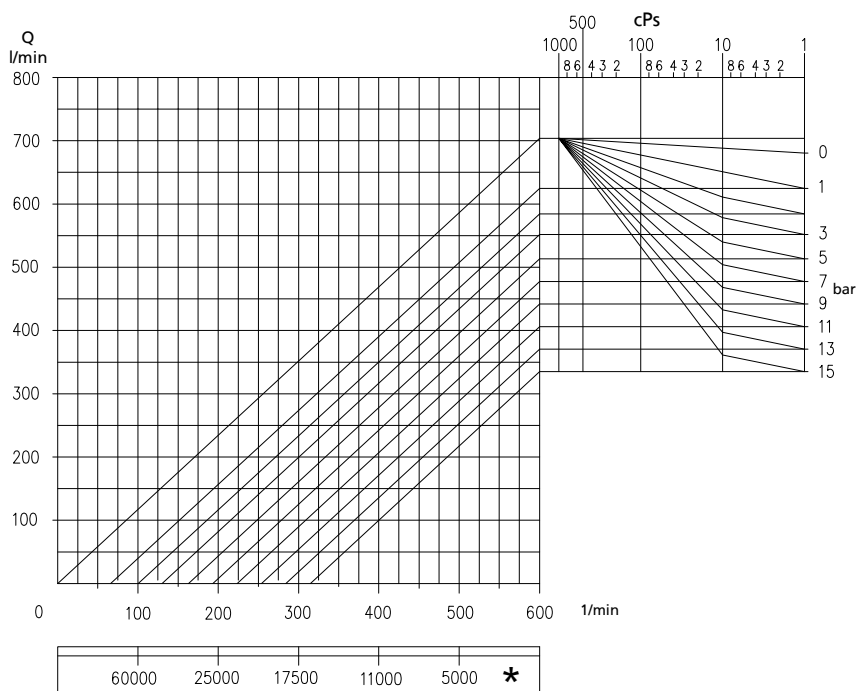
Total power = kW (1 cPs) x F_p

42) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 430 - bi-wing rotor - clearance: enlarged

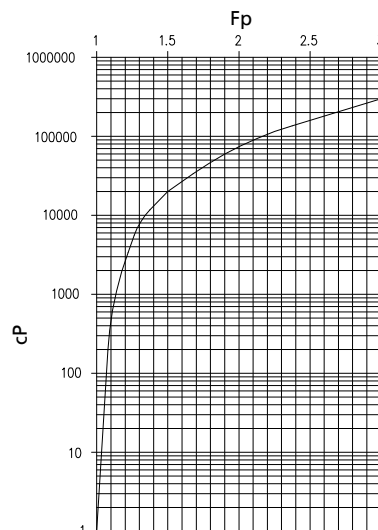
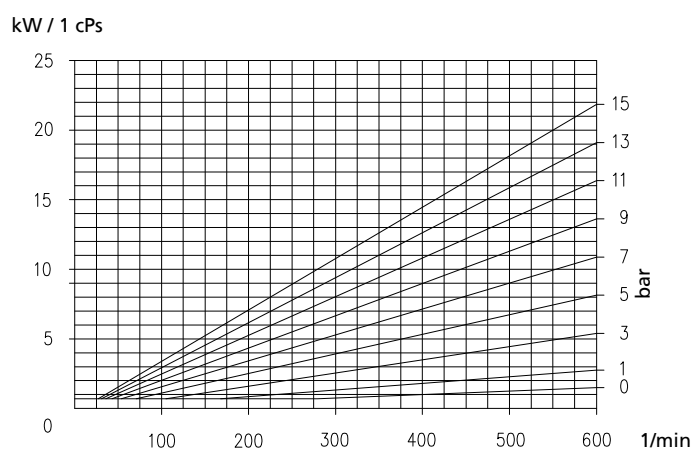
Characteristic curve Vitalobe 430 - bi-wing rotor - clearance: enlarged

Flow rate: 1.17 l/rotation ⁴²⁾



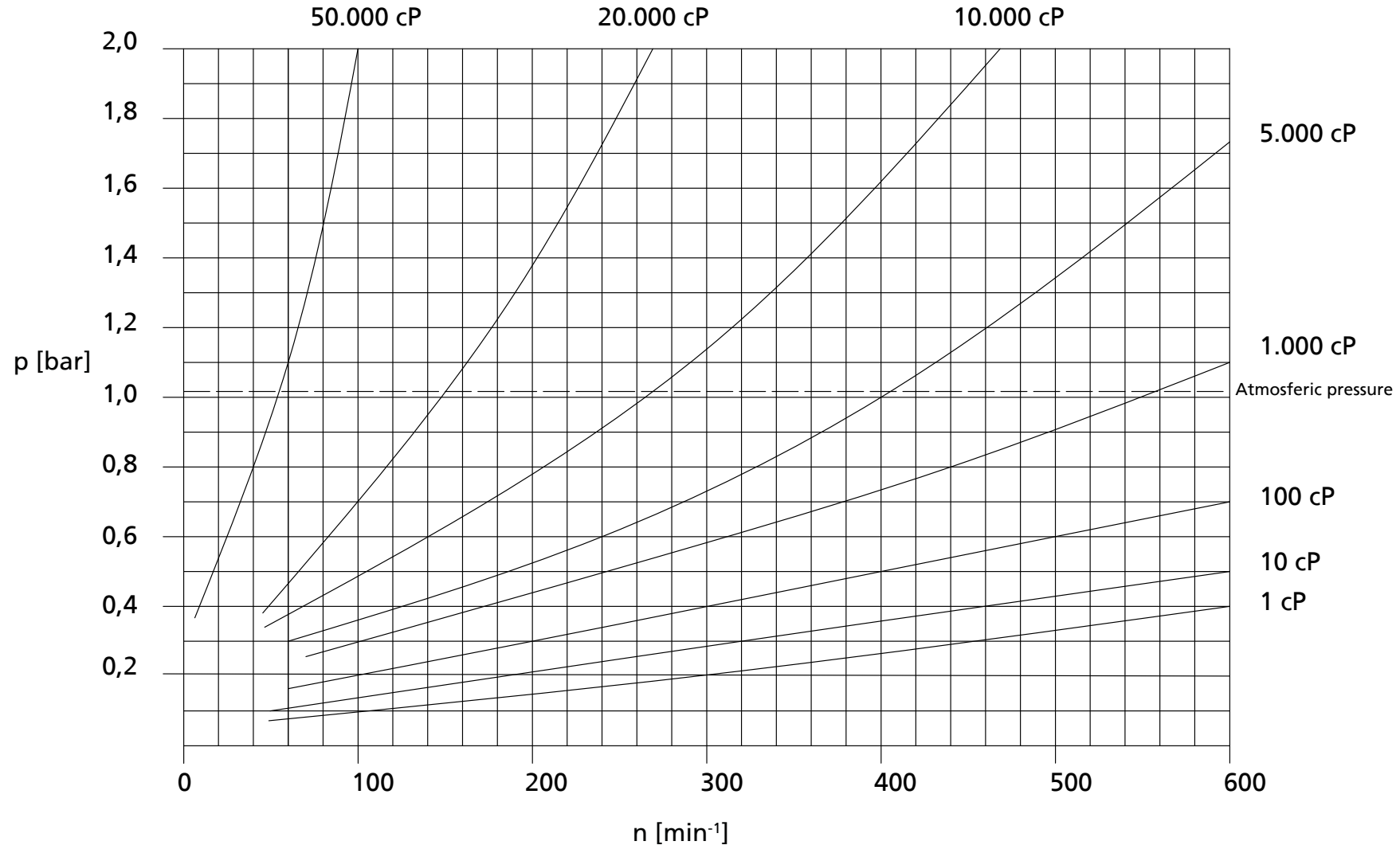
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 75 mm
Standard nominal nozzle diameter DN 80
Max. speed at 1 cPs = 600 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 430 - bi-wing rotor - clearance: enlarged



Total power = kW (1 cPs) x Fp

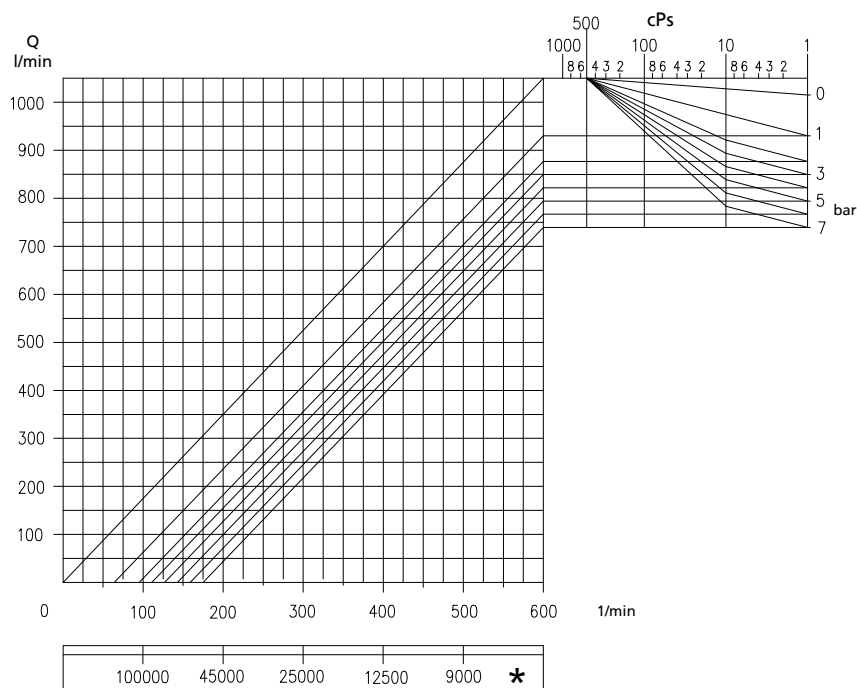
NPSH curve Vitalobe 430



Characteristic curve Vitalobe 440 - bi-lobe rotor - clearance: standard

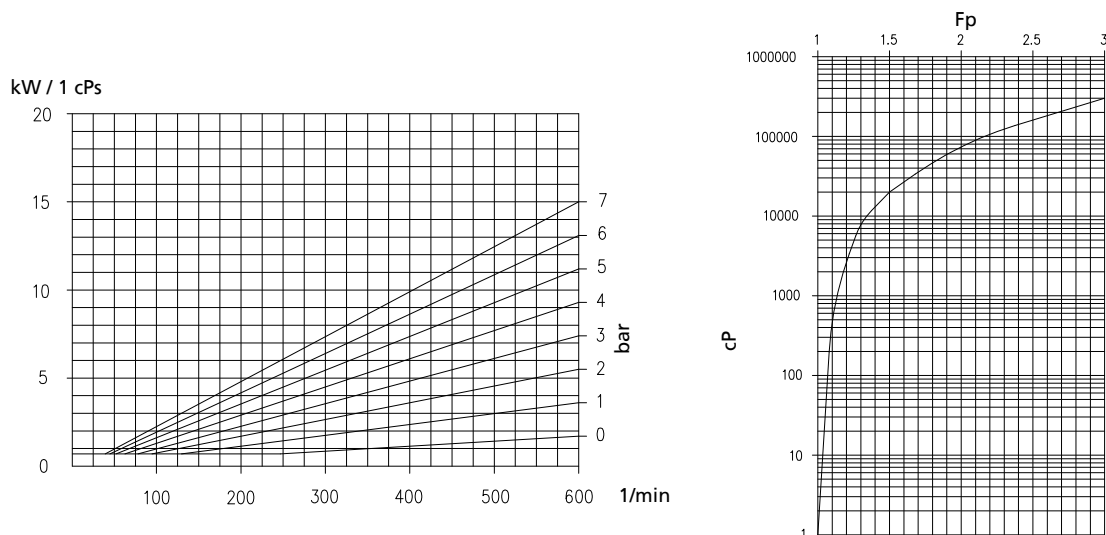
Characteristic curve Vitalobe 440 - bi-lobe rotor - clearance: standard

Flow rate: 1.74 l/rotation ⁴³⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 600 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 440 - bi-lobe rotor - clearance: standard



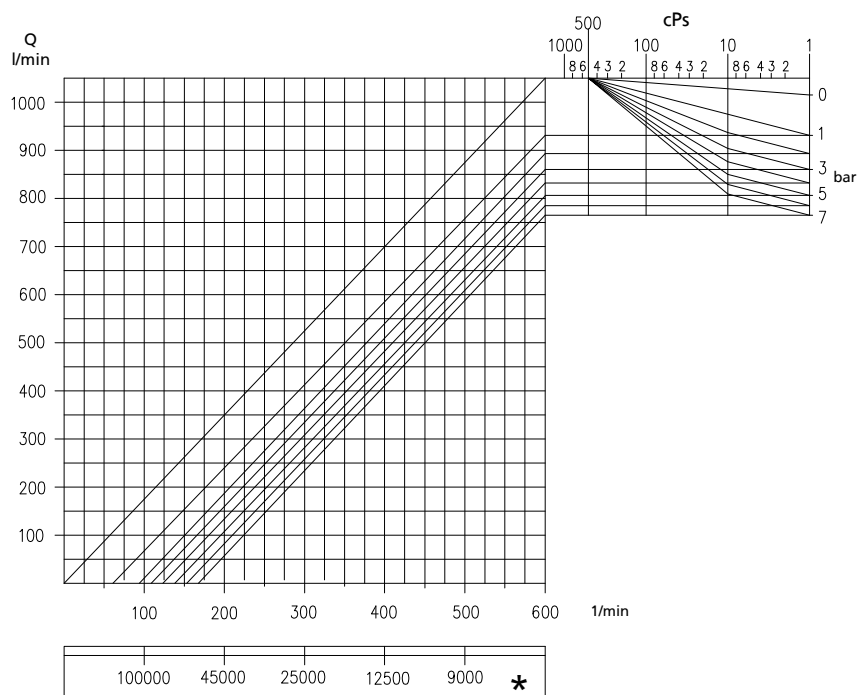
Total power = kW (1 cPs) x Fp

- 43) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
44) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 440 - tri-lobe rotor - clearance: standard

