

Hygienic Pump

Vitalobe

Characteristic Curves Booklet



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Characteristic Curves Booklet Vitalobe

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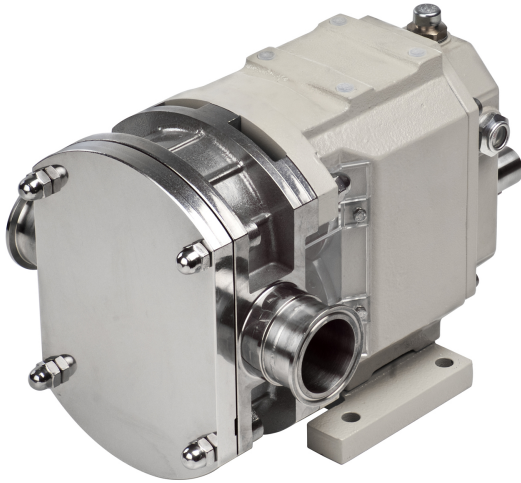
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Hygienic Pump

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.

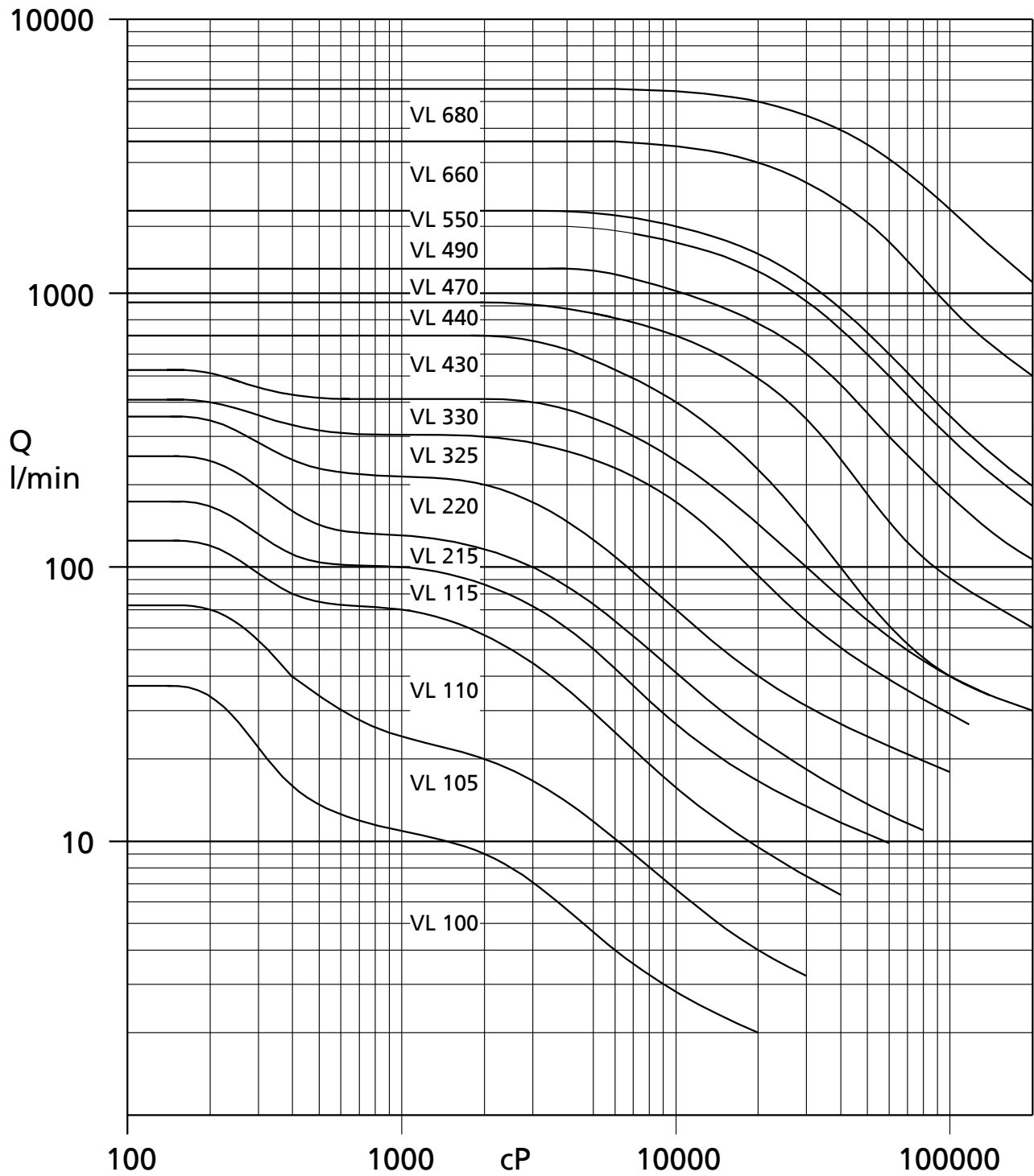
Overview of sizes

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Vitalobe selection chart



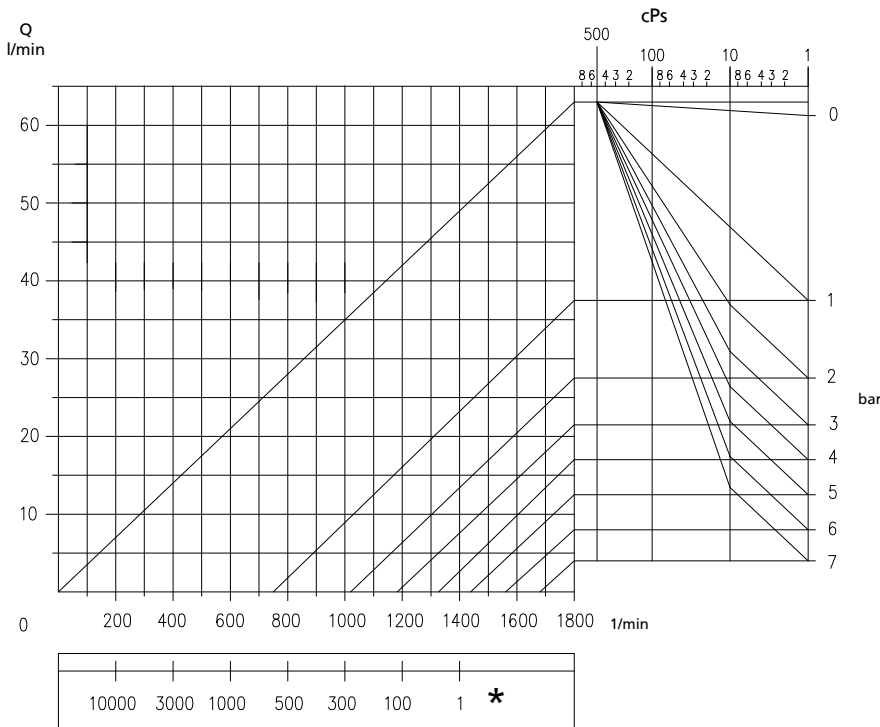
1) The characteristic curves shown are intended for orientation. Some individual pumps may differ for reasons related to their production, the fluid handled and the system conditions.

Characteristic curves

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

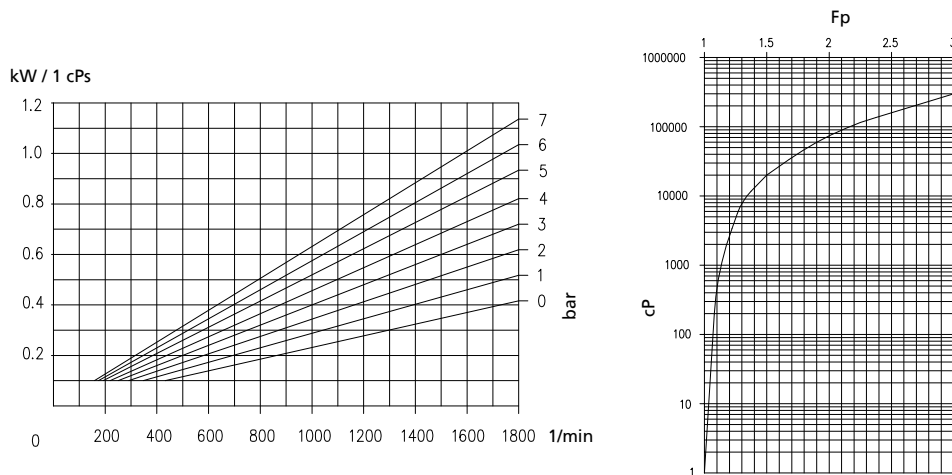
Characteristic curve Vitalobe 100 - bi-lobe rotor - clearance: standard

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

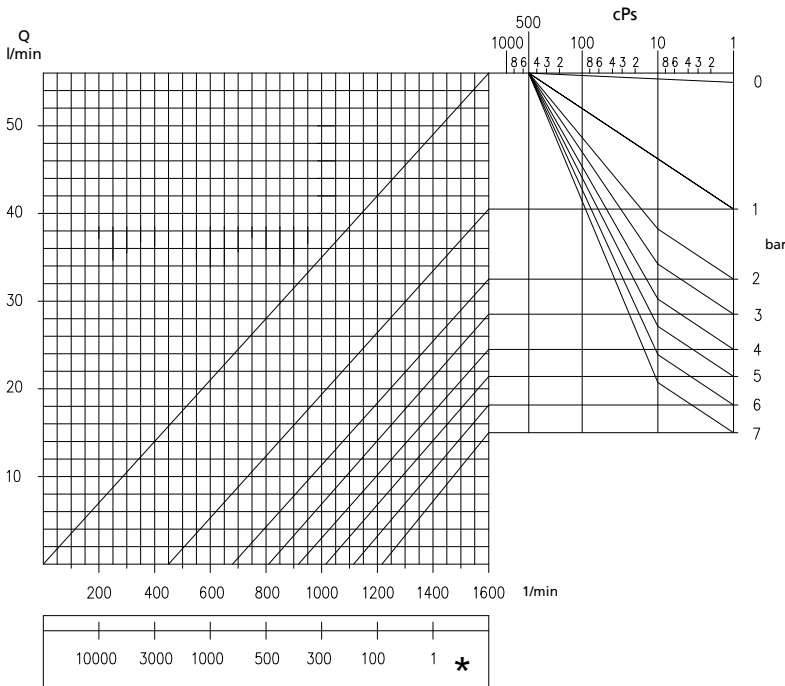


Total power = kW (1 cPs) x Fp

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

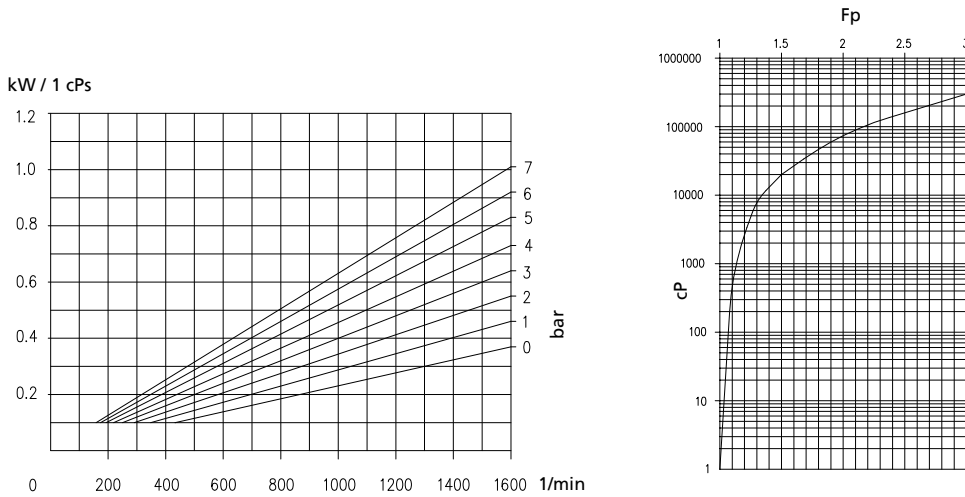
Characteristic curve Vitalobe 100 - gear-shaped rotor - clearance: standard

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.

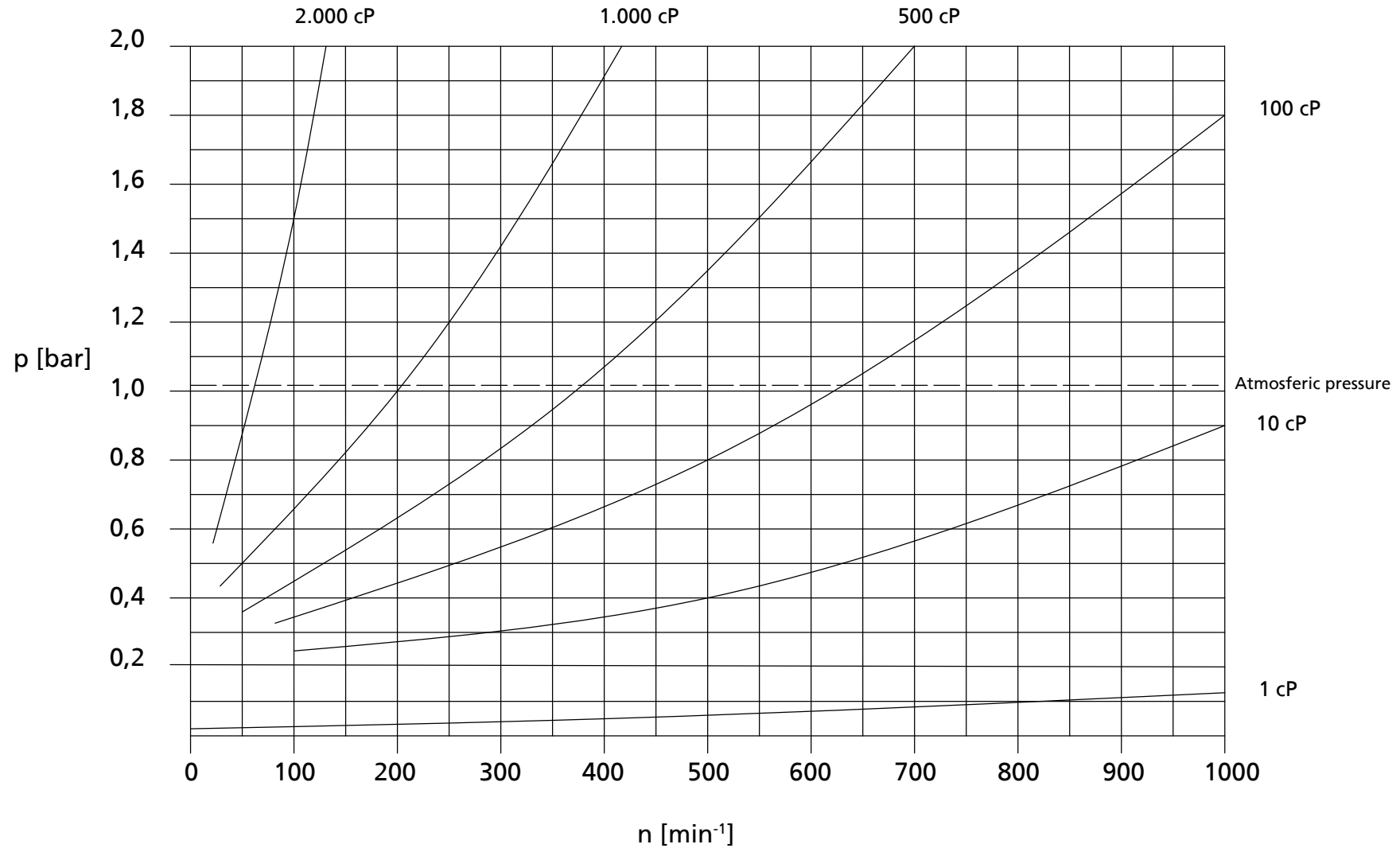
Total input power Vitalobe 100 - gear-shaped rotor - clearance: standard



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.

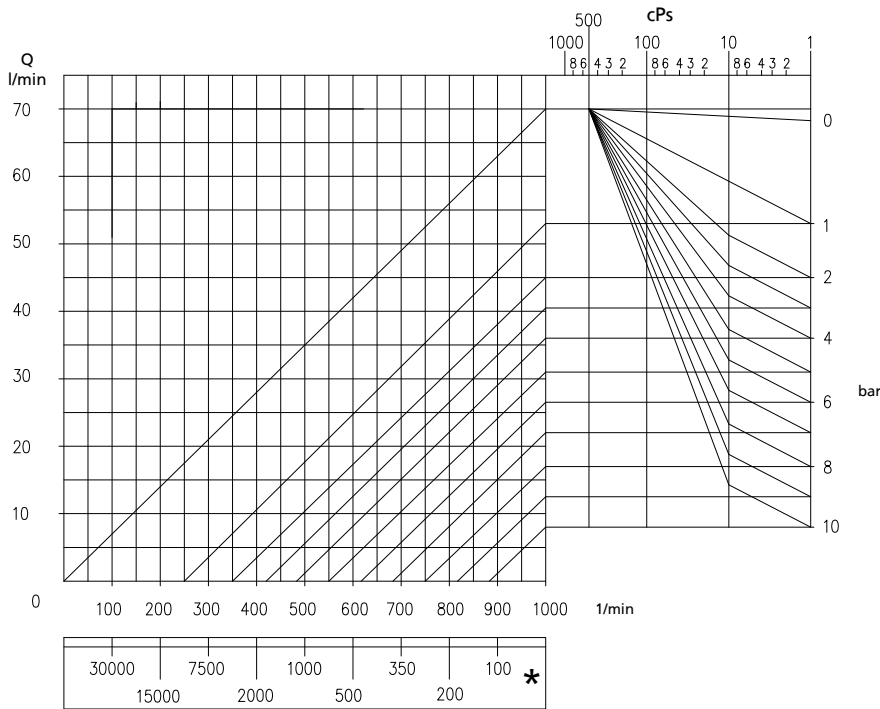
NPSH curve Vitalobe 100



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

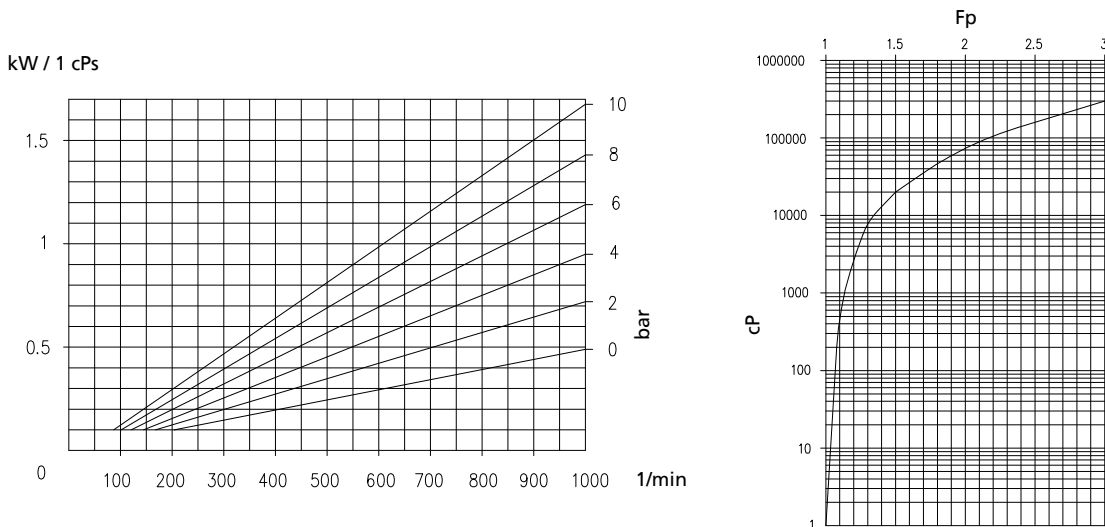
Characteristic curve Vitalobe 105 - bi-wing rotor - clearance: standard

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



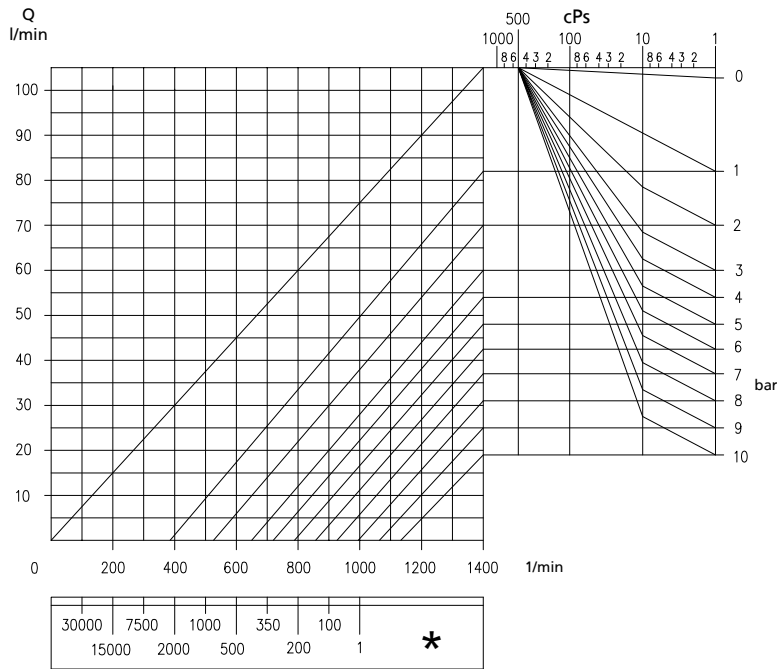
Total power = kW (1 cPs) x Fp

- 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

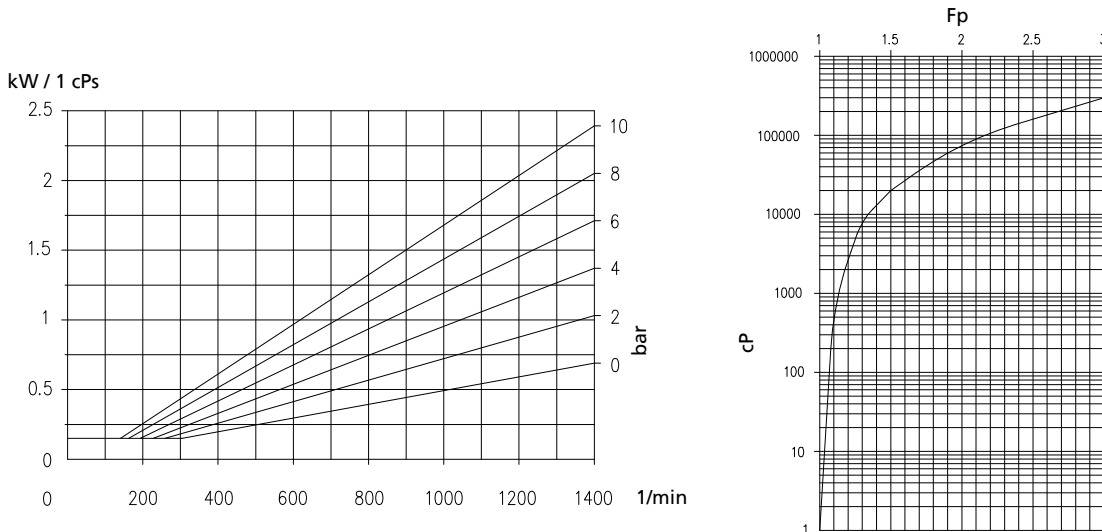
Characteristic curve Vitalobe 105 - gear-shaped rotor - clearance: standard

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



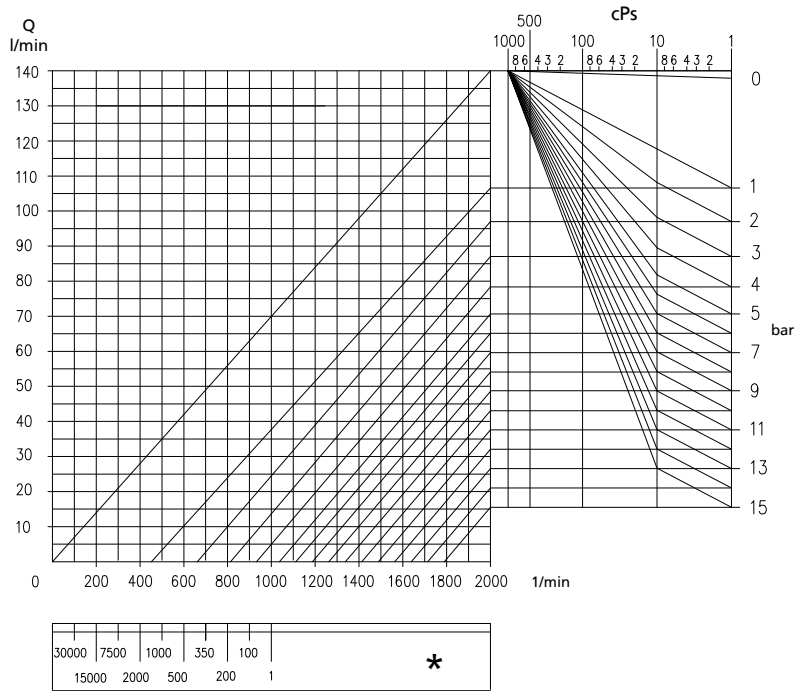
Total power = kW (1 cPs) x Fp

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

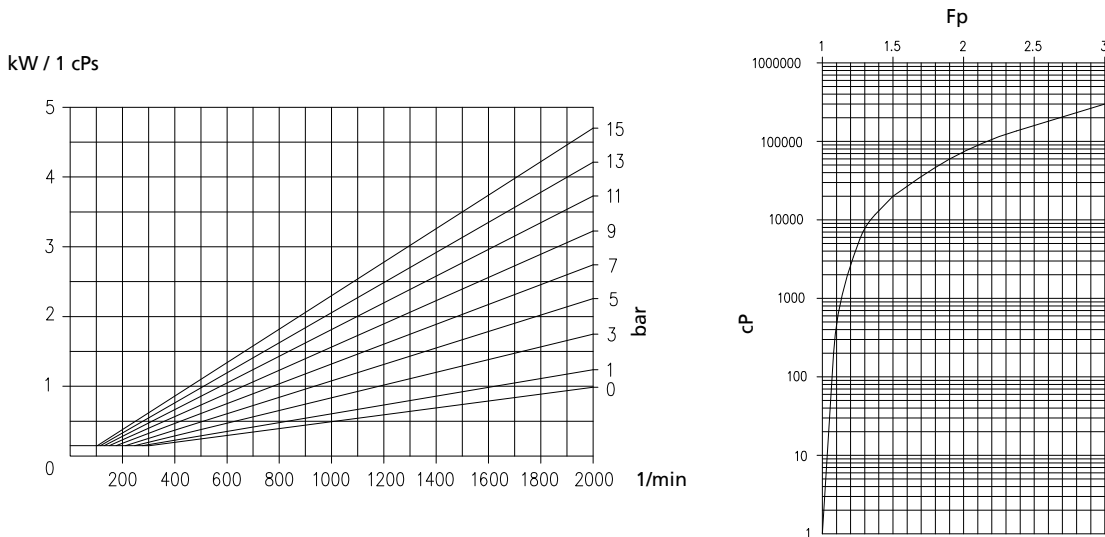
Characteristic curve Vitalobe 105 - gear-shaped rotor - clearance: enlarged

Flow rate: 0.075 l/rotation ⁵⁾



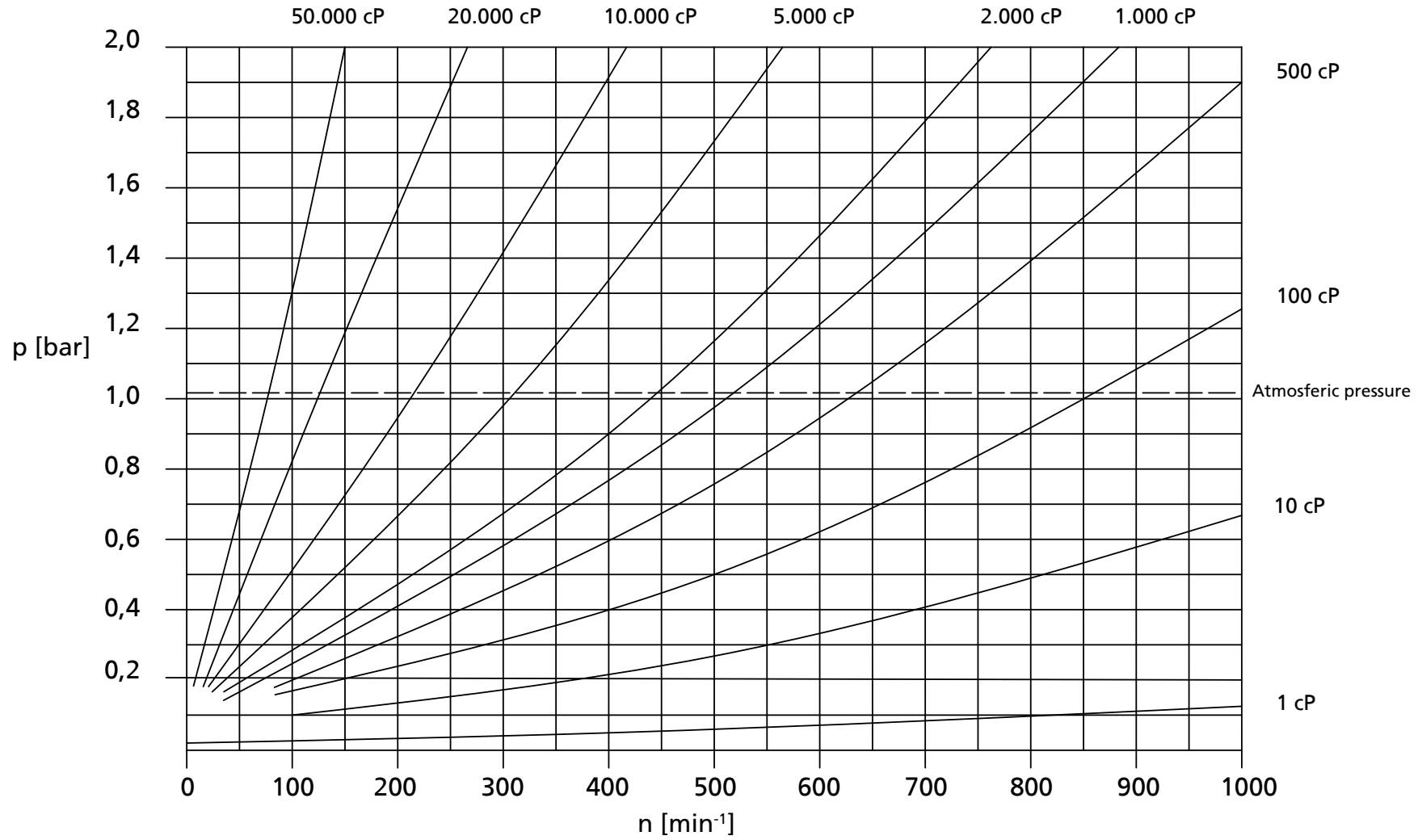
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 30.5 mm
 Standard nominal nozzle diameter DN 40
 Max. speed at 1 cPs = 1000 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x F_p

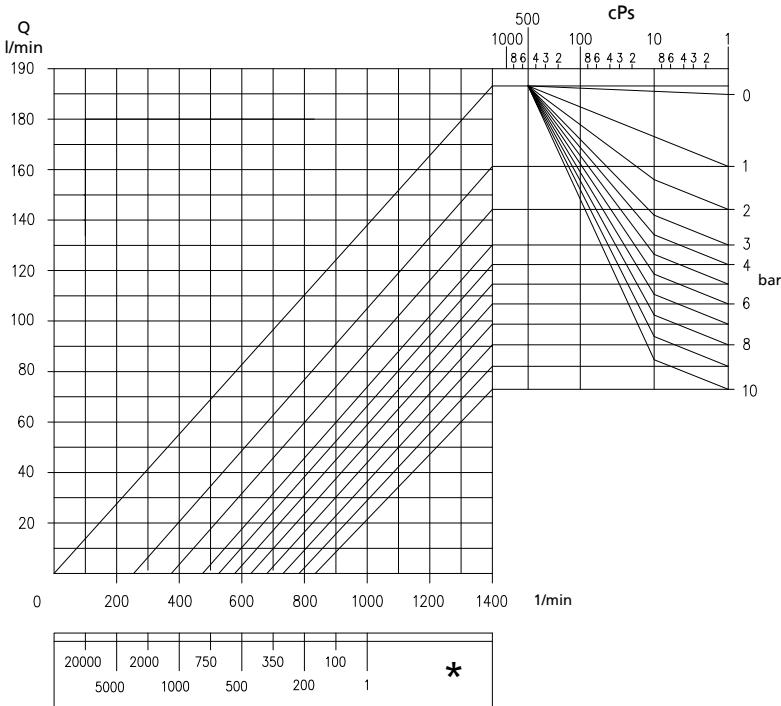
NPSH curve Vitalobe 105



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

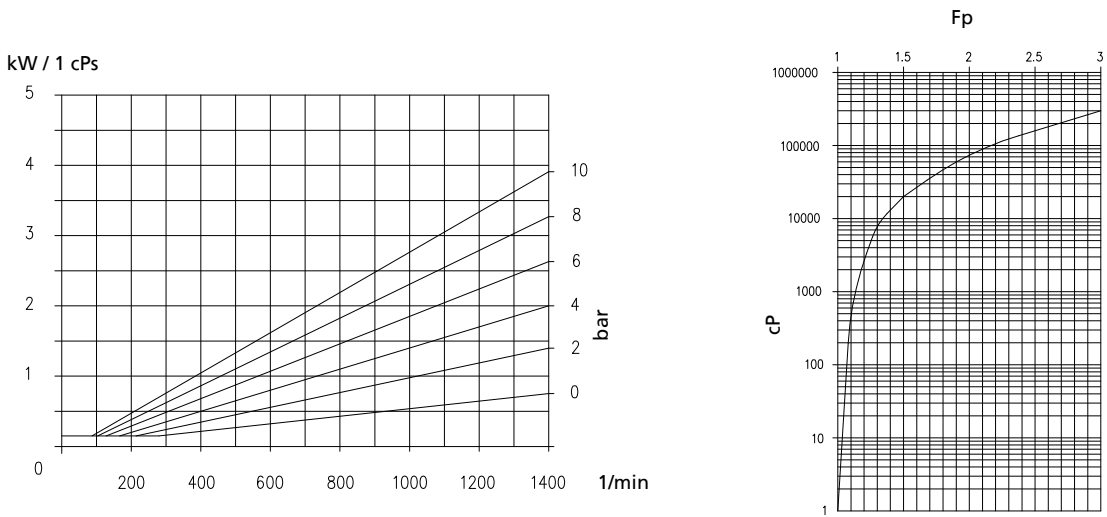
Characteristic curve Vitalobe 110 - tri-lobe rotor - clearance: standard

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



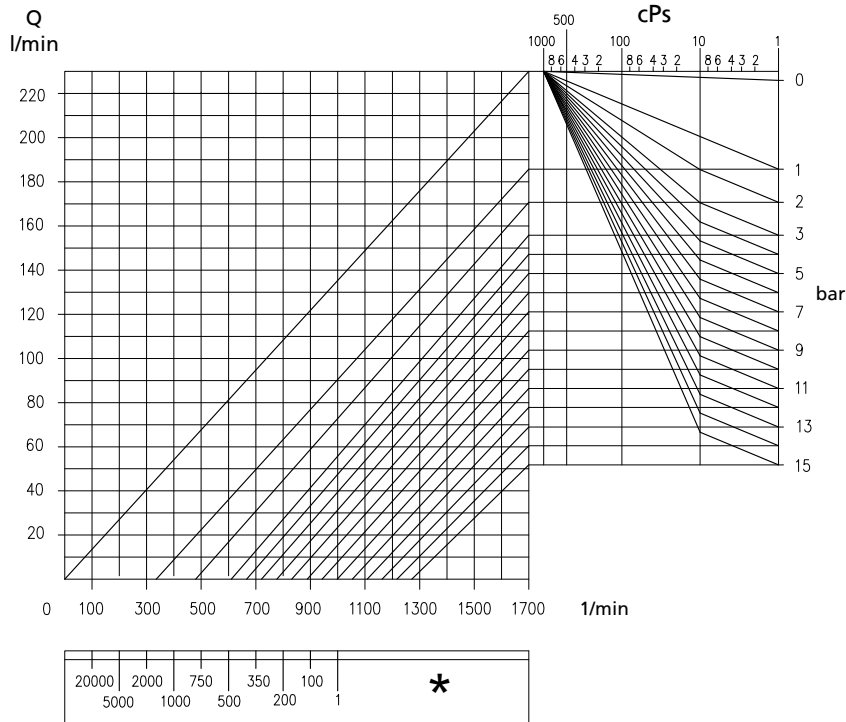
Total power = kW (1 cPs) x Fp

- 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

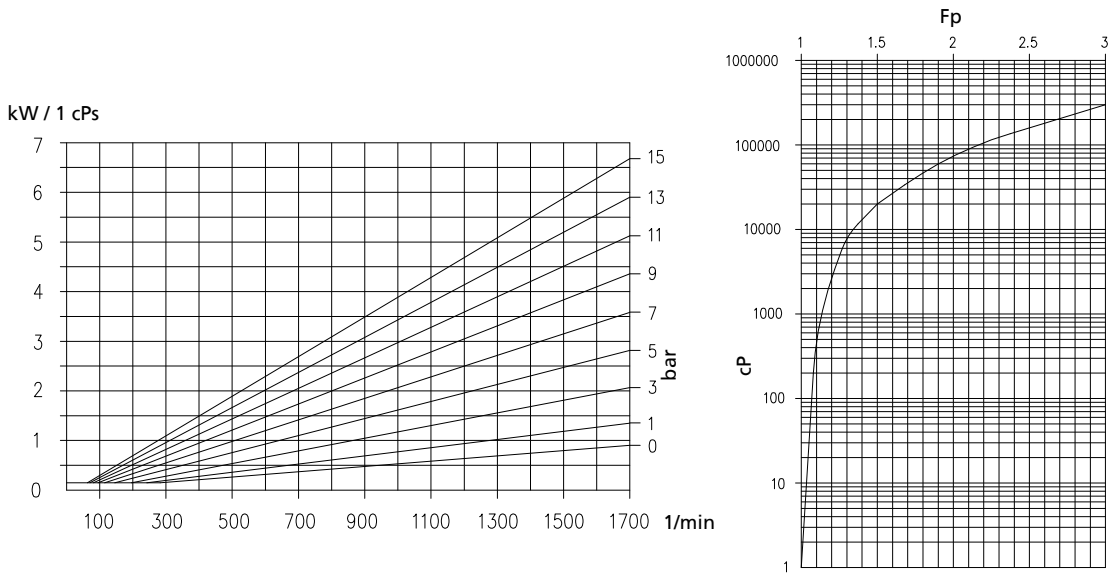
Characteristic curve Vitalobe 110 - tri-lobe rotor - clearance: enlarged