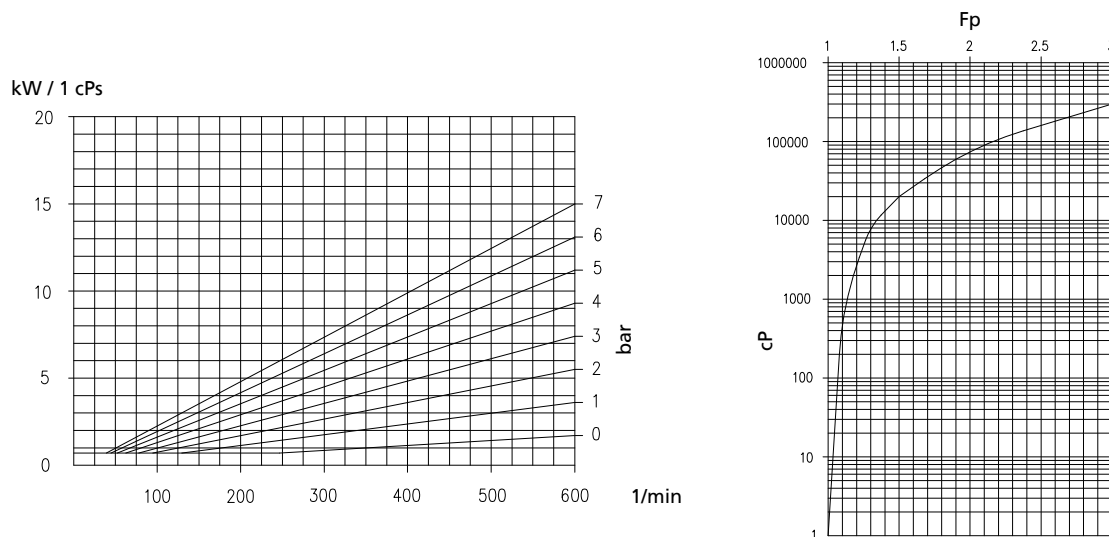
Characteristic curve Vitalobe 440 - tri-lobe rotor - clearance: standard

Flow rate: 1.75 l/rotation ⁴⁴⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 600 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 440 - tri-lobe rotor - clearance: standard



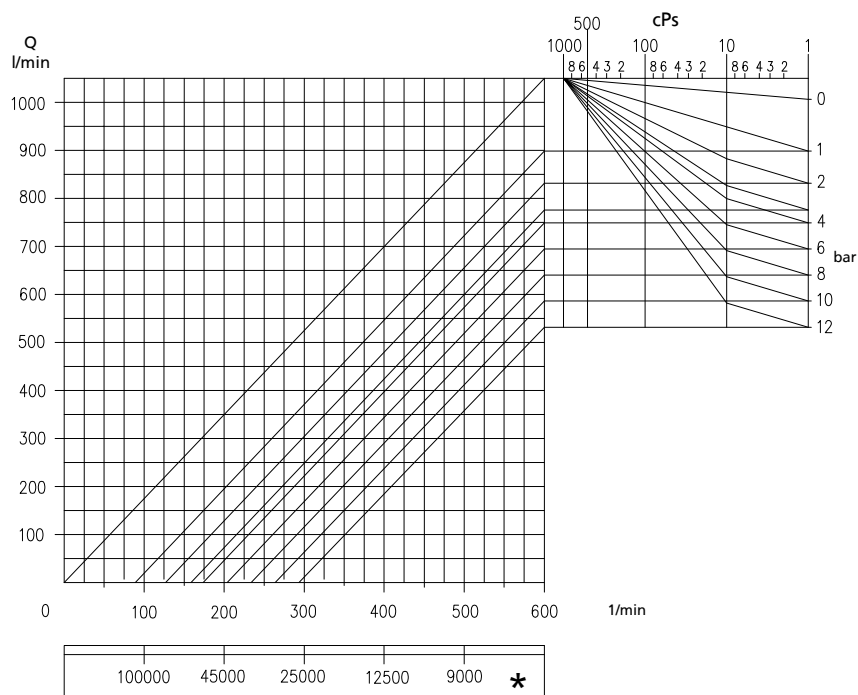
Total power = kW (1 cPs) x Fp

45) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 440 - tri-lobe rotor - clearance: enlarged

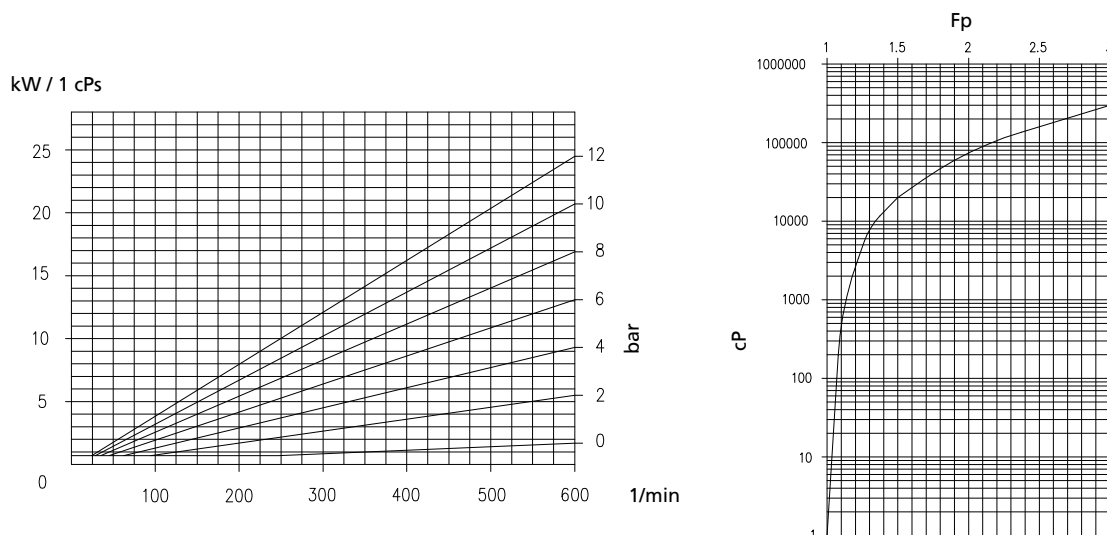
Characteristic curve Vitalobe 440 - tri-lobe rotor - clearance: enlarged

Flow rate: 1.75 l/rotation ⁴⁵⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 600 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 440 - tri-lobe rotor - clearance: enlarged



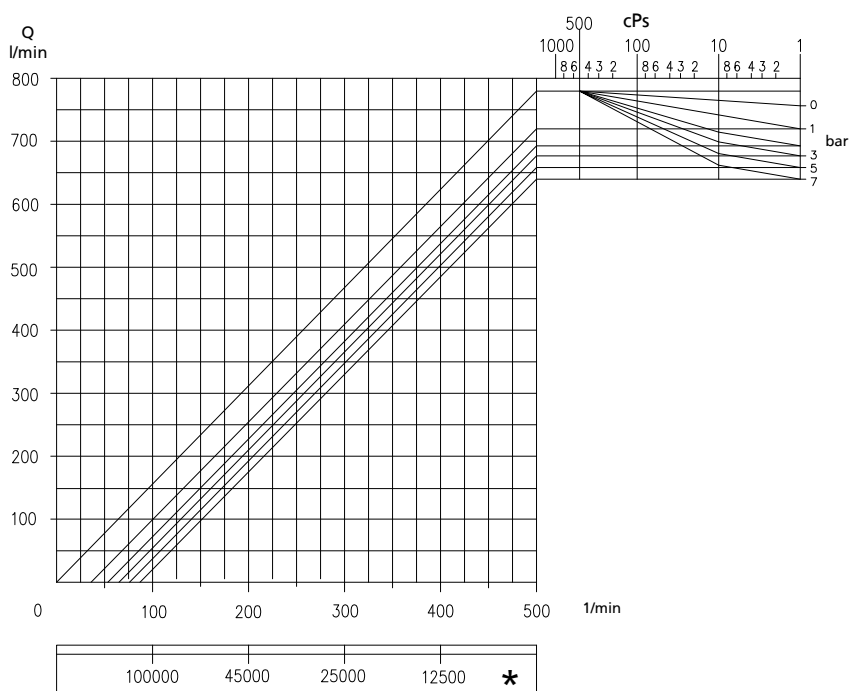
Total power = kW (1 cPs) x Fp

46) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 440 - bi-wing rotor - clearance: standard

Characteristic curve Vitalobe 440 - bi-wing rotor - clearance: standard

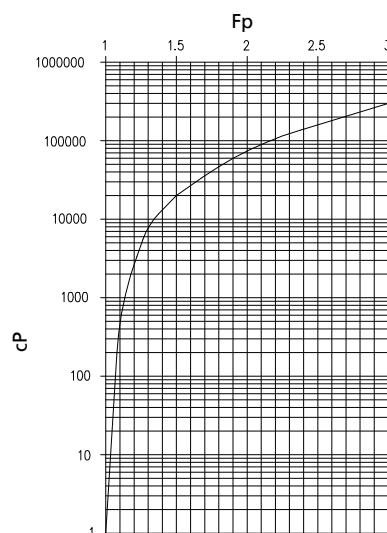
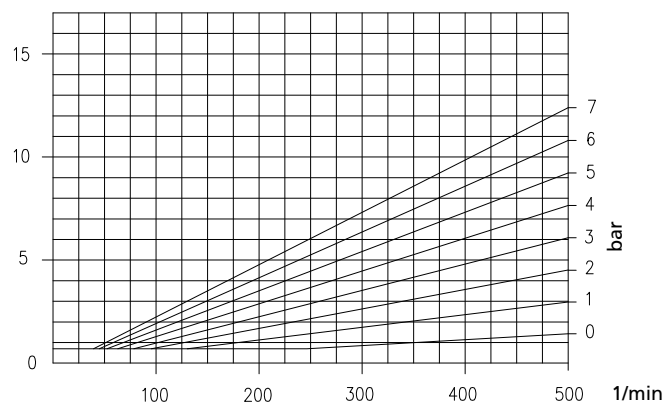
Flow rate: 1.56 l/rotation ⁴⁶⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 440 - bi-wing rotor - clearance: standard

kW / 1 cPs



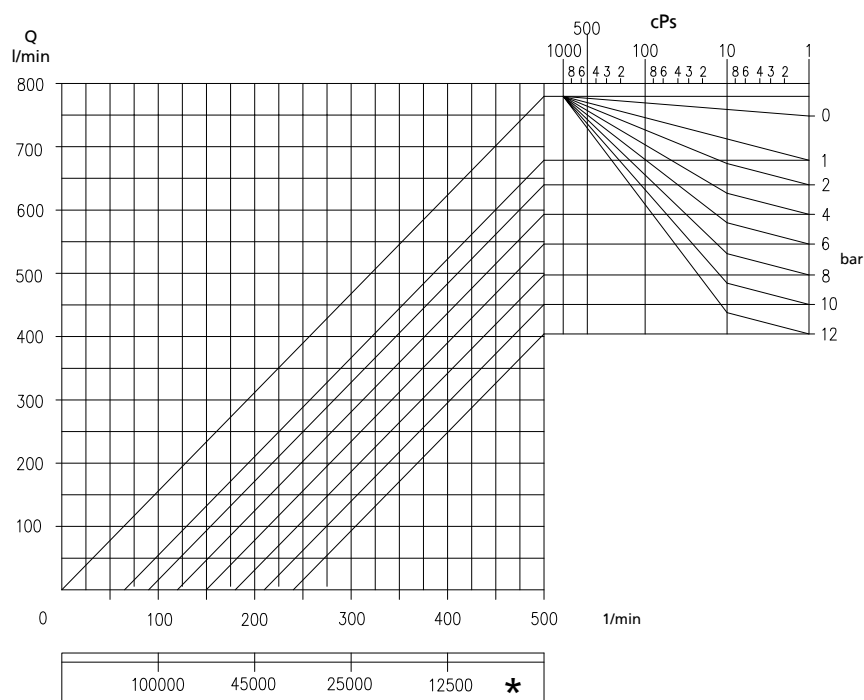
Total power = kW (1 cPs) x Fp

47) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 440 - bi-wing rotor - clearance: enlarged

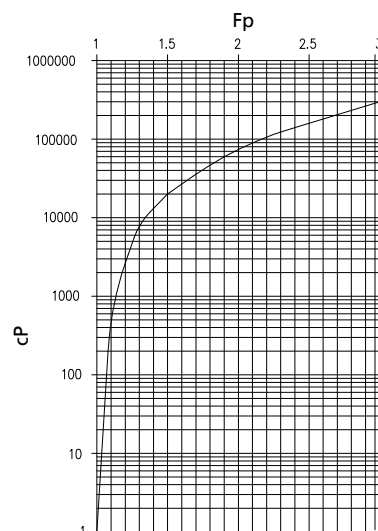
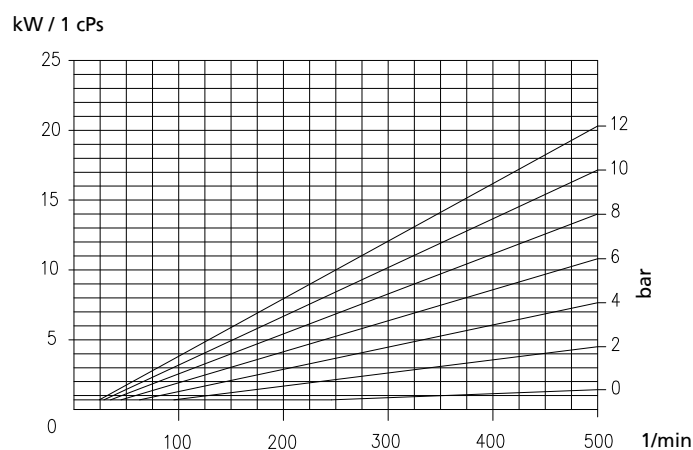
Characteristic curve Vitalobe 440 - bi-wing rotor - clearance: enlarged

Flow rate: 1.56 l/rotation ⁴⁷⁾



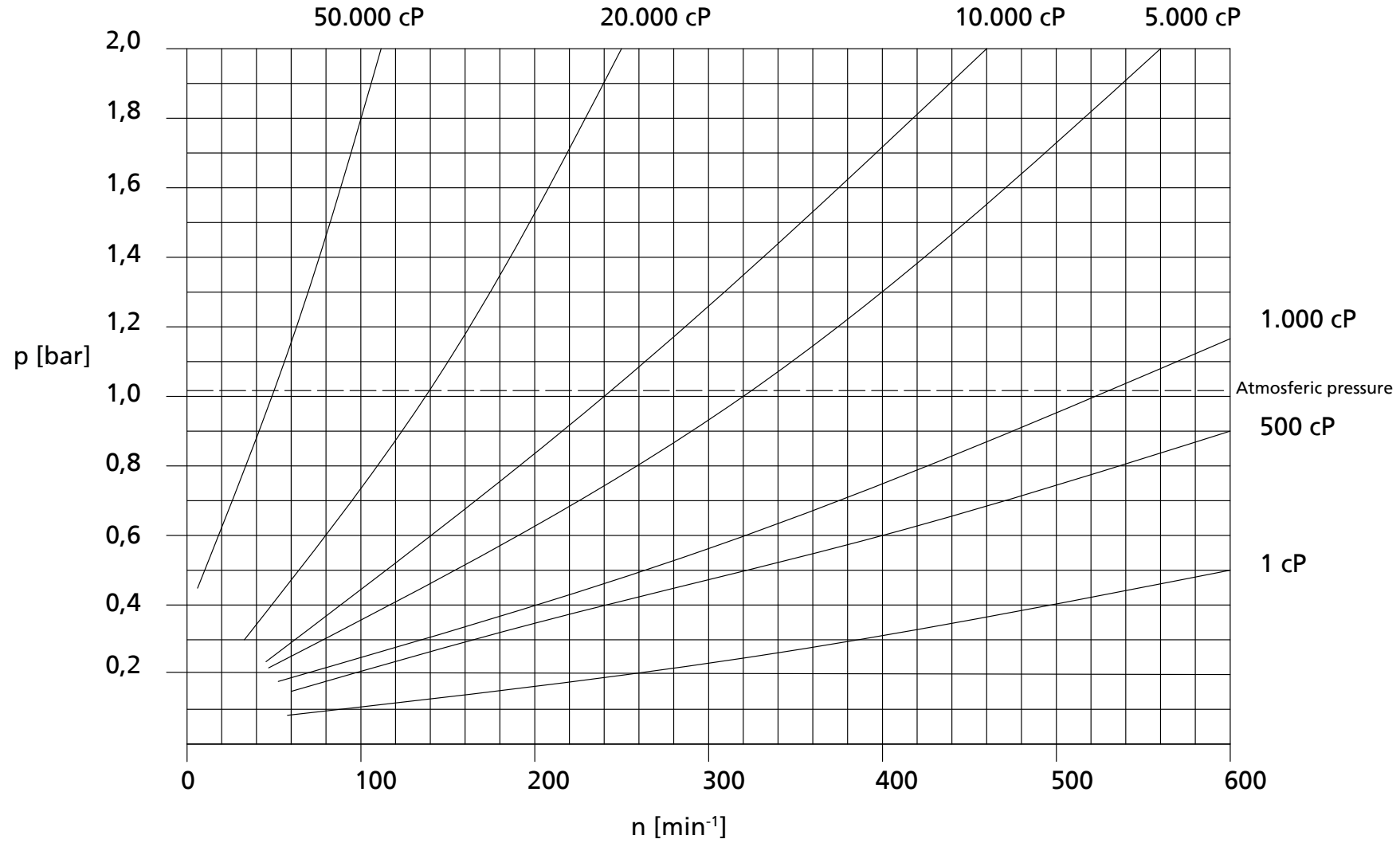
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 440 - bi-wing rotor - clearance: enlarged



Total power = kW (1 cPs) x Fp

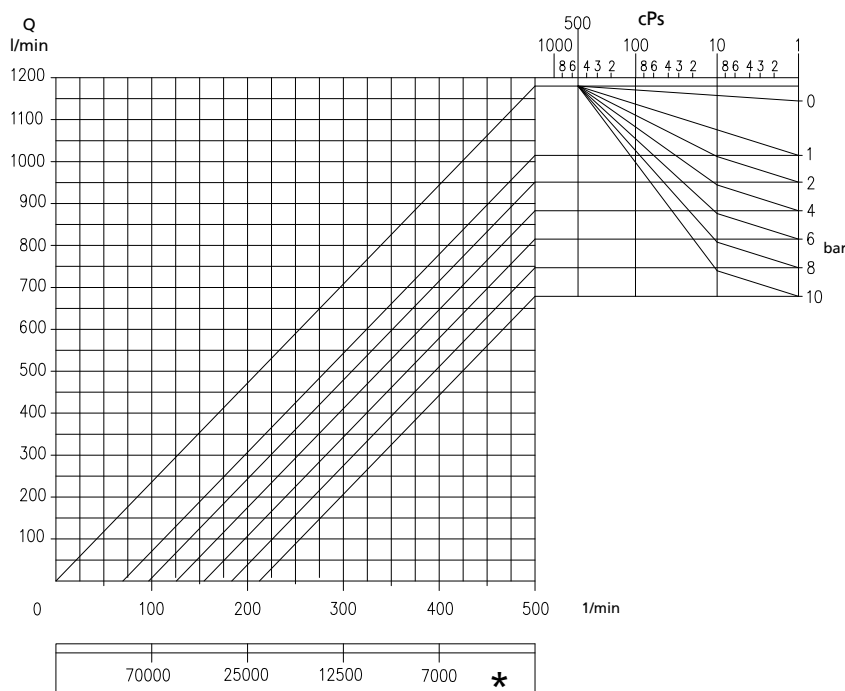
NPSH curve Vitalobe 440



Characteristic curve Vitalobe 470 - bi-lobe rotor - clearance: standard

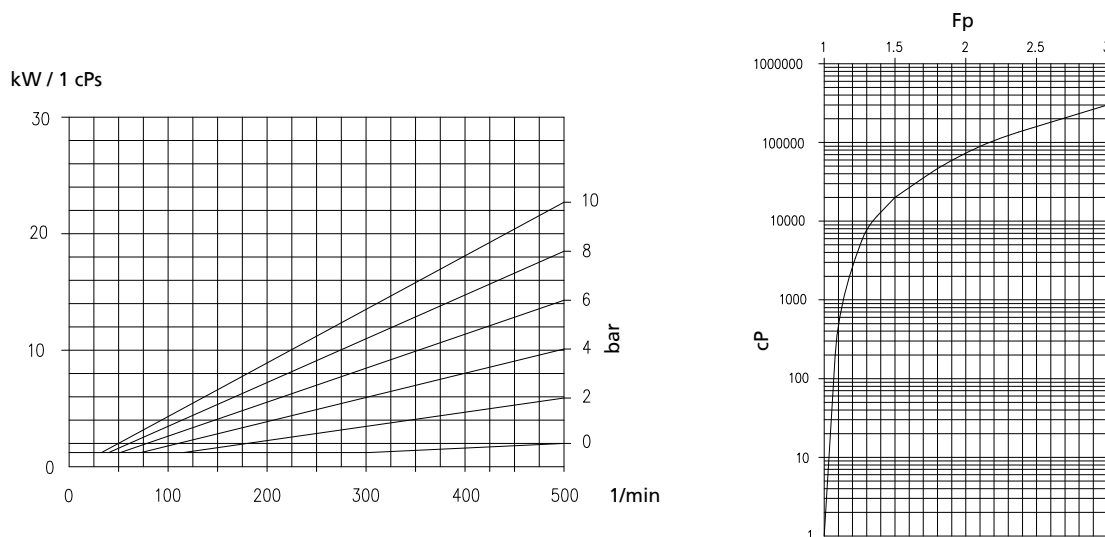
Characteristic curve Vitalobe 470 - bi-lobe rotor - clearance: standard

Flow rate: 2.36 l/rotation ⁴⁸⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 470 - bi-lobe rotor - clearance: standard



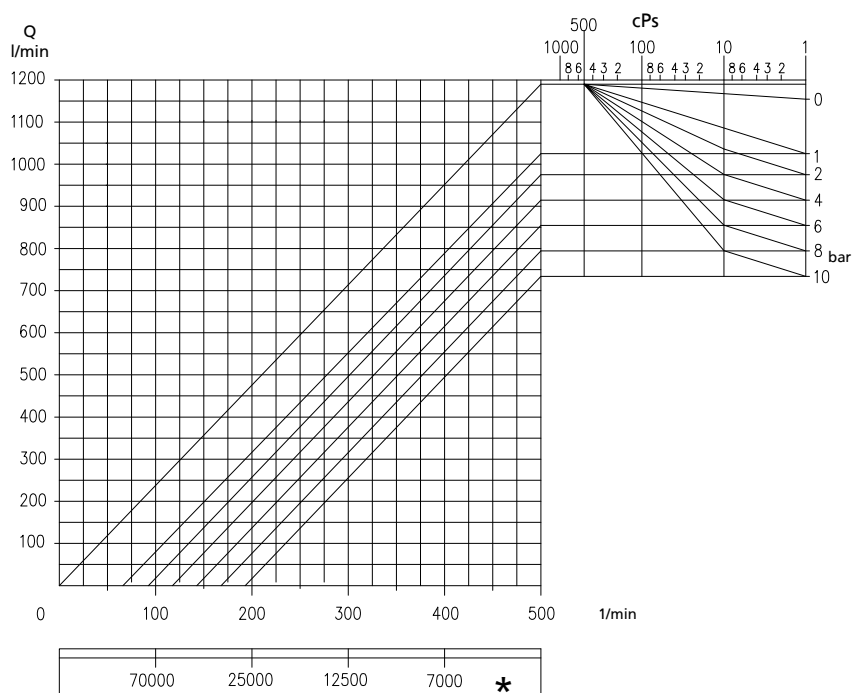
Total power = kW (1 cPs) x F_p

- 48) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
49) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 470 - tri-lobe rotor - clearance: standard

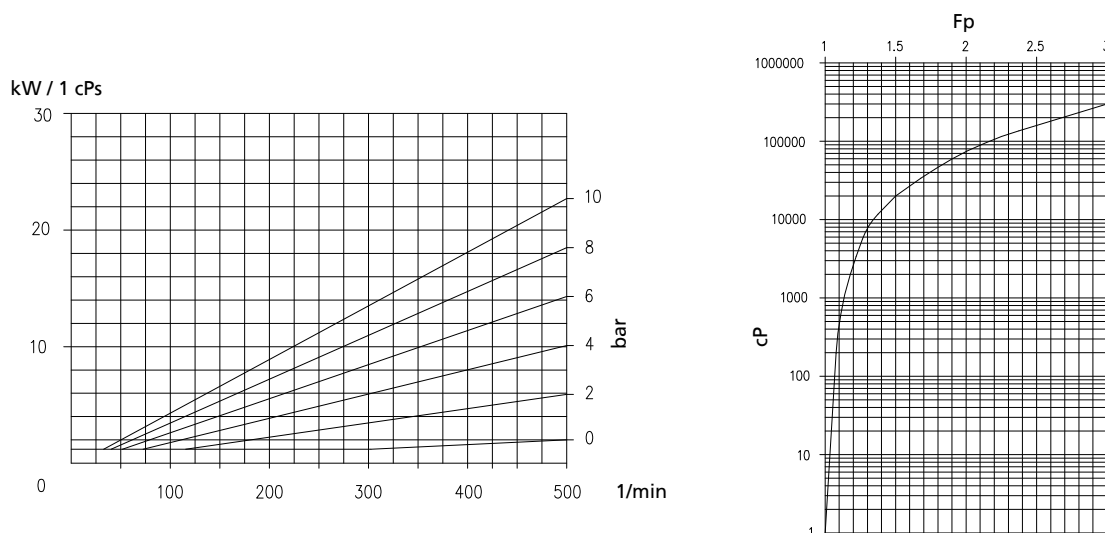
Characteristic curve Vitalobe 470 - tri-lobe rotor - clearance: standard

Flow rate: 2.38 l/rotation ⁴⁹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 470 - tri-lobe rotor - clearance: standard



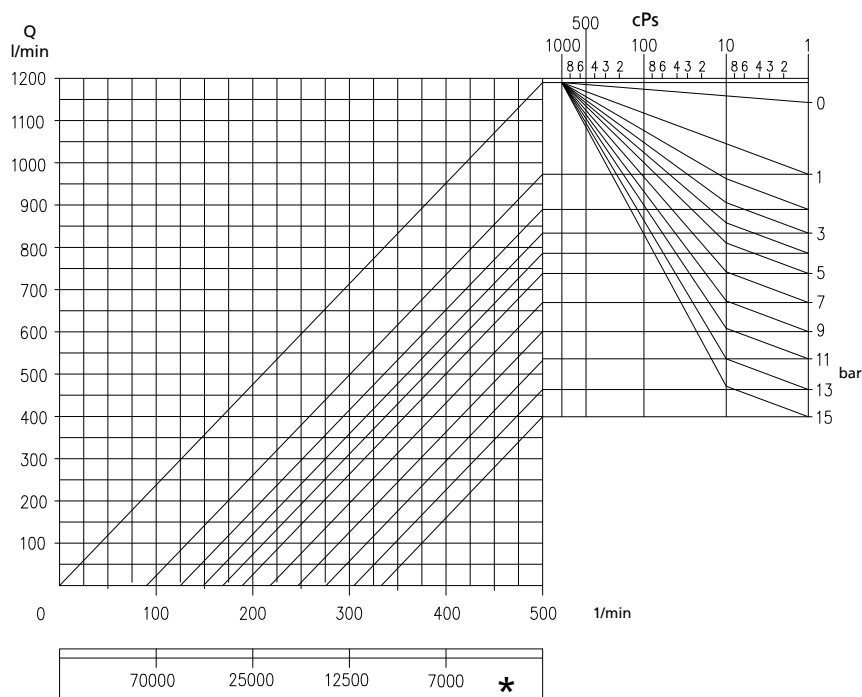
Total power = $kW (1 cPs) \times Fp$

50) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 470 - tri-lobe rotor - clearance: enlarged