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



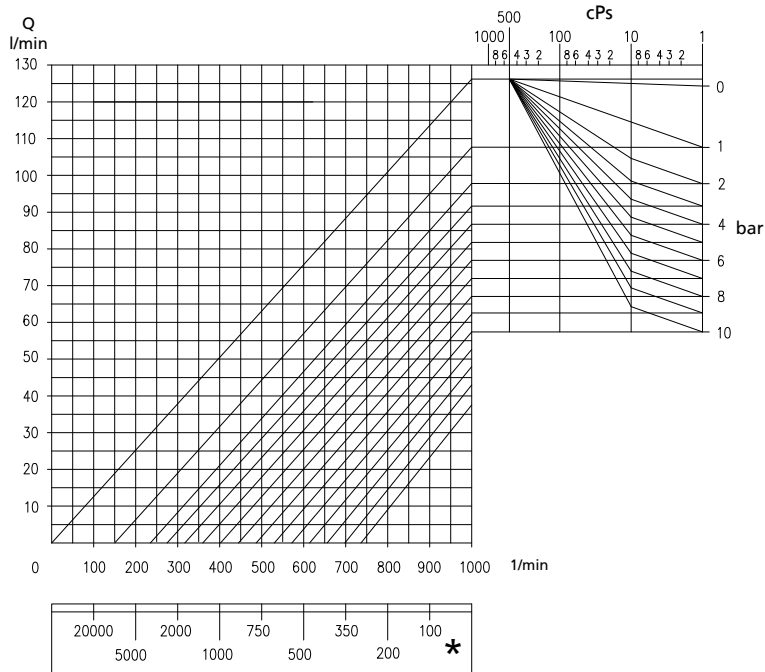
Total power = kW (1 cPs) x Fp

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

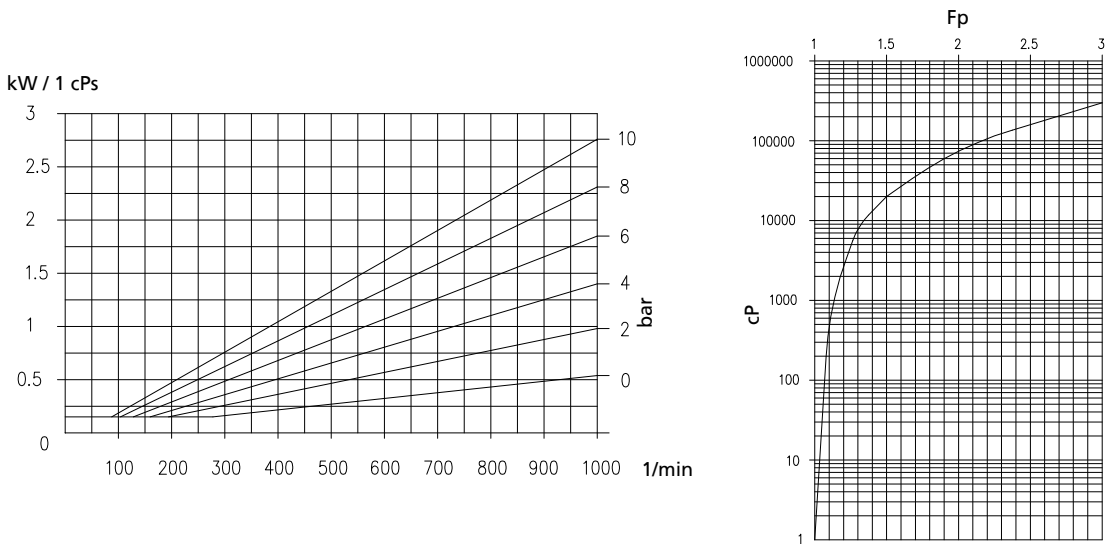
Characteristic curve Vitalobe 110 - bi-wing rotor - clearance: standard

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



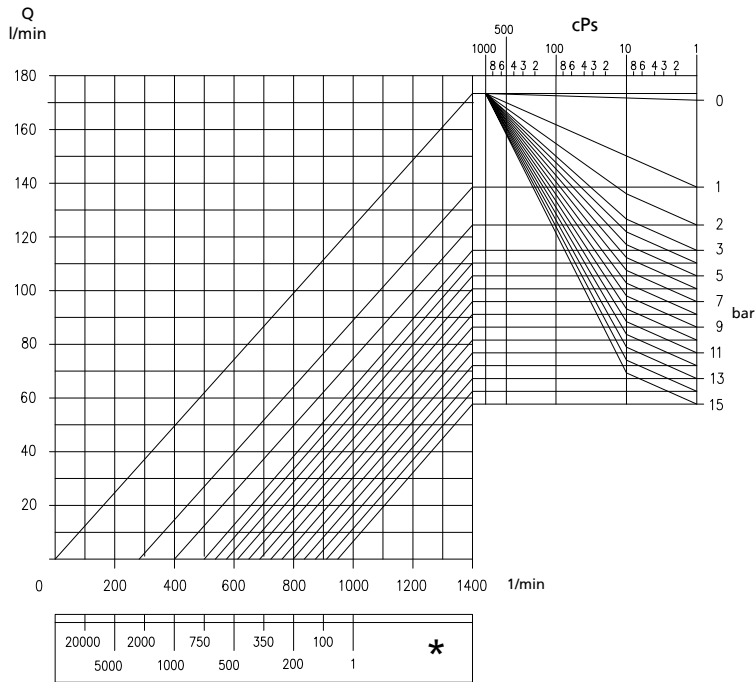
Total power = kW (1 cPs) x Fp

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

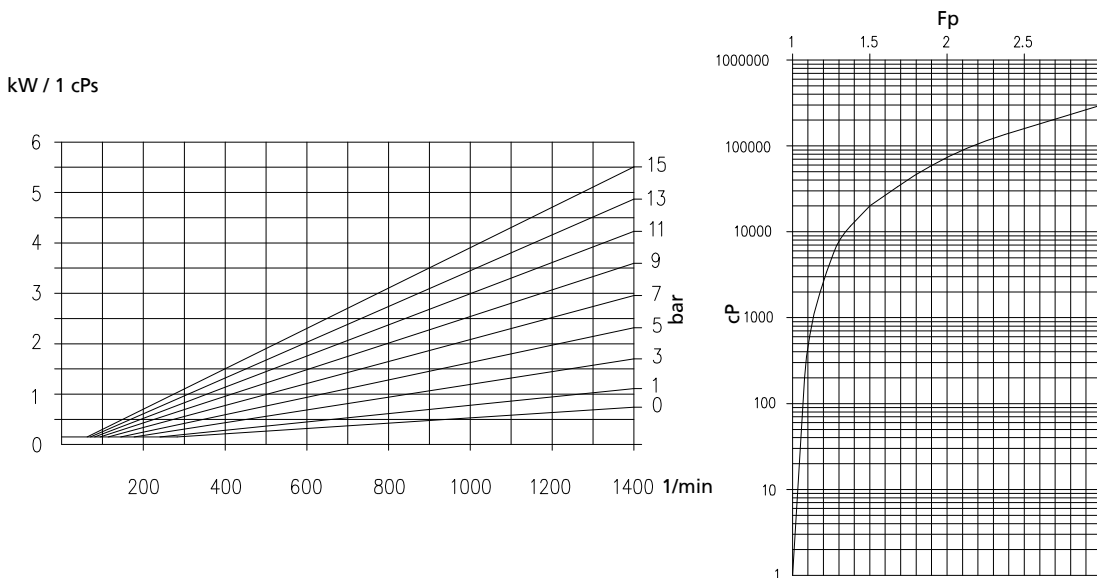
Characteristic curve Vitalobe 110 - bi-wing rotor - clearance: enlarged

Flow rate: 1.124 l/rotation ⁹⁾



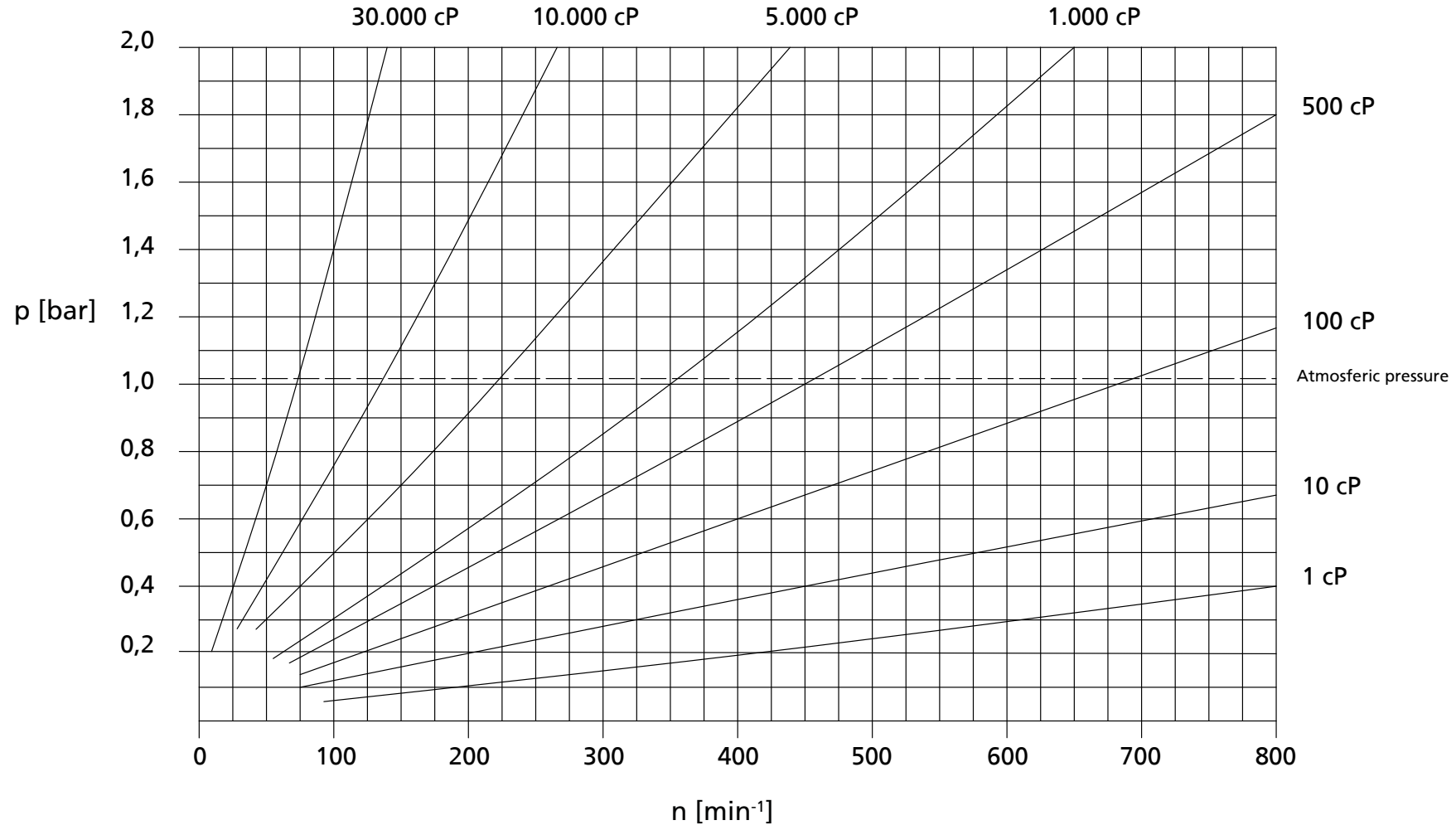
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 30.5 mm
 Standard nominal nozzle diameter DN 40
 Max. speed at 1 cPs = 1000 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x F_p

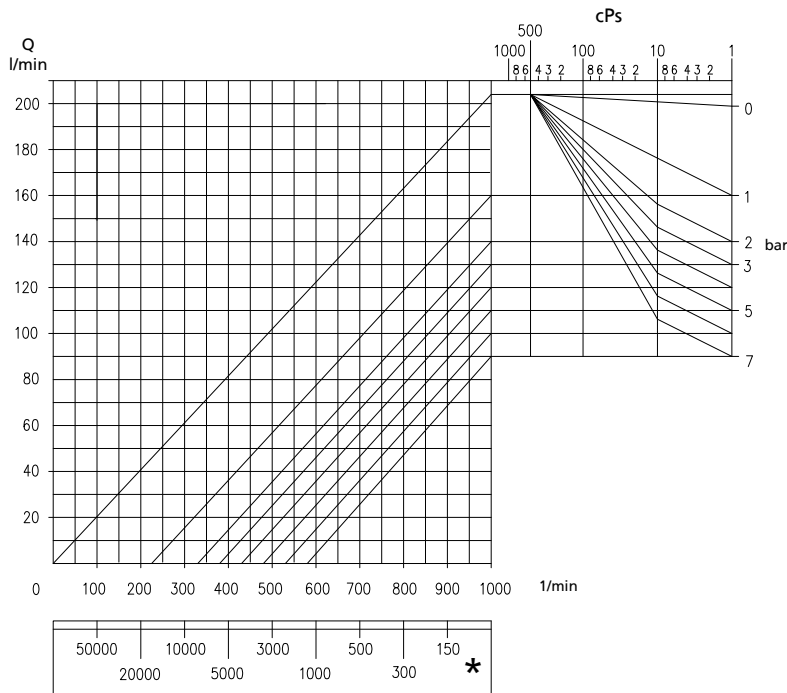
NPSH curve Vitalobe 110



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

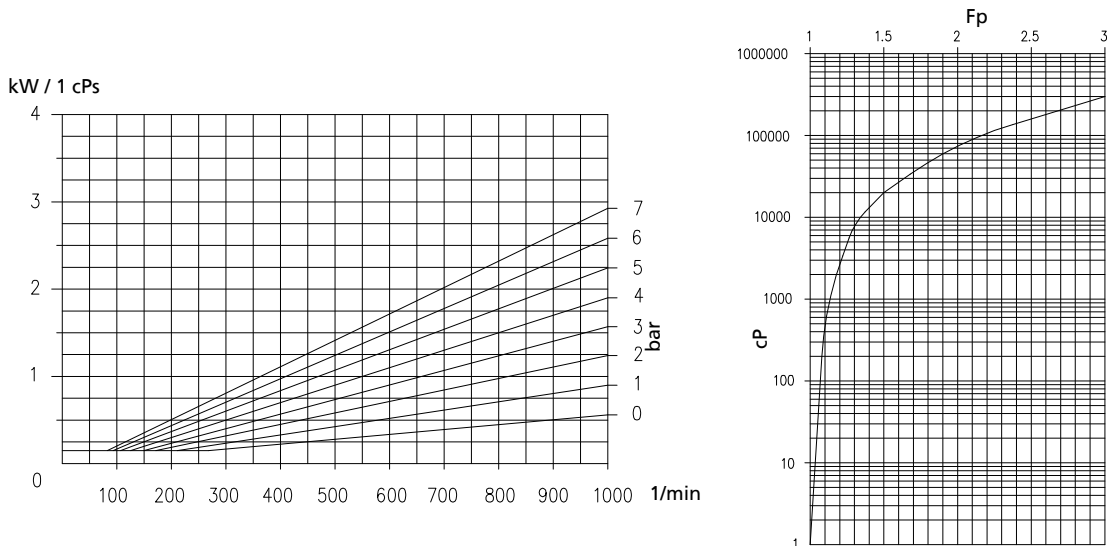
Characteristic curve Vitalobe 115 - tri-lobe rotor - clearance: standard

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



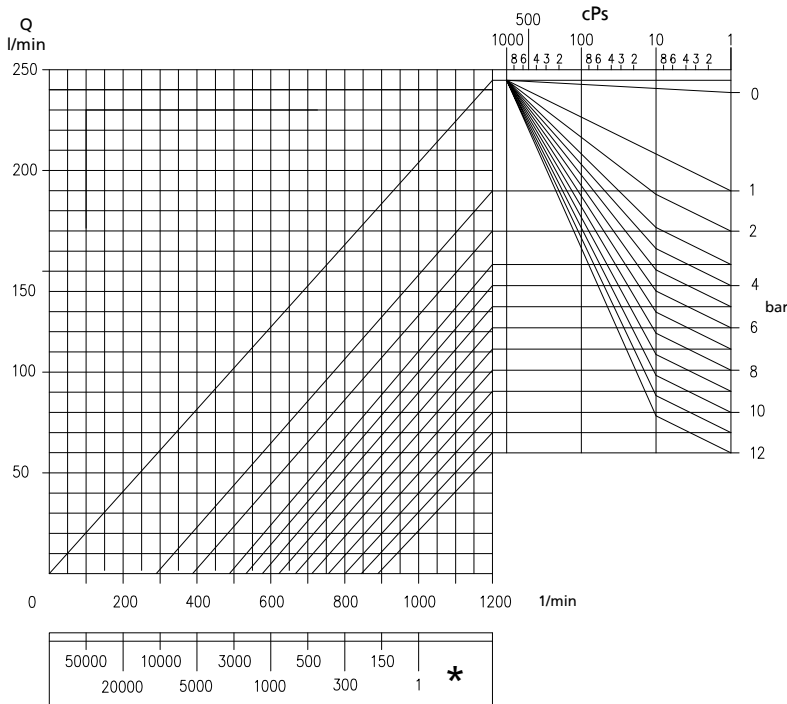
Total power = kW (1 cPs) x F_p

- 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

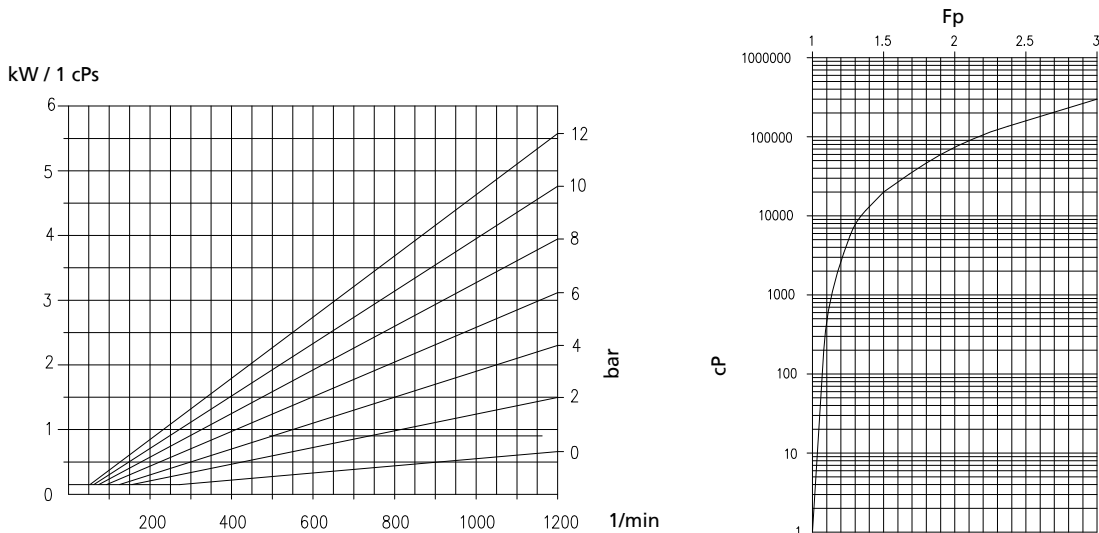
Characteristic curve Vitalobe 115 - tri-lobe rotor - clearance: enlarged

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



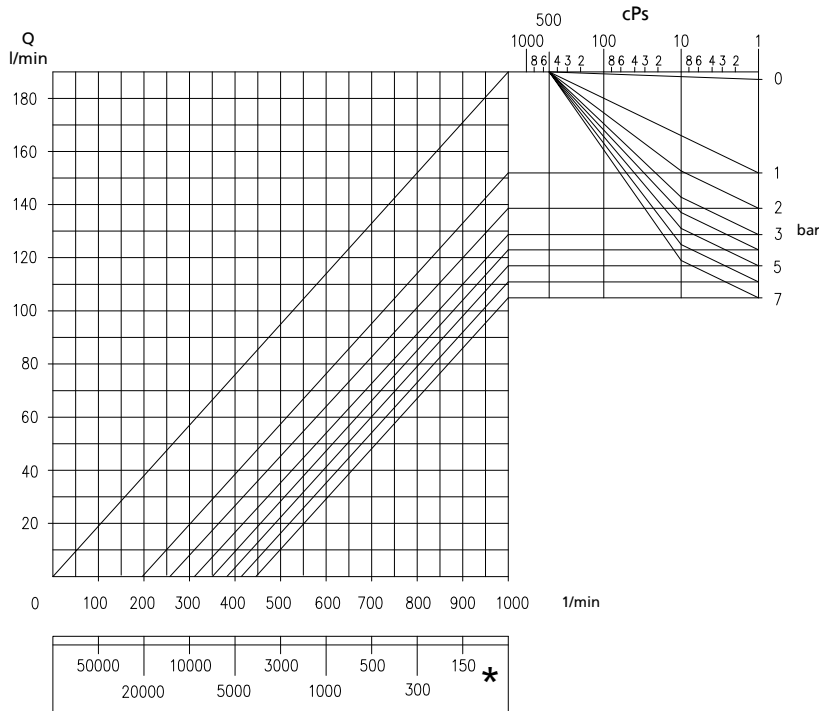
Total power = kW (1 cPs) x Fp

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

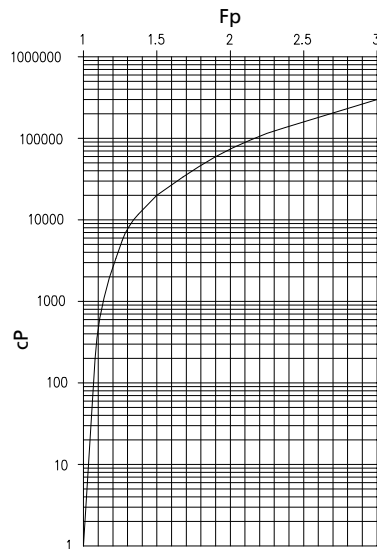
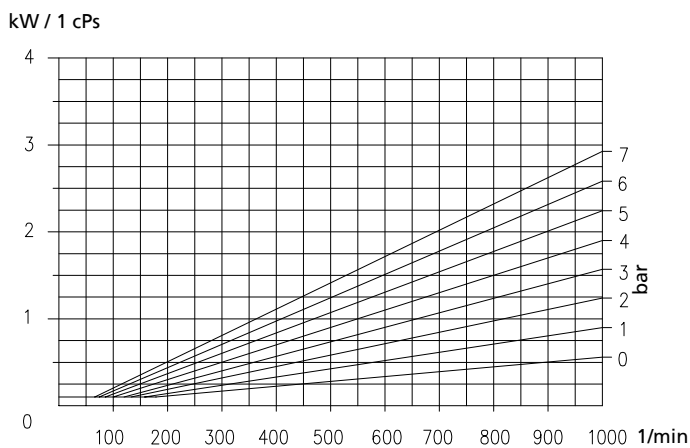
Characteristic curve Vitalobe 115 - bi-wing rotor - clearance: standard

Flow rate: 0.19 l/rotation ¹²⁾



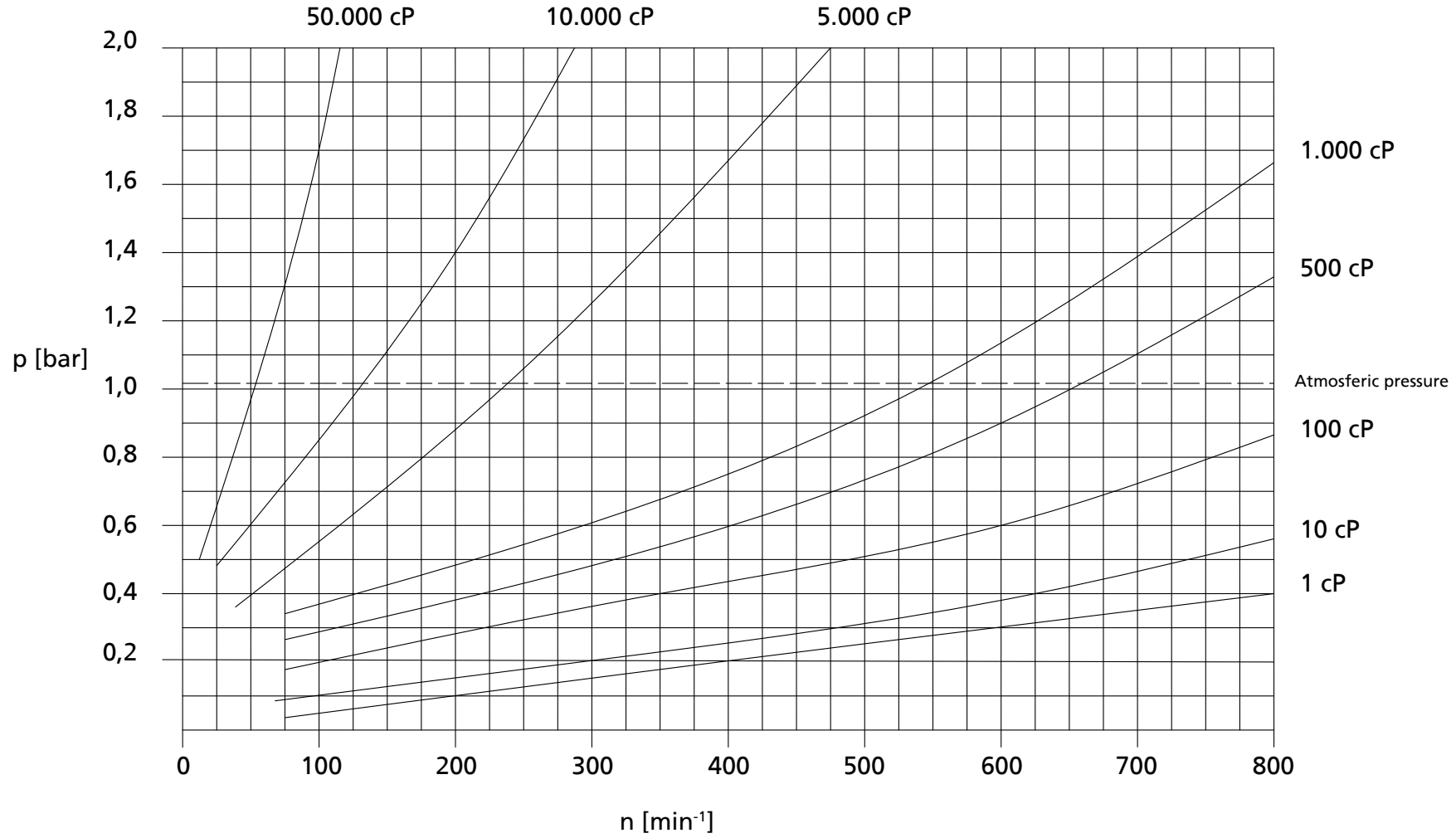
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 38 mm
 Standard nominal nozzle diameter DN 40
 Max. speed at 1 cPs = 1000 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x Fp

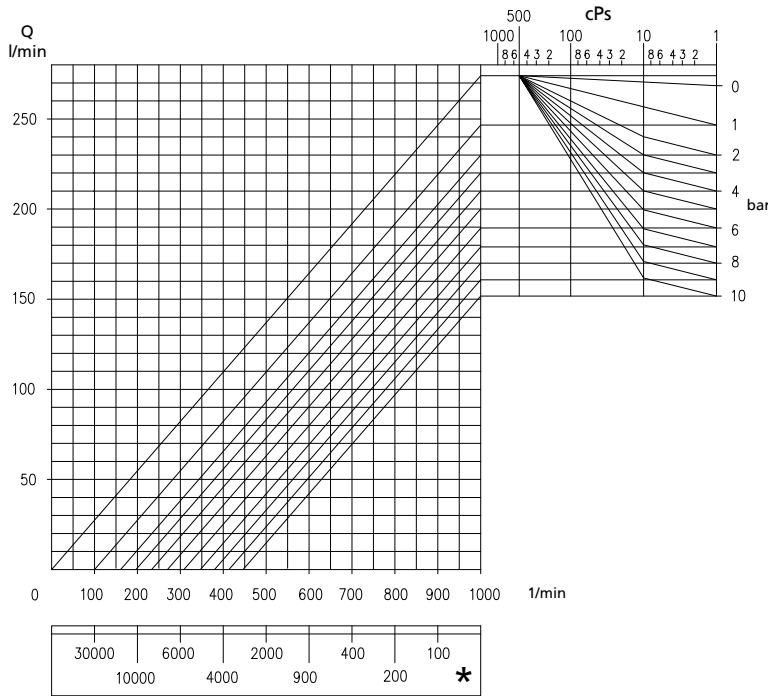
NPSH curve Vitalobe 115



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

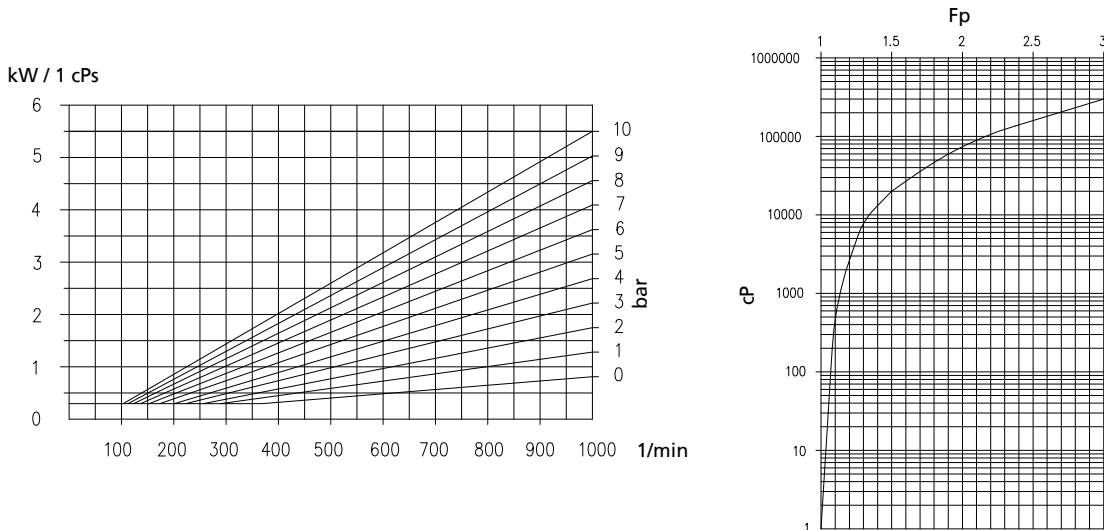
Characteristic curve Vitalobe 215 - bi-lobe rotor - clearance: standard

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



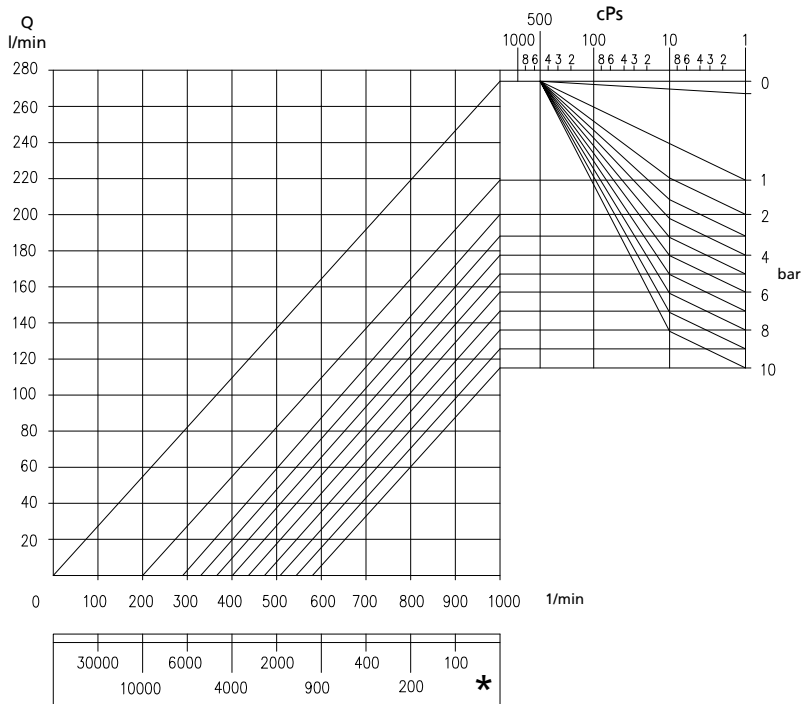
Total power = kW (1 cPs) x F_p

- 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

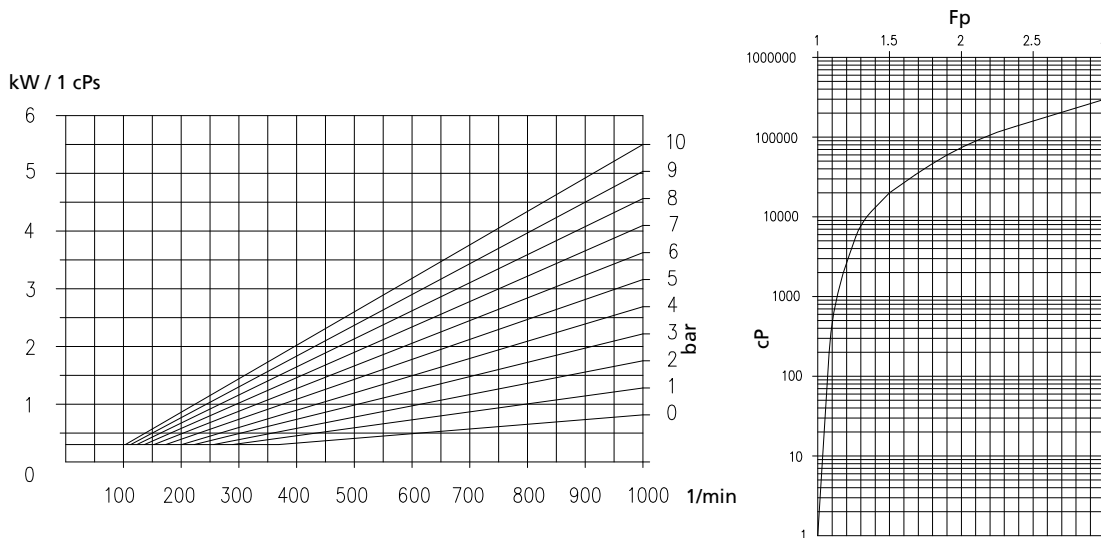
Characteristic curve Vitalobe 215 - tri-lobe rotor - clearance: standard

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



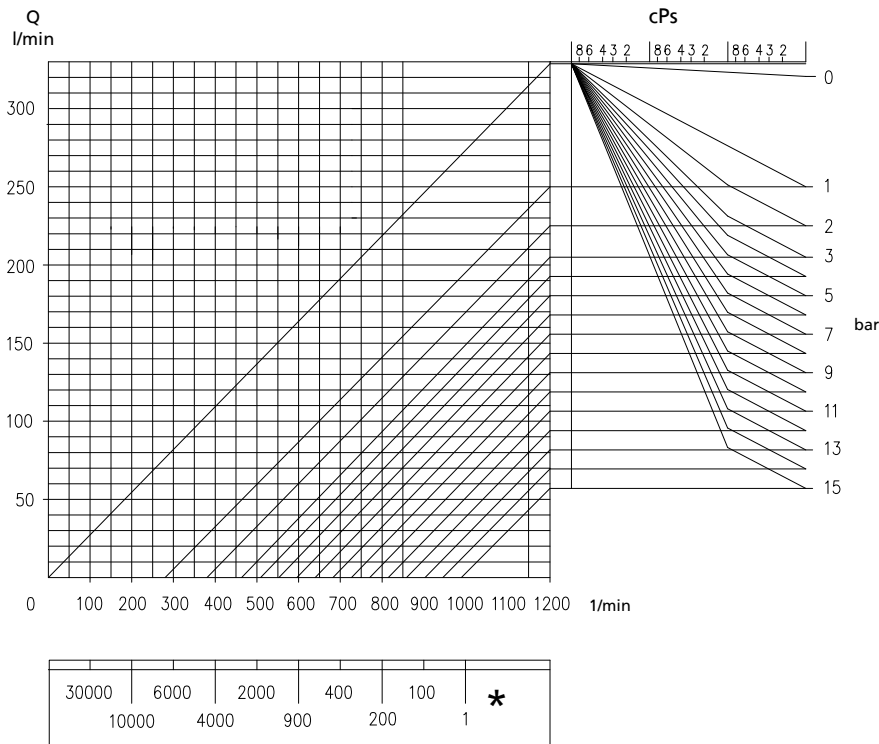
Total power = kW (1 cPs) x F_p

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

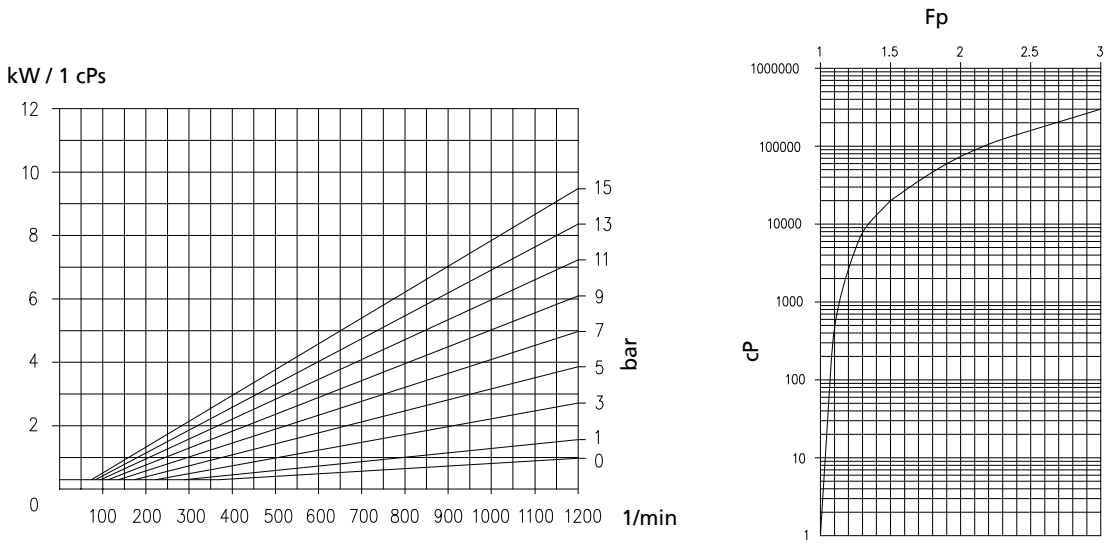
Characteristic curve Vitalobe 215 - tri-lobe rotor - clearance: enlarged

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



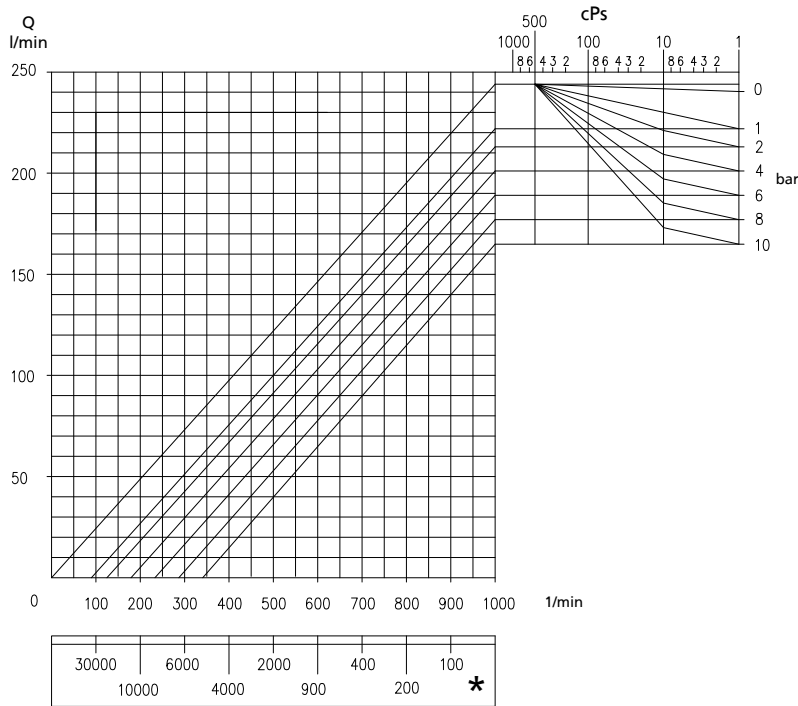
Total power = kW (1 cPs) x F_p

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

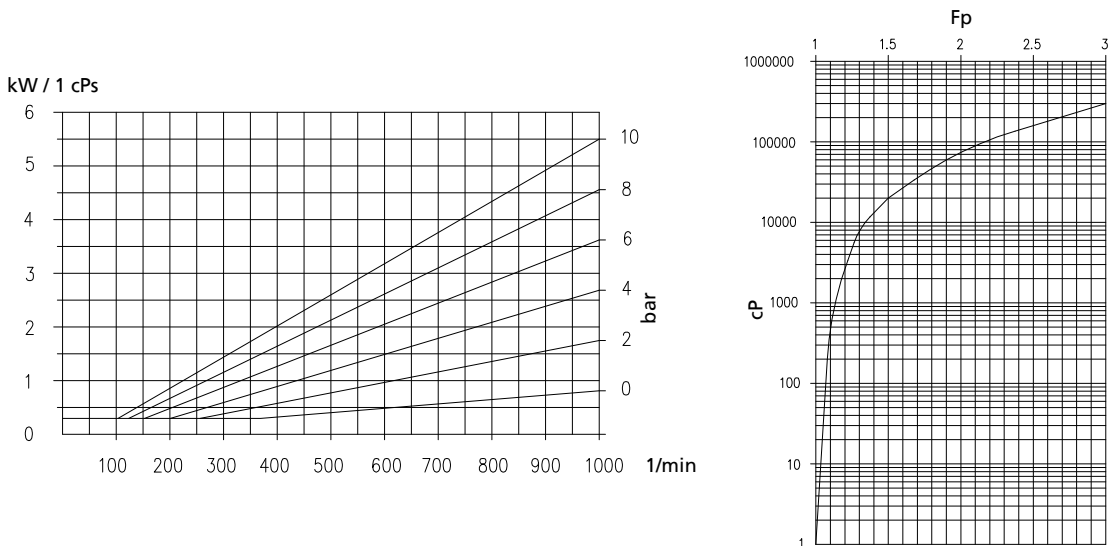
Characteristic curve Vitalobe 215 - bi-wing rotor - clearance: standard

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



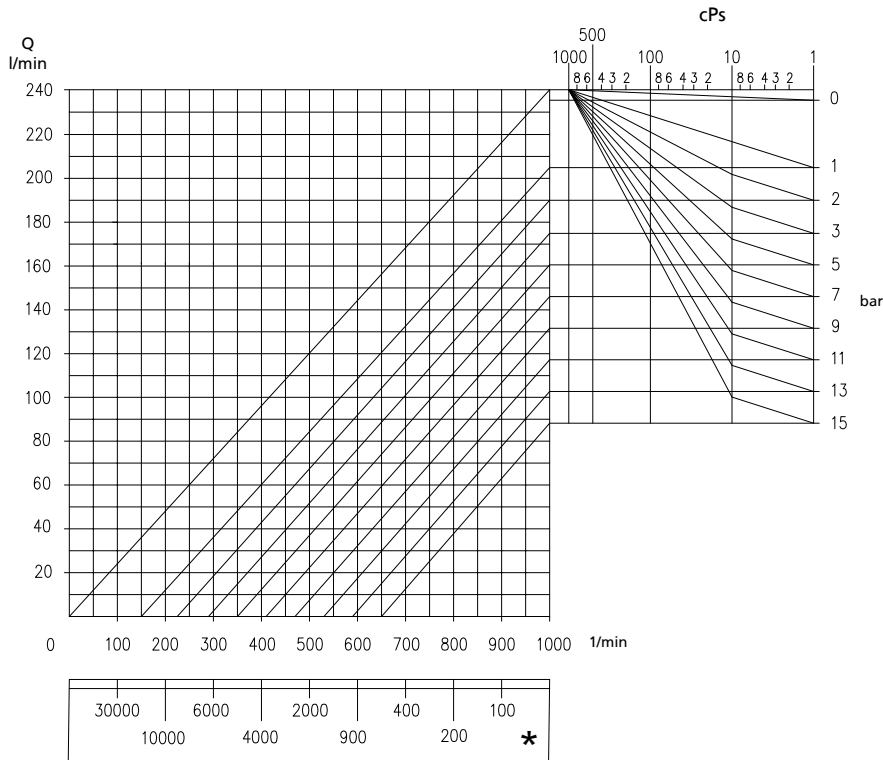
Total power = kW (1 cPs) x Fp

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

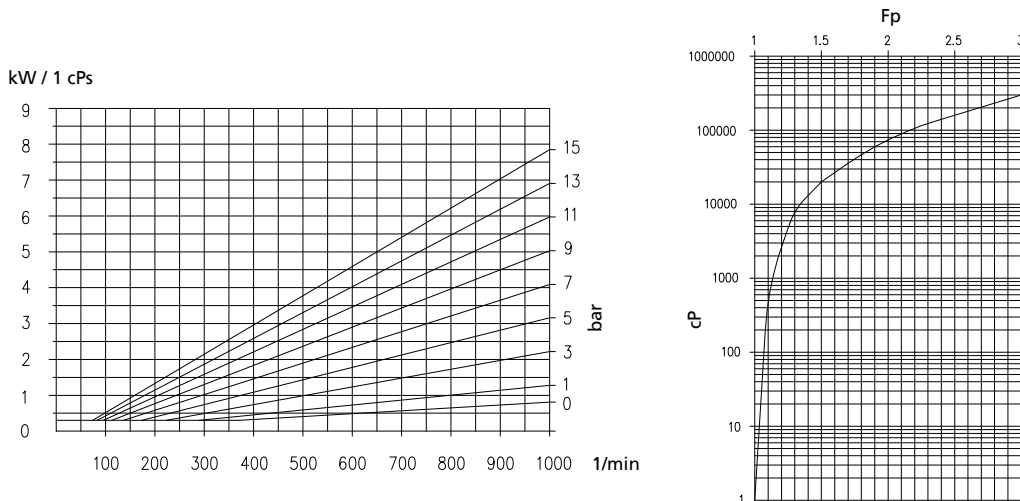
Characteristic curve Vitalobe 215 - bi-wing rotor - clearance: enlarged

Flow rate: 0.24 l/rotation ¹⁷⁾



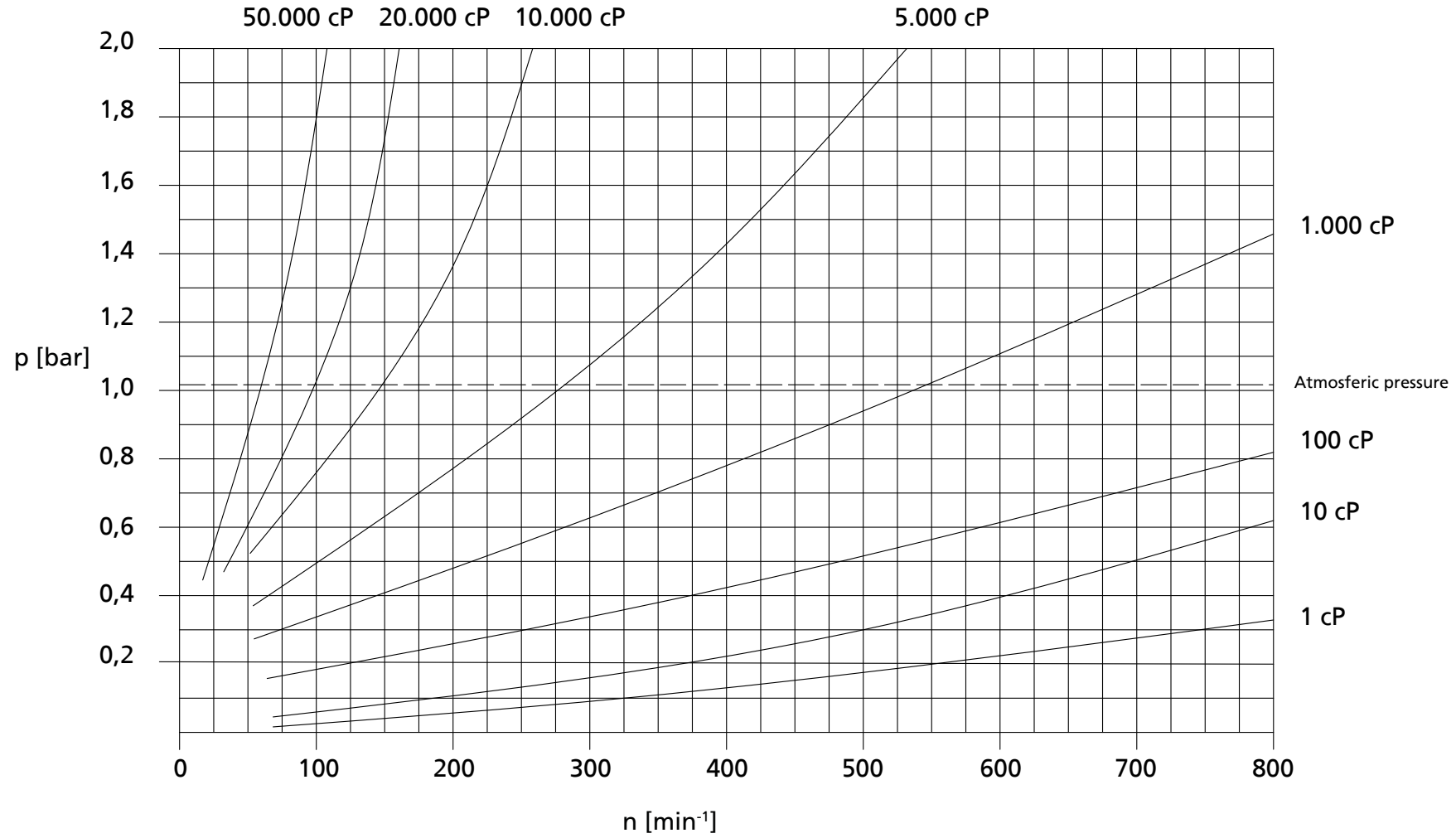
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 38 mm
Standard nominal nozzle diameter DN 40
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x Fp

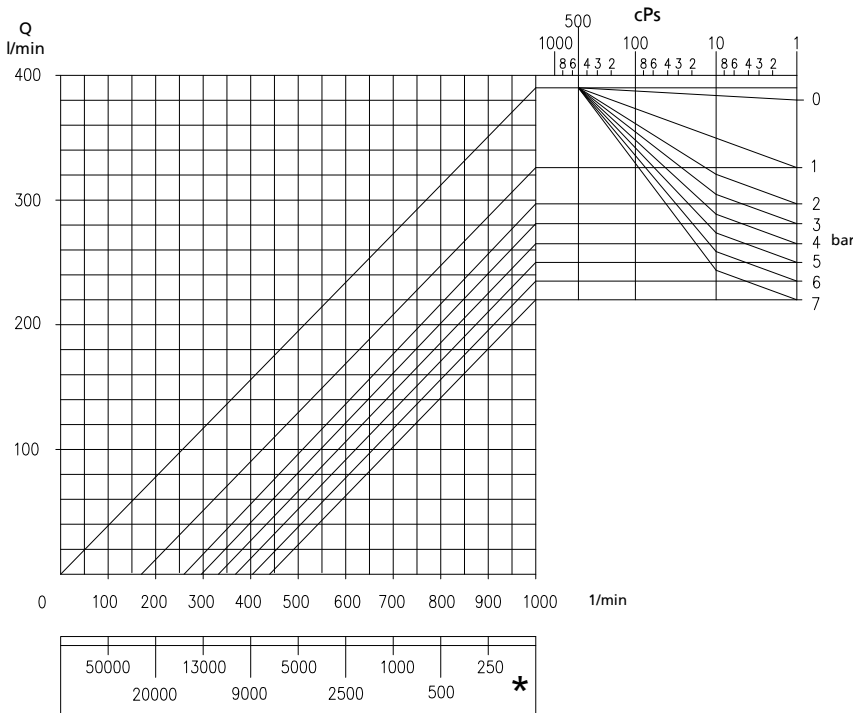
NPSH curve Vitalobe 215



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

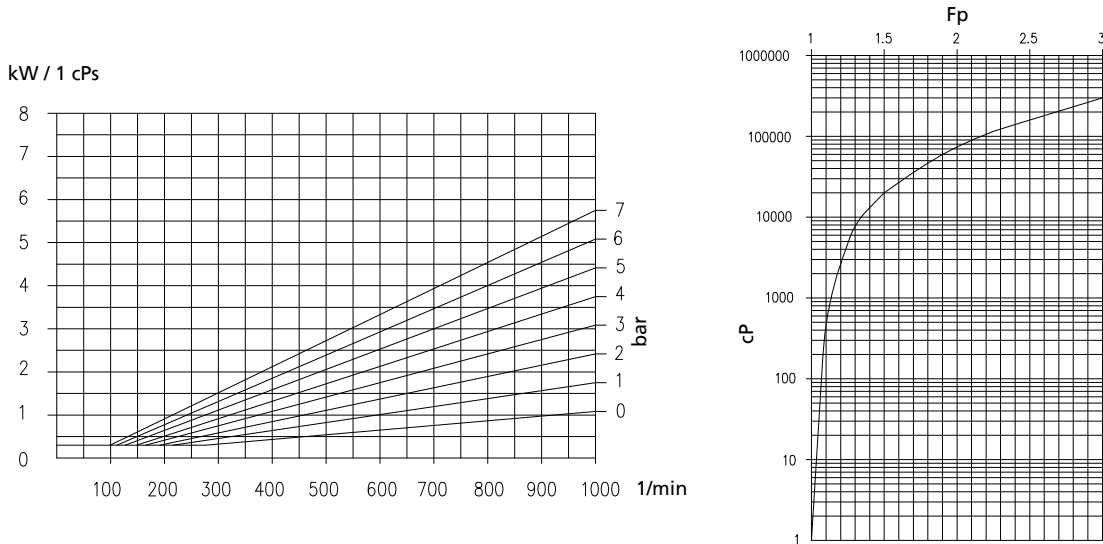
Characteristic curve Vitalobe 220 - bi-lobe rotor - clearance: standard

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



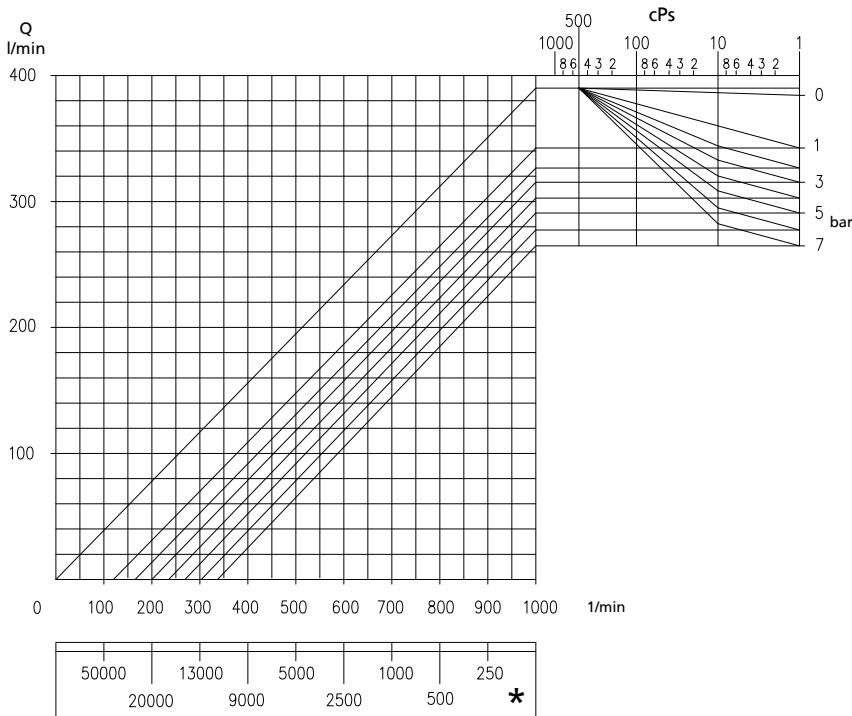
Total power = kW (1 cPs) x Fp

- 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

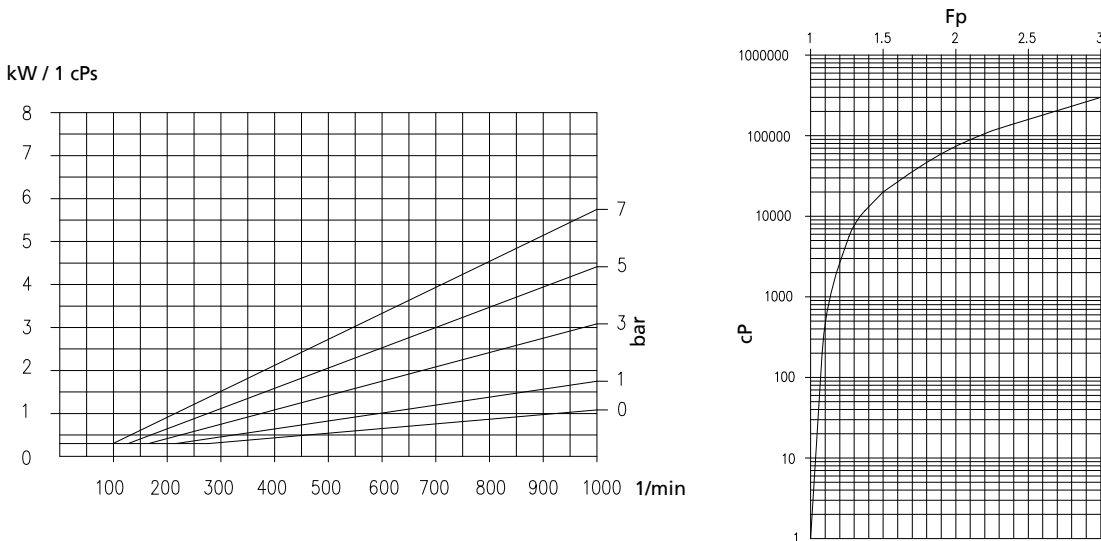
Characteristic curve Vitalobe 220 - tri-lobe rotor - clearance: standard

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



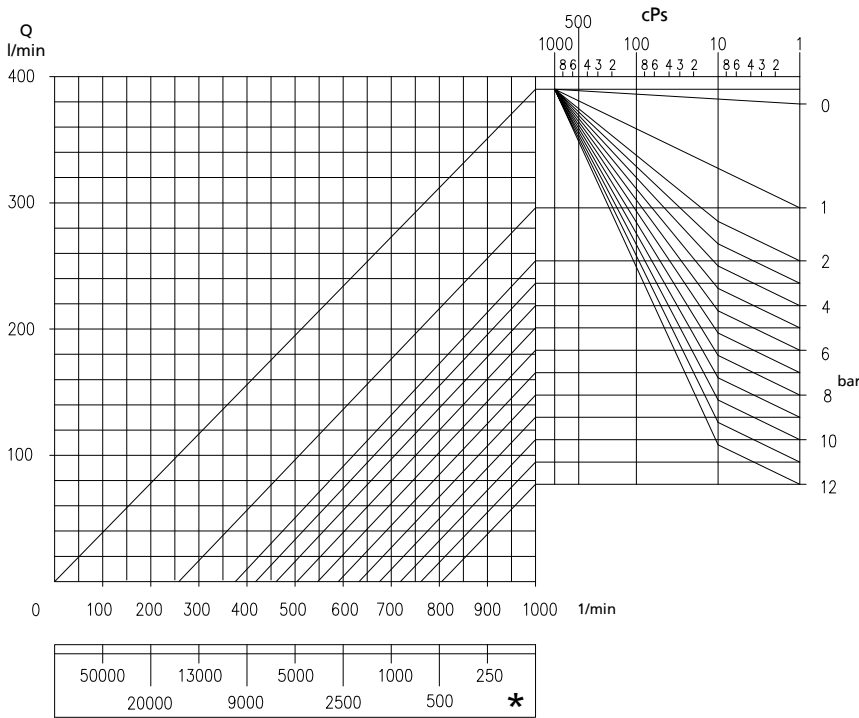
Total power = kW (1 cPs) x F_p

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

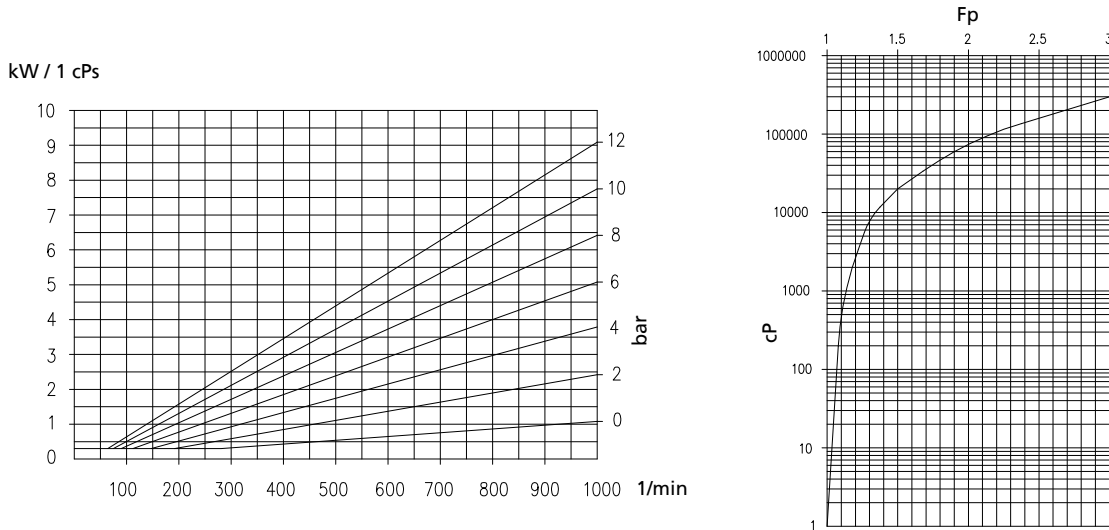
Characteristic curve Vitalobe 220 - tri-lobe rotor - clearance: enlarged

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



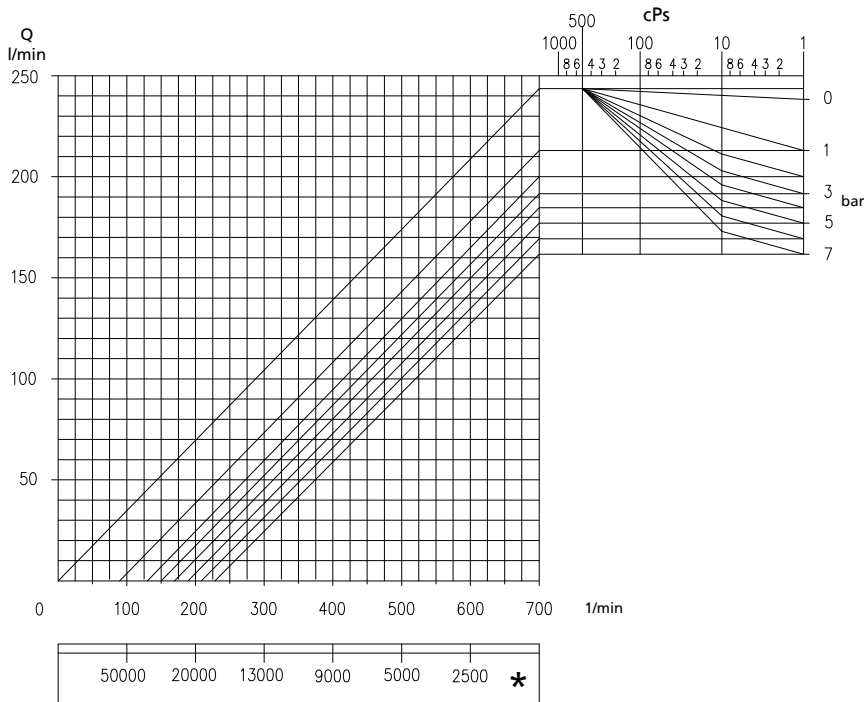
Total power = kW (1 cPs) x F_p

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

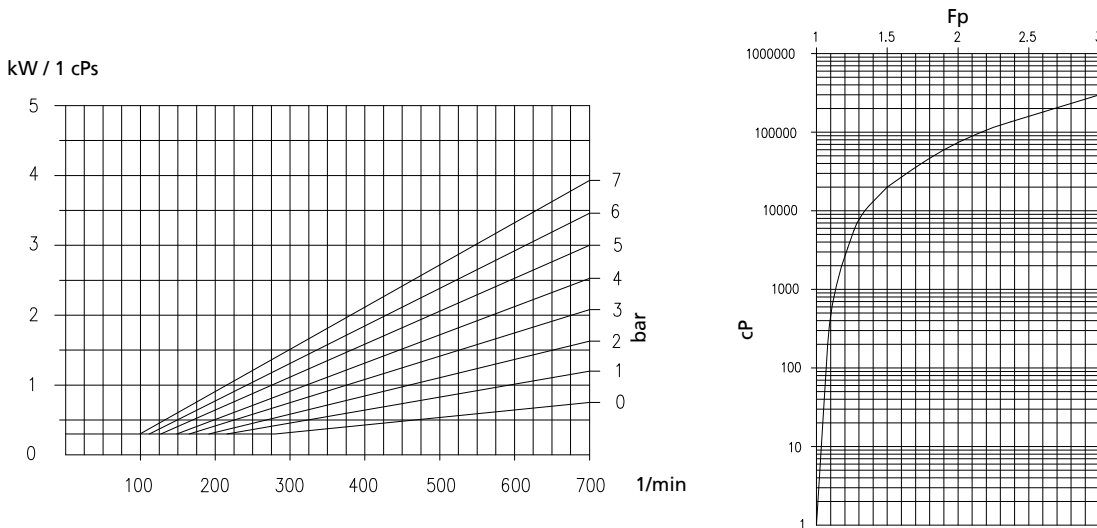
Characteristic curve Vitalobe 220 - bi-wing rotor - clearance: standard

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



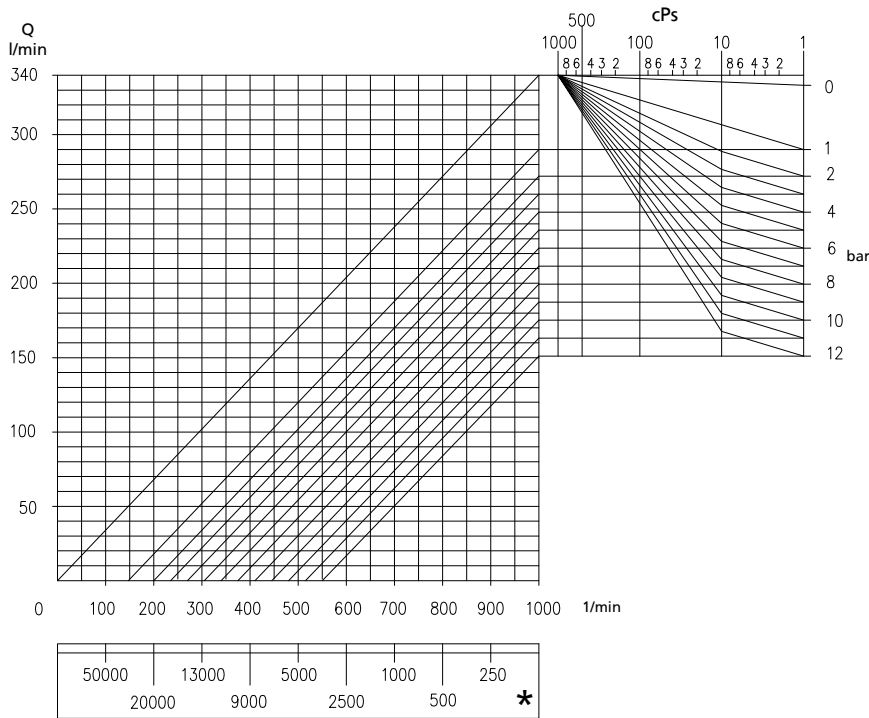
Total power = kW (1 cPs) x F_p

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

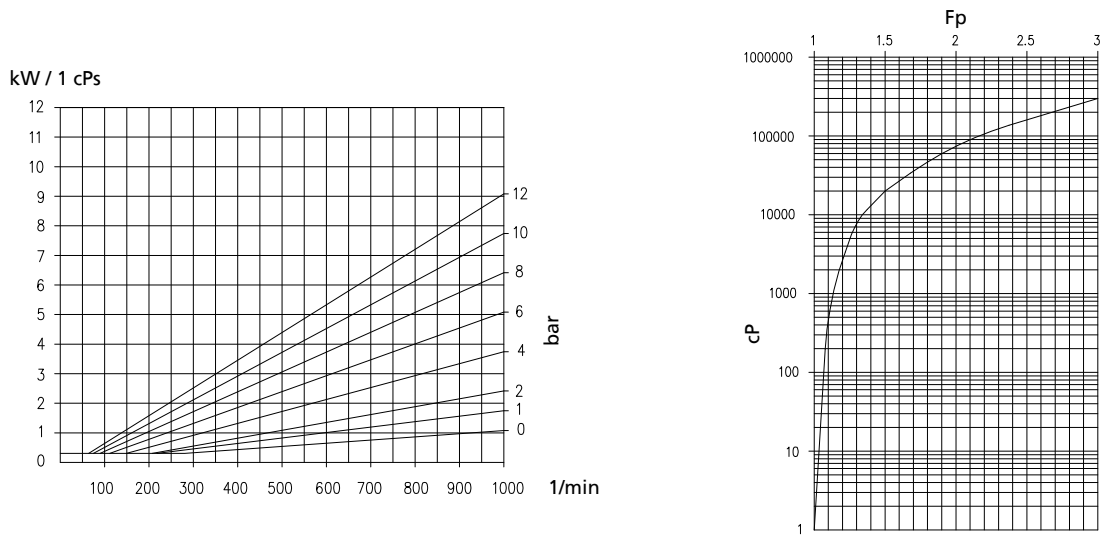
Characteristic curve Vitalobe 220 - bi-wing rotor - clearance: enlarged

Flow rate: 0.34 l/rotation ²²⁾



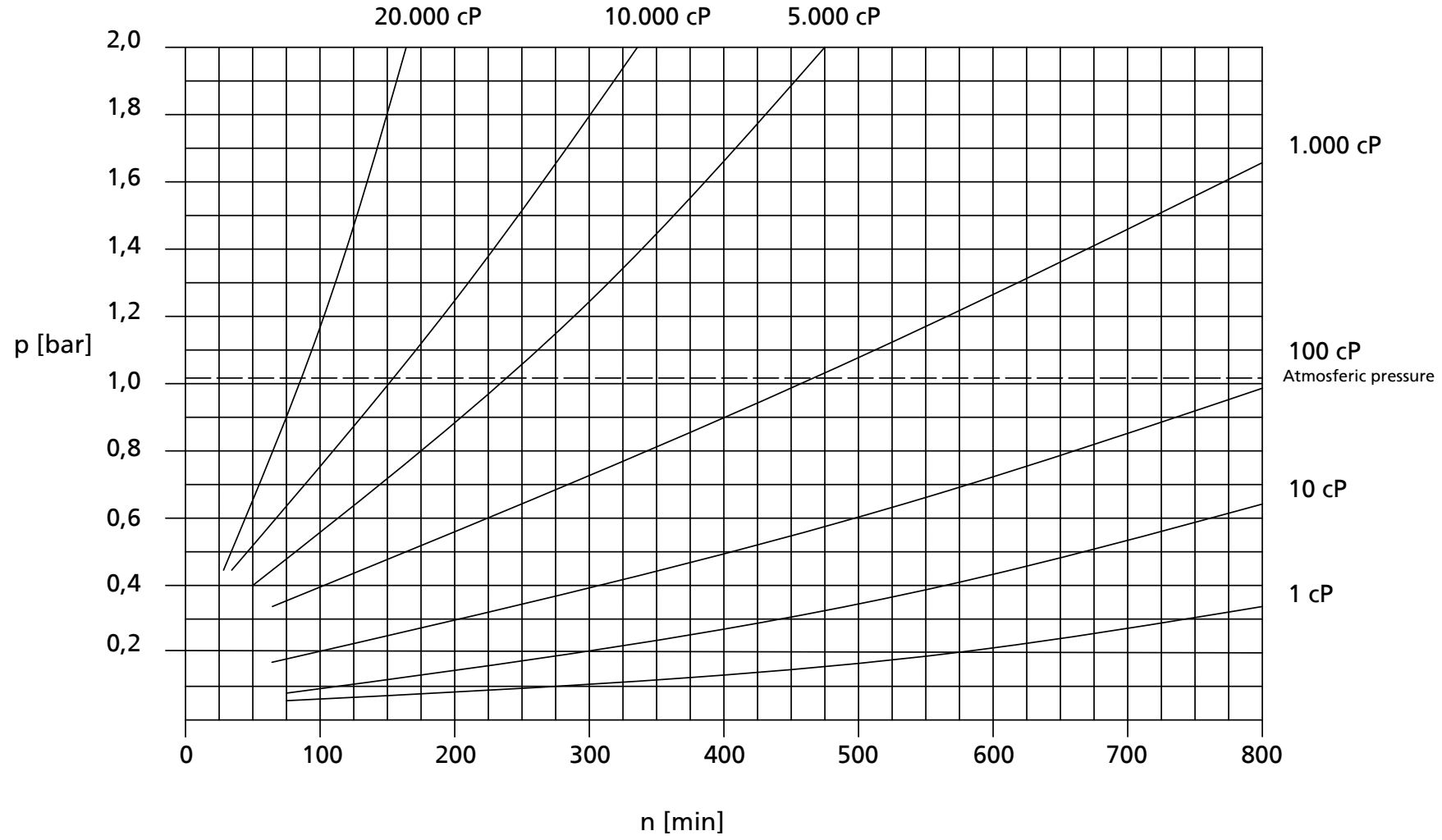
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 50 mm
Standard nominal nozzle diameter DN 50
Max. speed at 1 cPs = 1000 rpm
It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x Fp

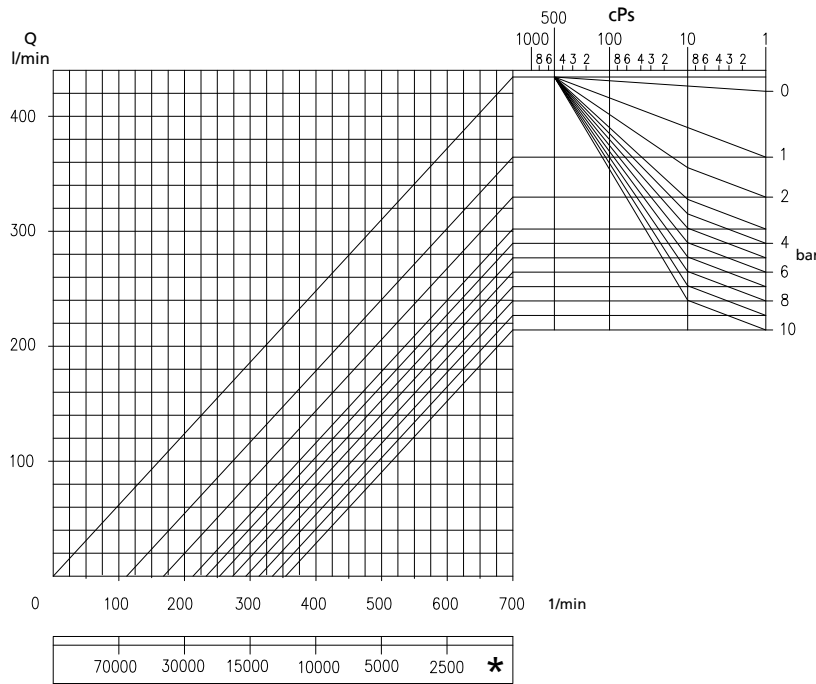
NPSH curve Vitalobe 220



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

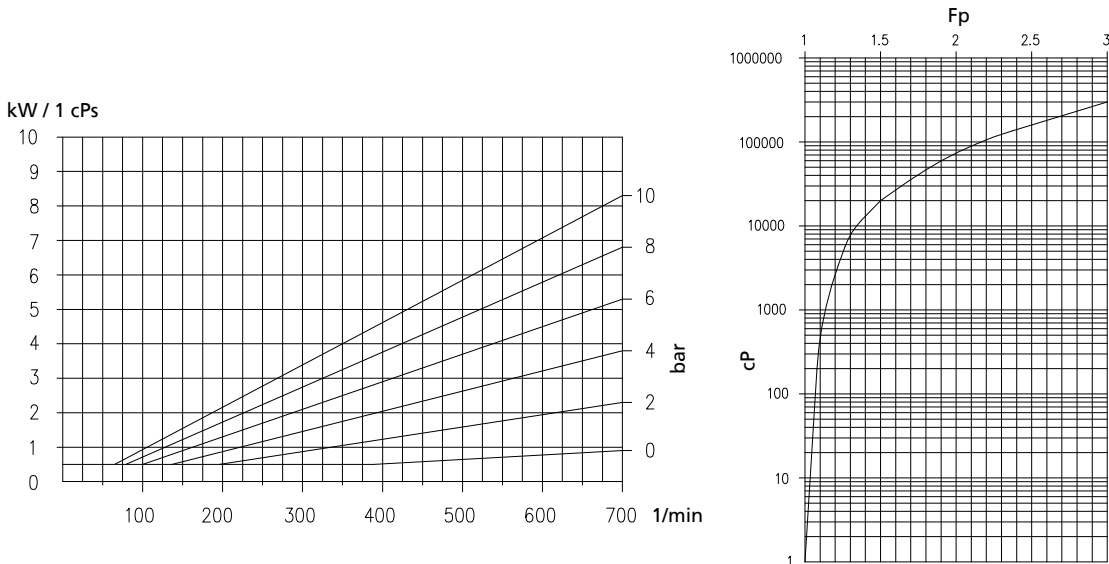
Characteristic curve Vitalobe 325 - bi-lobe rotor - clearance: standard