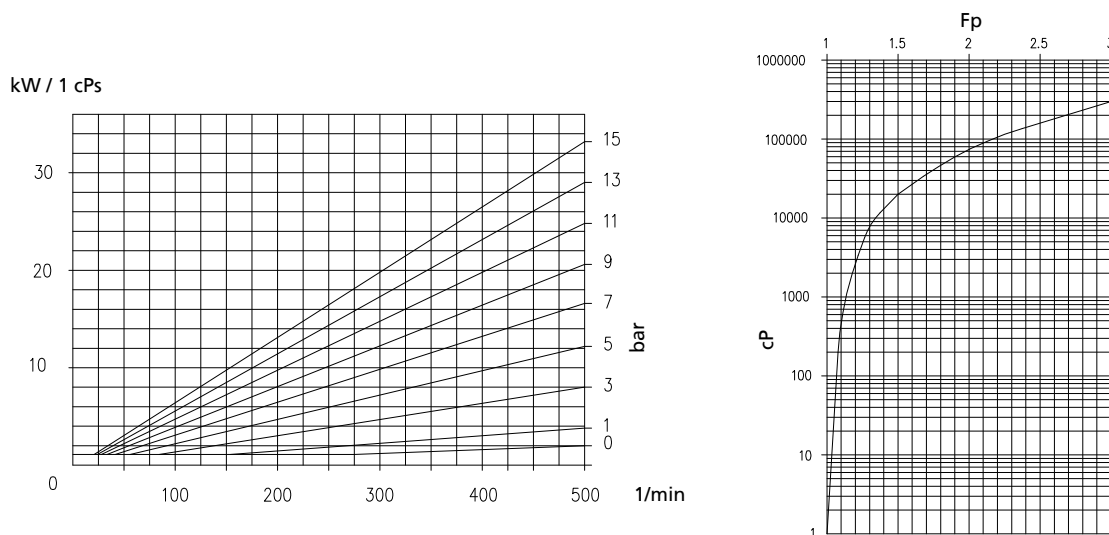
Characteristic curve Vitalobe 470 - tri-lobe rotor - clearance: enlarged

Flow rate: 2.38 l/rotation ⁵⁰⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 470 - tri-lobe rotor - clearance: enlarged



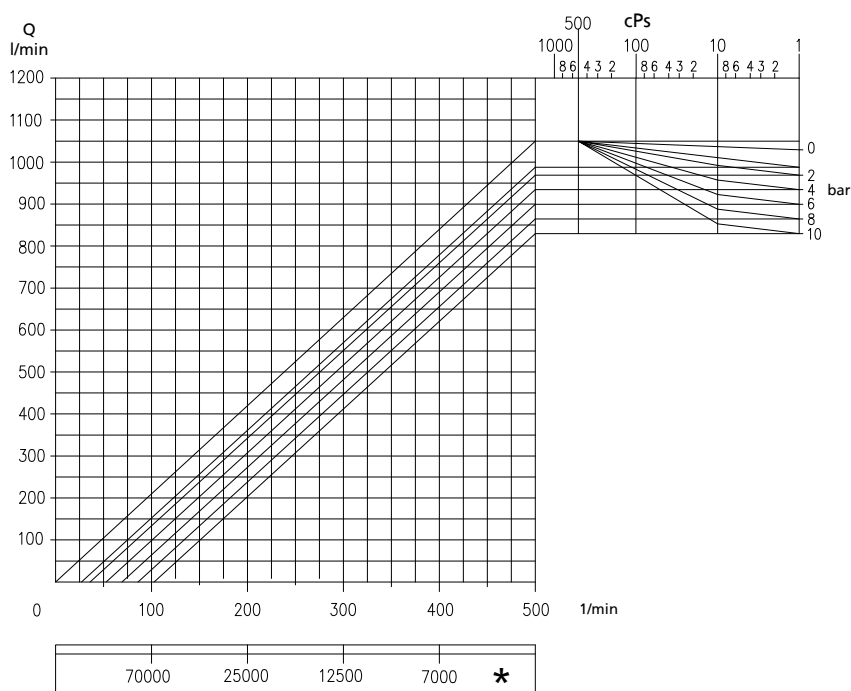
Total power = kW (1 cPs) x Fp

51) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 470 - bi-wing rotor - clearance: standard

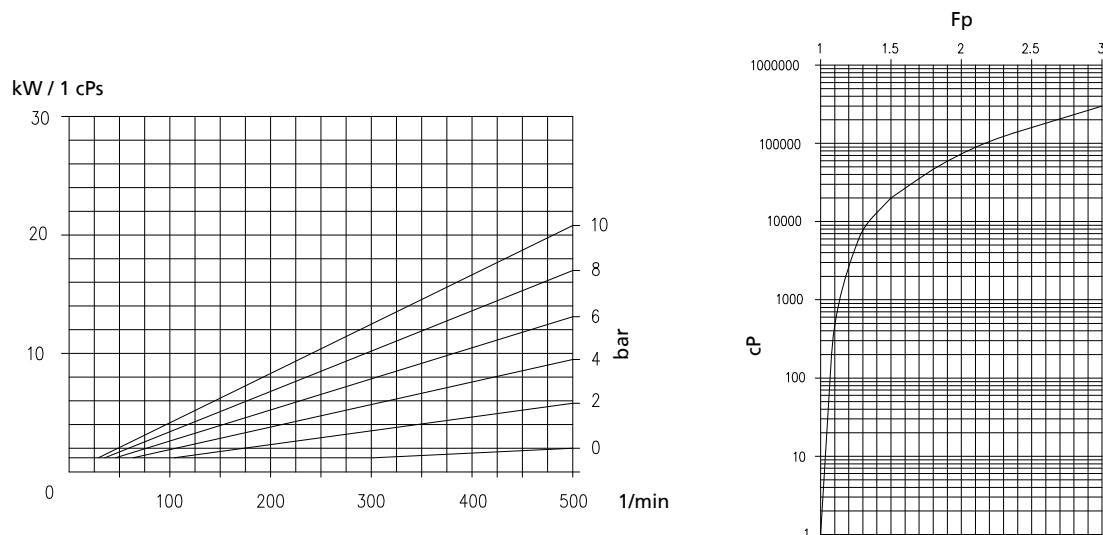
Characteristic curve Vitalobe 470 - bi-wing rotor - clearance: standard

Flow rate: 2.1 l/rotation ⁵¹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 470 - bi-wing rotor - clearance: standard



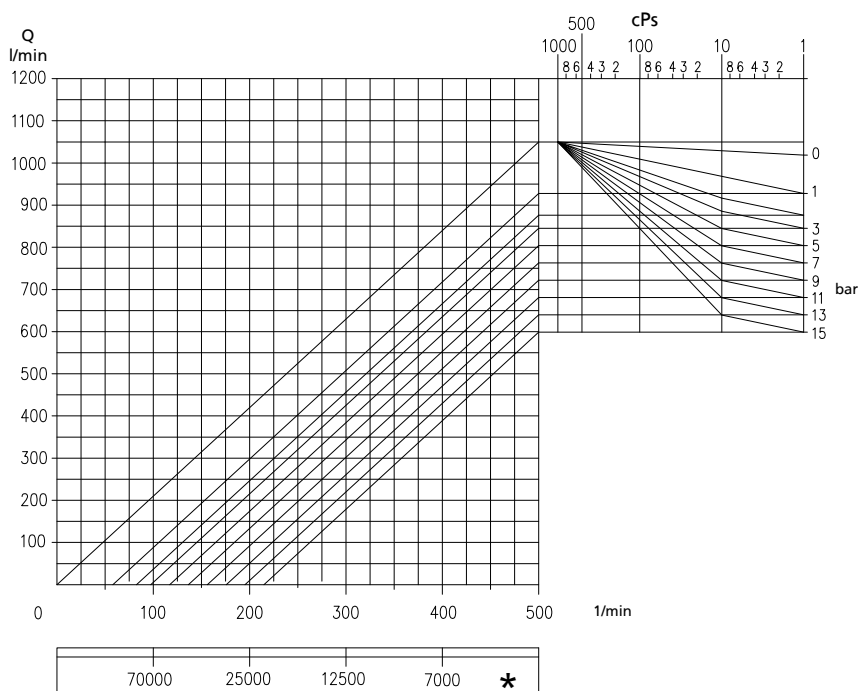
Total power = kW (1 cPs) x Fp

52) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 470 - bi-wing rotor - clearance: enlarged

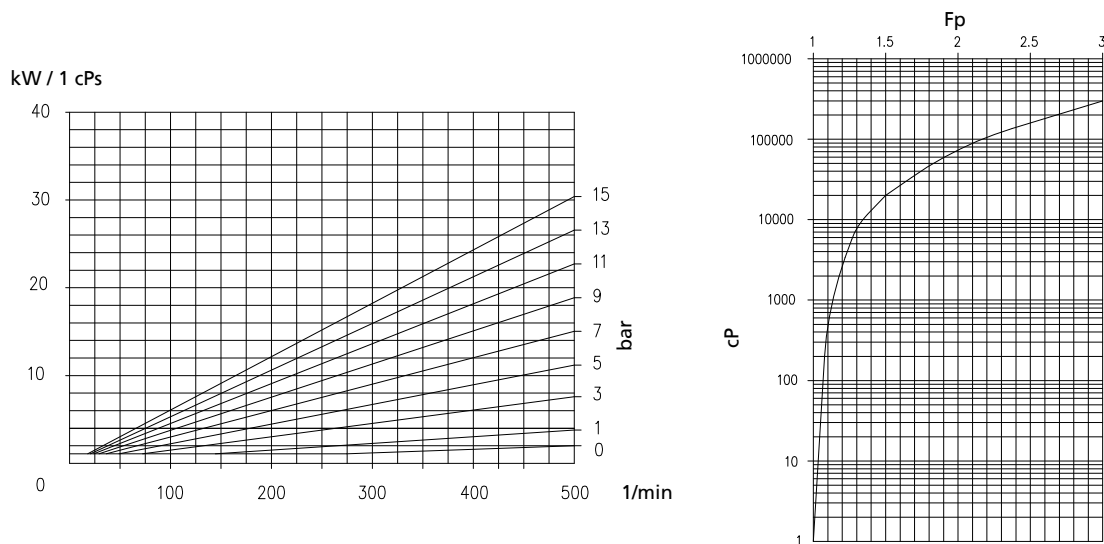
Characteristic curve Vitalobe 470 - bi-wing rotor - clearance: enlarged

Flow rate: 2.1 l/rotation ⁵²⁾



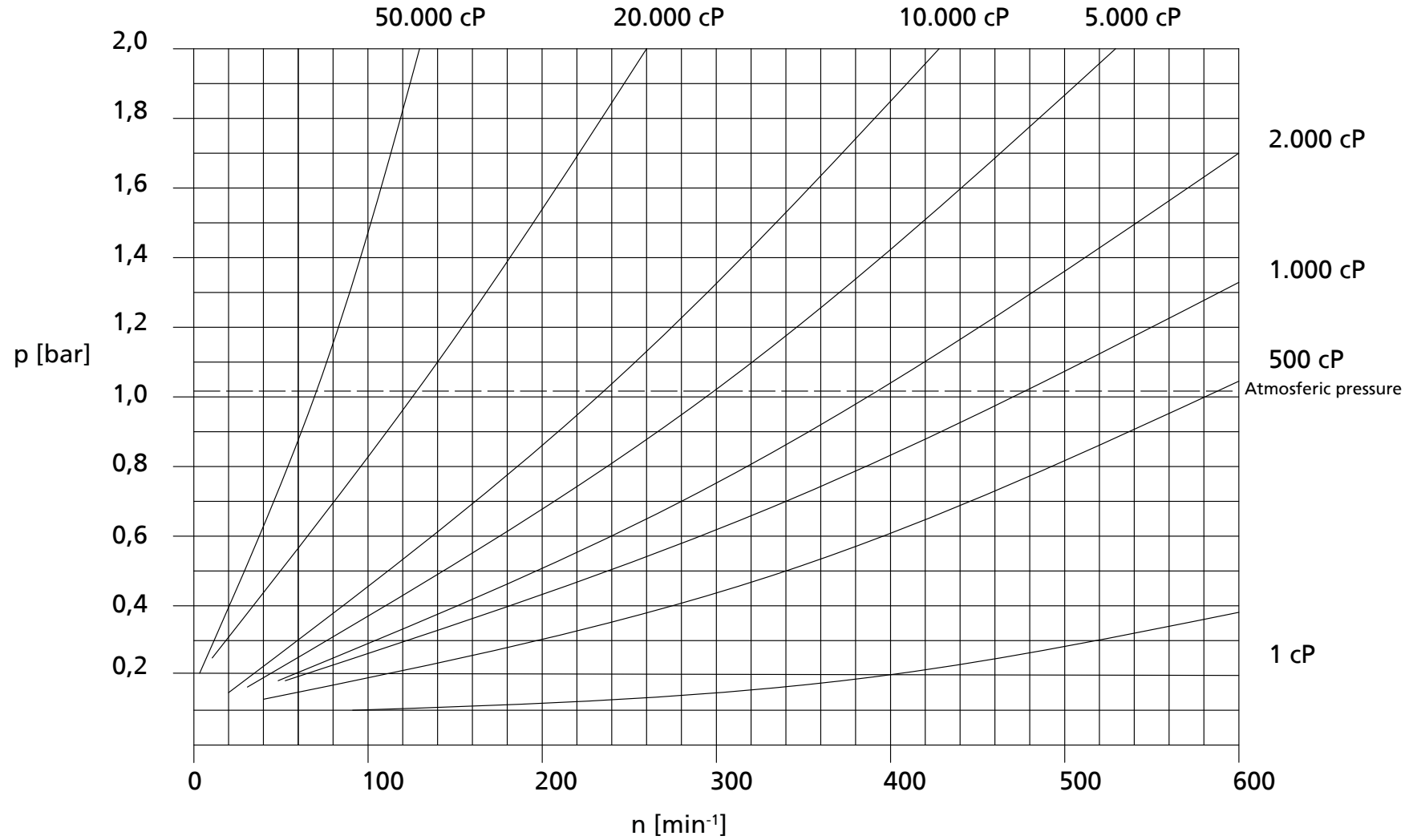
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 470 - bi-wing rotor - clearance: enlarged