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



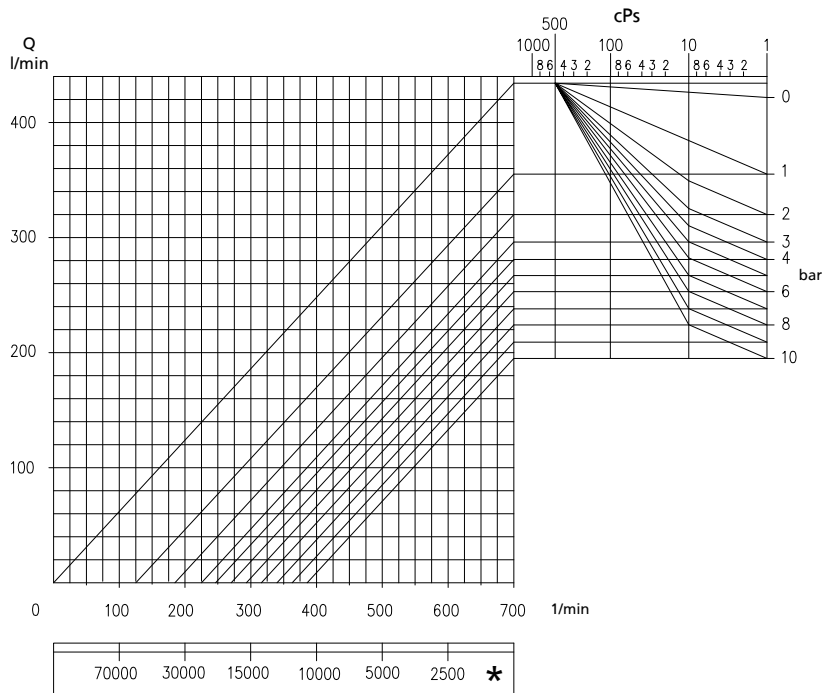
Total power = kW (1 cPs) x F_p

23) The characteristic curves shown are 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

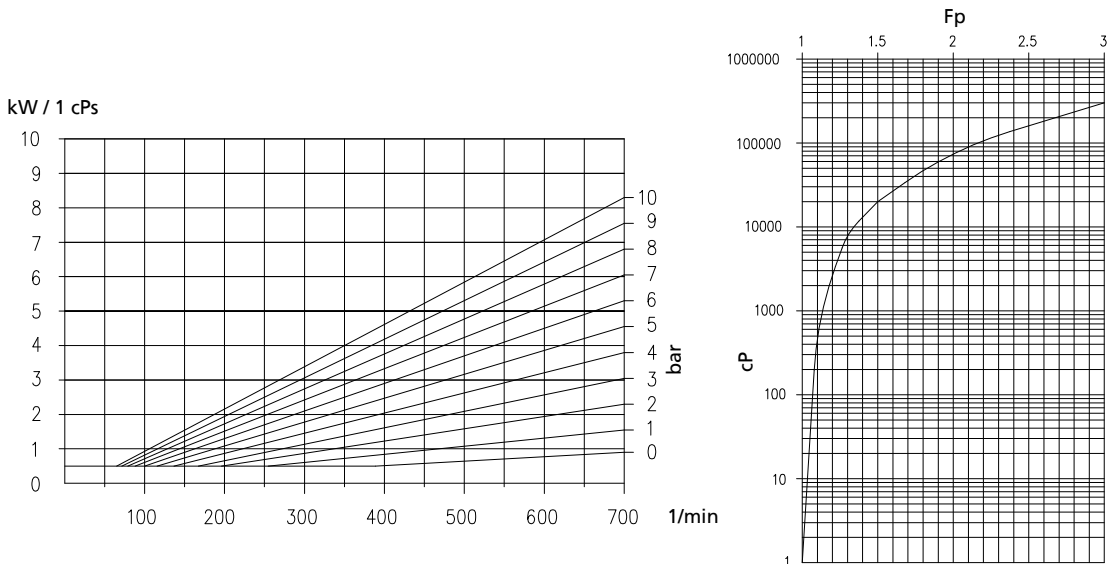
Characteristic curve Vitalobe 325 - tri-lobe rotor - clearance: standard

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



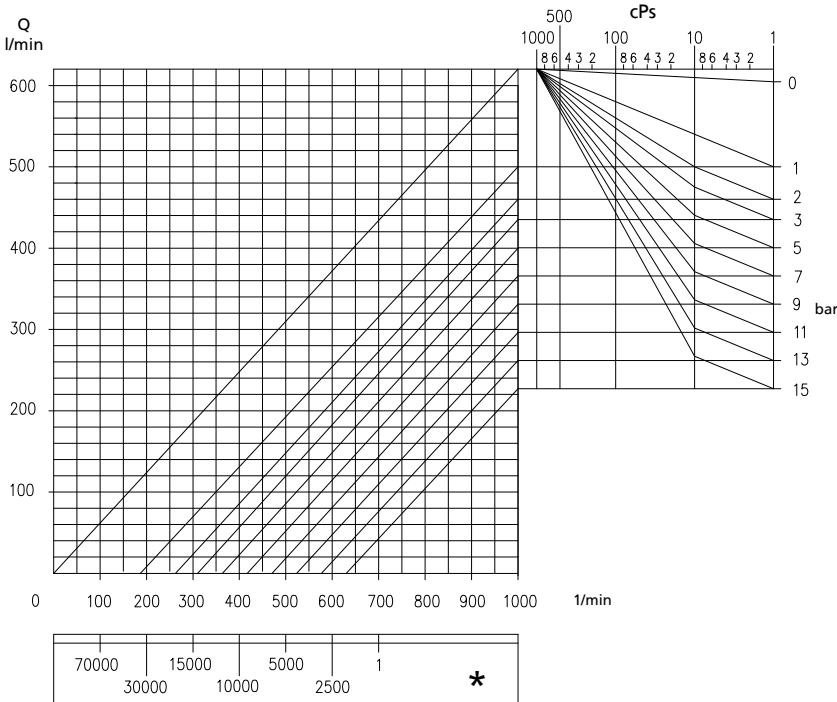
Total power = kW (1 cPs) x F_p

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

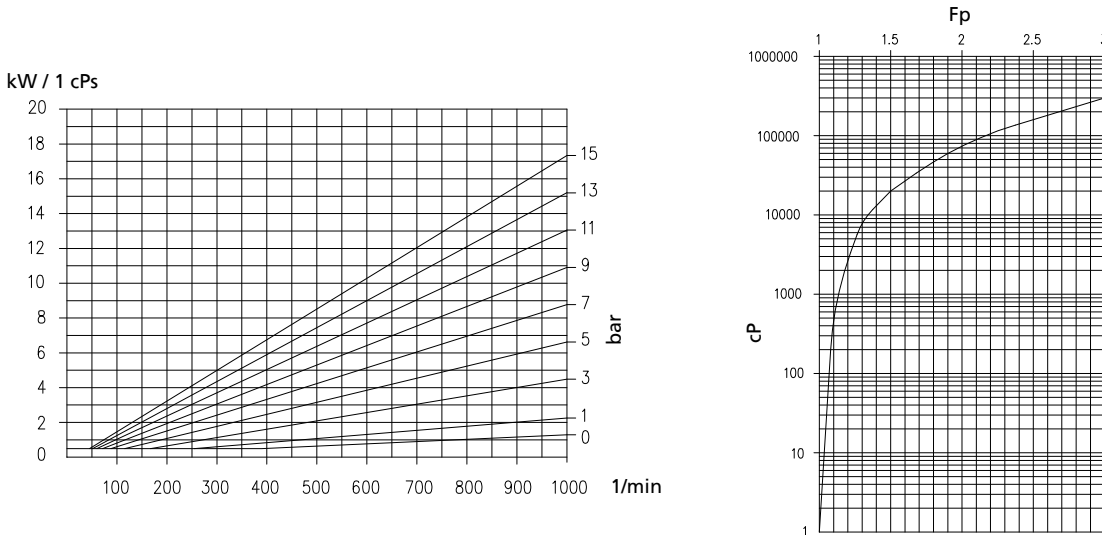
Characteristic curve Vitalobe 325 - tri-lobe rotor - clearance: enlarged

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



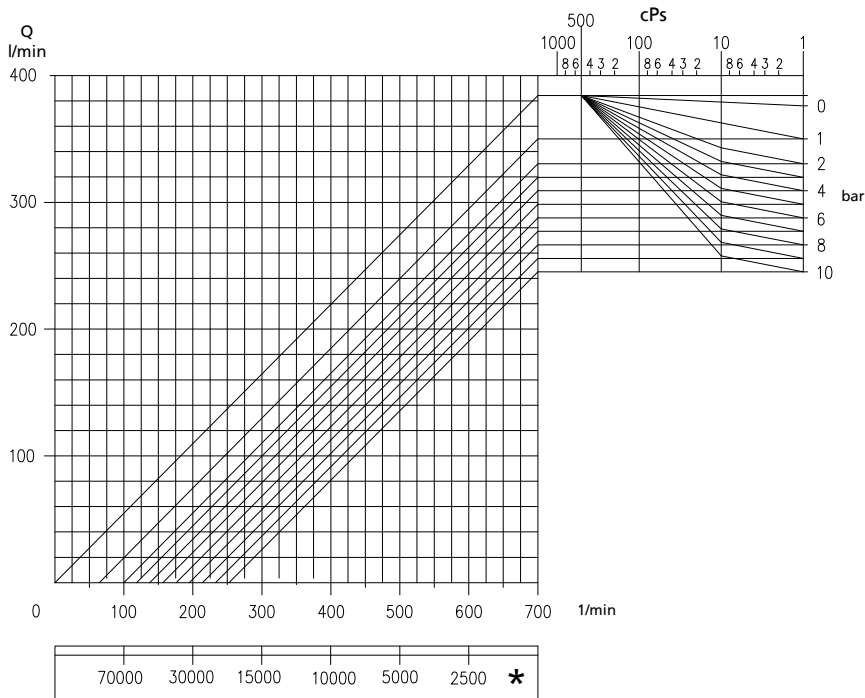
Total power = kW (1 cPs) x F_p

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

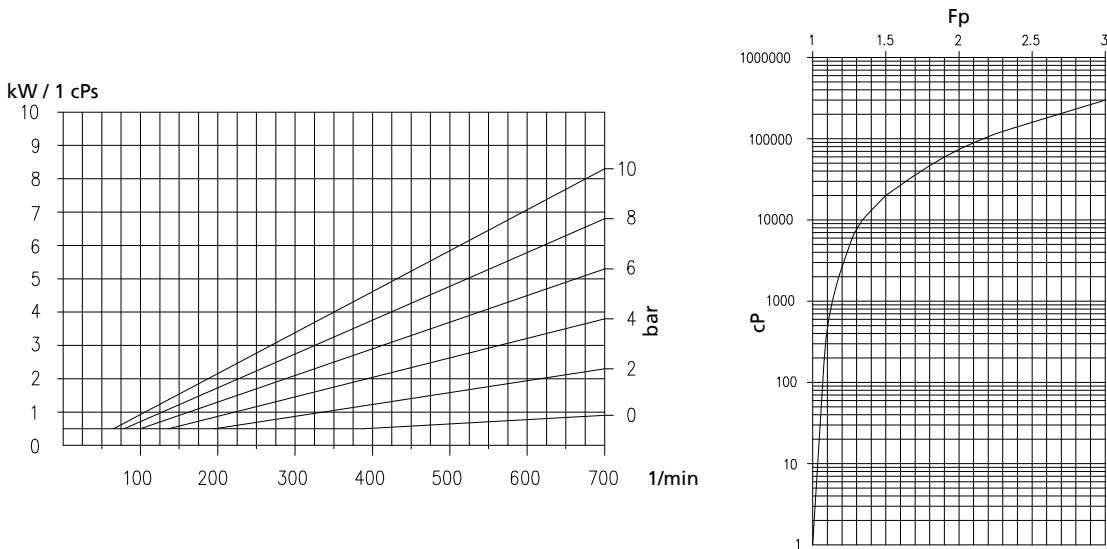
Characteristic curve Vitalobe 325 - bi-wing rotor - clearance: standard

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



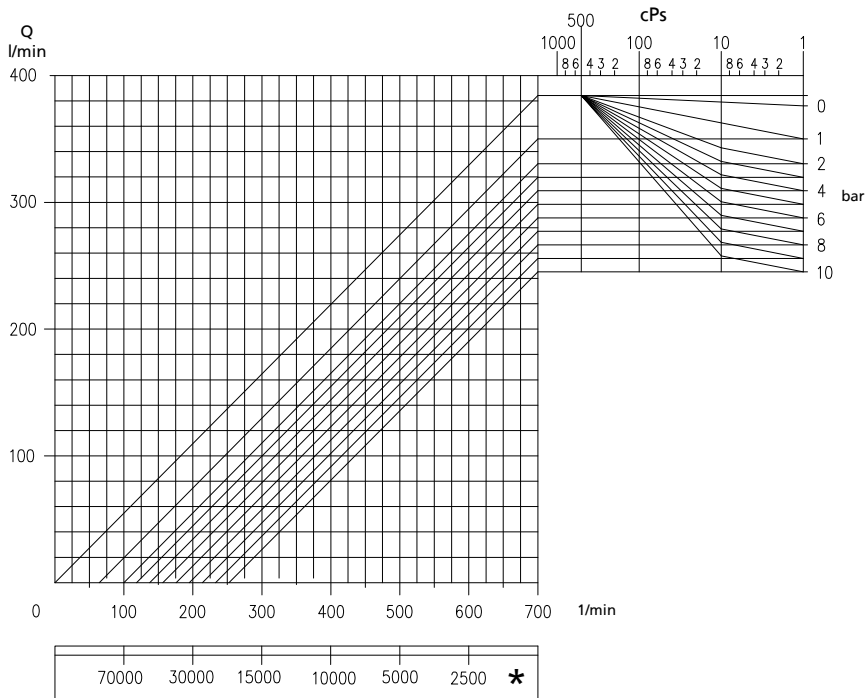
Total power = kW (1 cPs) x F_p

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

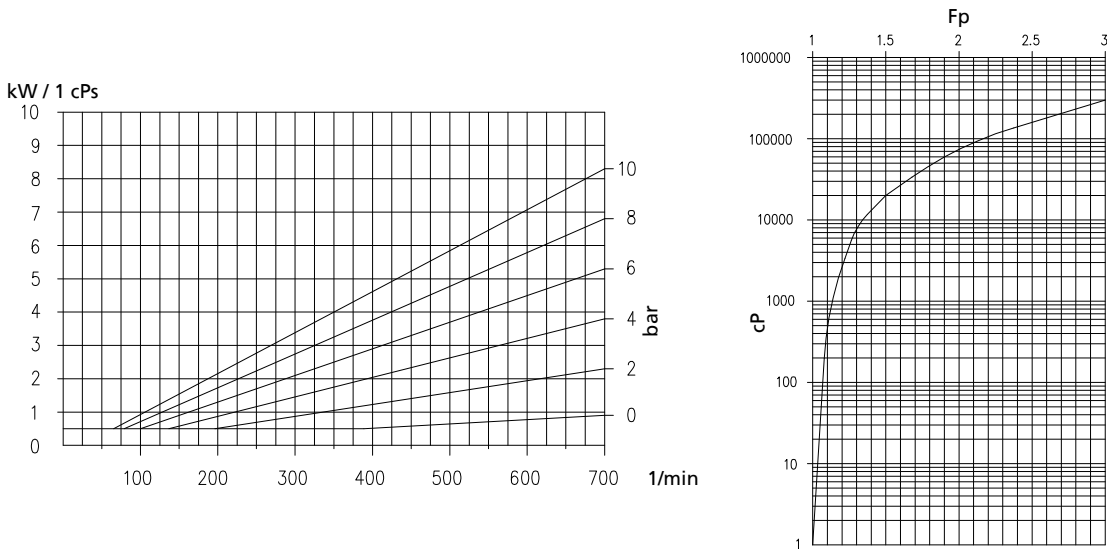
Characteristic curve Vitalobe 325 - bi-wing rotor - clearance: standard

Flow rate: 0.55 l/rotation ²⁷⁾



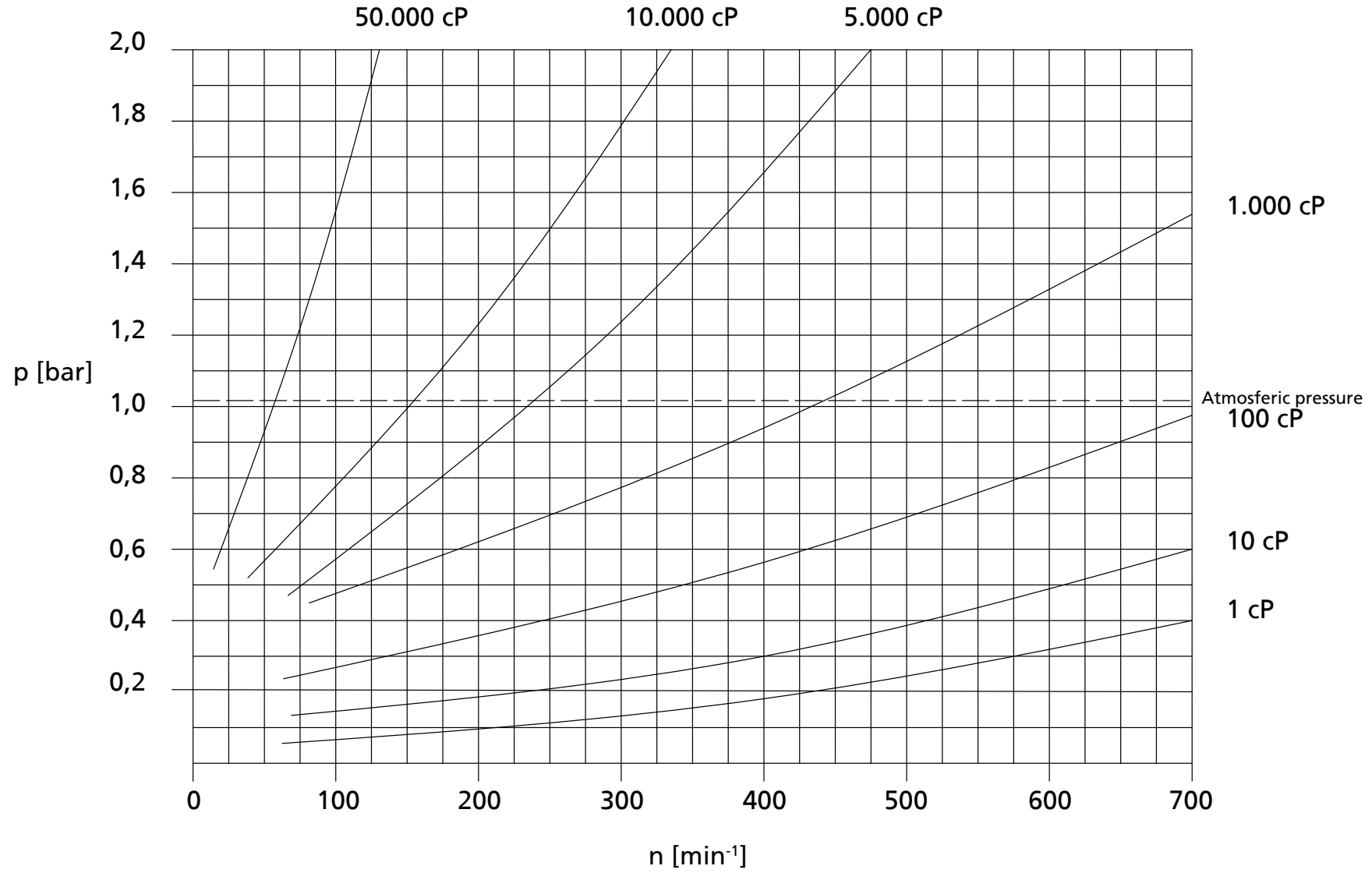
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 57 mm
 Standard nominal nozzle diameter DN 65
 Max. speed at 1 cPs = 700 rpm
 It is recommended not to use all maximum values at the same time.

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



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

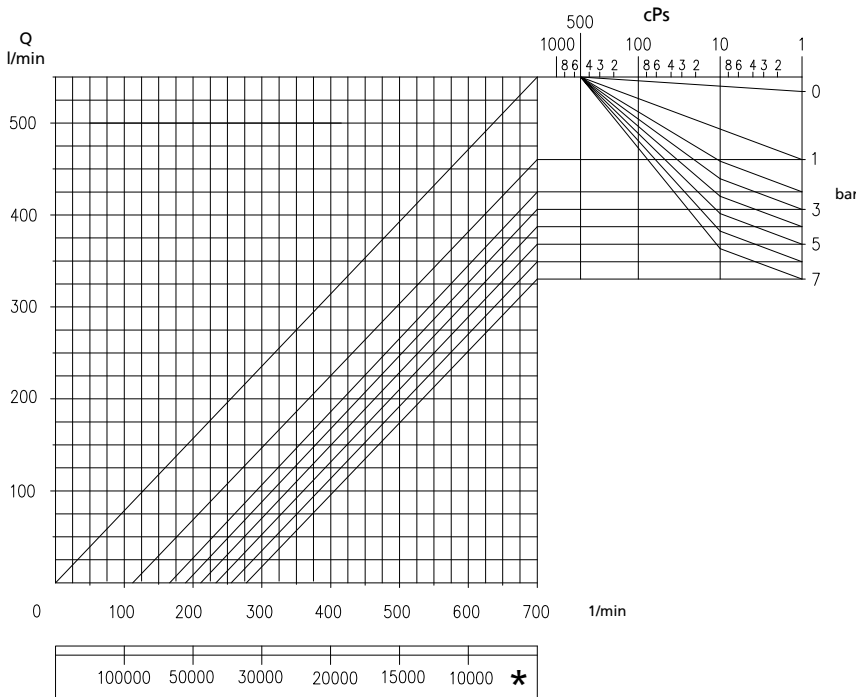
NPSH curve Vitalobe 325



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

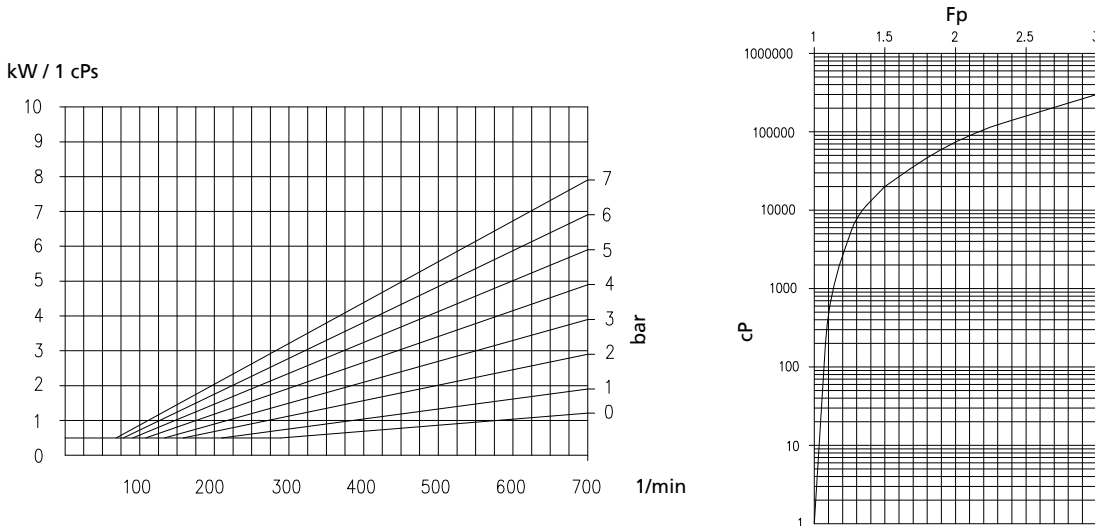
Characteristic curve Vitalobe 330 - bi-lobe rotor - clearance: standard

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



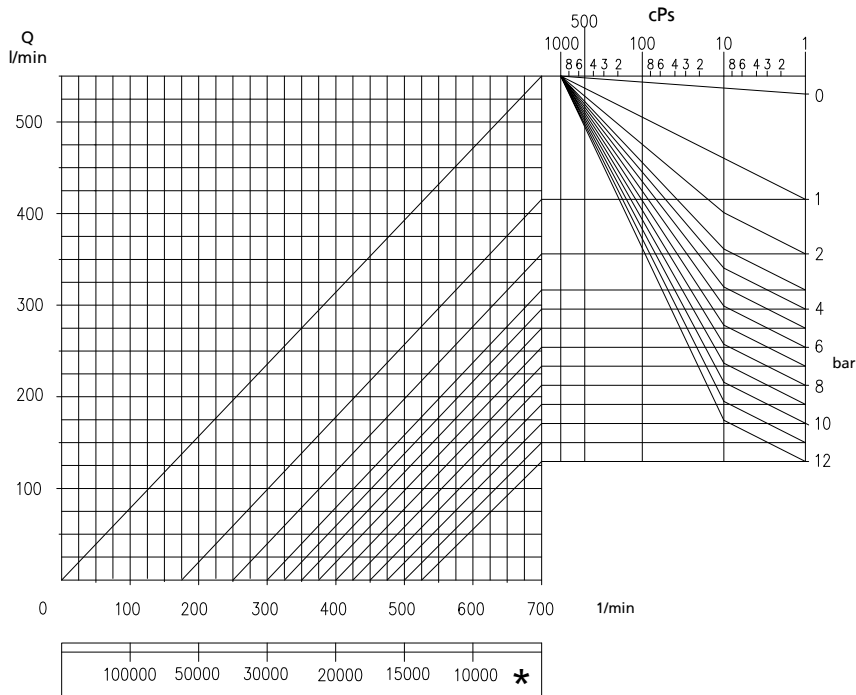
Total power = kW (1 cPs) x Fp

- 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

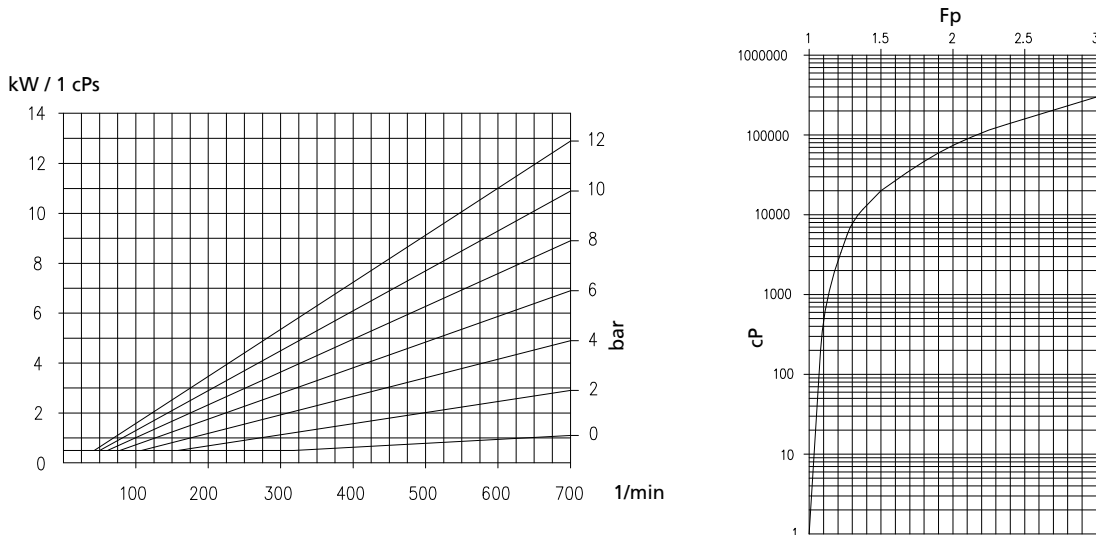
Characteristic curve Vitalobe 330 - bi-lobe rotor - clearance: enlarged

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



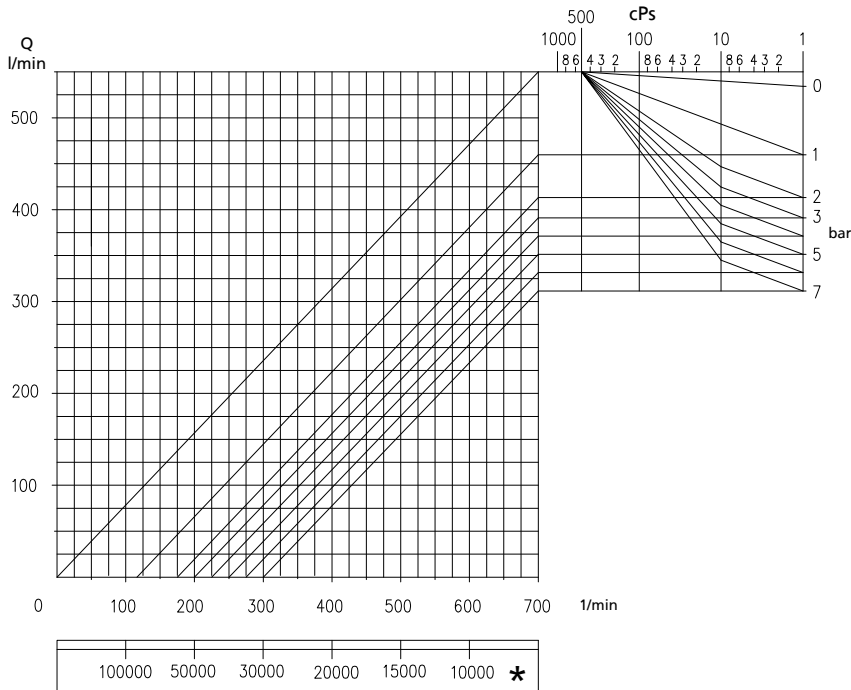
Total power = kW (1 cPs) x F_p

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

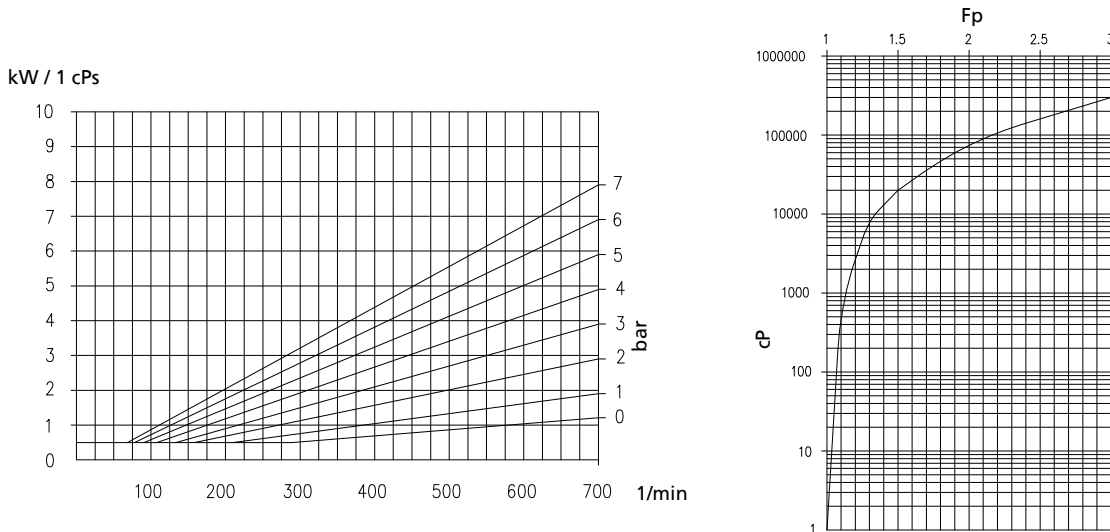
Characteristic curve Vitalobe 330 - tri-lobe rotor - clearance: standard

Flow rate: 0.79 l/rotation ³⁰⁾



* 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



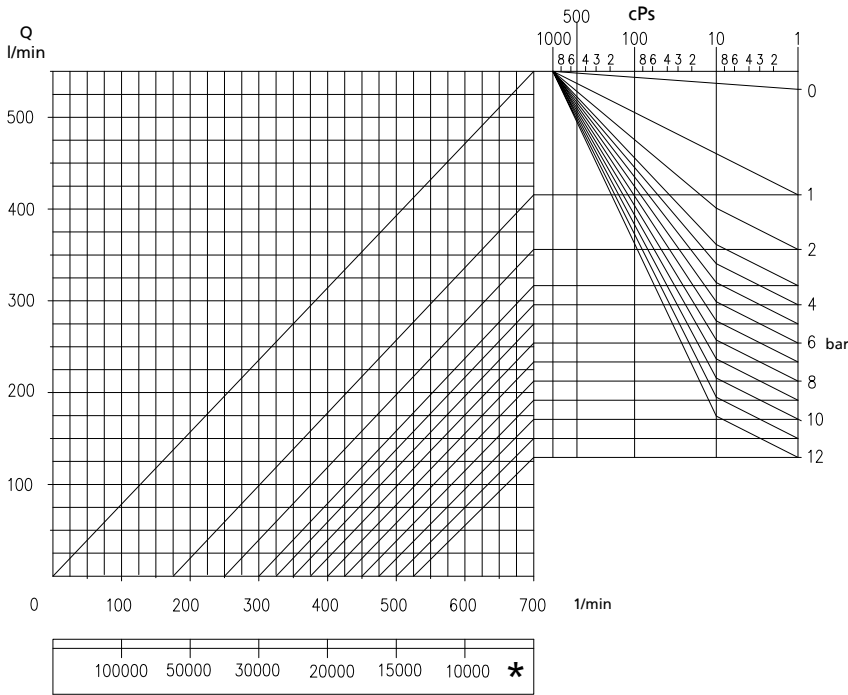
Total power = kW (1 cPs) x F_p

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

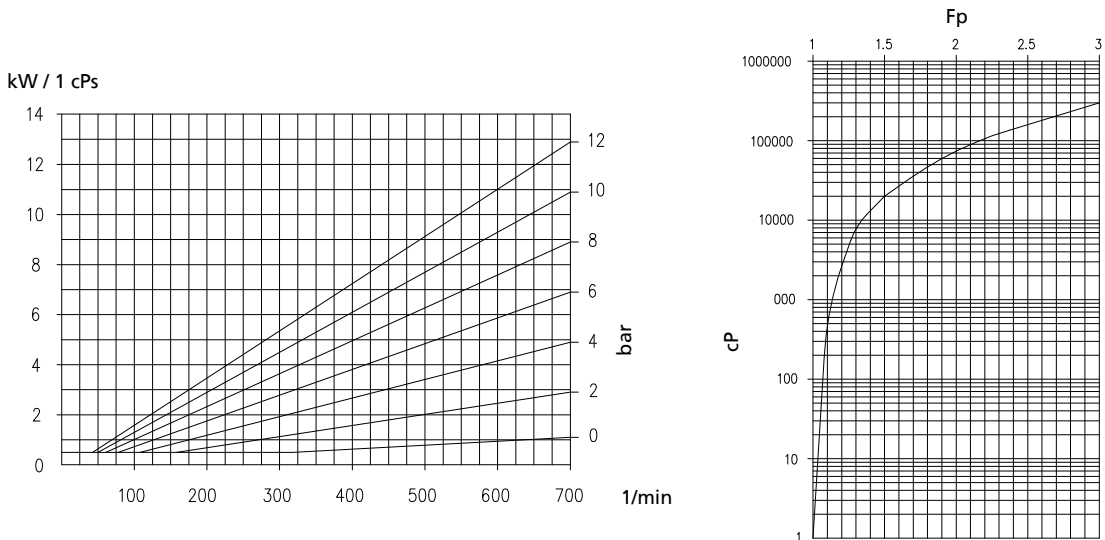
Characteristic curve Vitalobe 330 - tri-lobe rotor - clearance: enlarged