Total power = kW (1 cPs) x Fp

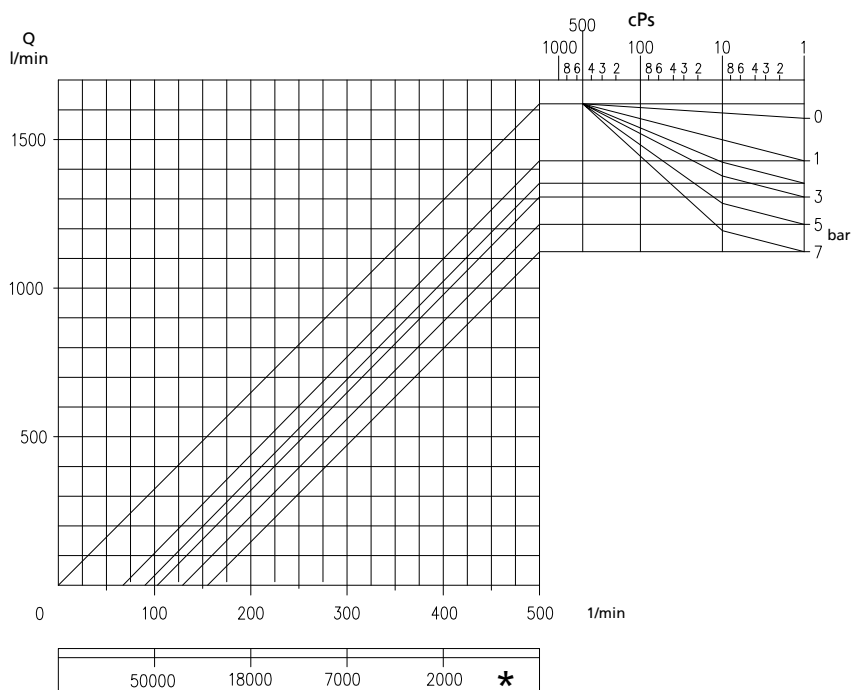
NPSH curve Vitalobe 470



Characteristic curve Vitalobe 490 - bi-lobe rotor - clearance: standard

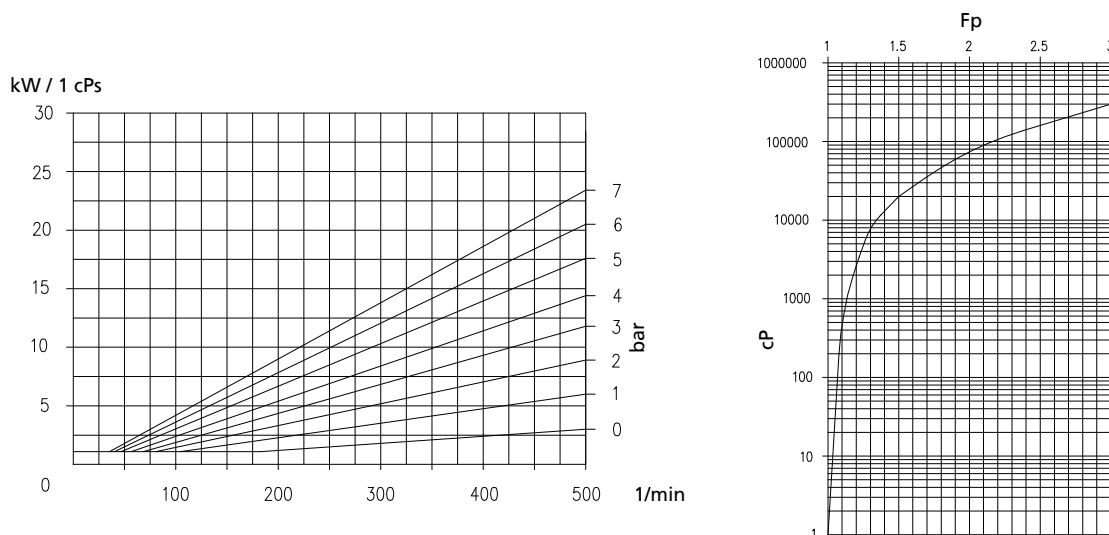
Characteristic curve Vitalobe 490 - bi-lobe rotor - clearance: standard

Flow rate: 3.24 l/rotation ⁵³⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 490 - bi-lobe rotor - clearance: standard



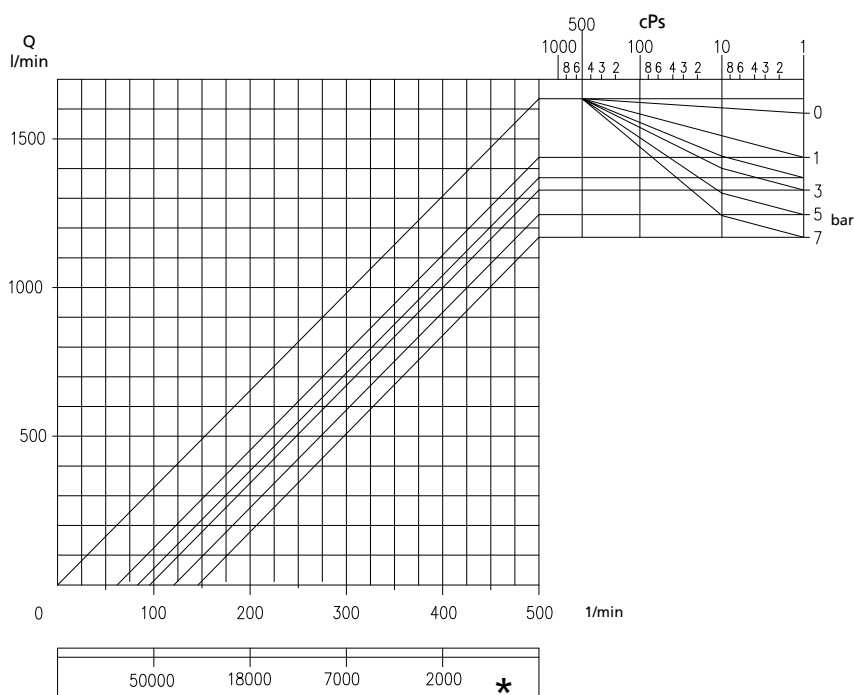
Total power = kW (1 cPs) x Fp

- 53) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
54) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 490 - tri-lobe rotor - clearance: standard

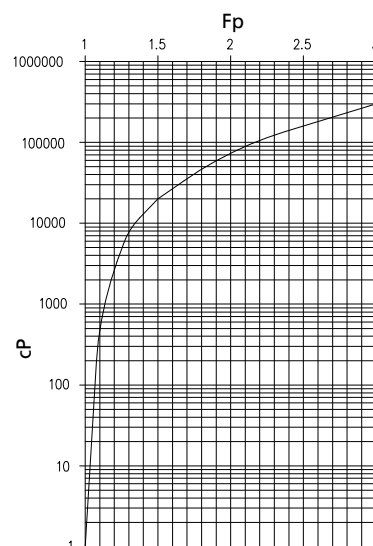
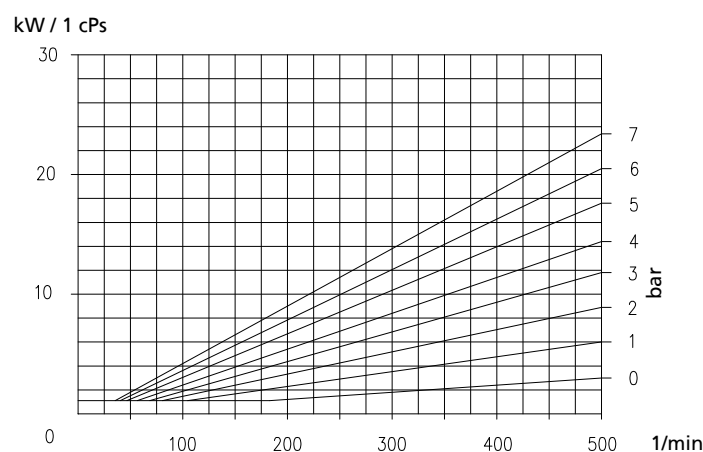
Characteristic curve Vitalobe 490 - tri-lobe rotor - clearance: standard

Flow rate: 3.27 l/rotation ⁵⁴⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 490 - tri-lobe rotor - clearance: standard



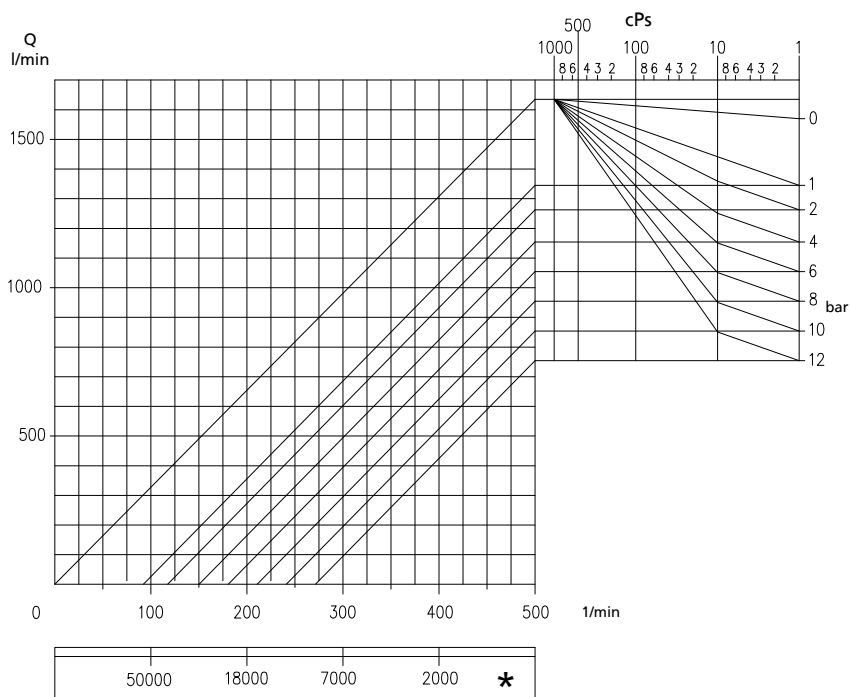
Total power = kW (1 cPs) x Fp

55) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 490 - tri-lobe rotor - clearance: enlarged

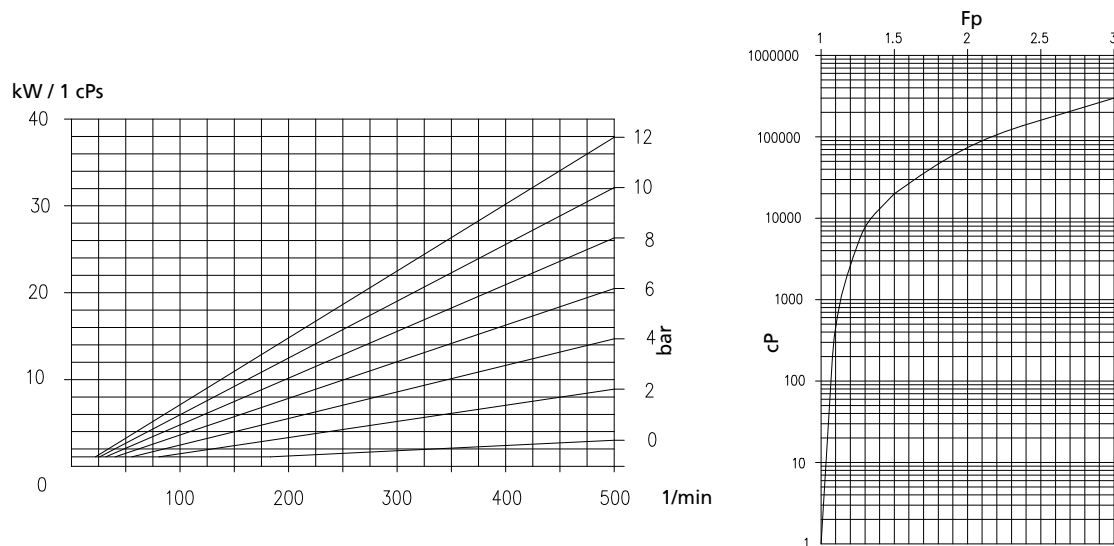
Characteristic curve Vitalobe 490 - tri-lobe rotor - clearance: enlarged

Flow rate: 3.27 l/rotation ⁵⁵⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 490 - tri-lobe rotor - clearance: enlarged



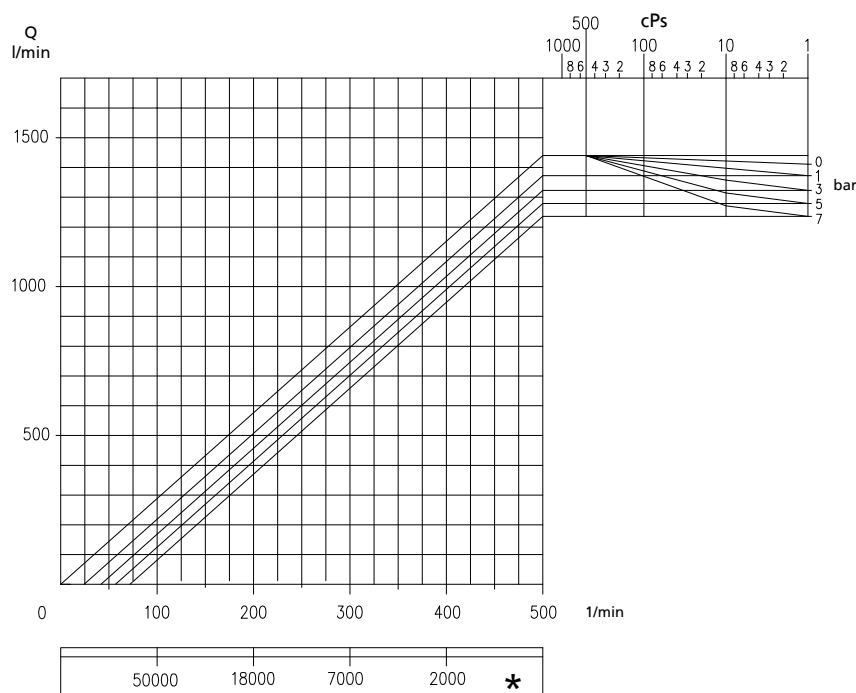
Total power = kW (1 cPs) x Fp

56) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 490 - bi-wing rotor - clearance: standard

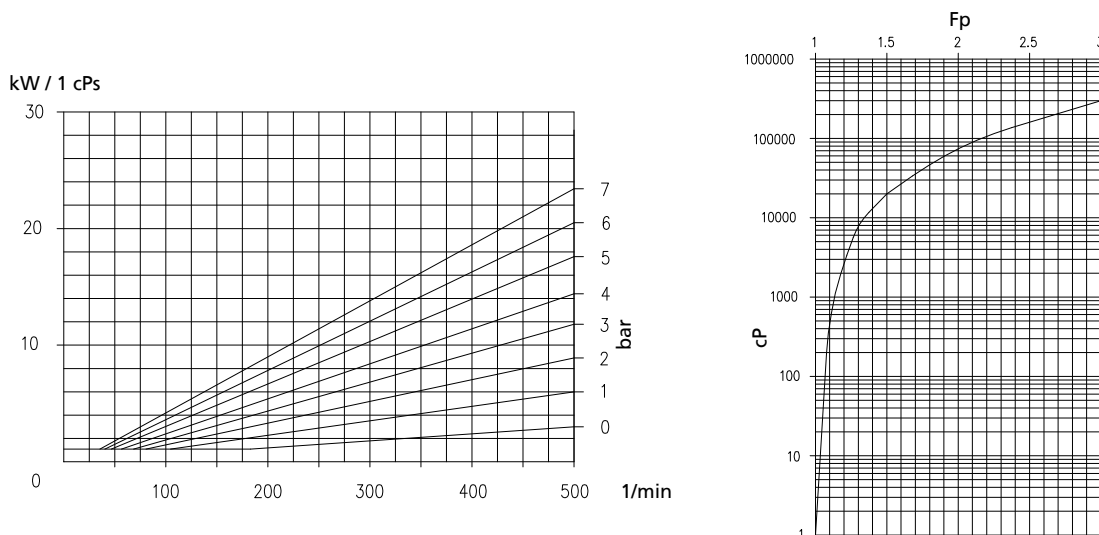
Characteristic curve Vitalobe 490 - bi-wing rotor - clearance: standard

Flow rate: 2.88 l/rotation ⁵⁶⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 490 - bi-wing rotor - clearance: standard



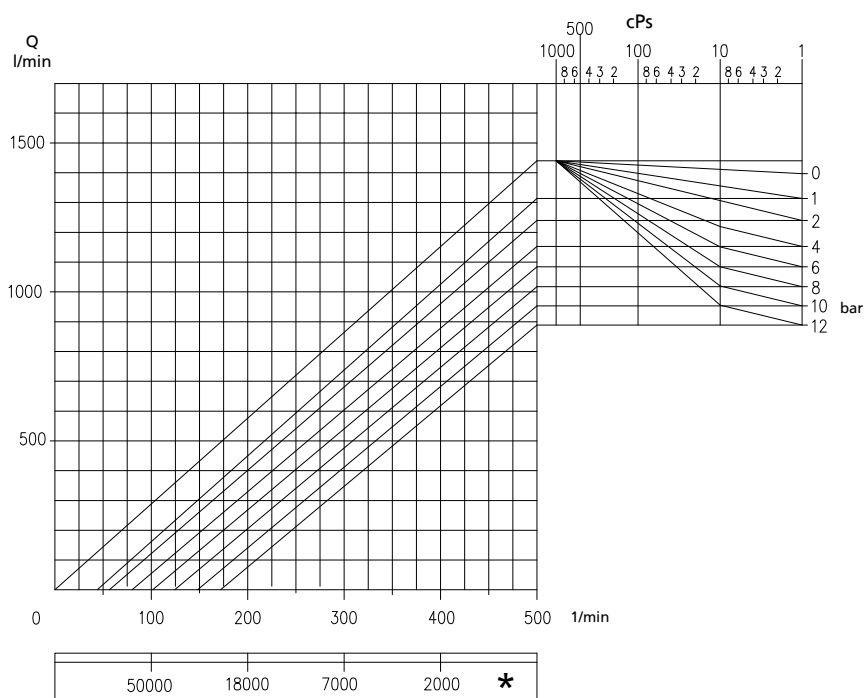
Total power = kW (1 cPs) x F_p

57) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 490 - bi-wing rotor - clearance: enlarged

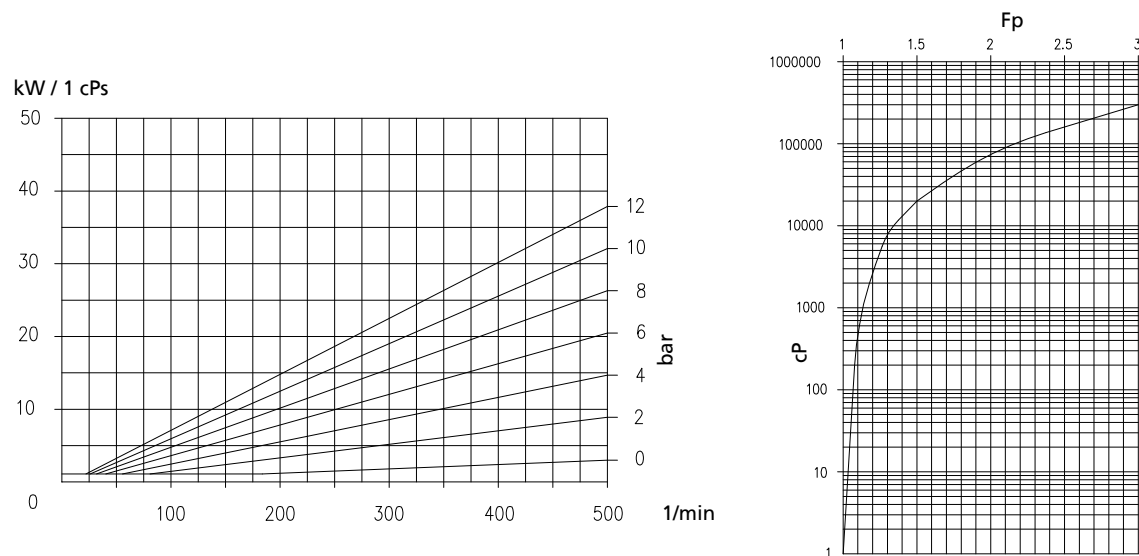
Characteristic curve Vitalobe 490 - bi-wing rotor - clearance: enlarged

Flow rate: 2.88 l/rotation ⁵⁷⁾



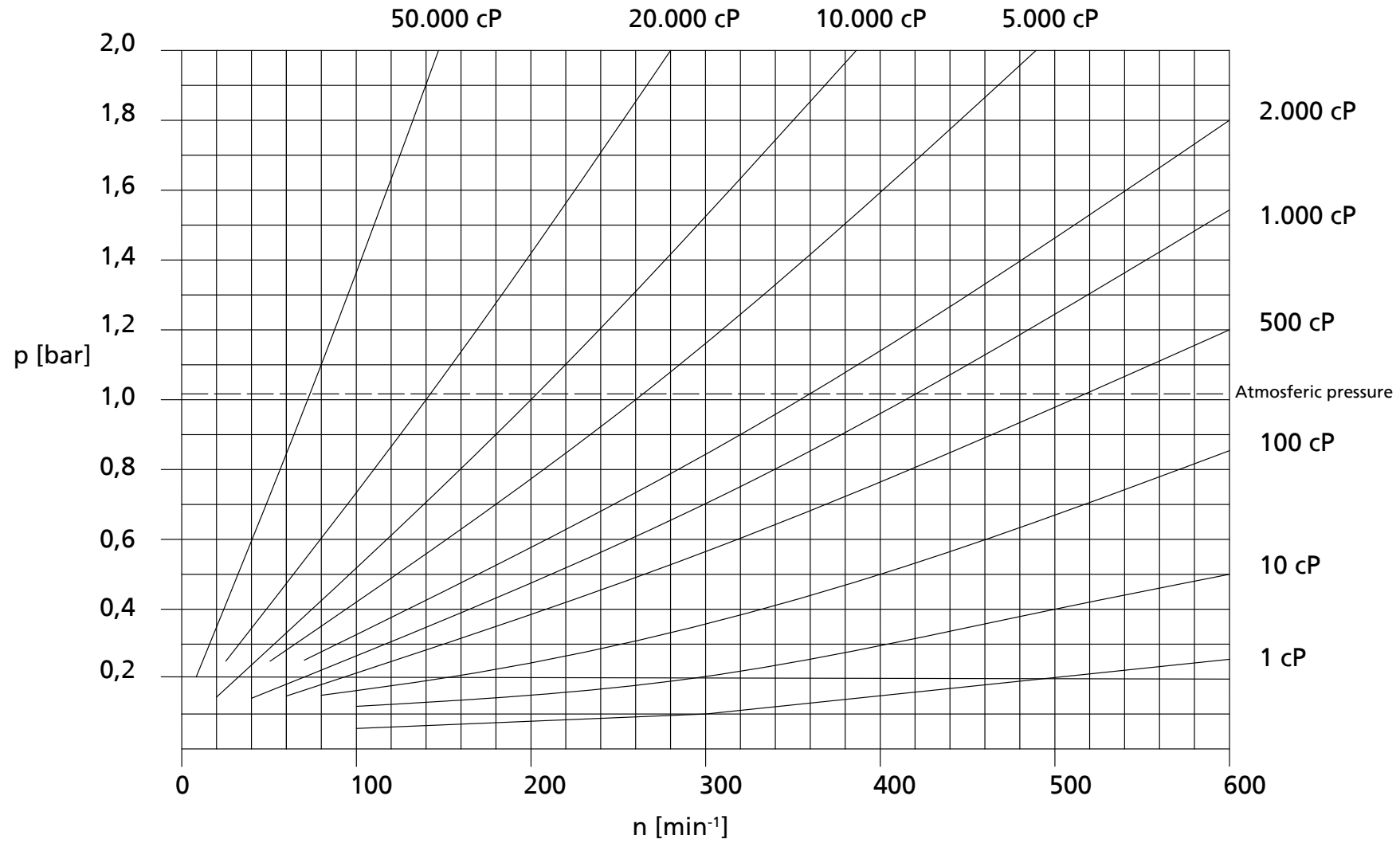
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 98 mm
Standard nominal nozzle diameter DN 100
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 490 - bi-wing rotor - clearance: enlarged



Total power = kW (1 cPs) x F_p

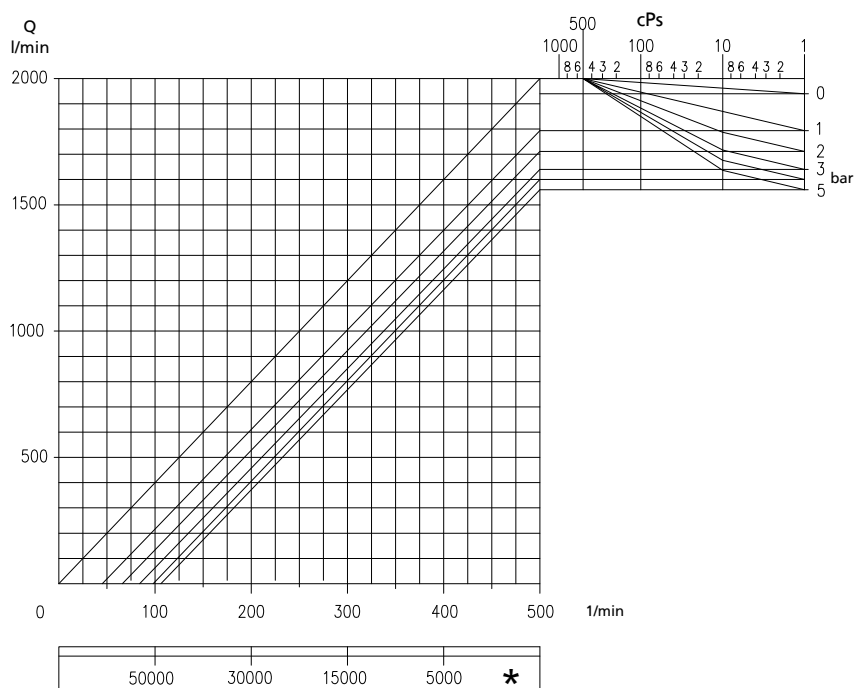
NPSH curve Vitalobe 490



Characteristic curve Vitalobe 550 - bi-lobe rotor - clearance: standard

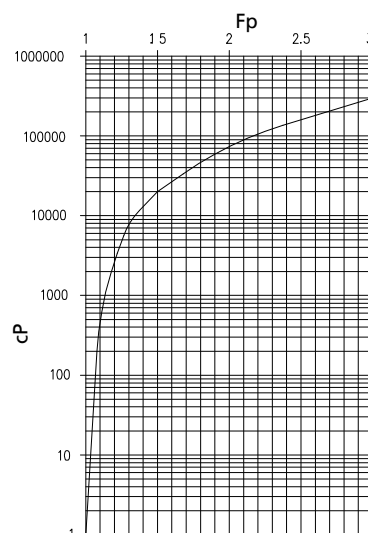
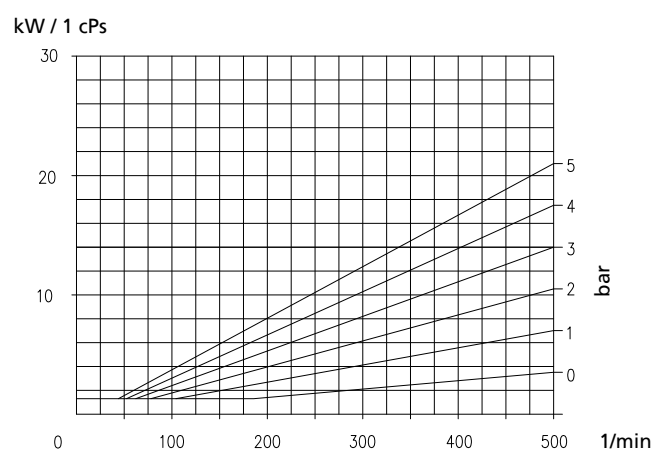
Characteristic curve Vitalobe 550 - bi-lobe rotor - clearance: standard

Flow rate: 4.0 l/rotation ⁵⁸⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 125 mm
Standard nominal nozzle diameter DN 125
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 550 - bi-lobe rotor - clearance: standard