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



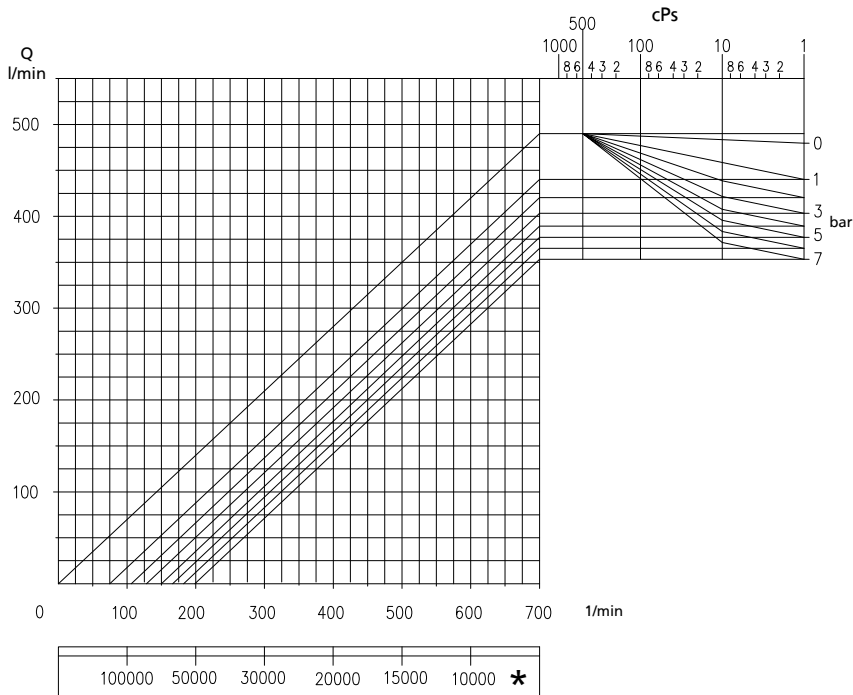
Total power = kW (1 cPs) x Fp

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

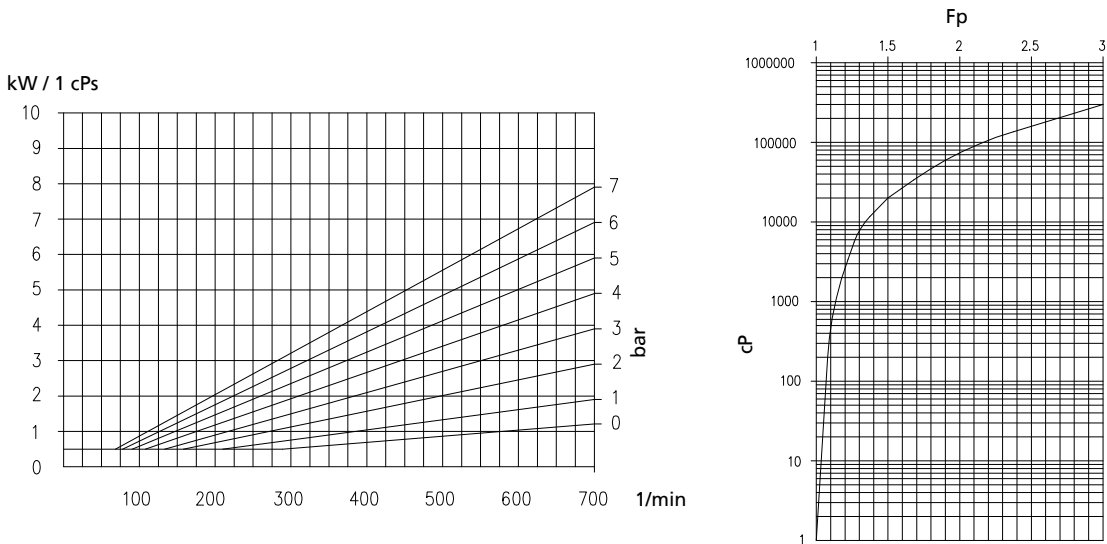
Characteristic curve Vitalobe 330 - bi-wing rotor - clearance: standard

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



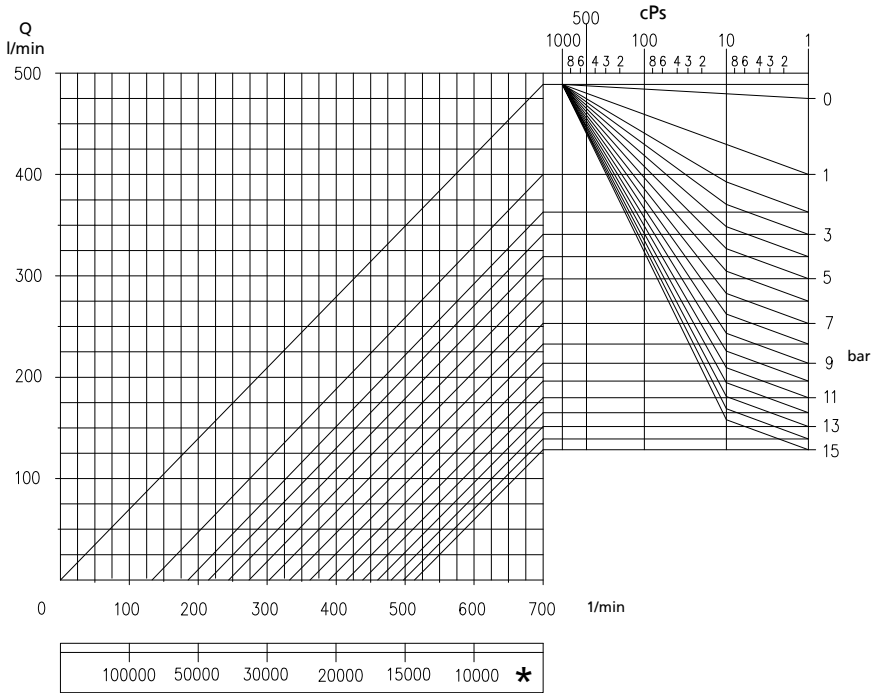
Total power = kW (1 cPs) x Fp

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

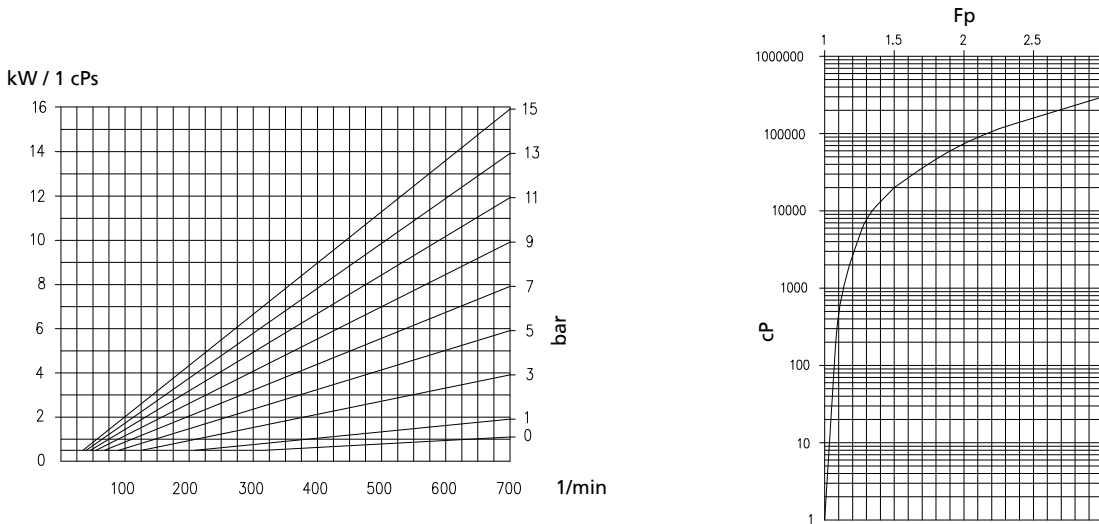
Characteristic curve Vitalobe 330 - bi-wing rotor - clearance: enlarged

Flow rate: 0.7 l/rotation ³³⁾



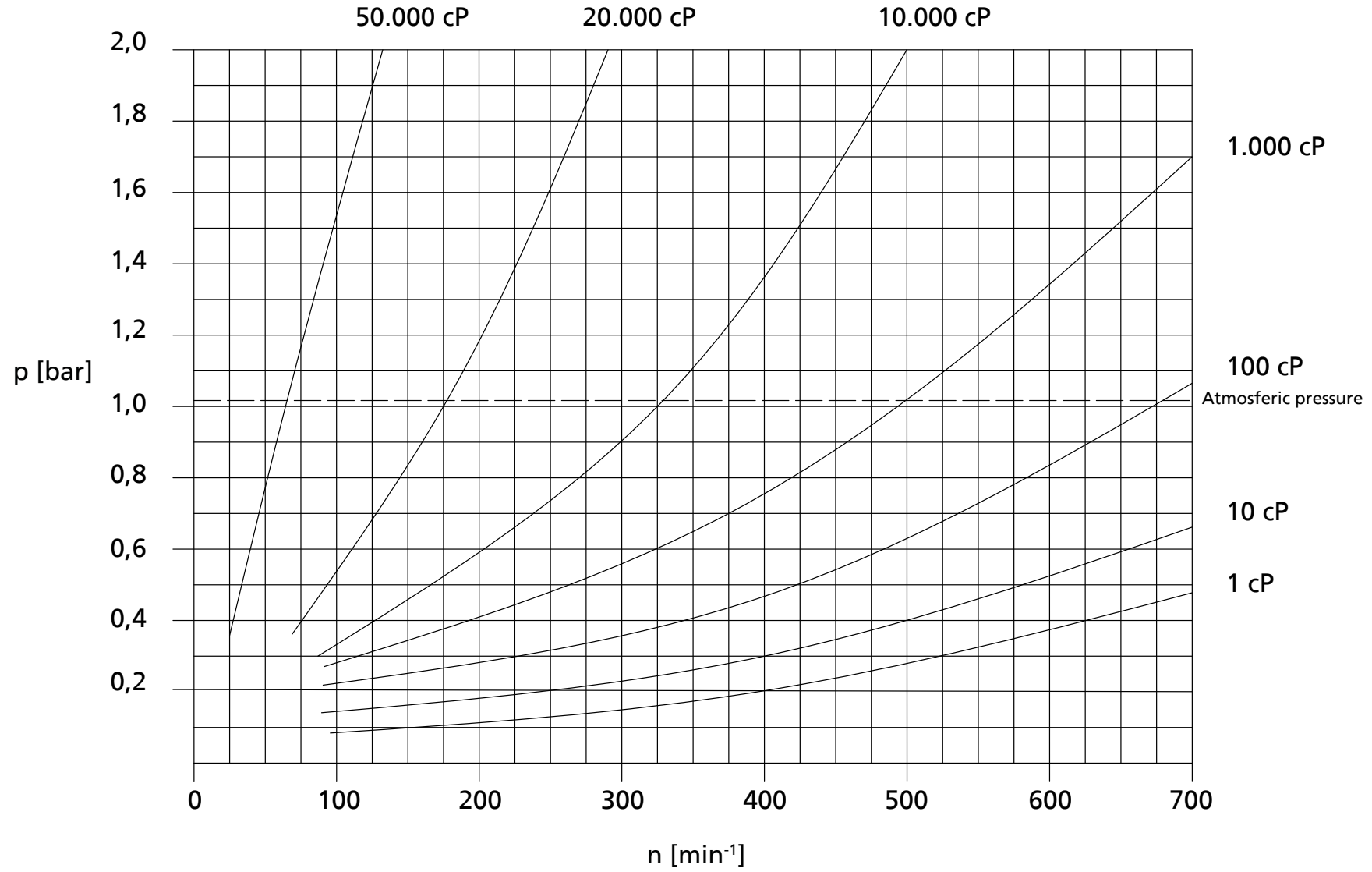
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 75 mm
 Standard nominal nozzle diameter DN 80
 Max. speed at 1 cPs = 700 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x Fp

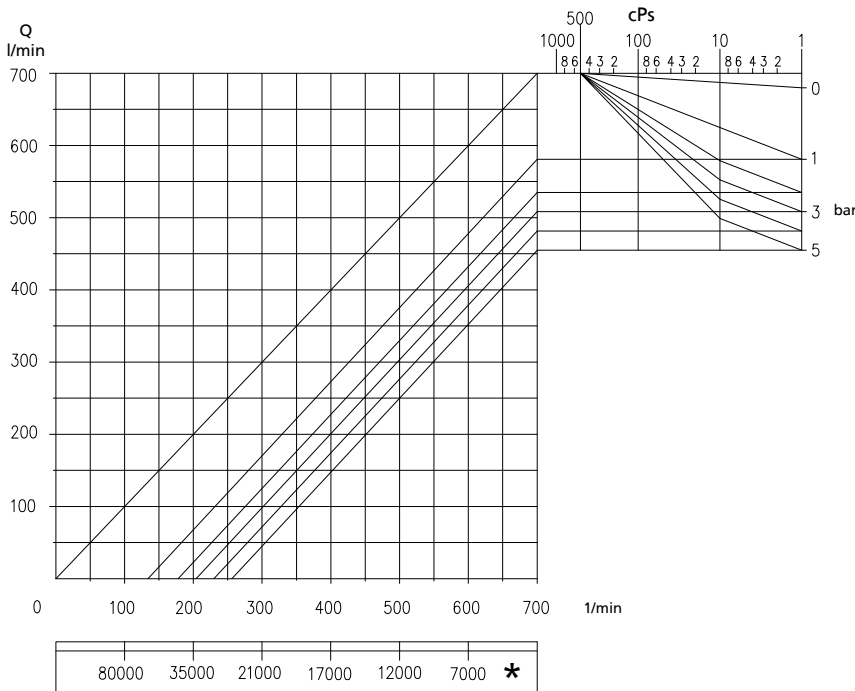
NPSH curve Vitalobe 330



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

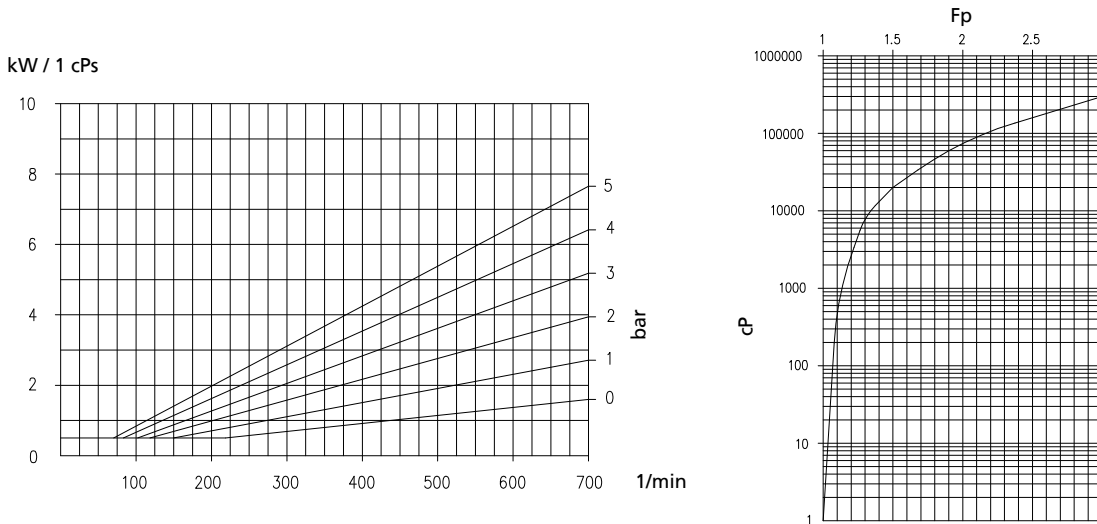
Characteristic curve Vitalobe 390 - bi-lobe rotor - clearance: standard

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



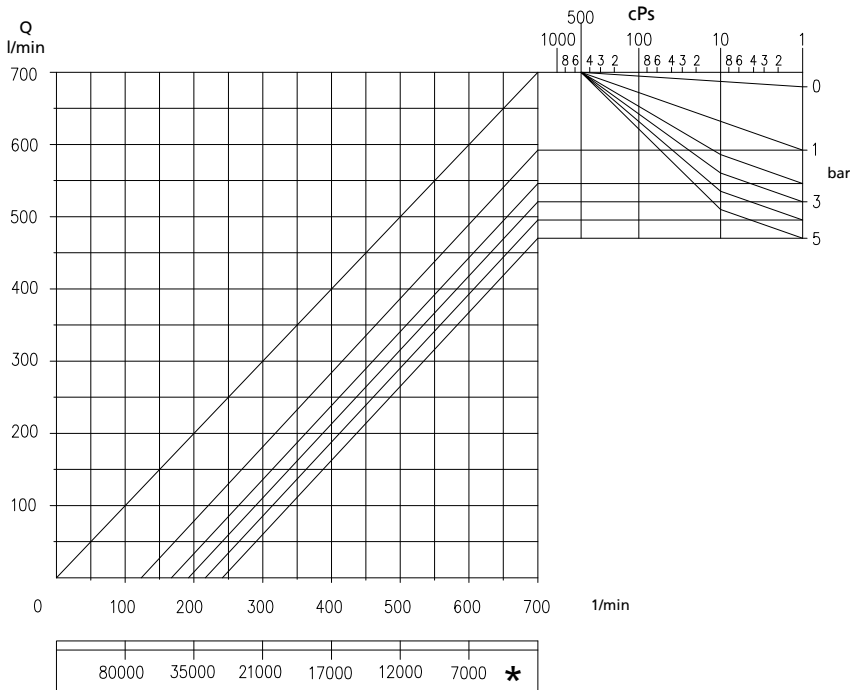
Total power = kW (1 cPs) x Fp

34) The characteristic curves shown are 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

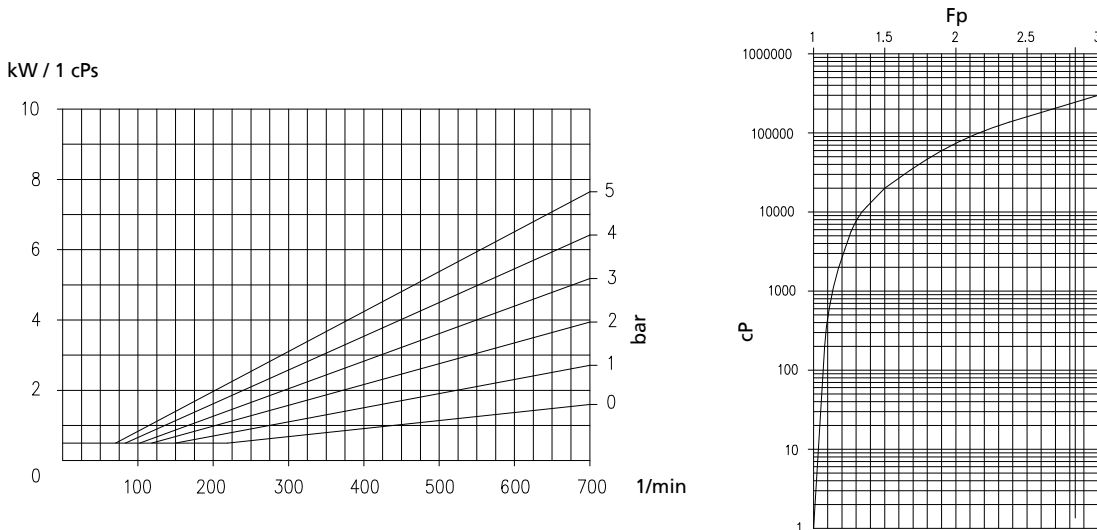
Characteristic curve Vitalobe 390 - tri-lobe rotor - clearance: standard

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



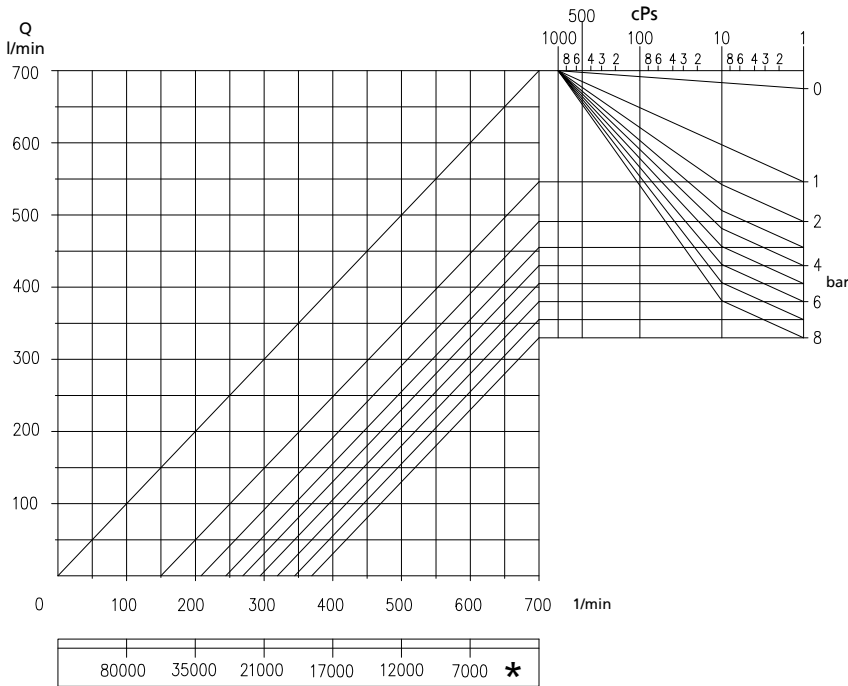
Total power = kW (1 cPs) x F_p

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

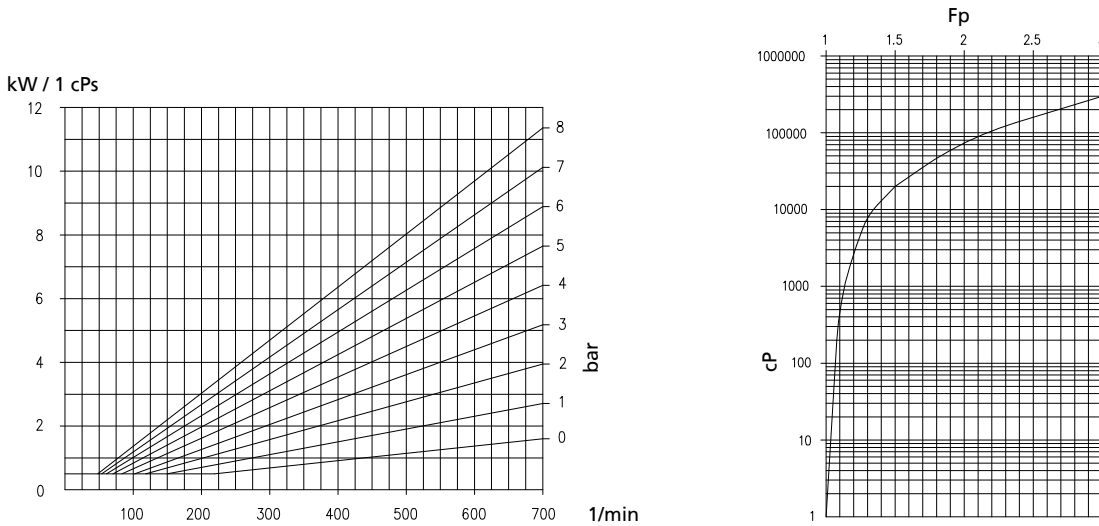
Characteristic curve Vitalobe 390 - tri-lobe rotor - clearance: enlarged

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



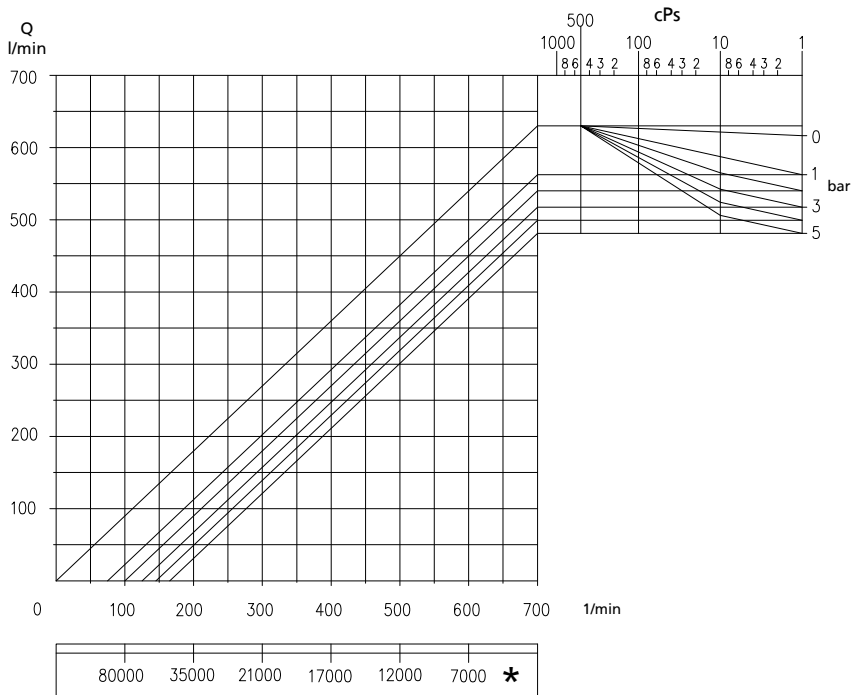
Total power = kW (1 cPs) x Fp

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

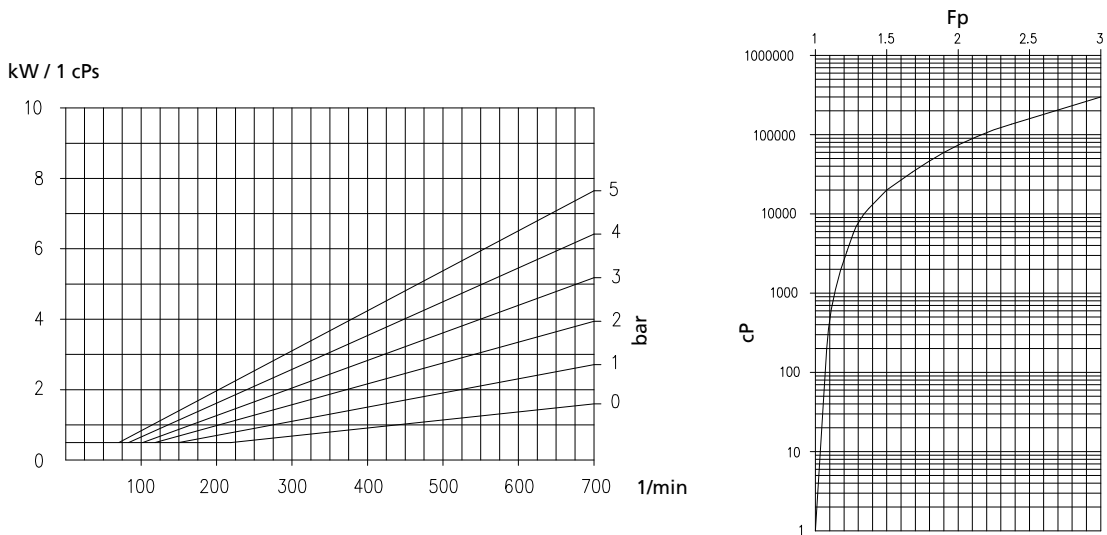
Characteristic curve Vitalobe 390 - bi-wing rotor - clearance: standard

Flow rate: 0.9 l/rotation ³⁷⁾



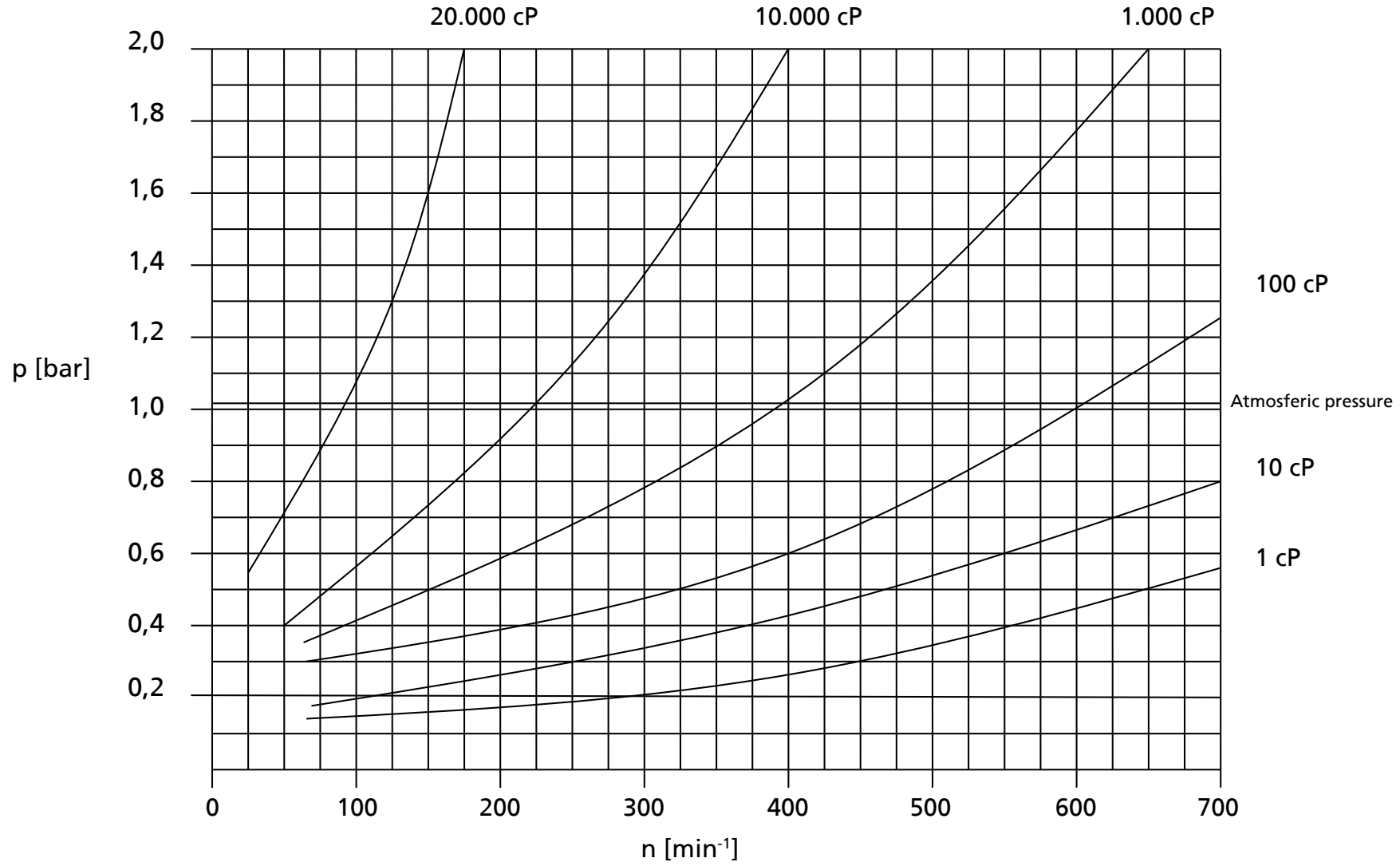
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 75 mm
 Standard nominal nozzle diameter DN 80
 Max. speed at 1 cPs = 700 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x F_p

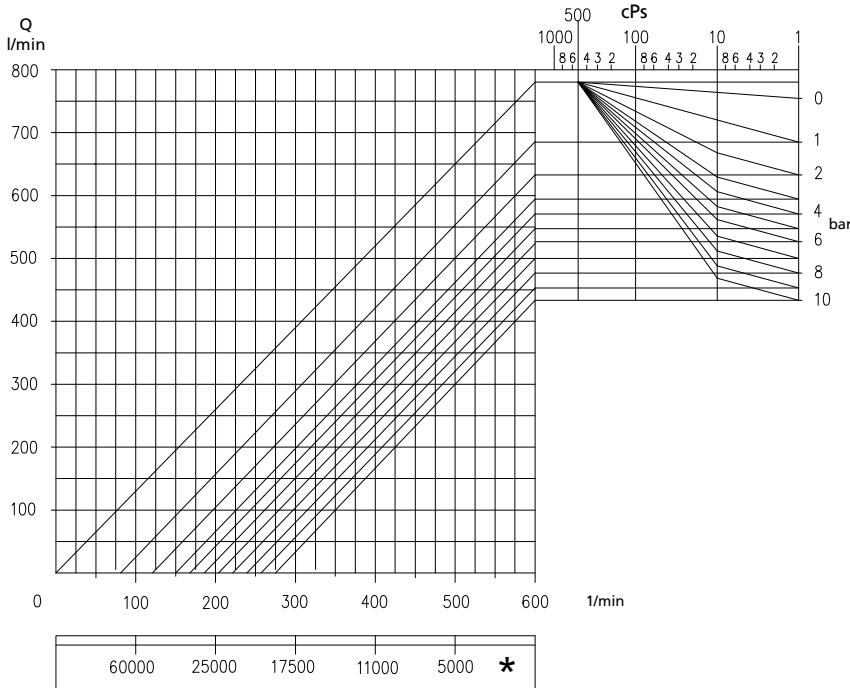
NPSH curve Vitalobe 390



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

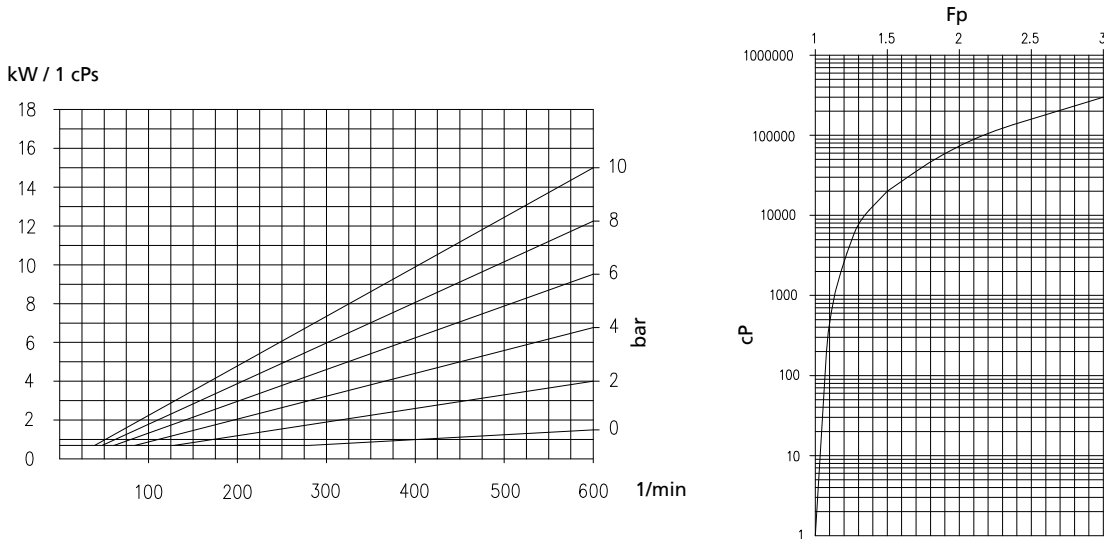
Characteristic curve Vitalobe 430 - bi-lobe rotor - clearance: standard

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



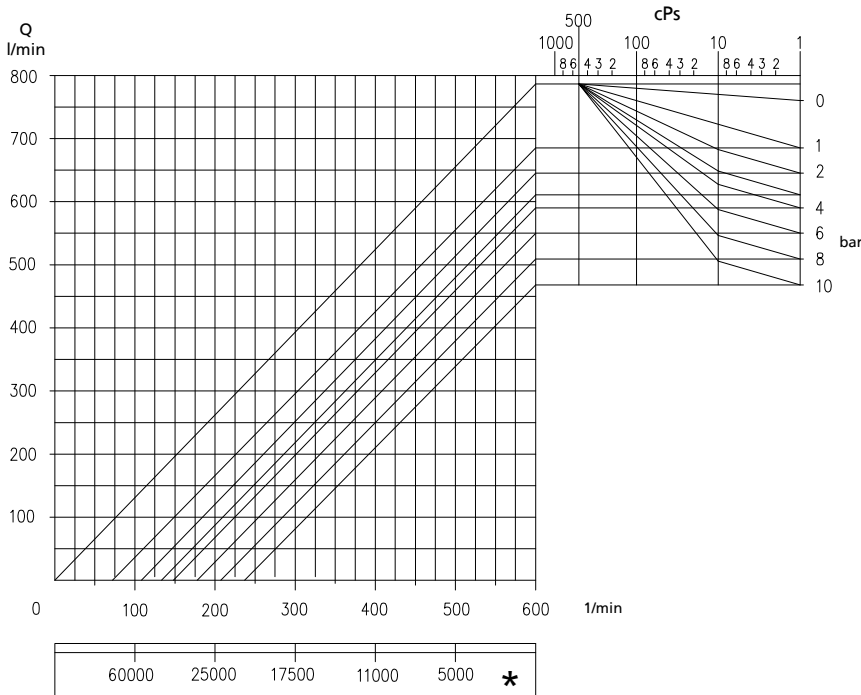
Total power = kW (1 cPs) x Fp

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

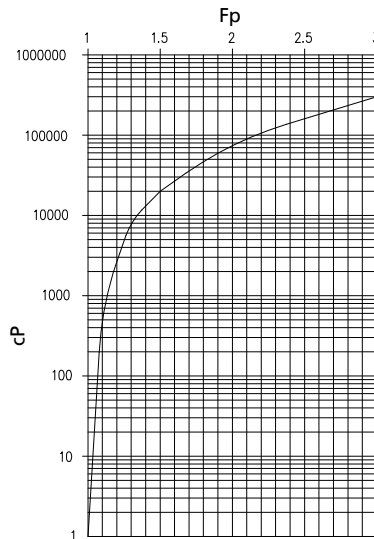
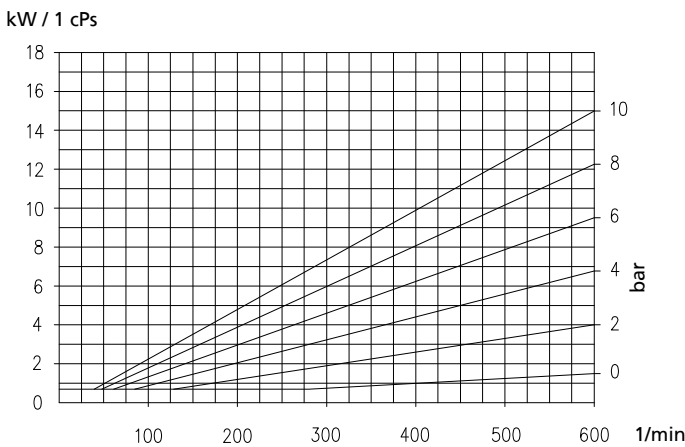
Characteristic curve Vitalobe 430 - tri-lobe rotor - clearance: standard