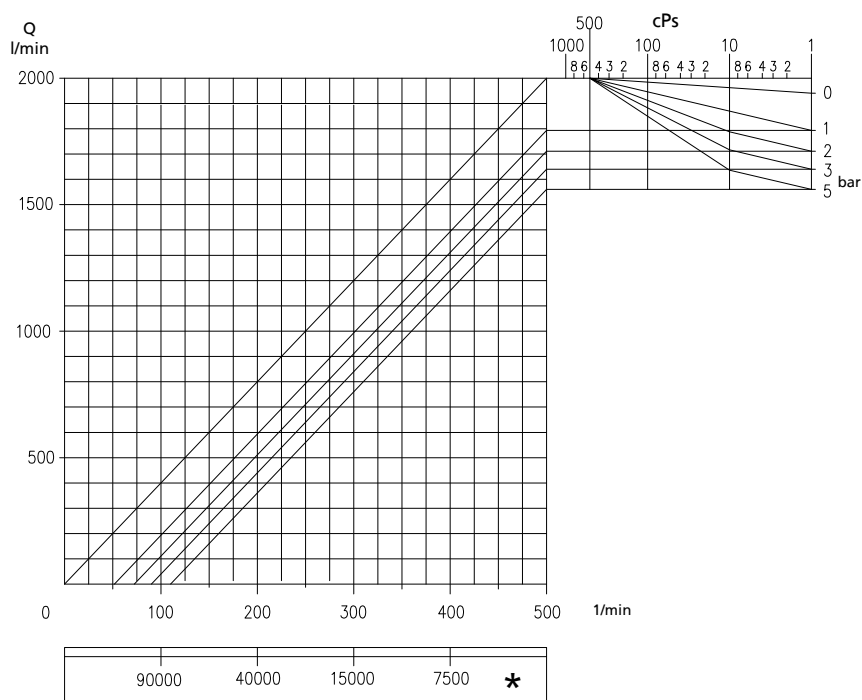
Total power = kW (1 cPs) x Fp

- 58) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
59) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 550 - tri-lobe rotor - clearance: standard

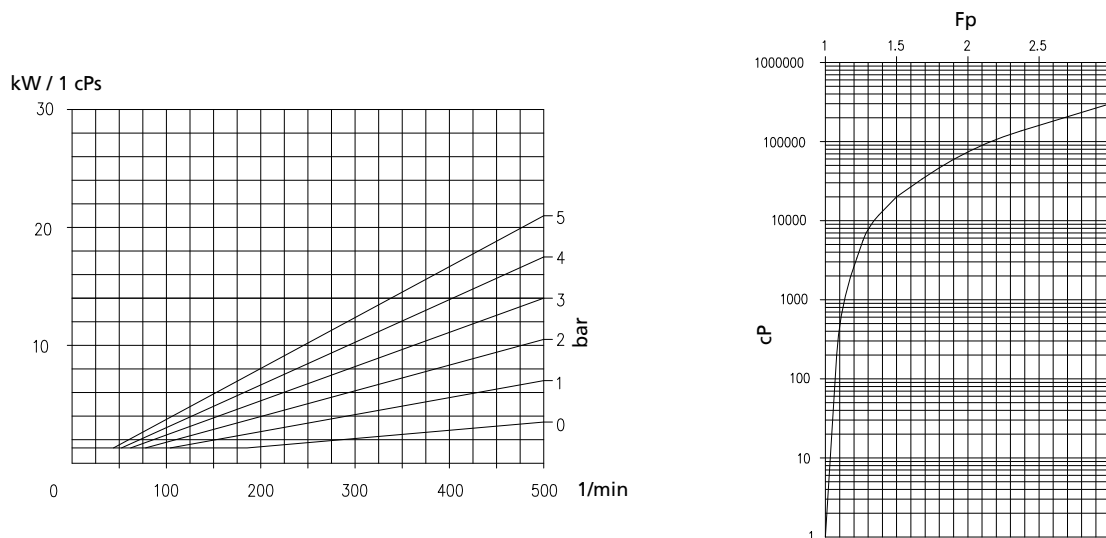
Characteristic curve Vitalobe 550 - tri-lobe rotor - clearance: standard

Flow rate: 4.0 l/rotation ⁵⁹⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 125 mm
Standard nominal nozzle diameter DN 125
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 550 - tri-lobe rotor - clearance: standard



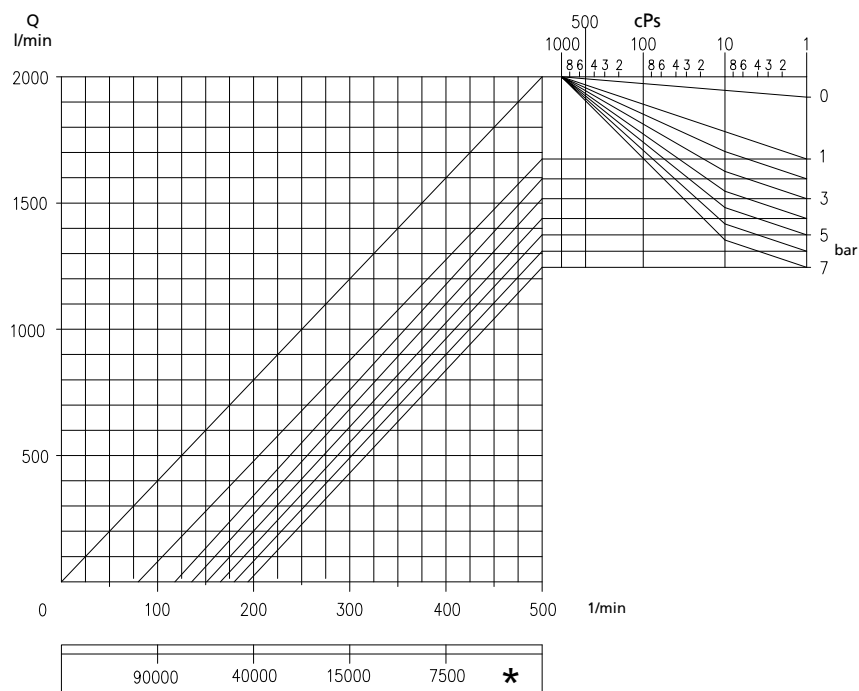
Total power = $kW (1 \text{ cPs}) \times Fp$

60) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 550 - tri-lobe rotor - clearance: enlarged

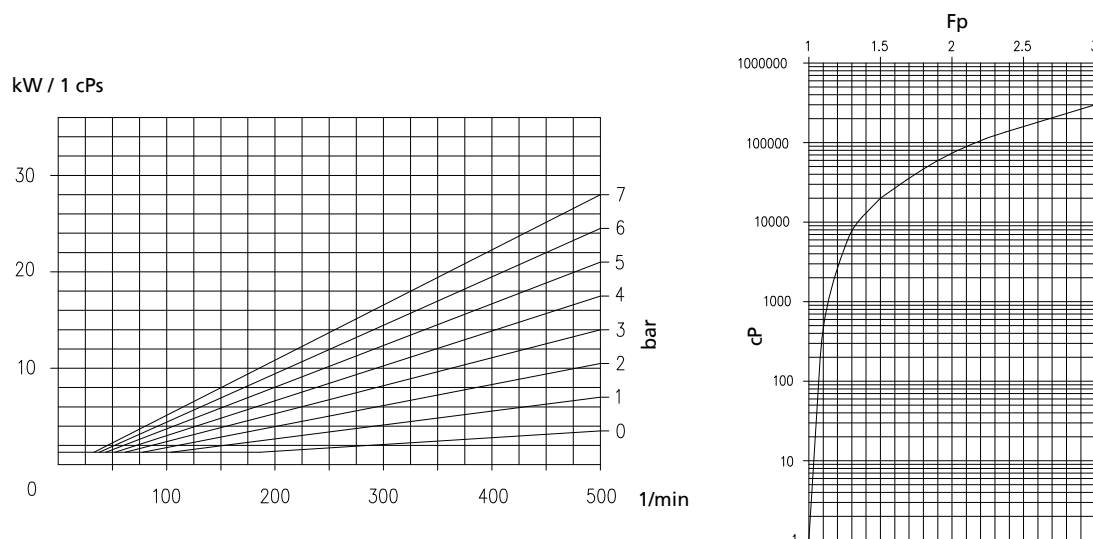
Characteristic curve Vitalobe 550 - tri-lobe rotor - clearance: enlarged

Flow rate: 4.0 l/rotation ⁶⁰⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 125 mm
Standard nominal nozzle diameter DN 125
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 550 - tri-lobe rotor - clearance: enlarged



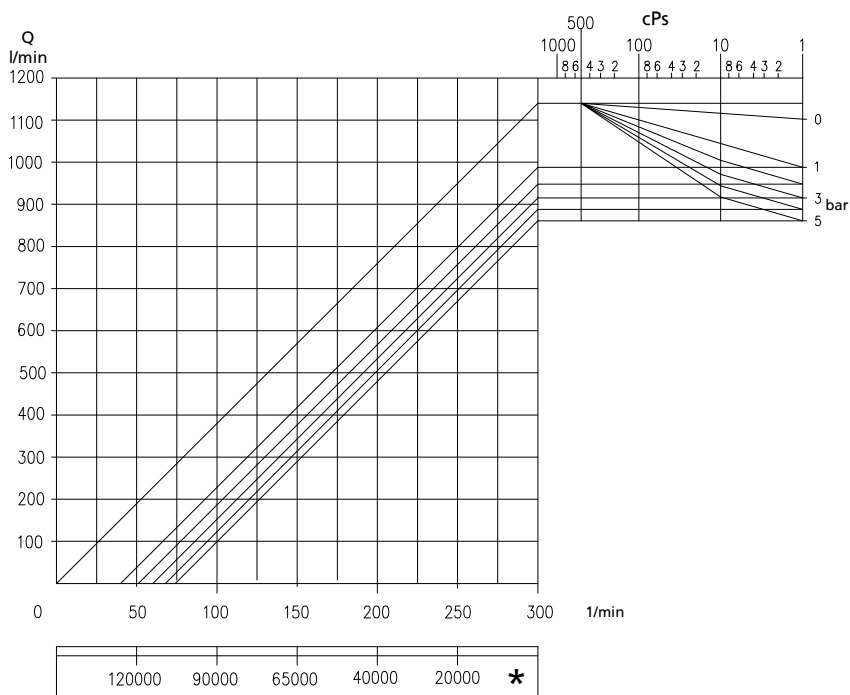
Total power = kW (1 cPs) x Fp

61) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 550 - bi-wing rotor - clearance: standard

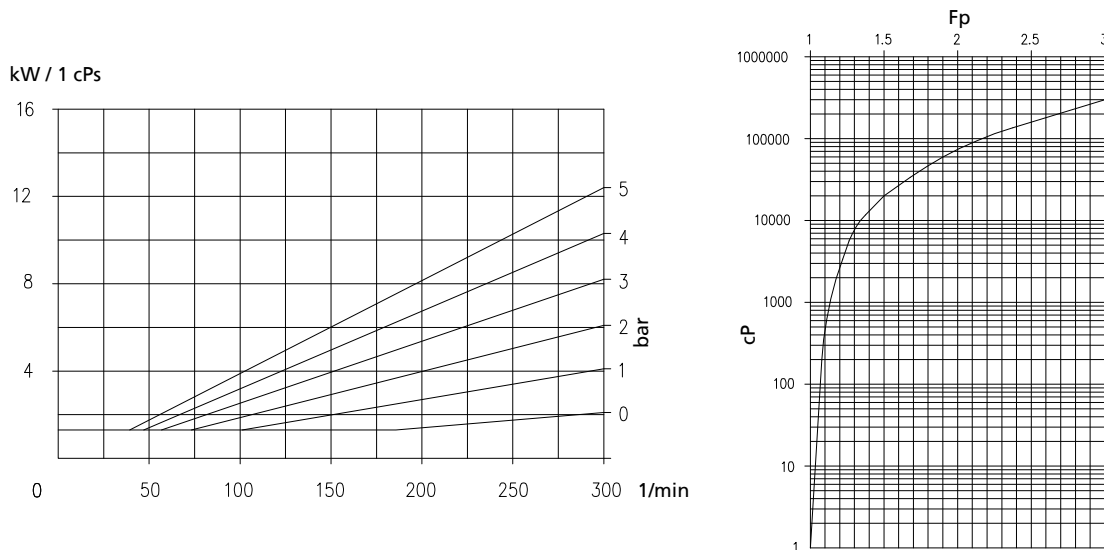
Characteristic curve Vitalobe 550 - bi-wing rotor - clearance: standard

Flow rate: 3.8 l/rotation ⁶¹⁾



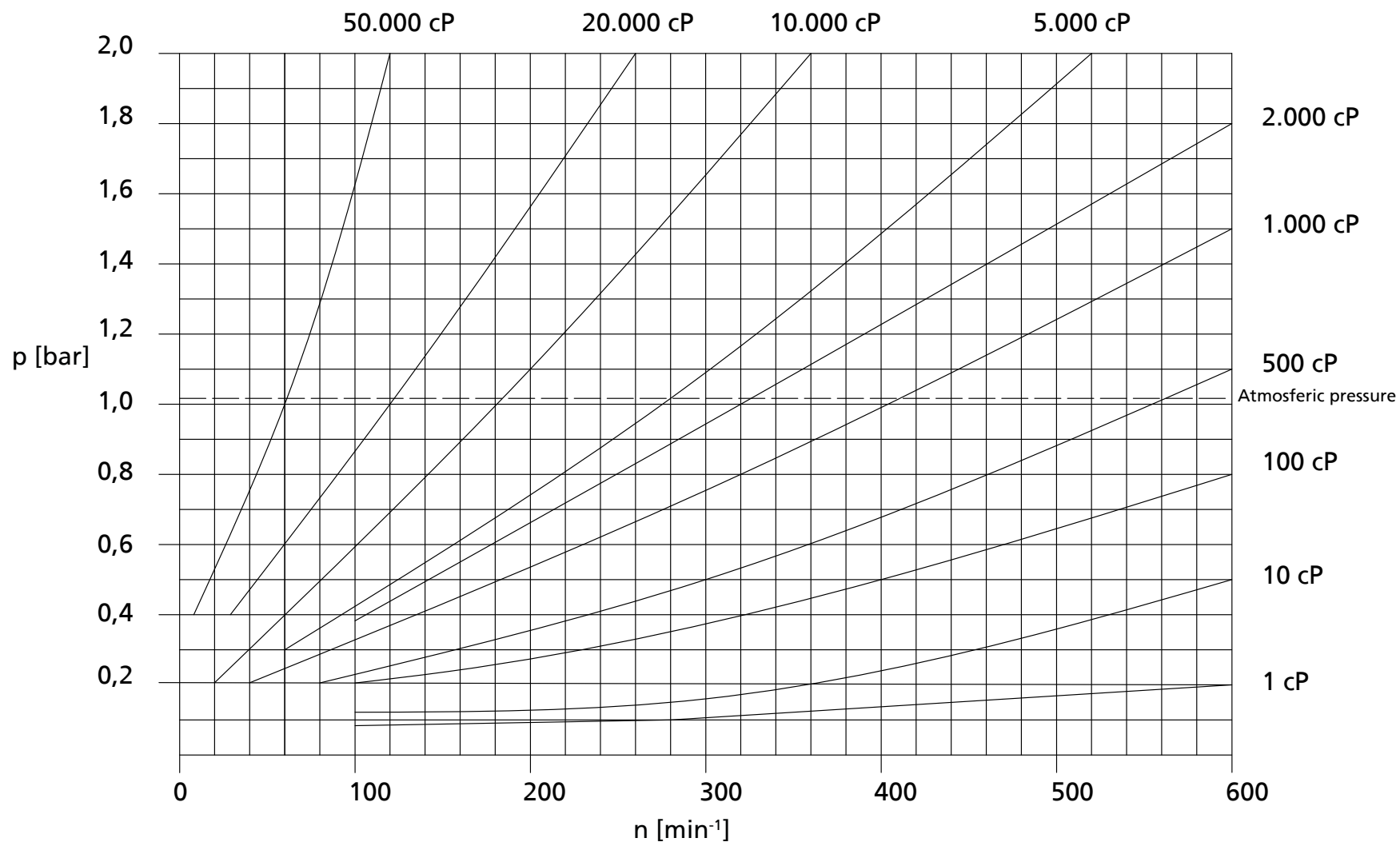
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 125 mm
Standard nominal nozzle diameter DN 125
Max. speed at 1 cPs = 300 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 550 - bi-wing rotor - clearance: standard



Total power = kW (1 cPs) x Fp

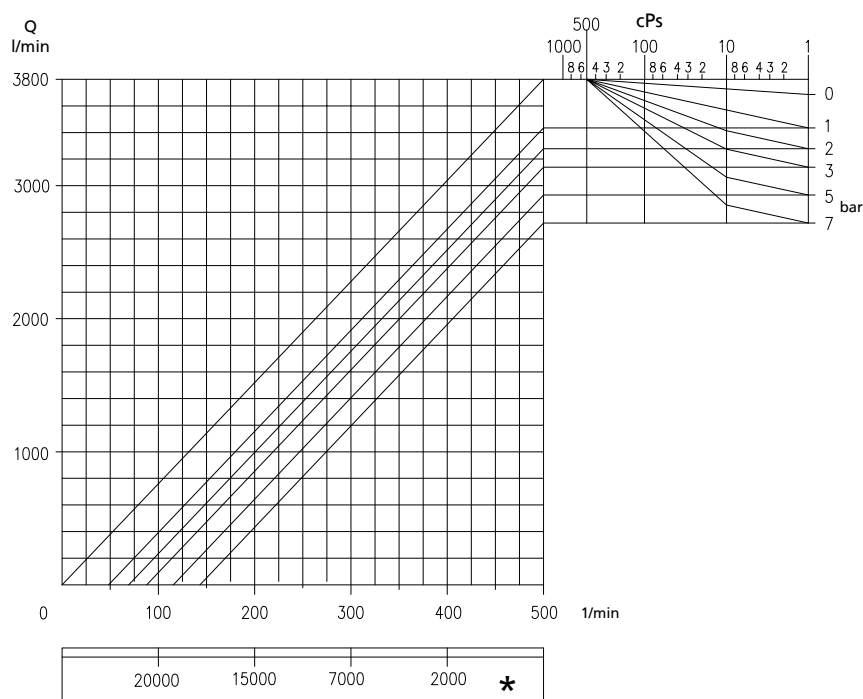
NPSH curve Vitalobe 550



Characteristic curve Vitalobe 660 - tri-lobe rotor - clearance: standard

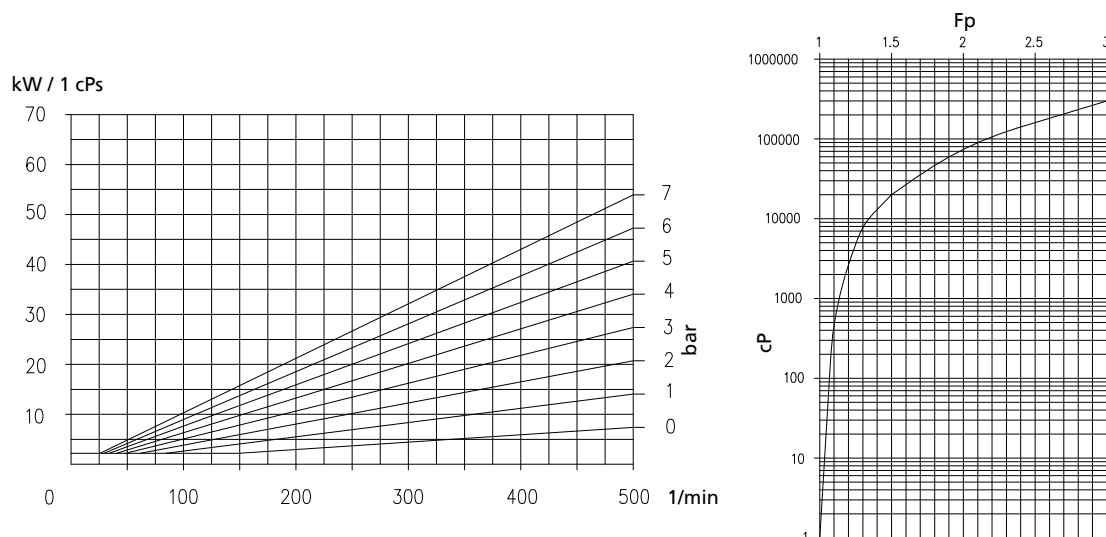
Characteristic curve Vitalobe 660 - tri-lobe rotor - clearance: standard

Flow rate: 7.6 l/rotation ⁶²⁾



* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 150 mm
Standard nominal nozzle diameter DN 150
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 660 - tri-lobe rotor - clearance: standard



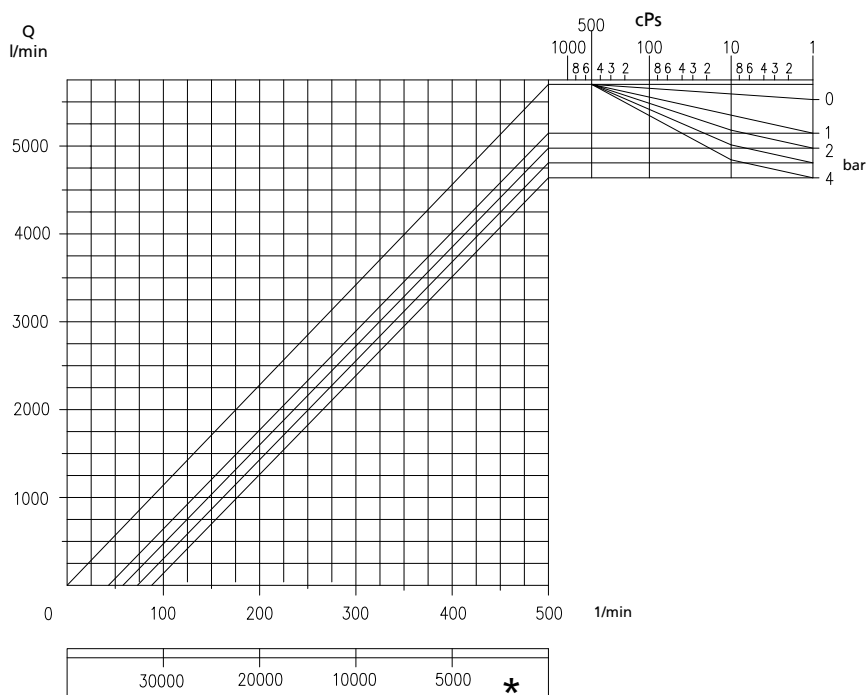
Total power = kW (1 cPs) x F_p

- 62) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.
63) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curve Vitalobe 680 - tri-lobe rotor - clearance: standard

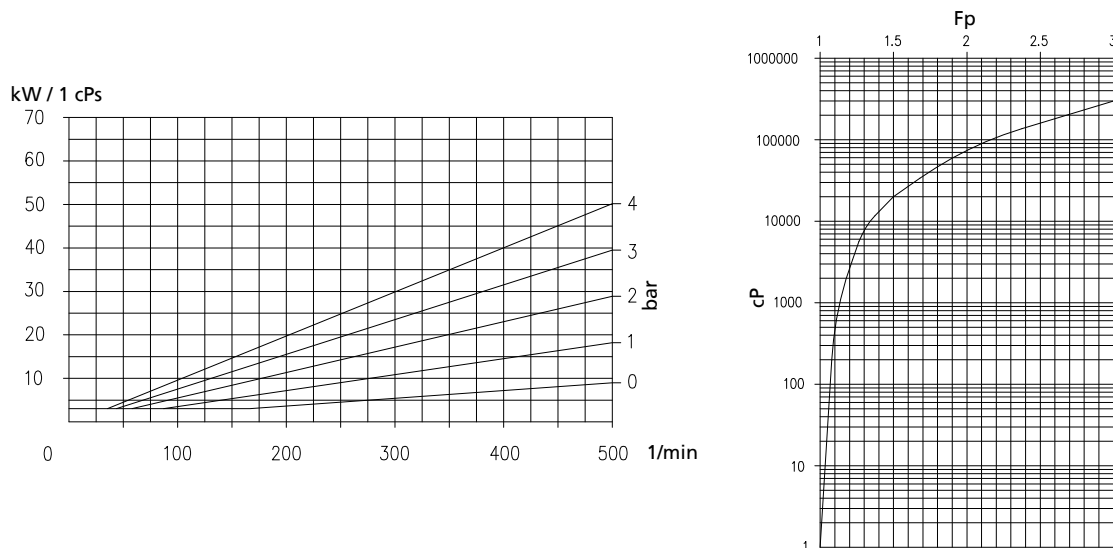
Characteristic curve Vitalobe 680 - tri-lobe rotor - clearance: standard

Flow rate: 11.4 l/rotation⁶³⁾



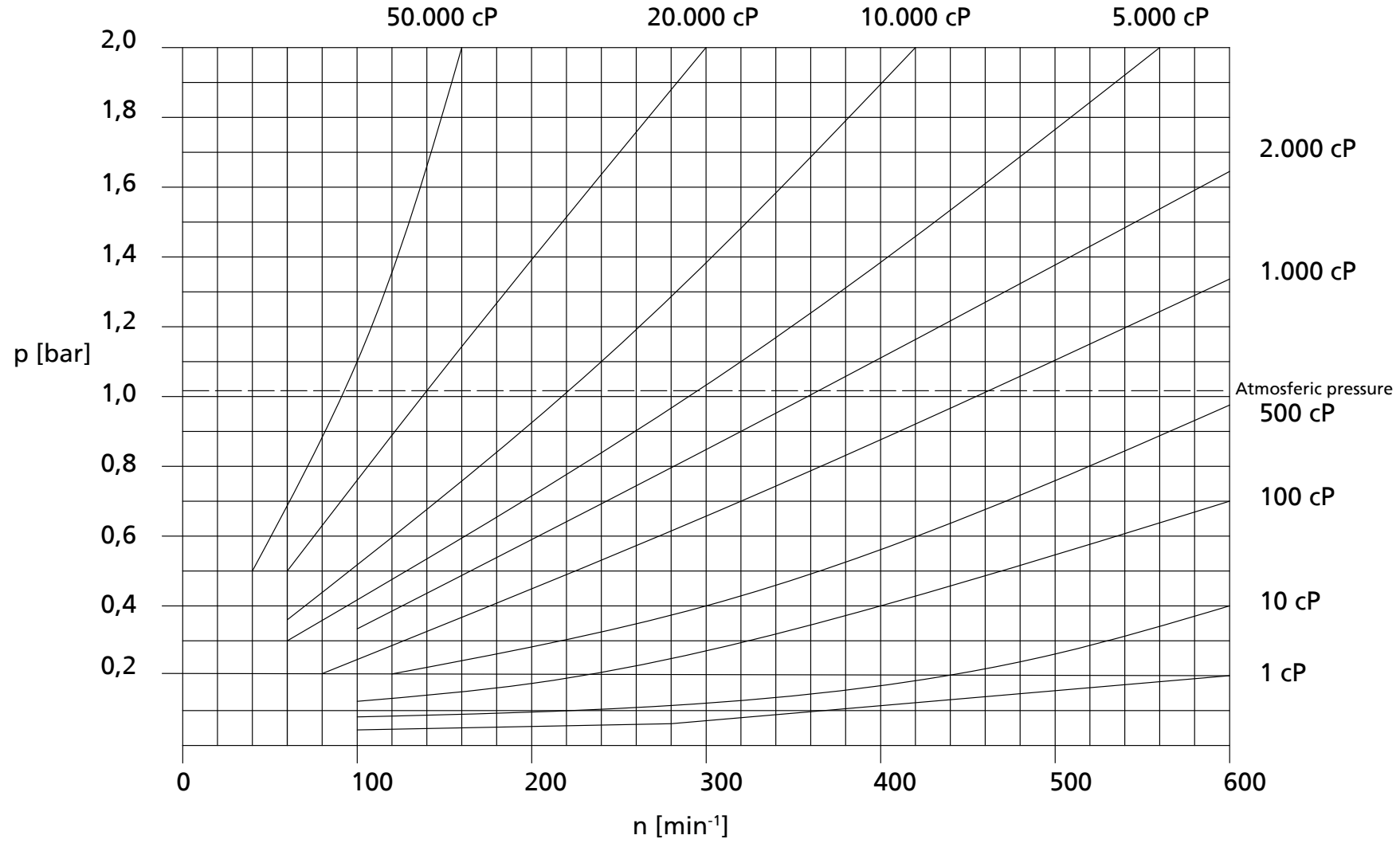
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 200 mm
Standard nominal nozzle diameter DN 200
Max. speed at 1 cPs = 500 rpm
It is recommended not to use all maximum values at the same time.

Total input power Vitalobe 680 - tri-lobe rotor - clearance: standard



Total power = kW (1 cPs) x F_p

NPSH curve Vitalobe 660-680





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