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



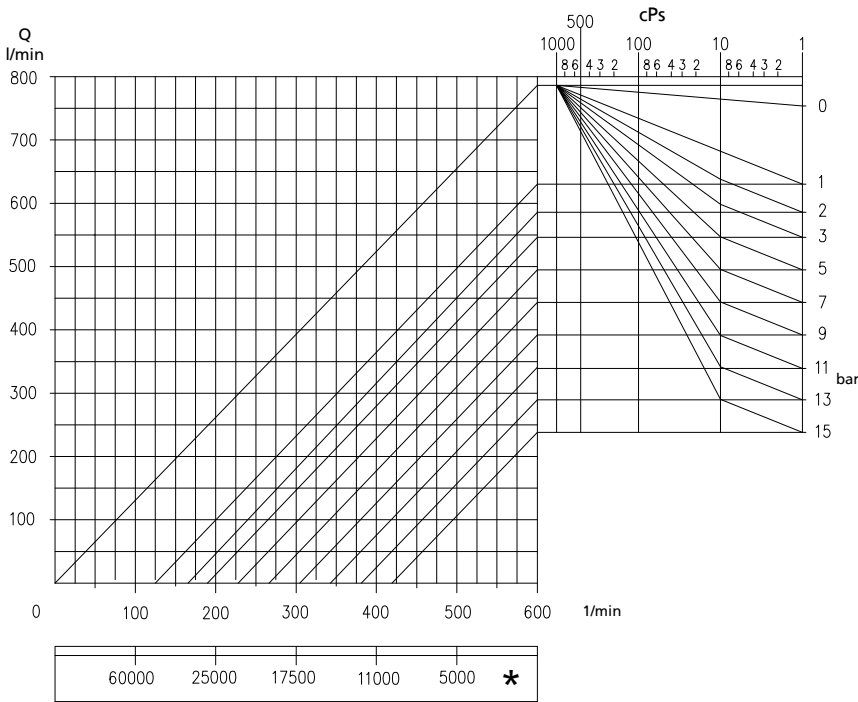
Total power = kW (1 cPs) x Fp

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

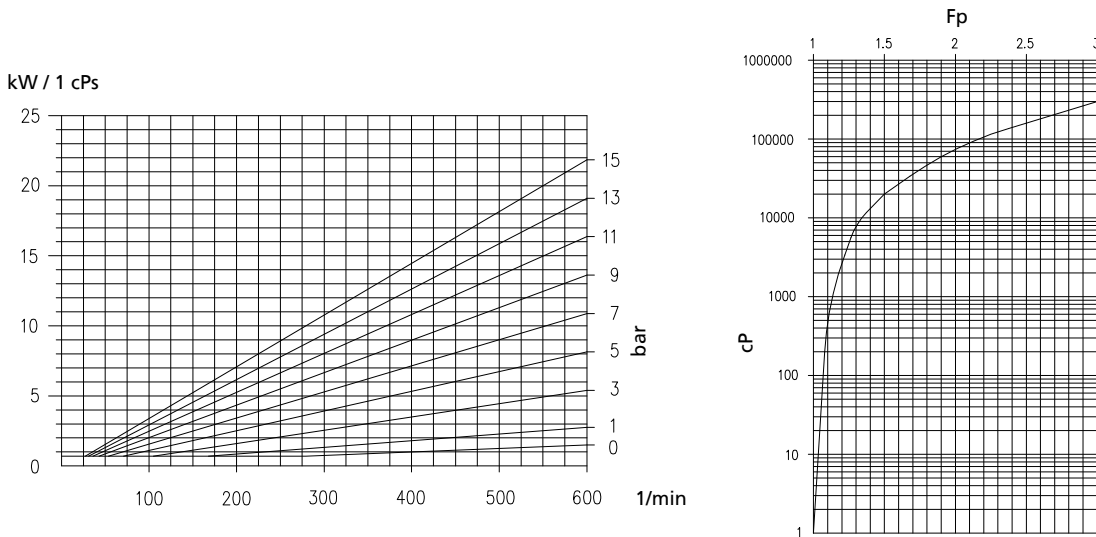
Characteristic curve Vitalobe 430 - tri-lobe rotor - clearance: enlarged

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



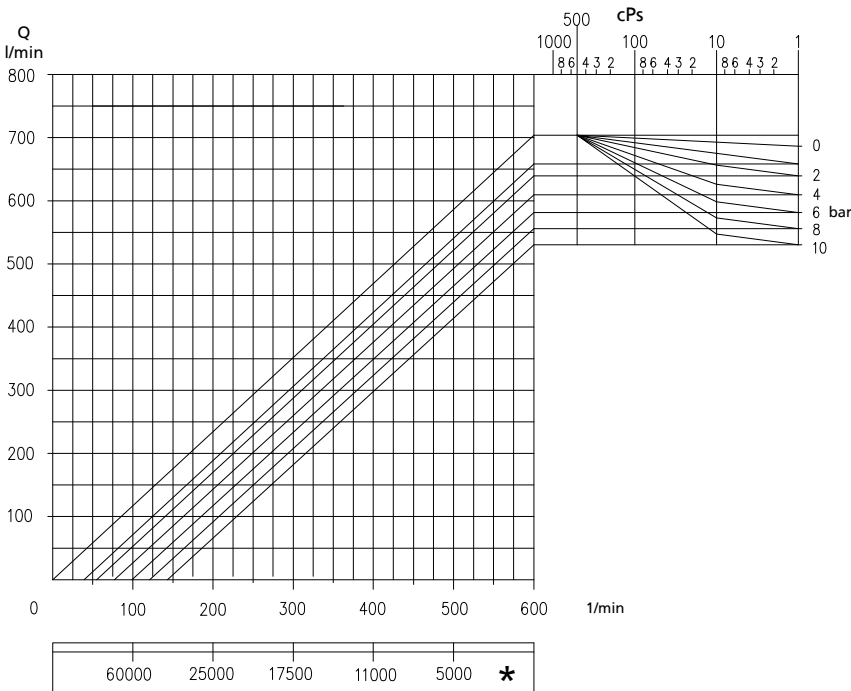
Total power = kW (1 cPs) x Fp

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

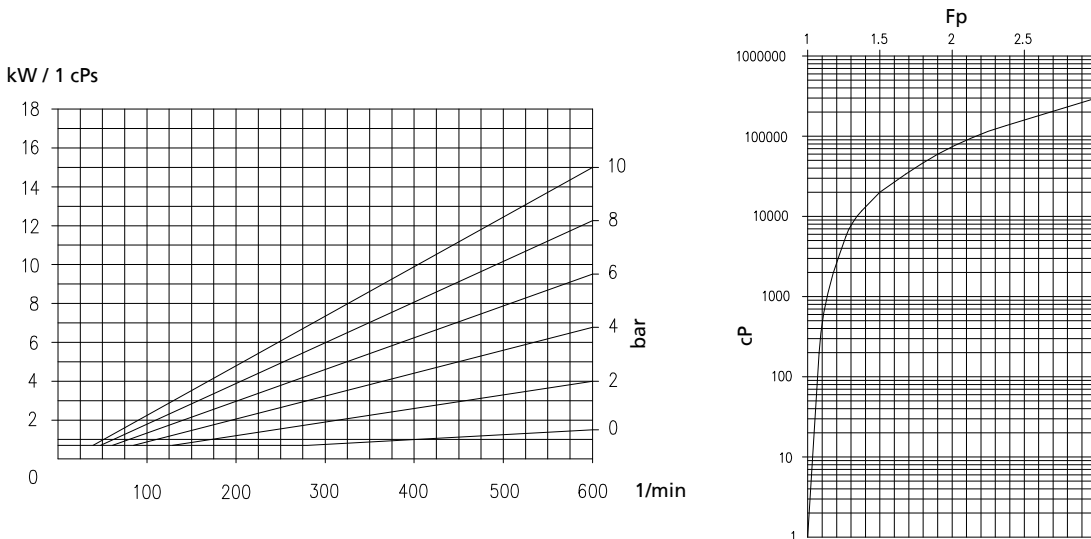
Characteristic curve Vitalobe 430 - bi-wing rotor - clearance: standard

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



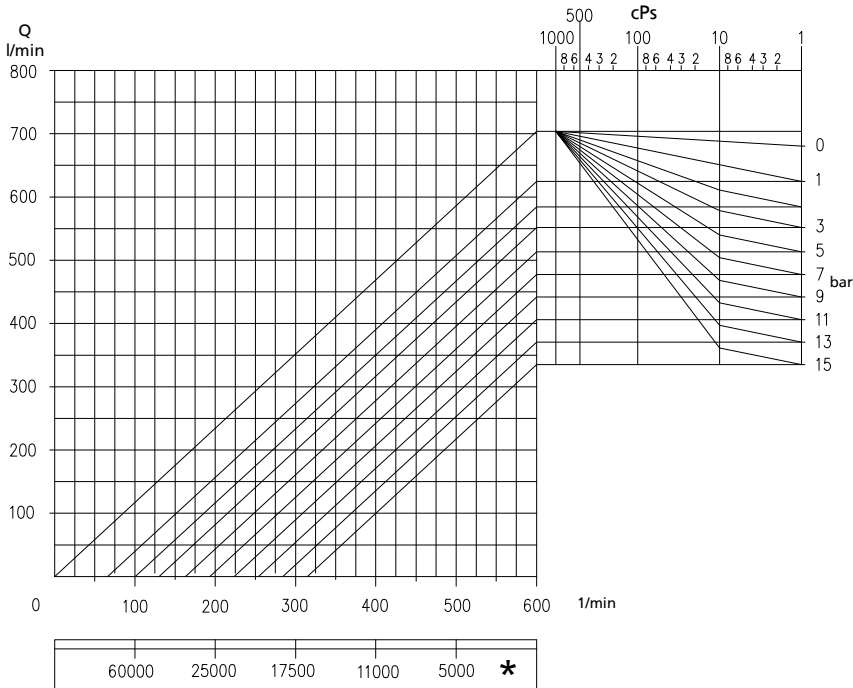
Total power = kW (1 cPs) x Fp

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

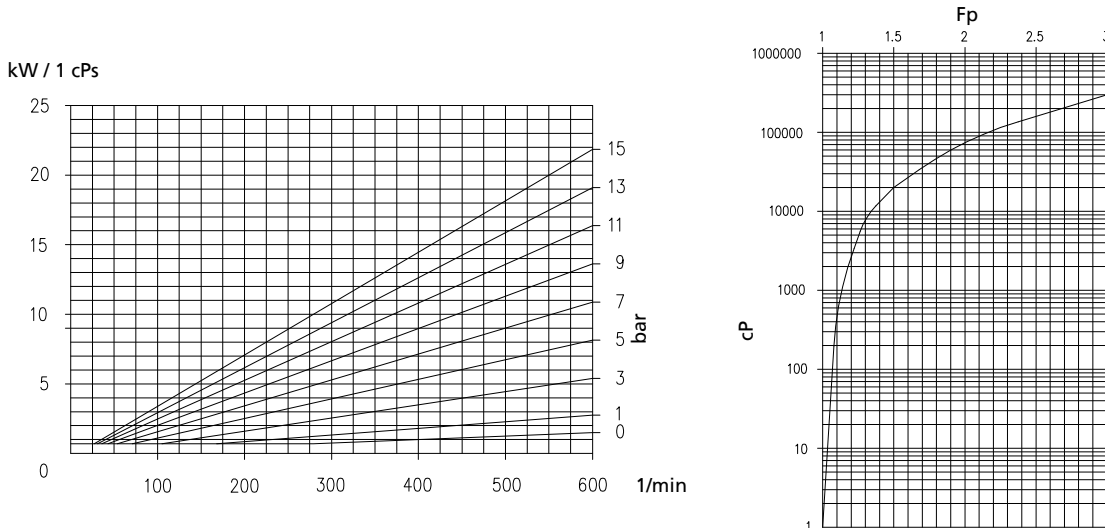
Characteristic curve Vitalobe 430 - bi-wing rotor - clearance: enlarged

Flow rate: 1.17 l/rotation ⁴²⁾



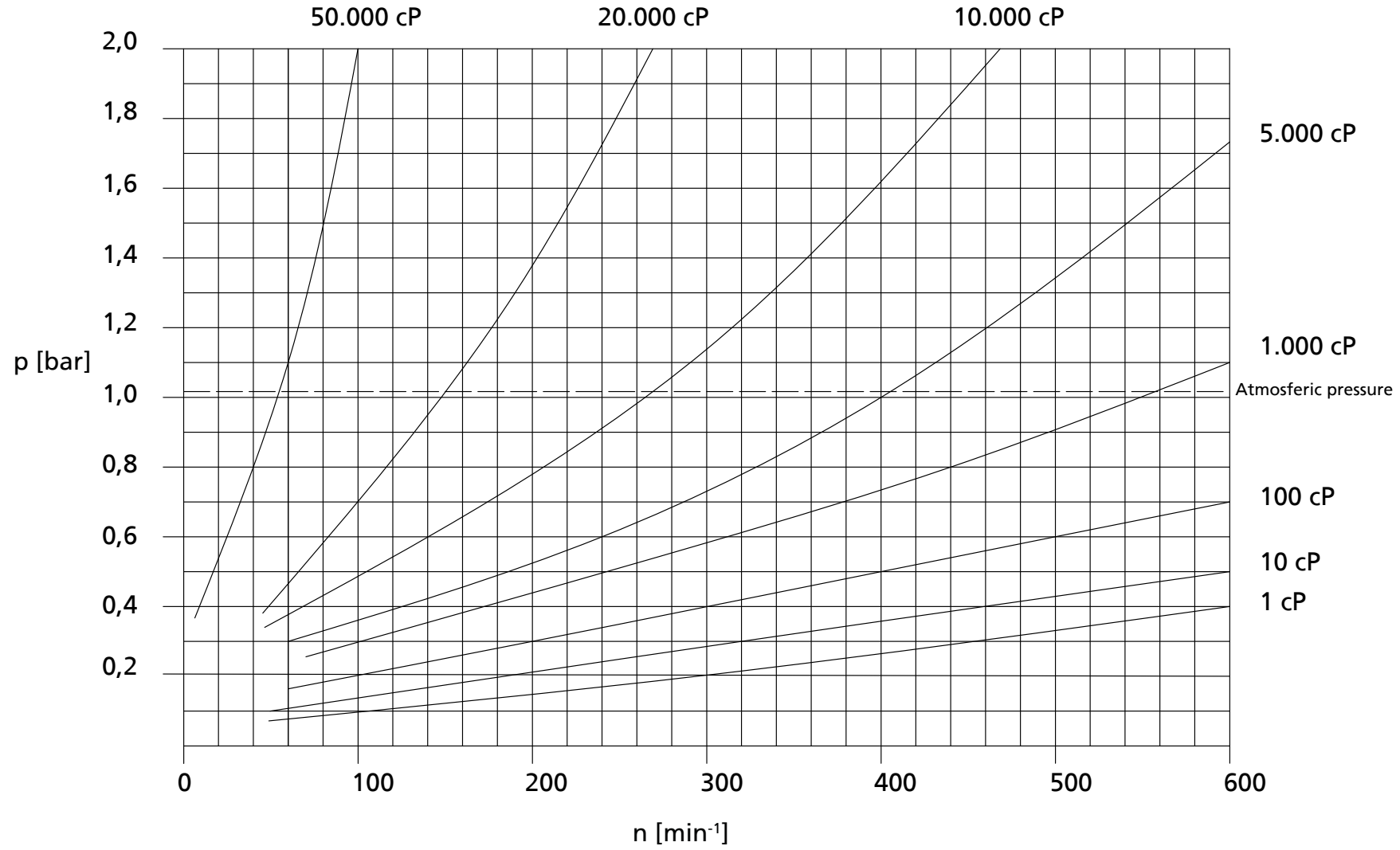
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 75 mm
 Standard nominal nozzle diameter DN 80
 Max. speed at 1 cPs = 600 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x F_p

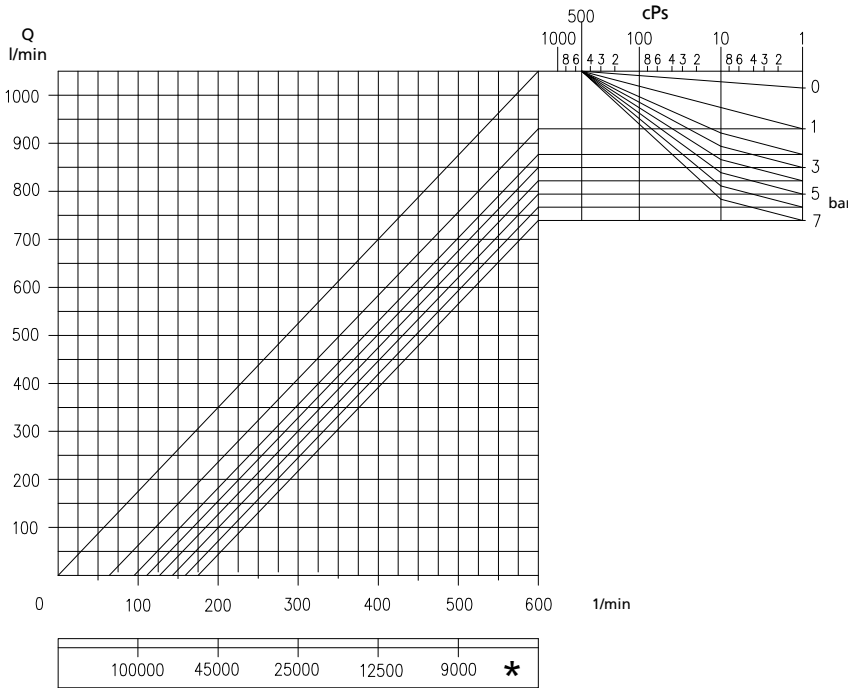
NPSH curve Vitalobe 430



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

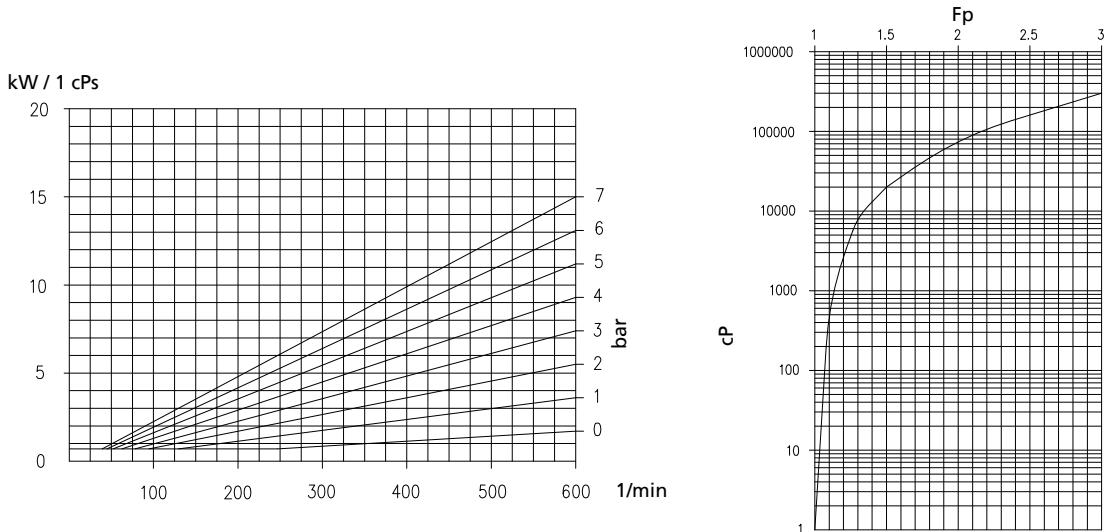
Characteristic curve Vitalobe 440 - bi-lobe rotor - clearance: standard

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



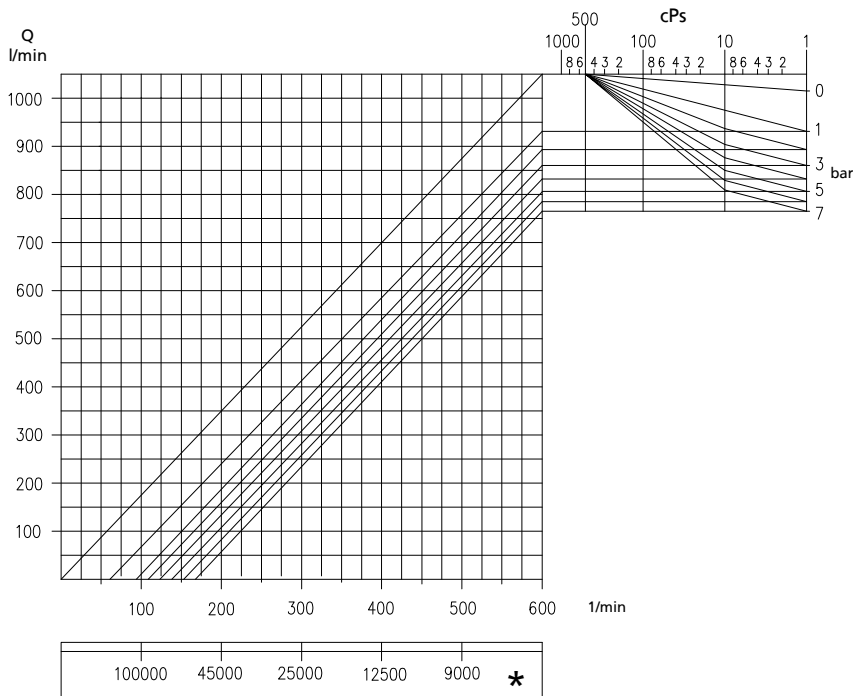
Total power = kW (1 cPs) x F_p

43) The characteristic curves shown are 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

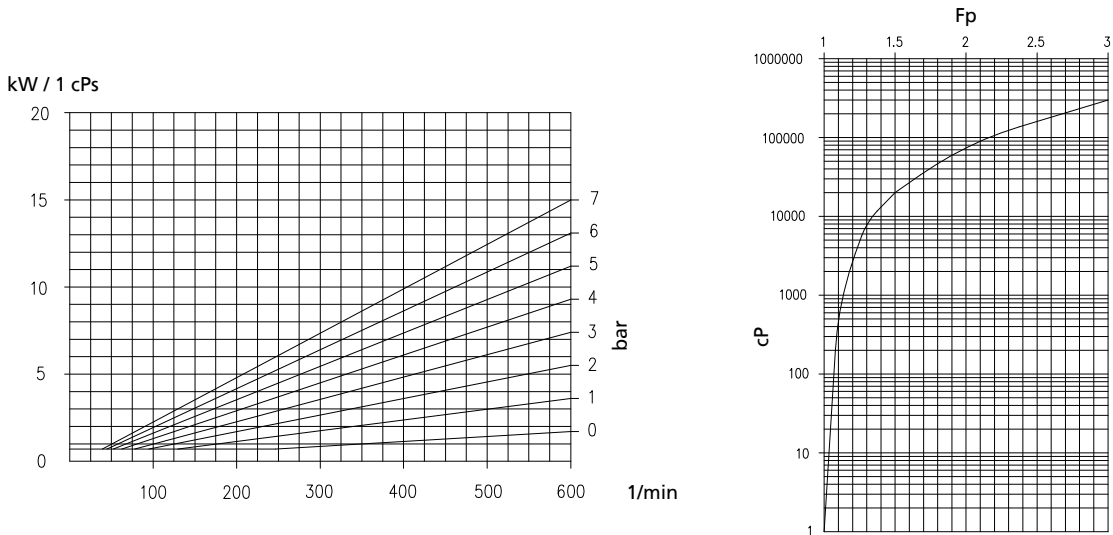
Characteristic curve Vitalobe 440 - tri-lobe rotor - clearance: standard

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



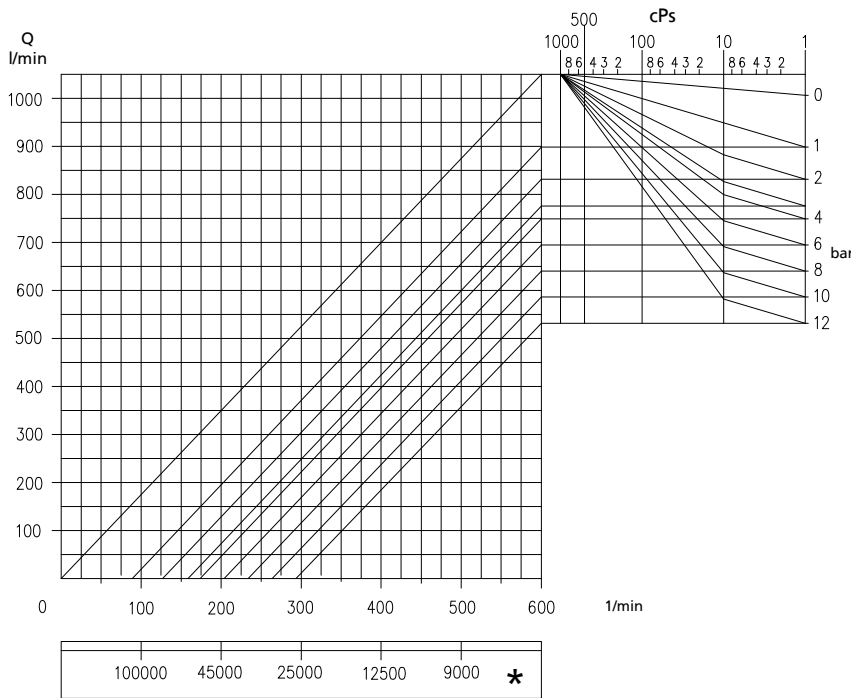
Total power = kW (1 cPs) x Fp

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

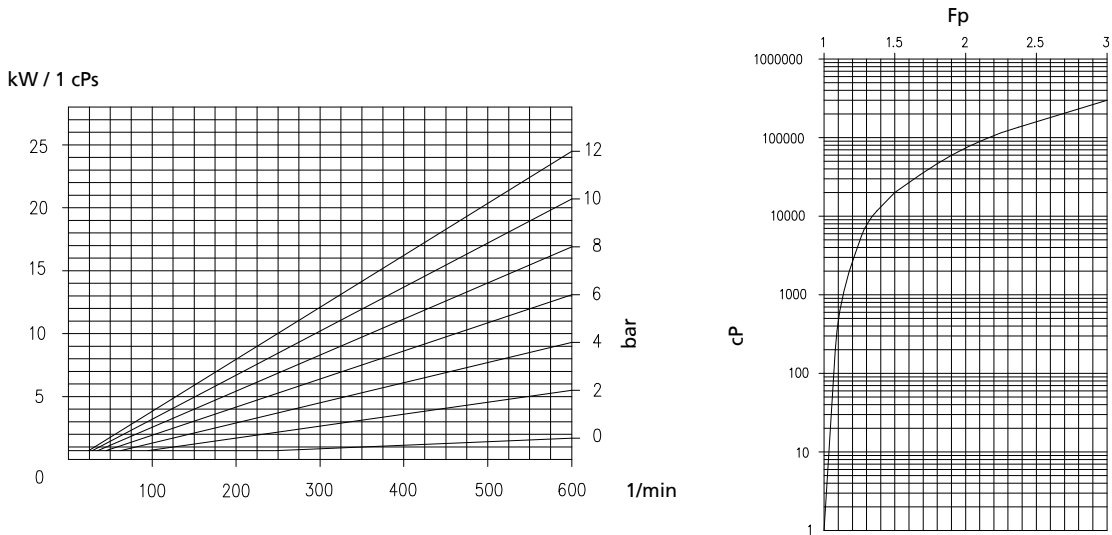
Characteristic curve Vitalobe 440 - tri-lobe rotor - clearance: enlarged

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



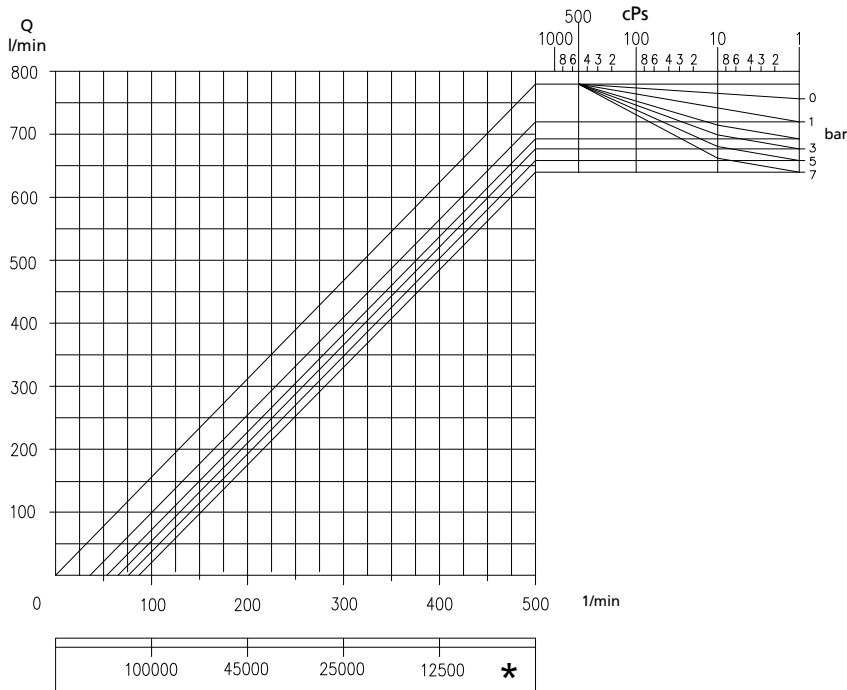
Total power = kW (1 cPs) x Fp

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

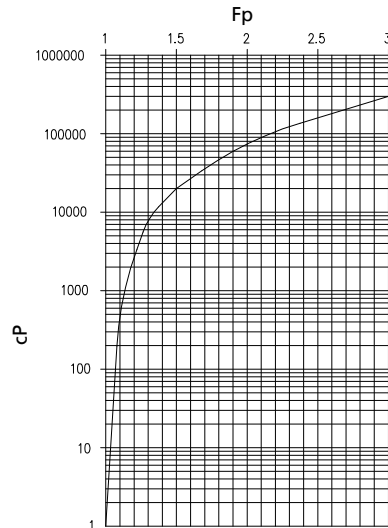
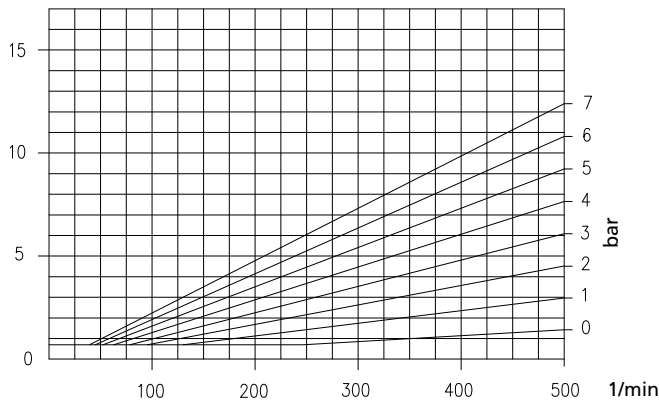
Flow rate: 1.56 l/rotation ⁴⁶⁾



* 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



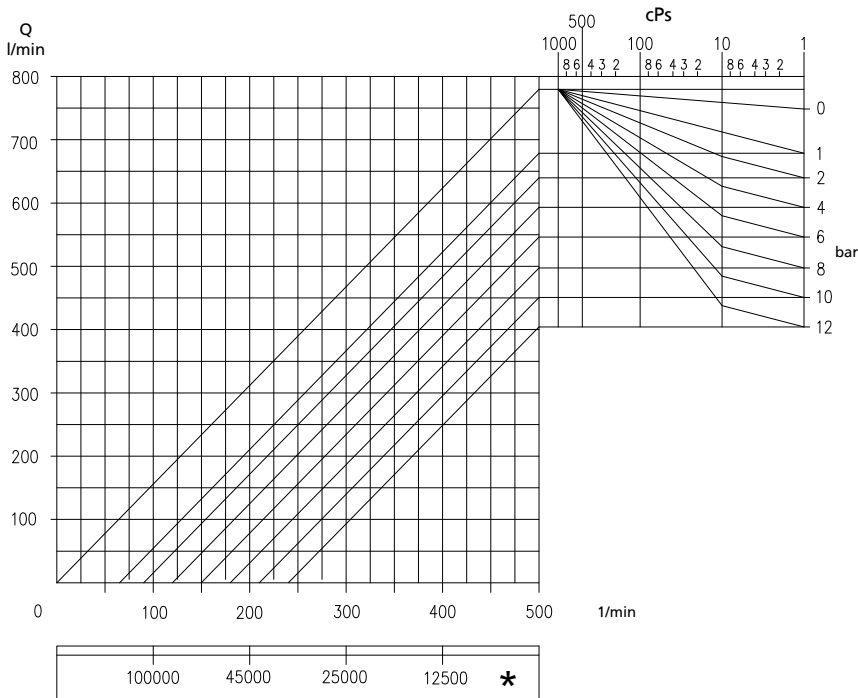
Total power = kW (1 cPs) x F_p

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

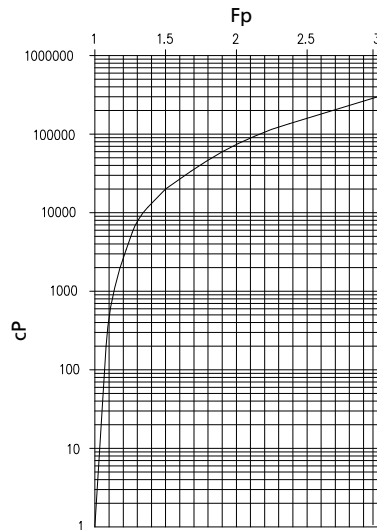
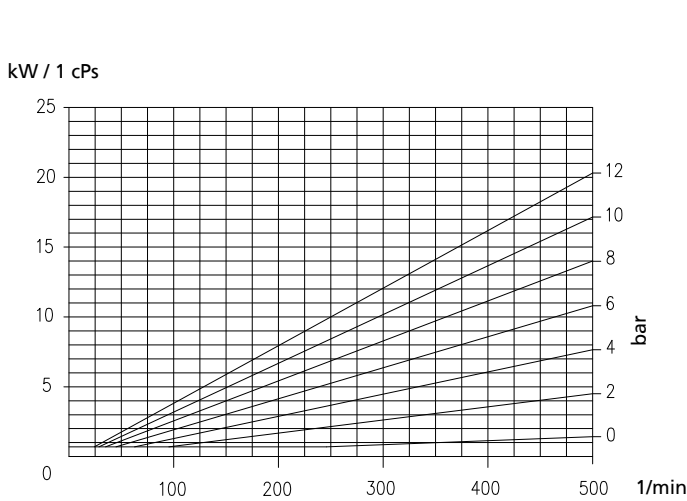
Characteristic curve Vitalobe 440 - bi-wing rotor - clearance: enlarged

Flow rate: 1.56 l/rotation ⁴⁷⁾



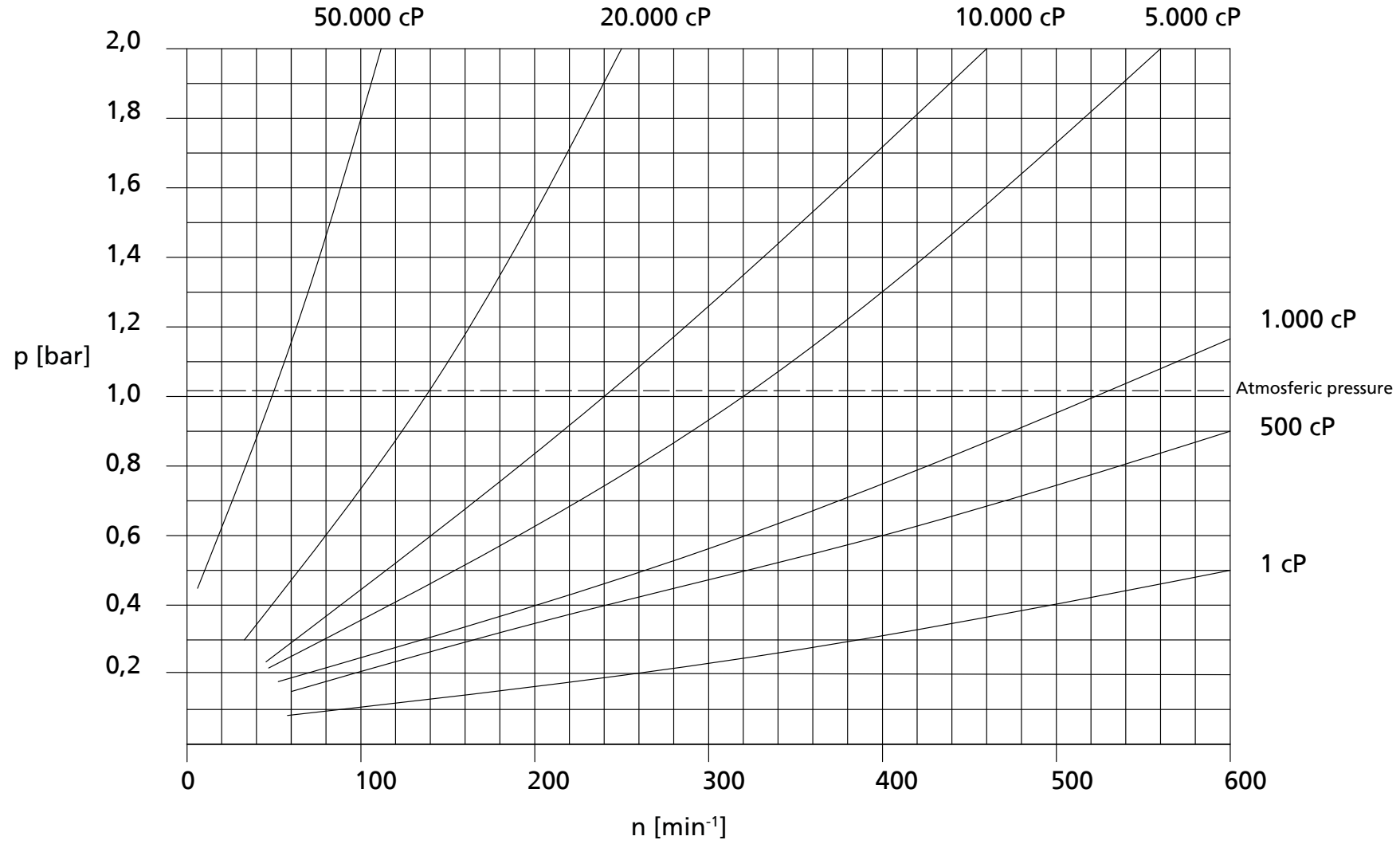
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 98 mm
 Standard nominal nozzle diameter DN 100
 Max. speed at 1 cPs = 500 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x Fp

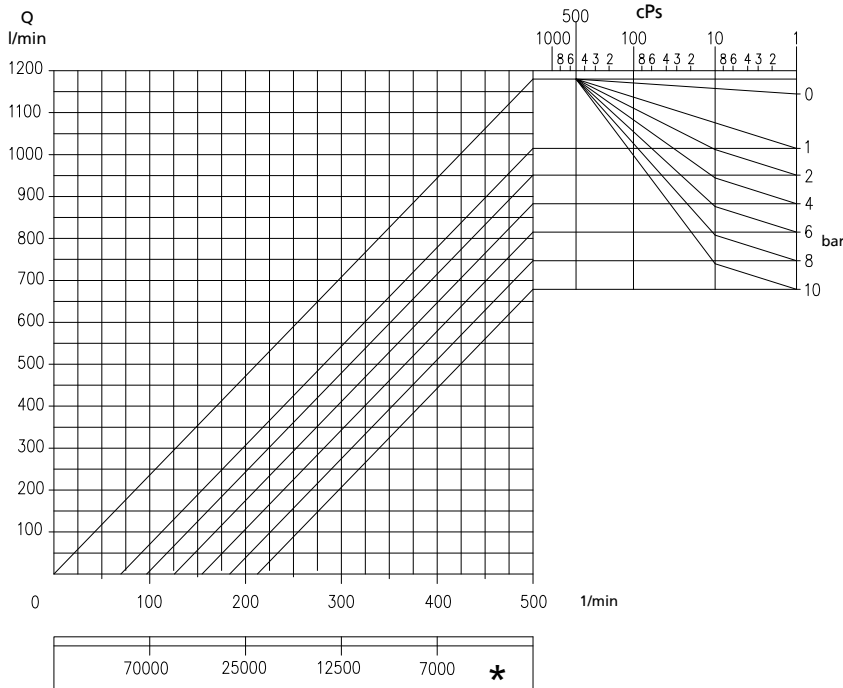
NPSH curve Vitalobe 440



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

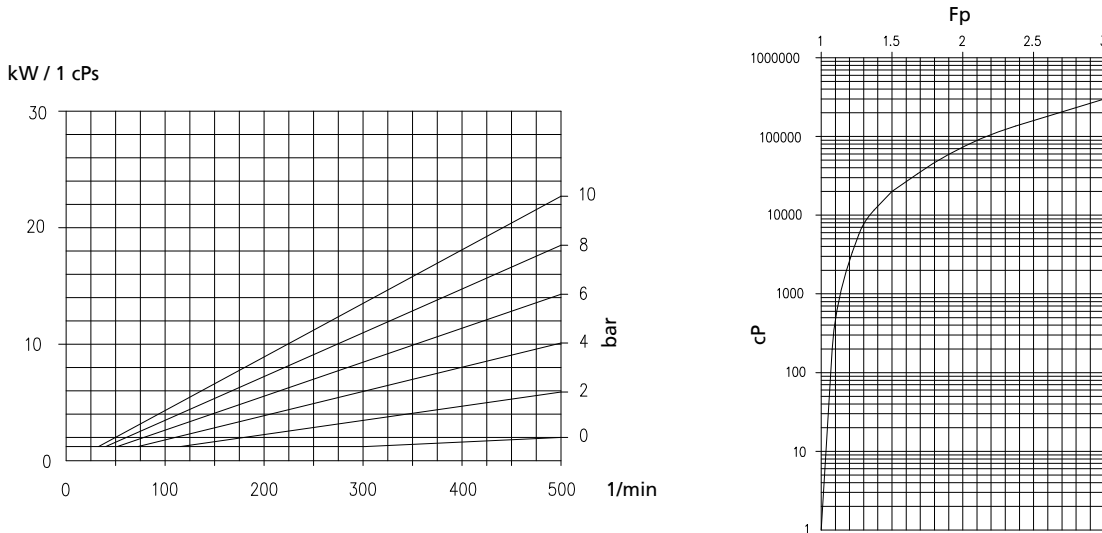
Characteristic curve Vitalobe 470 - bi-lobe rotor - clearance: standard

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



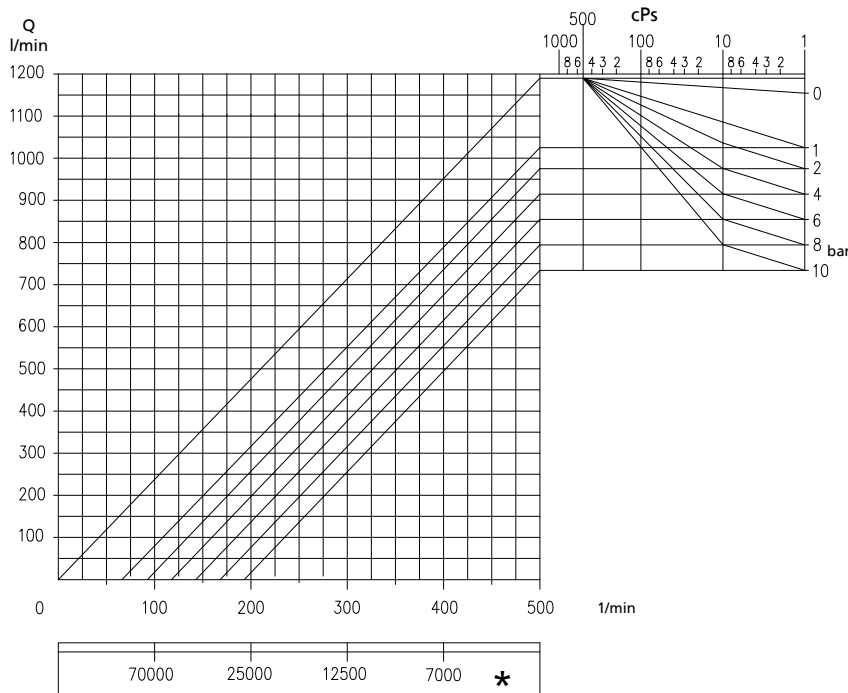
Total power = kW (1 cPs) x Fp

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

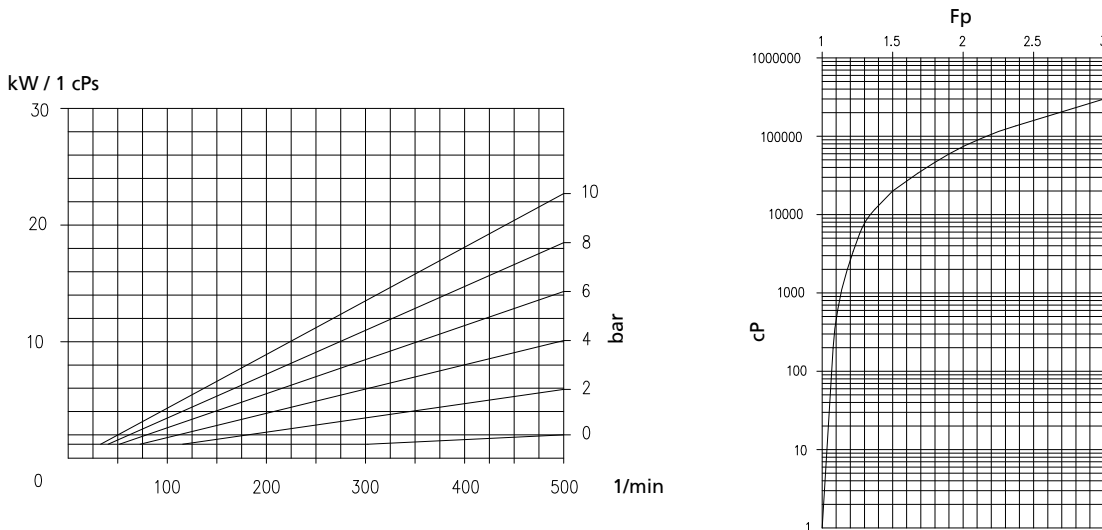
Characteristic curve Vitalobe 470 - tri-lobe rotor - clearance: standard

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



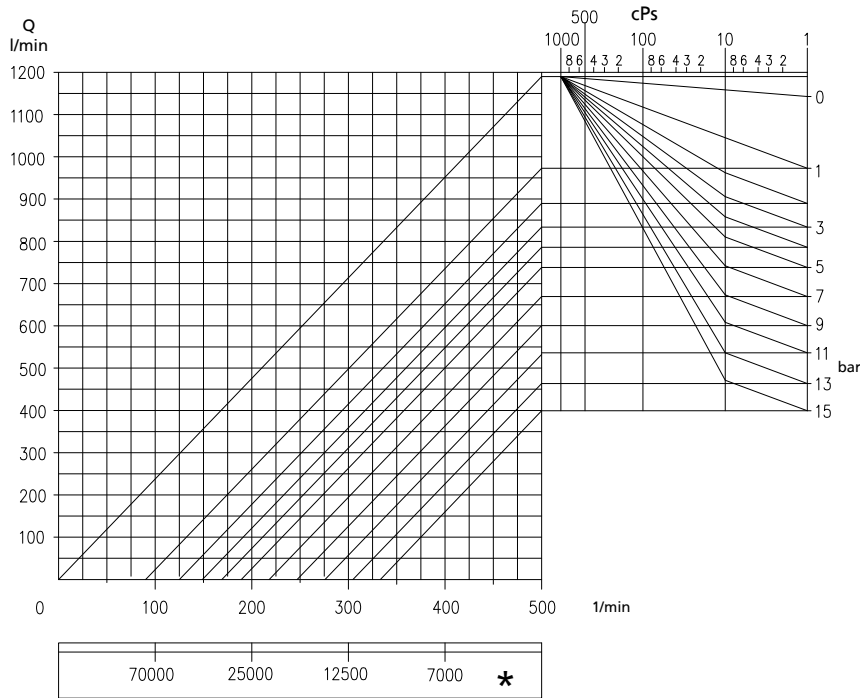
Total power = kW (1 cPs) x Fp

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

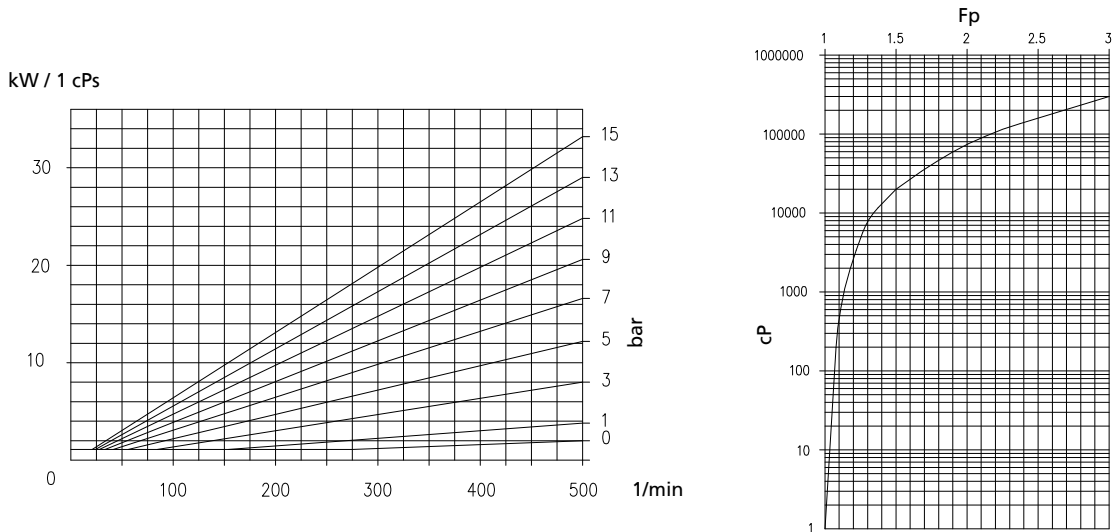
Characteristic curve Vitalobe 470 - tri-lobe rotor - clearance: enlarged

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



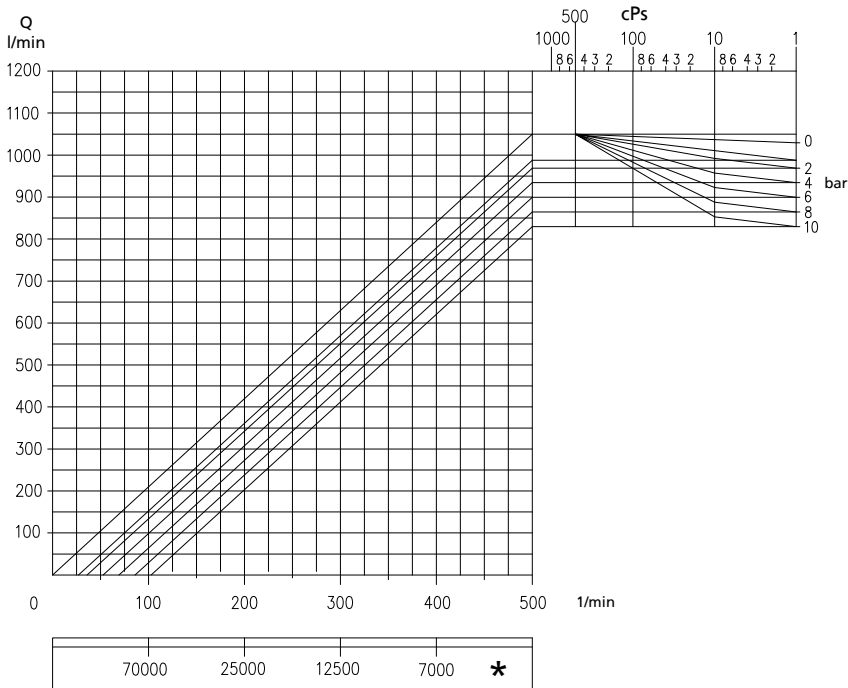
Total power = kW (1 cPs) x Fp

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

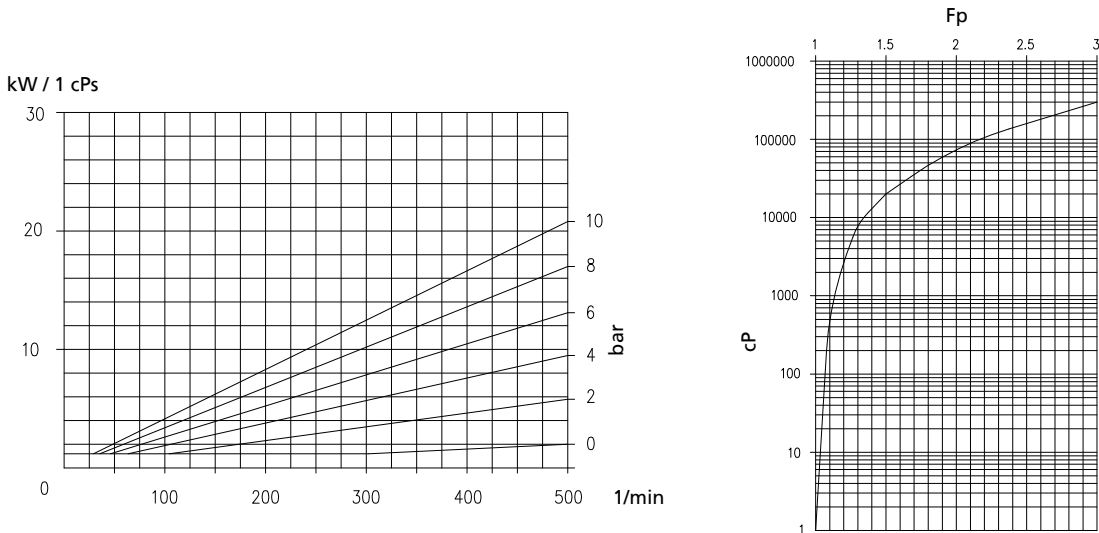
Characteristic curve Vitalobe 470 - bi-wing rotor - clearance: standard

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



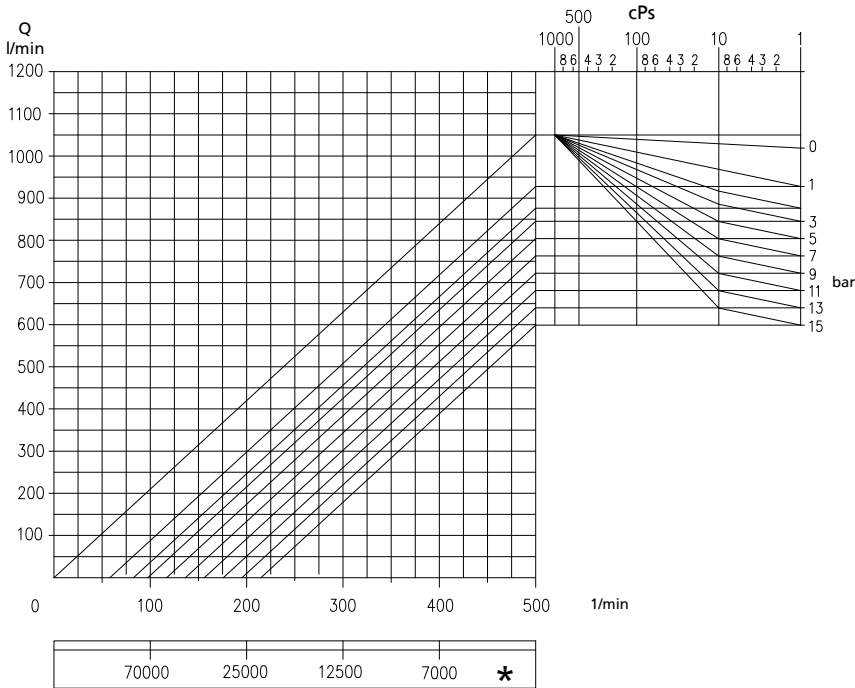
Total power = kW (1 cPs) x Fp

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

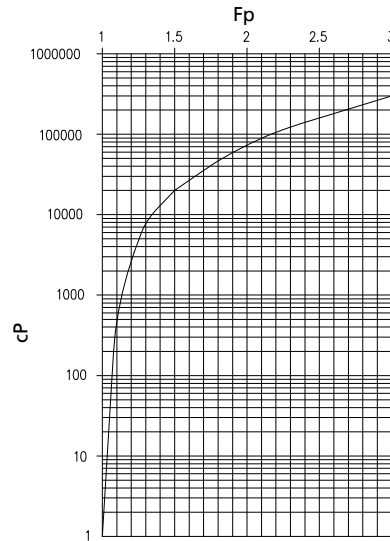
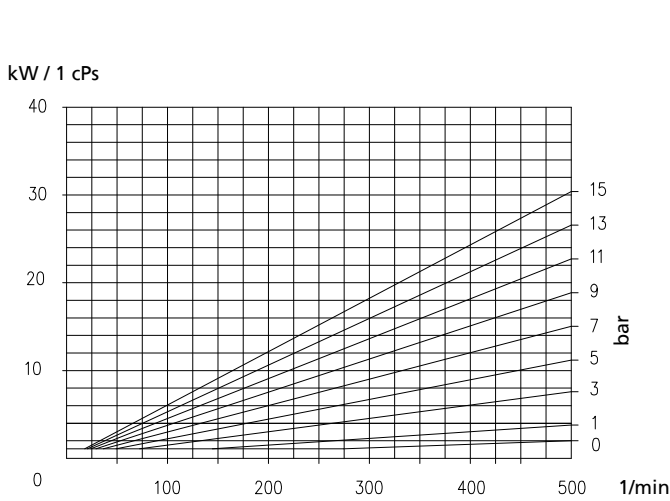
Characteristic curve Vitalobe 470 - bi-wing rotor - clearance: enlarged

Flow rate: 2.1 l/rotation ⁵²⁾



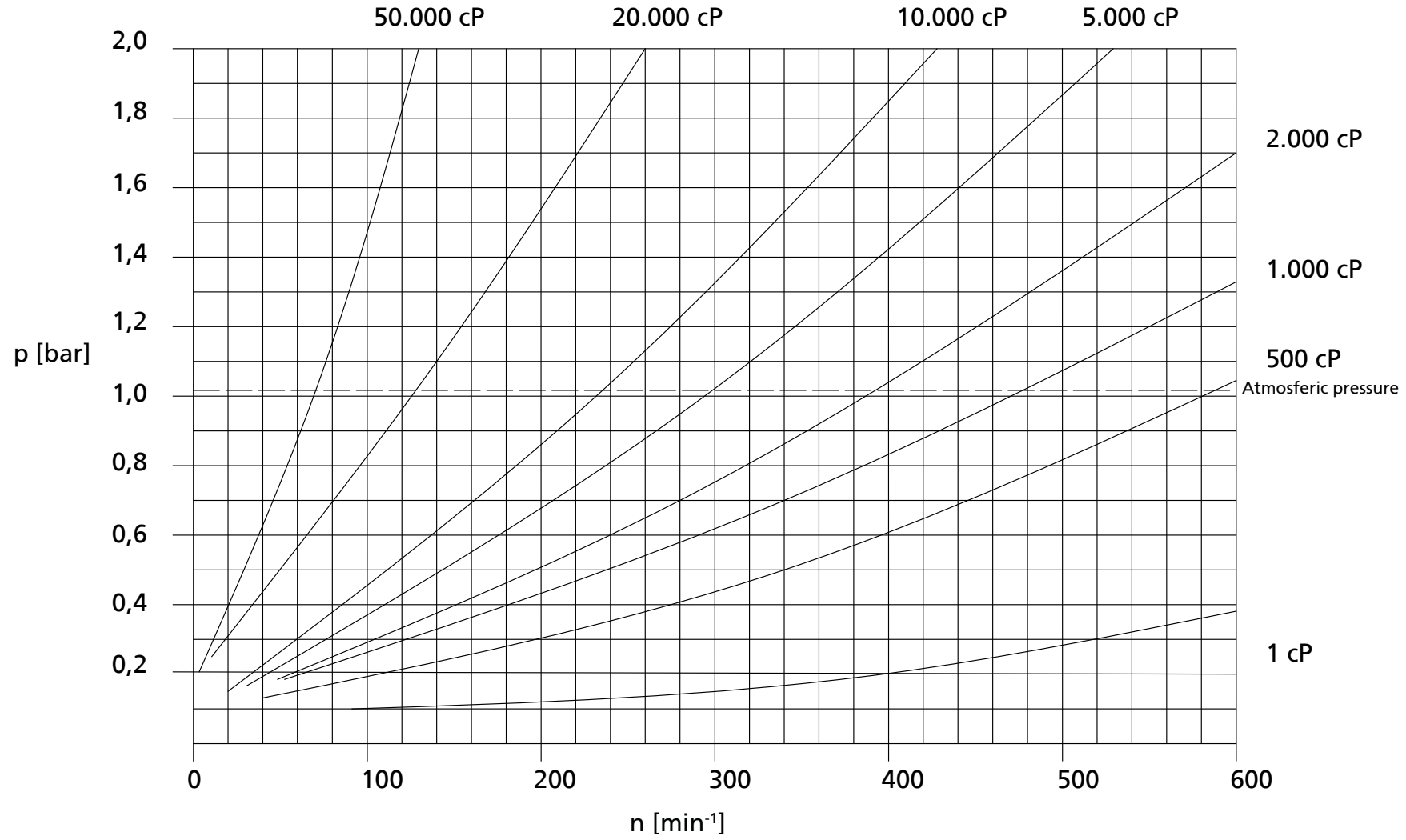
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 98 mm
 Standard nominal nozzle diameter DN 100
 Max. speed at 1 cPs = 500 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x F_p

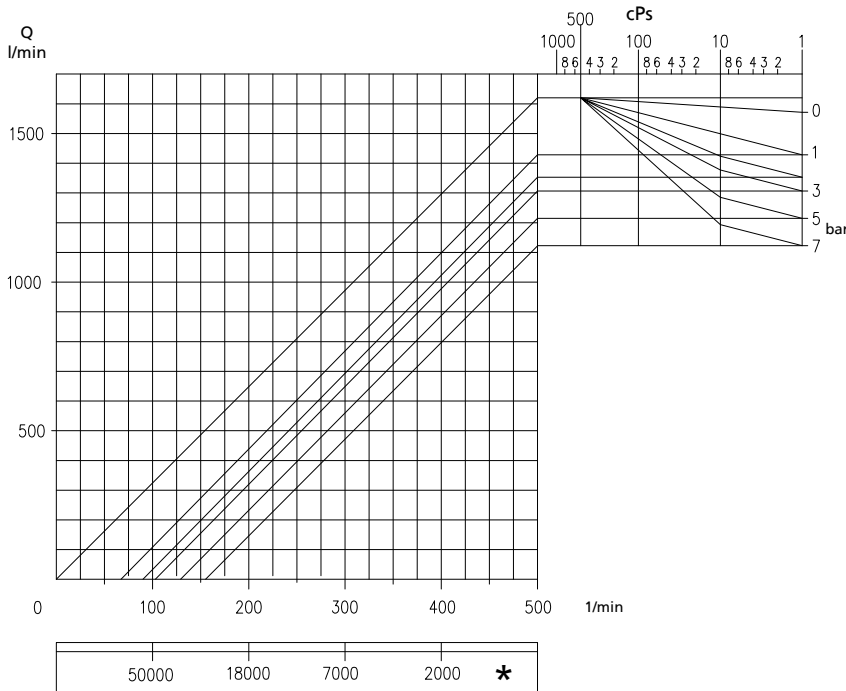
NPSH curve Vitalobe 470



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

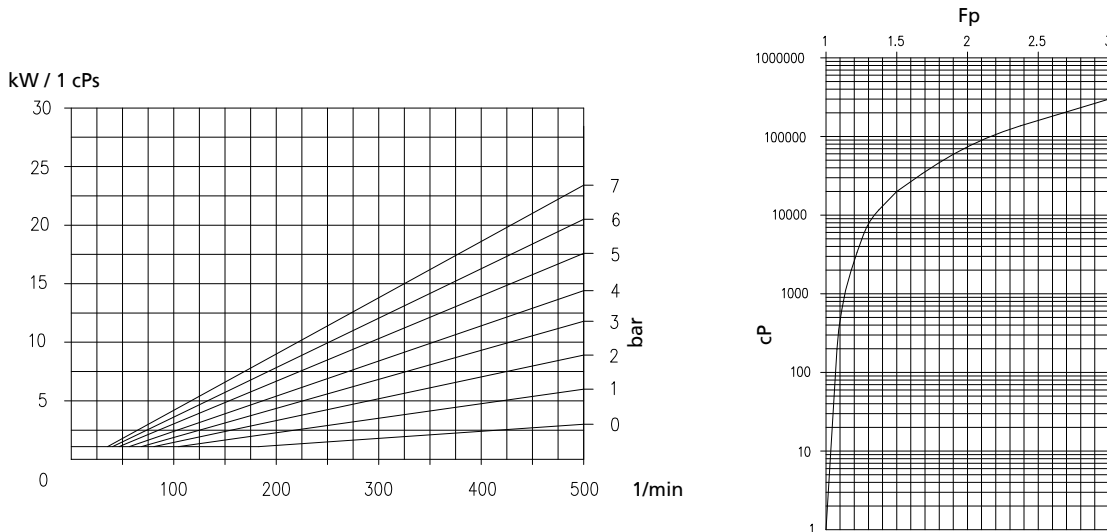
Characteristic curve Vitalobe 490 - bi-lobe rotor - clearance: standard

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



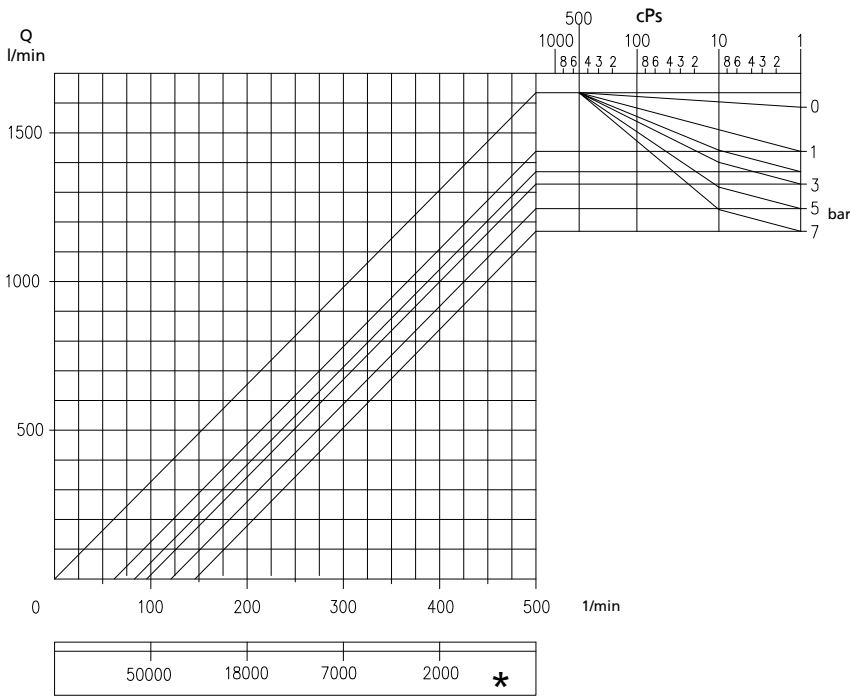
Total power = kW (1 cPs) x F_p

- 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

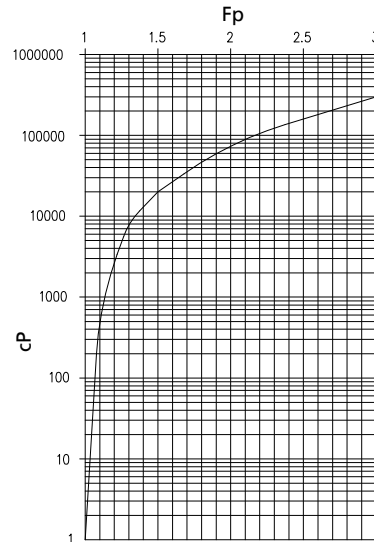
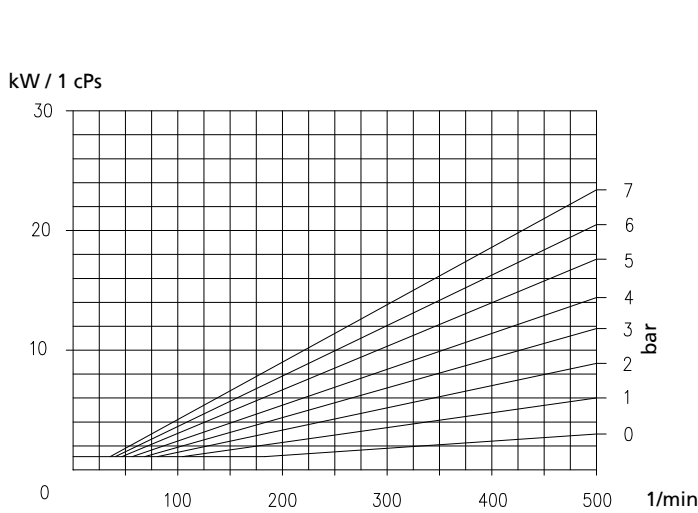
Characteristic curve Vitalobe 490 - tri-lobe rotor - clearance: standard

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



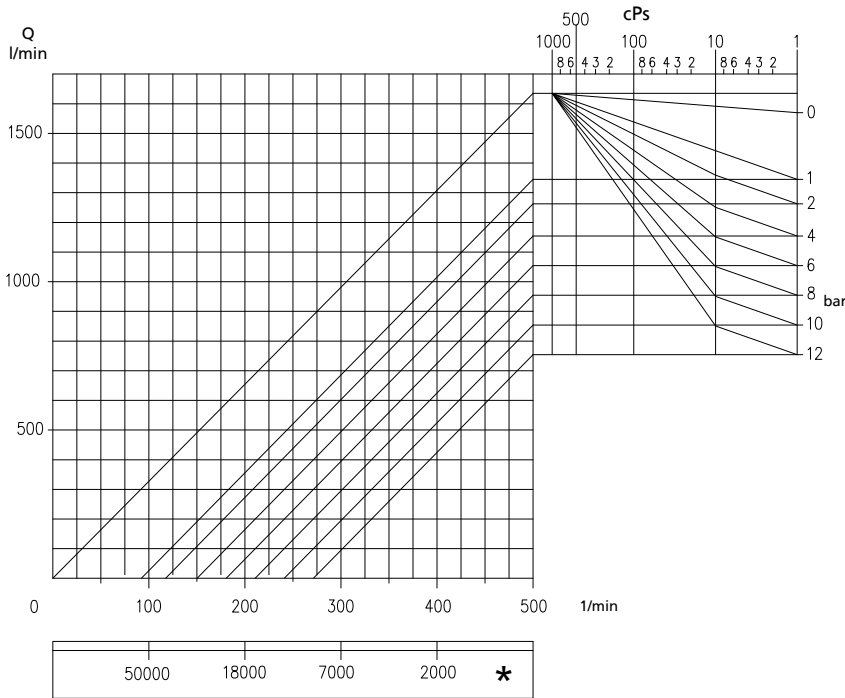
Total power = kW (1 cPs) x F_p

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

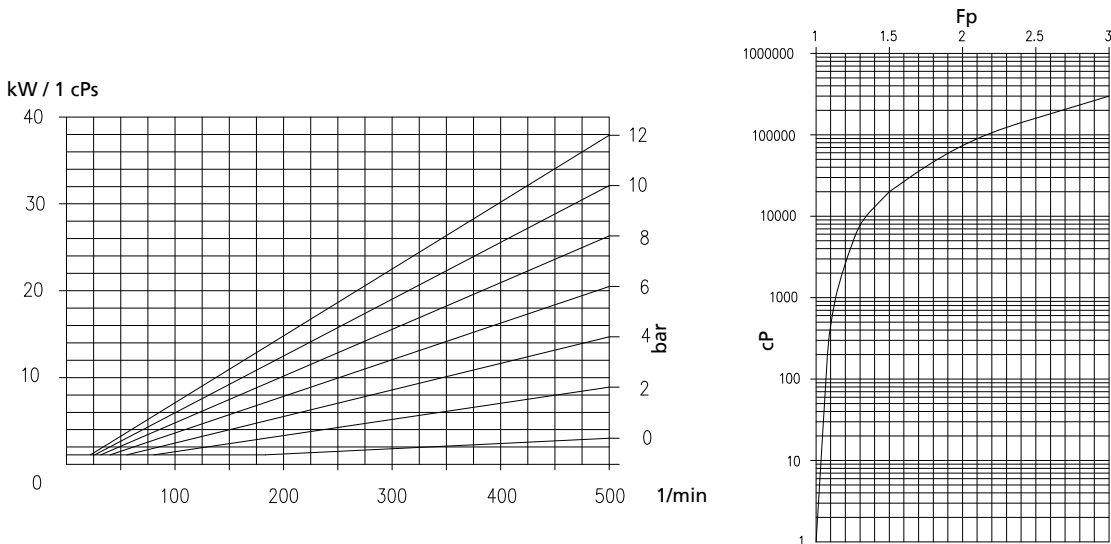
Characteristic curve Vitalobe 490 - tri-lobe rotor - clearance: enlarged

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



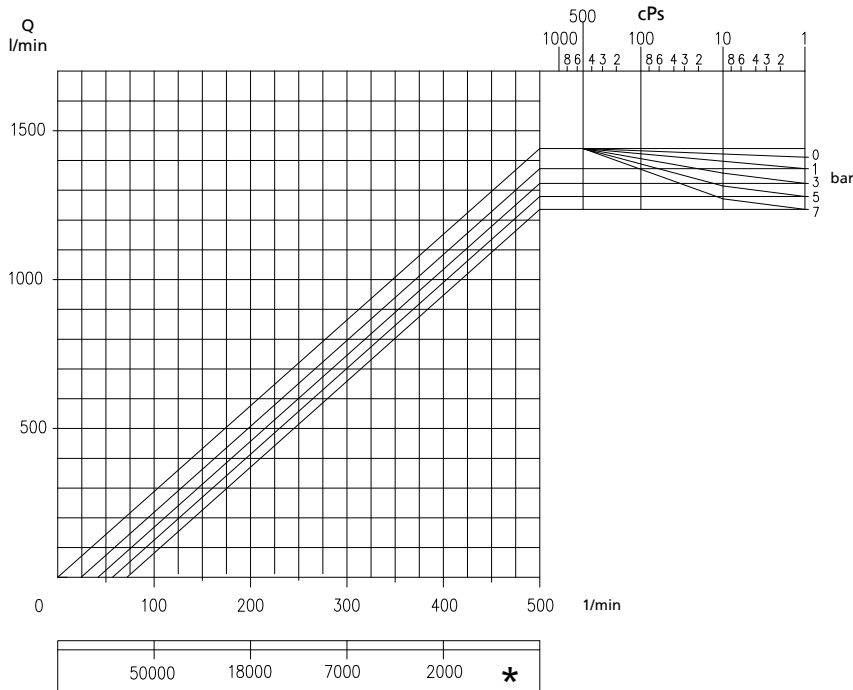
Total power = kW (1 cPs) x Fp

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

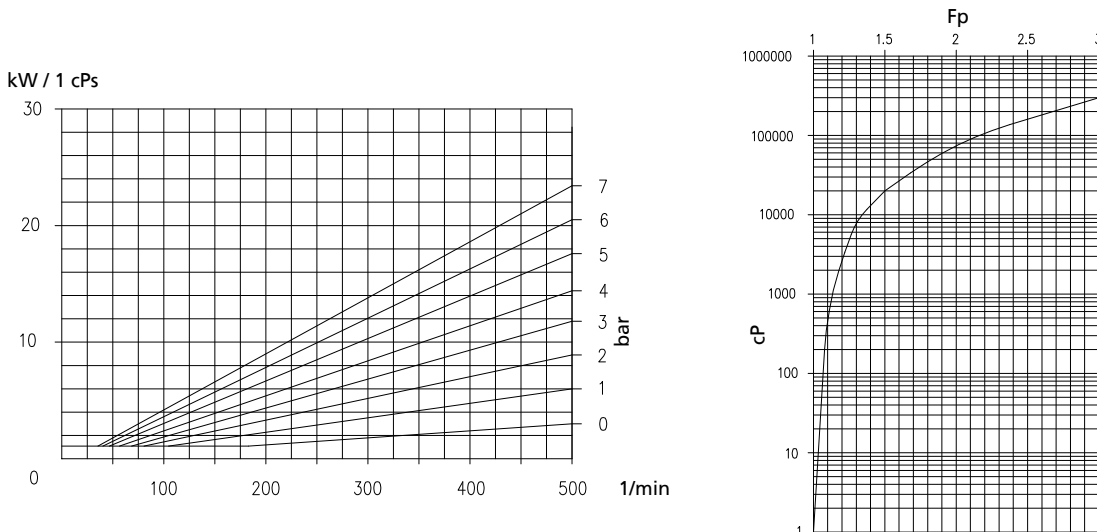
Characteristic curve Vitalobe 490 - bi-wing rotor - clearance: standard

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



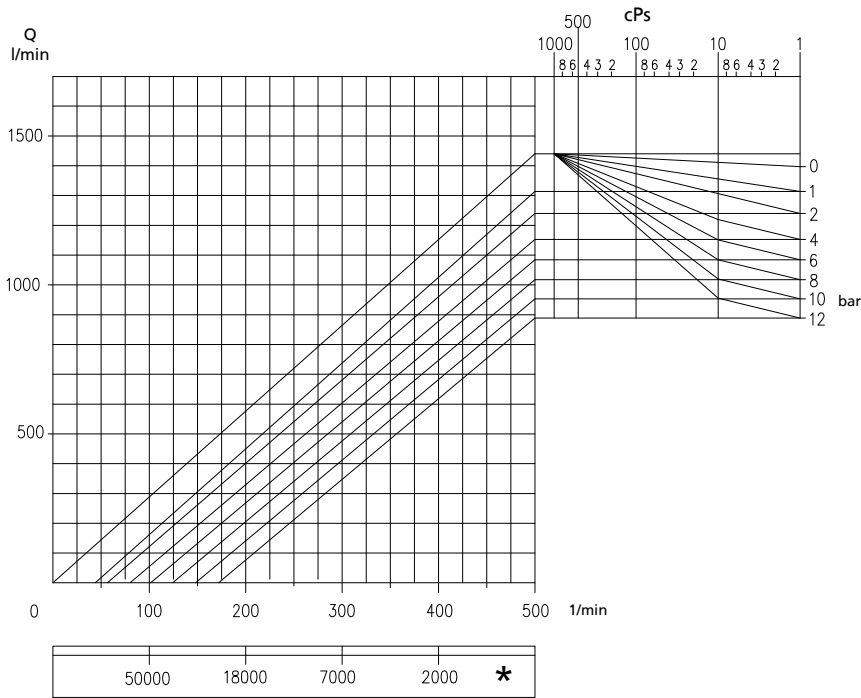
Total power = kW (1 cPs) x F_p

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

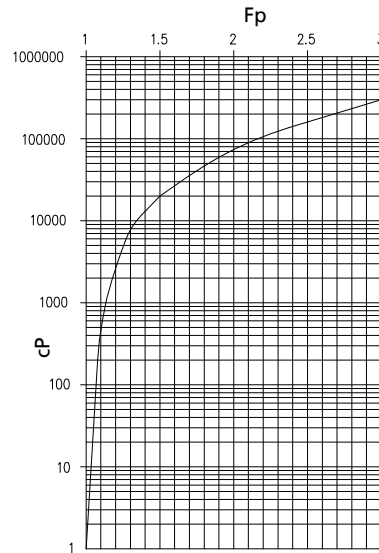
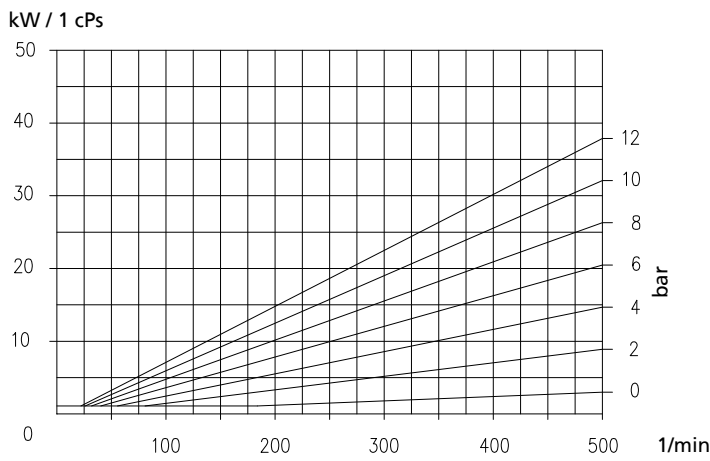
Characteristic curve Vitalobe 490 - bi-wing rotor - clearance: enlarged

Flow rate: 2.88 l/rotation ⁵⁷⁾



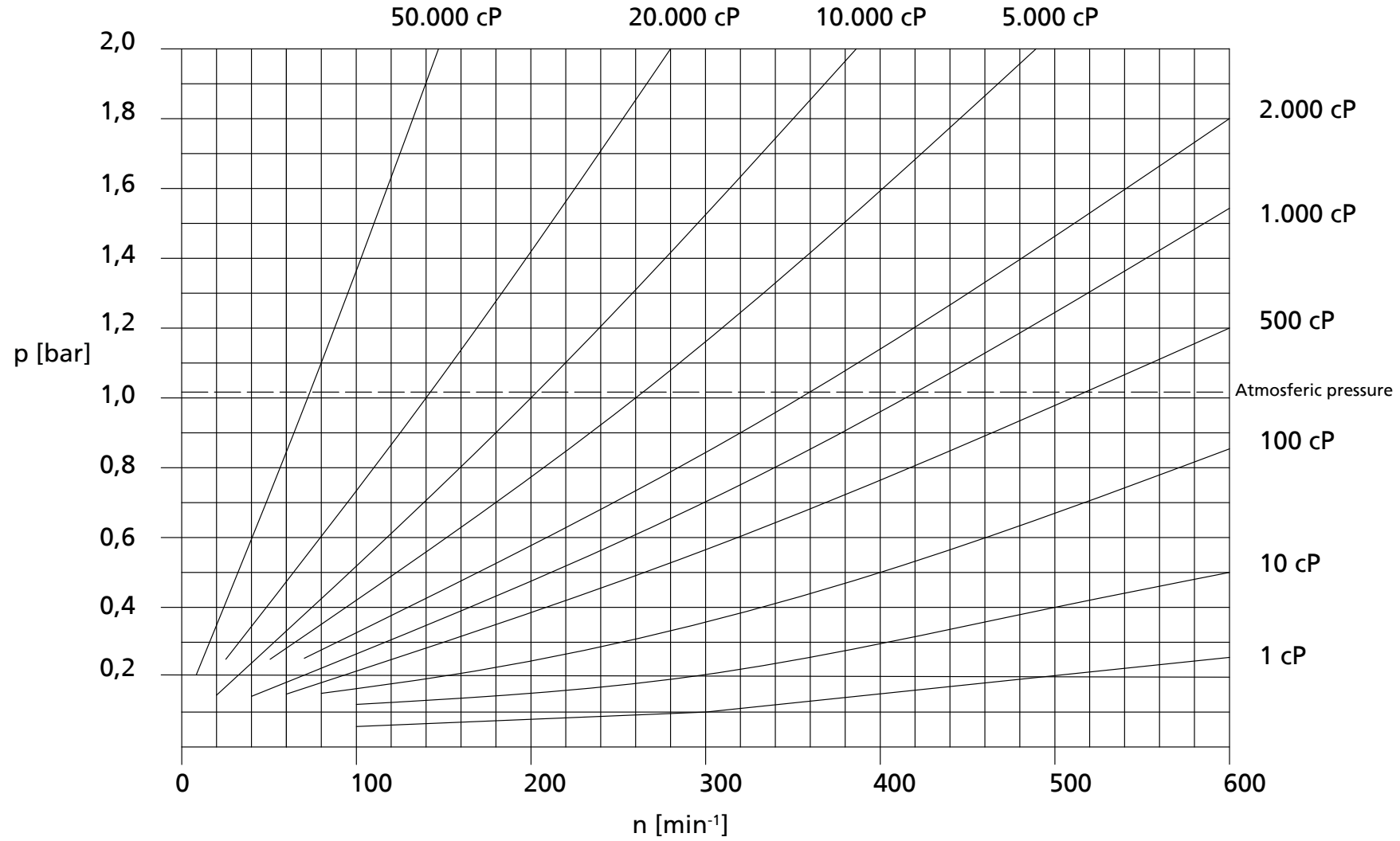
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 98 mm
 Standard nominal nozzle diameter DN 100
 Max. speed at 1 cPs = 500 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x Fp

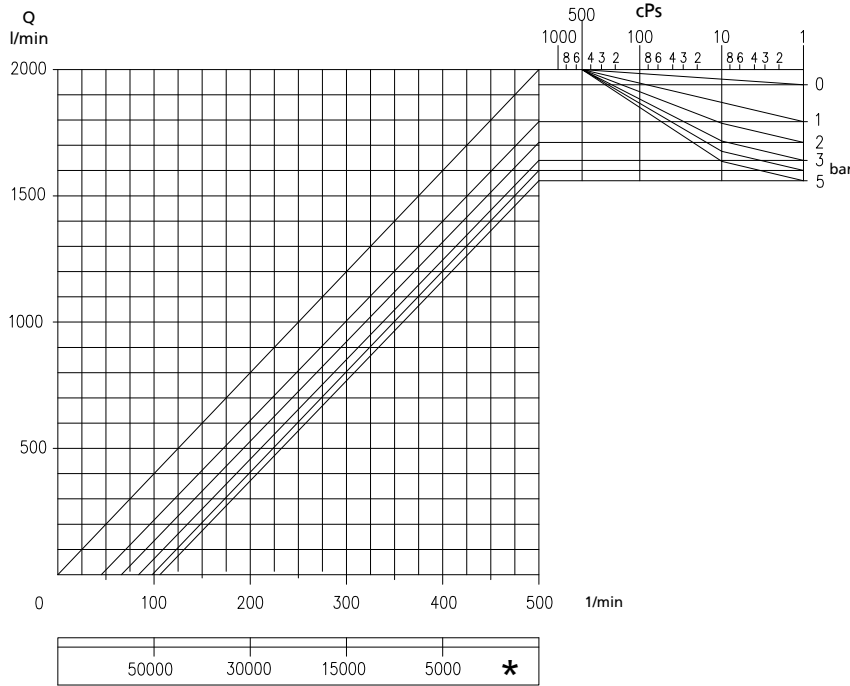
NPSH curve Vitalobe 490



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

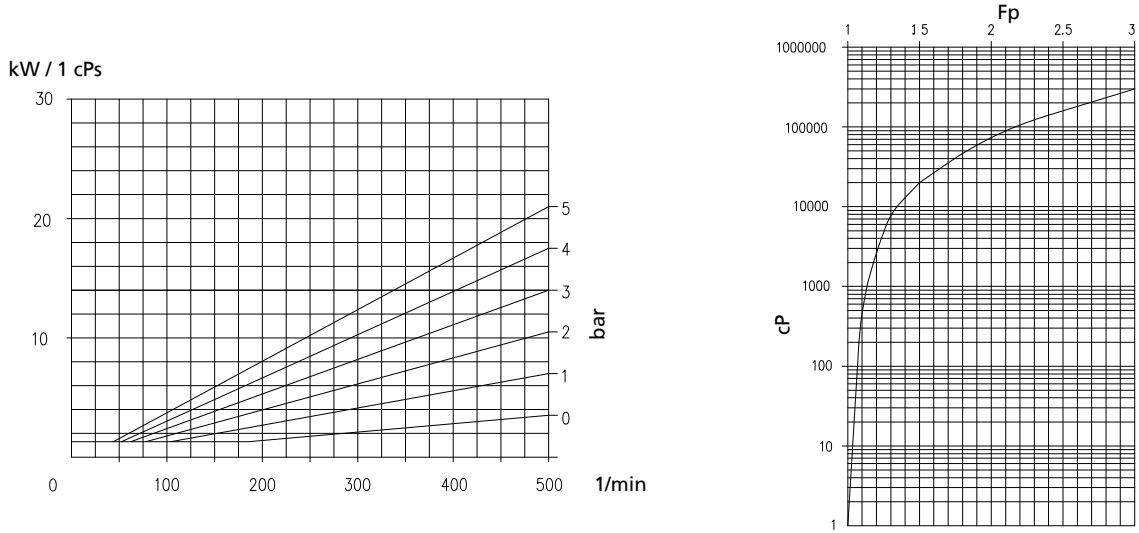
Characteristic curve Vitalobe 550 - bi-lobe rotor - clearance: standard

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



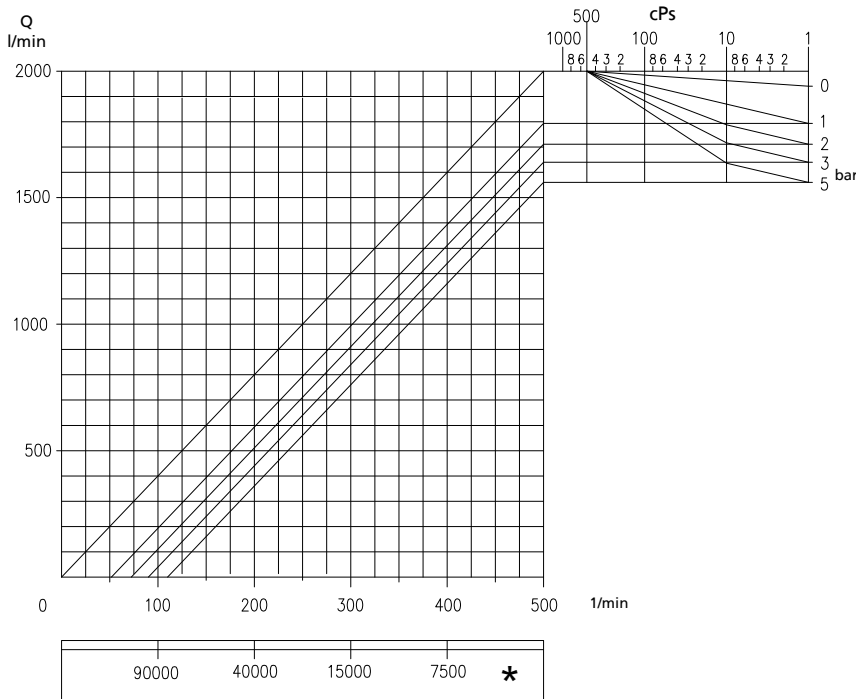
Total power = kW (1 cPs) x F_p

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

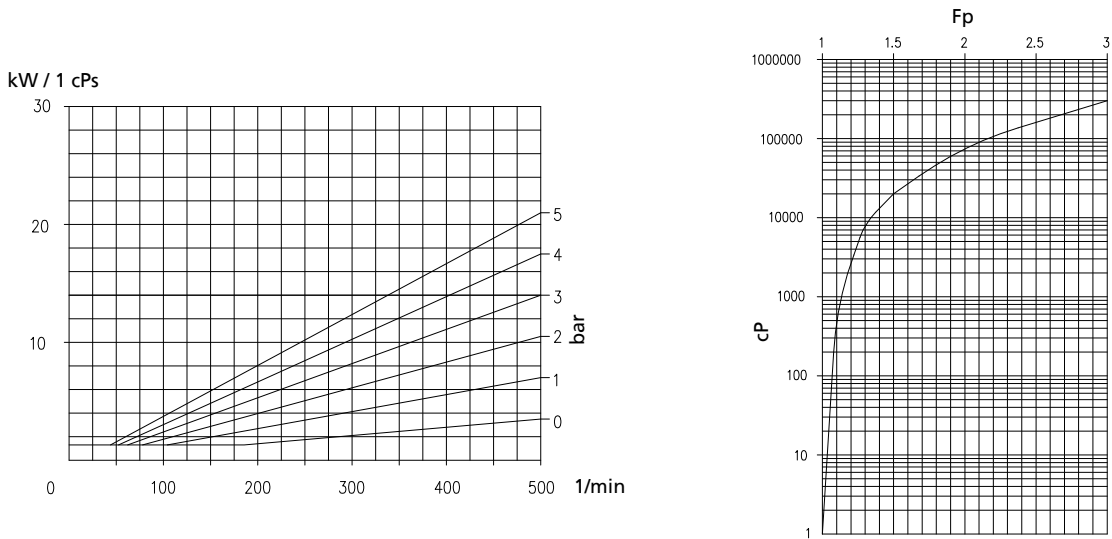
Characteristic curve Vitalobe 550 - tri-lobe rotor - clearance: standard

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



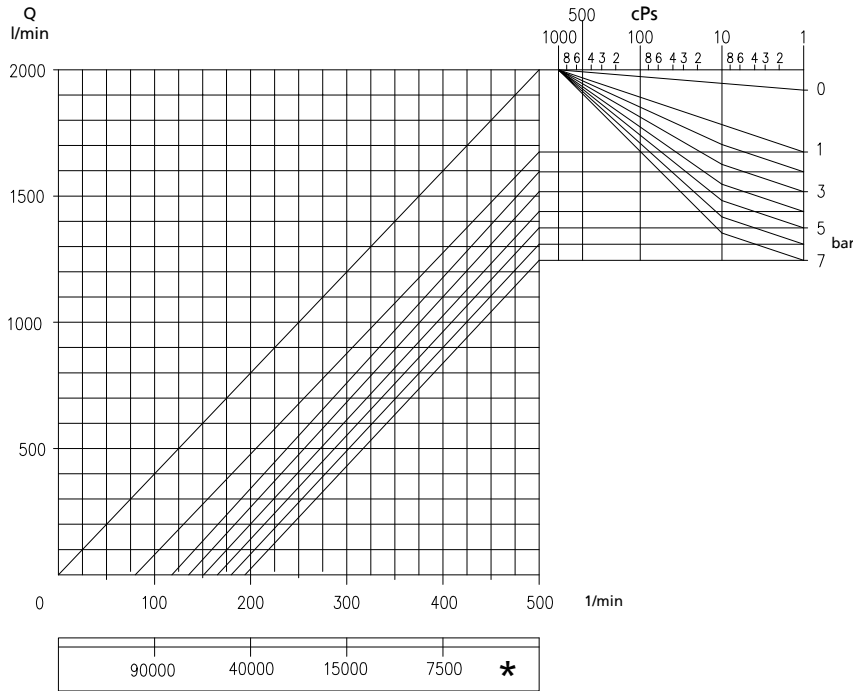
Total power = kW (1 cPs) x F_p

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

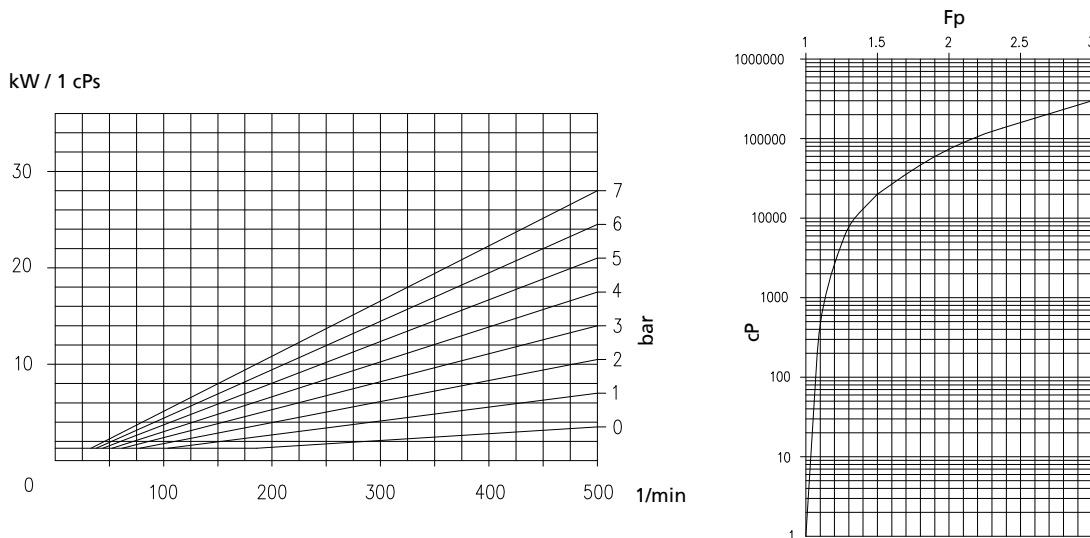
Characteristic curve Vitalobe 550 - tri-lobe rotor - clearance: enlarged

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



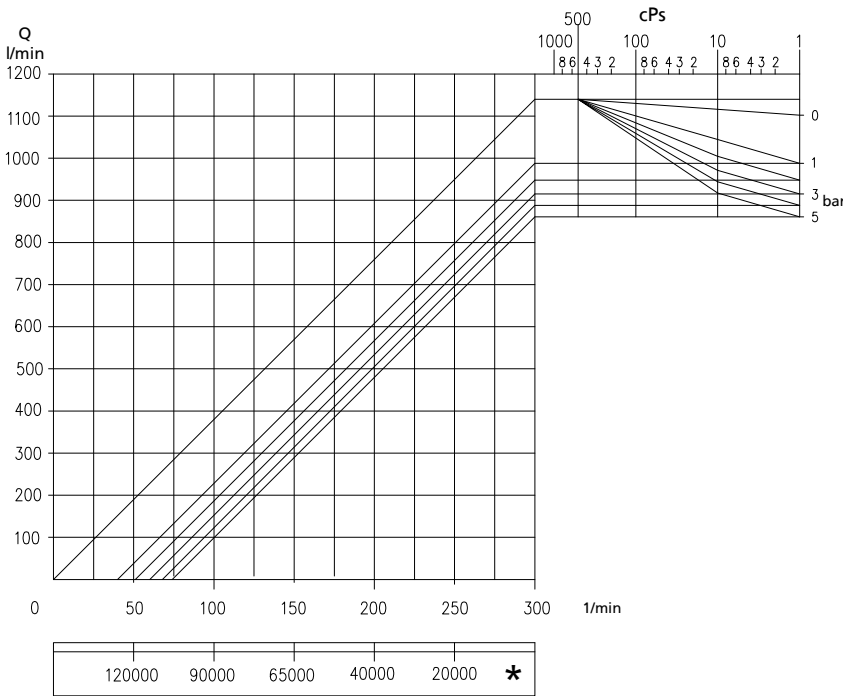
Total power = kW (1 cPs) x Fp

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

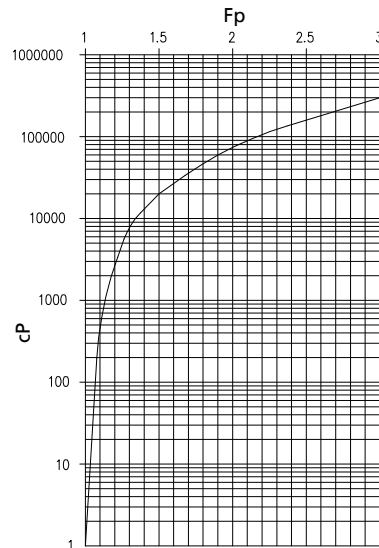
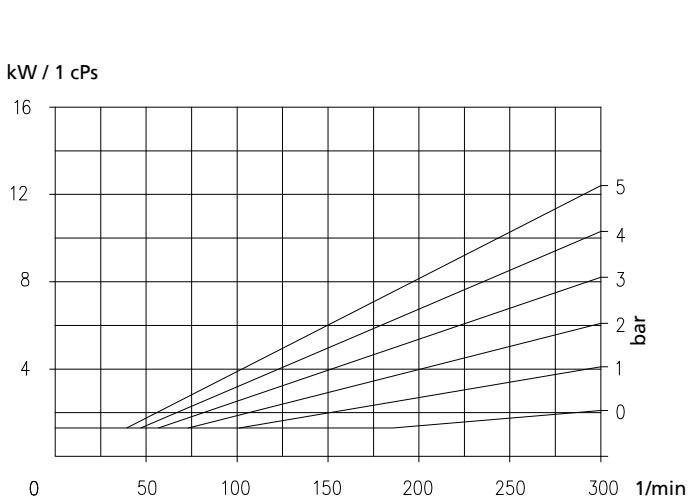
Characteristic curve Vitalobe 550 - bi-wing rotor - clearance: standard

Flow rate: 3.8 l/rotation ⁶¹⁾



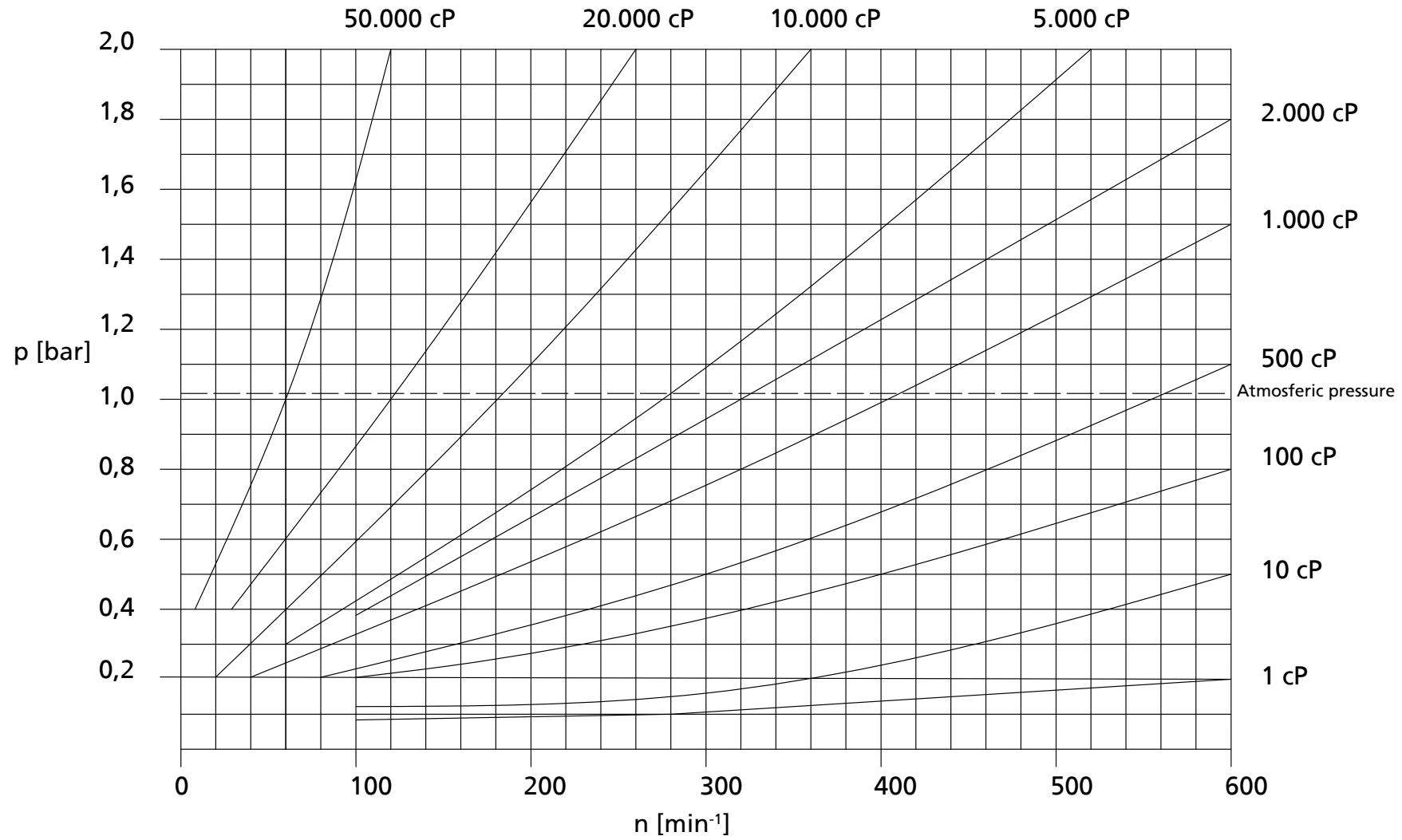
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
Nozzle diameter 125 mm
Standard nominal nozzle diameter DN 125
Max. speed at 1 cPs = 300 rpm
It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x Fp

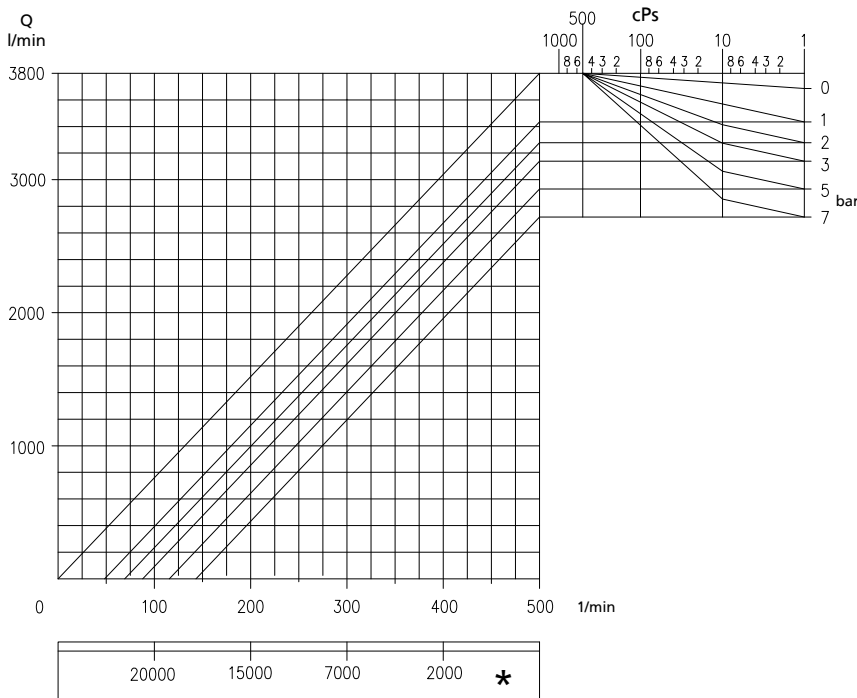
NPSH curve Vitalobe 550



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

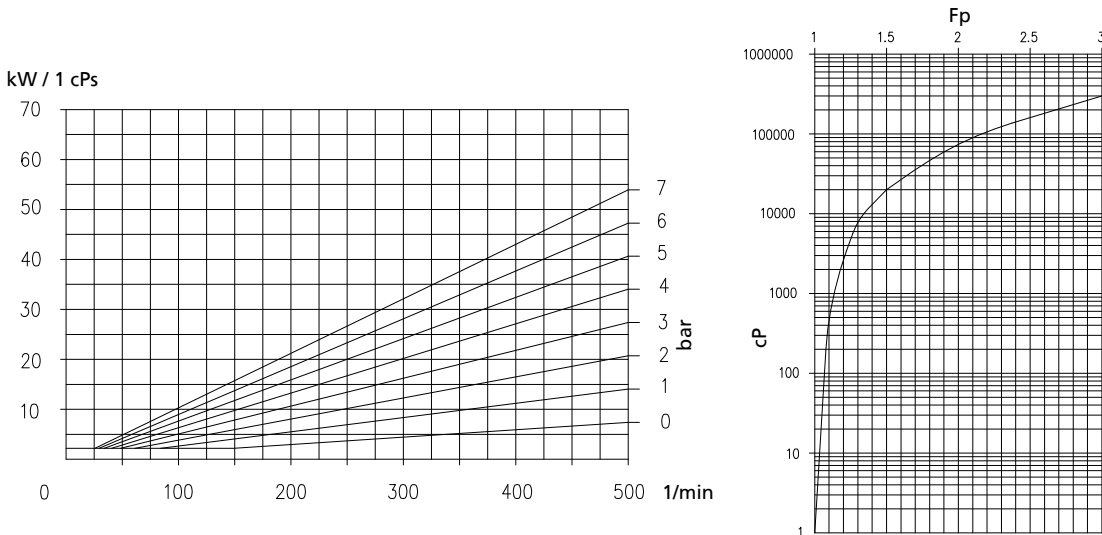
Characteristic curve Vitalobe 660 - tri-lobe rotor - clearance: standard

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



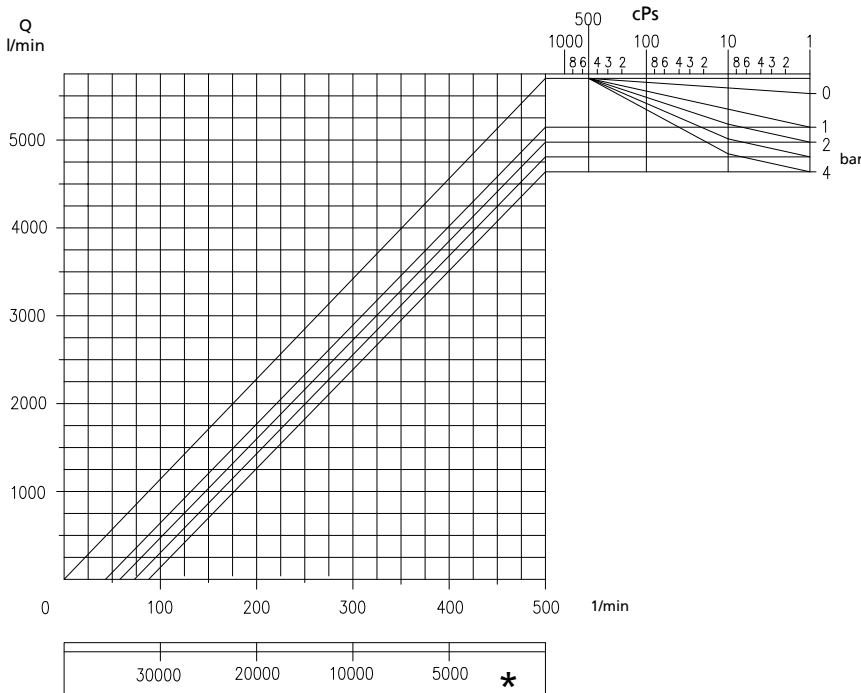
Total power = kW (1 cPs) x Fp

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

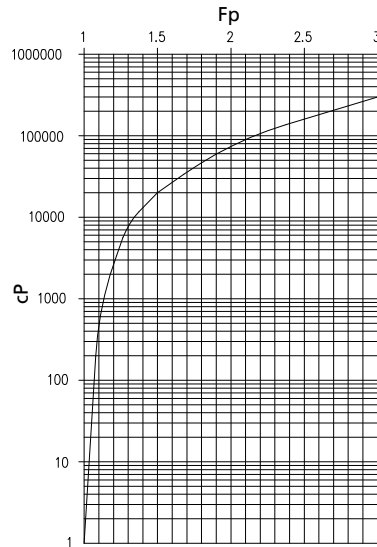
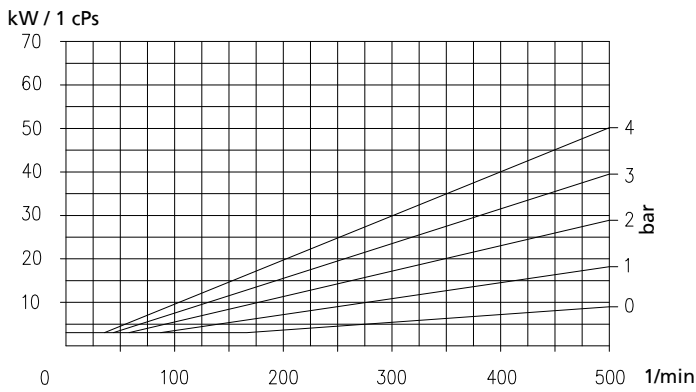
Characteristic curve Vitalobe 680 - tri-lobe rotor - clearance: standard

Flow rate: 11.4 l/rotation ⁶³⁾



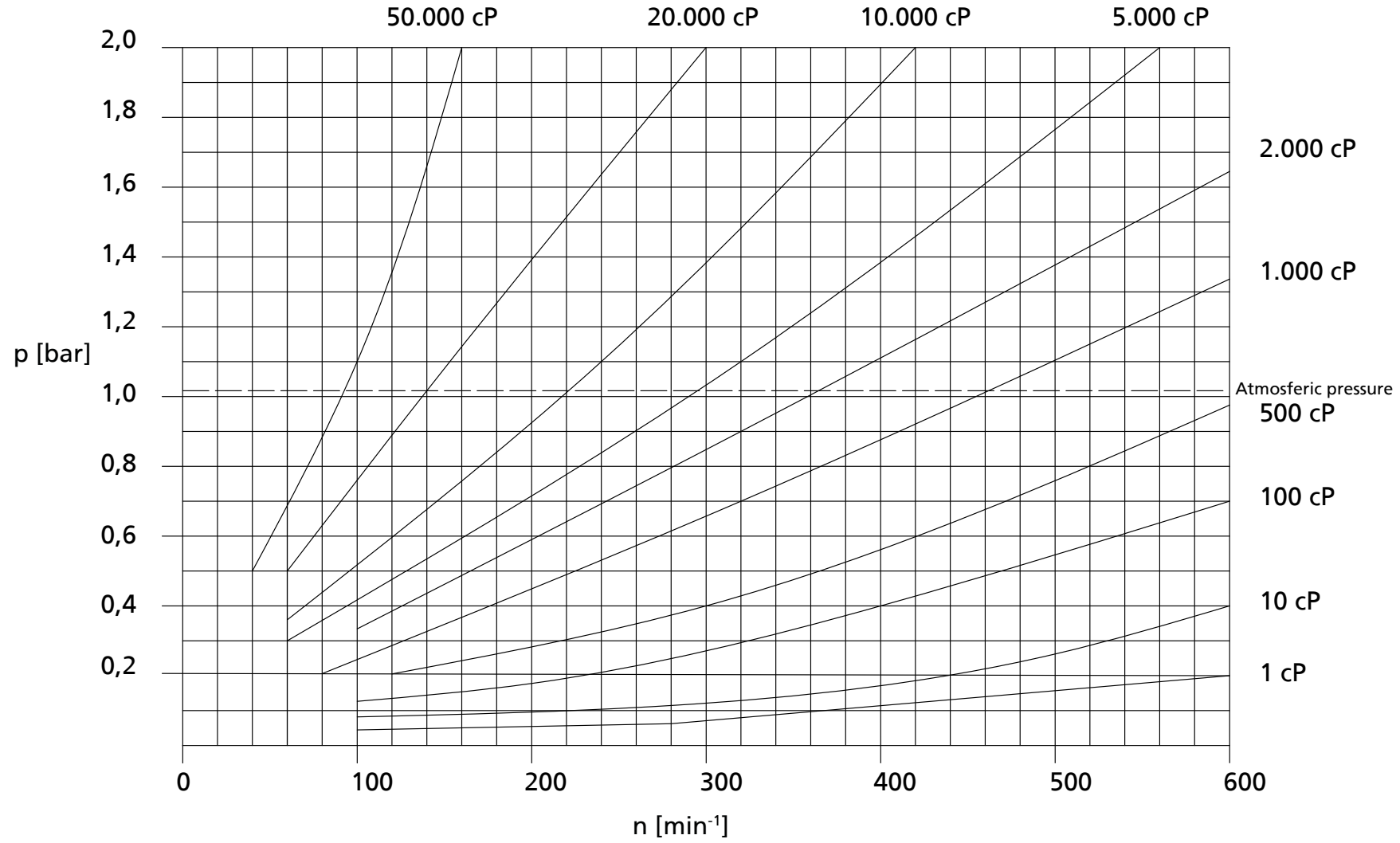
* Max. viscosity (cPs) at 0 bar (g) suction pressure / inlet pressure
 Nozzle diameter 200 mm
 Standard nominal nozzle diameter DN 200
 Max. speed at 1 cPs = 500 rpm
 It is recommended not to use all maximum values at the same time.

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



Total power = kW (1 cPs) x Fp

NPSH curve Vitalobe 660-680





KSB SE & Co. KGaA
Johann-Klein-Straße 9 • 67227 Frankenthal (Germany)
Tel. +49 6233 86-0
www.ksb.com