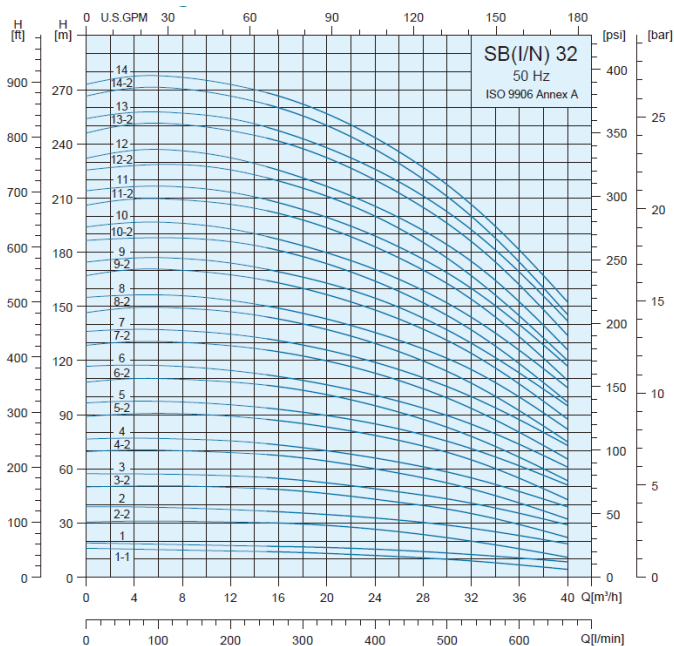


# Sentrifugalpumpe Stairs SB32

## Teknisk Beskrivelse

Sentrifugalpumpen brukes der man har gode forhold på sugesiden og som trykkforsterker. Ofte velger man å montere to eller flere pumper sammen for å tilpasse pumpekapasiteten til vannuttaket.

Driftssikkerheten bedres også om man setter sammen to pumper ved at den ene kan tas ut for service/reparasjon uten å måtte gjøre anlegget trykkløst



### Tekniske data

Modell SB	Motor kW	Strøm 3 x 220/380V	Hmaks meter	Høyde mm	Vekt kg
SB32-3	5.5	18.7/10.8A	54	1006	109.5
SB32-4	7.5	25.5/14.7A	72	1119	118.4
SB32-5	11.0	38.8/22.4A	90	1339	158.8
SB32-6	11.0	38.8/22.4A	107	1409	161.8
SB32-7	15.0	49.3/28.5A	125	1524	175.5
SB32-8	15.0	49.3/28.5A	143	1594	178.6
SB32-9	18.5	60.2/34.8A	161	1714	214.6
SB32-10	18.5	60.2/34.8A	179	1784	217.7
SB32-11	22.0	71.3/41.2A	196	1854	232.8

## Produktinformasjon

### Teknisk data

Pumpetype:	Sentrifugalpumpe
Maks vanntemp.:	+120°
Maks omg. Temp.:	+30°
Maks ing. trykk:	10 bar
Maks trykk:	22 bar
Maks sugehøyde:	6 meter
Maks kapasitet:	700 liter/min
Tilkobling:	DN 65
Isolasjonsklasse:	F
Kapsling:	IP55

### Materialer

Pumpehus:	Rustfritt EN 1.4301
Mellomstykke:	Støpejern EN-GJL200
Fot:	Støpejern EN-GJL200
Aksel:	Rustfritt EN 1.4057
Pumpehjul:	Rustfritt EN 1.4301
Akseltetning:	Tungsten karbid, Grafitt
Ledehjul:	Rustfritt EN 1.4301
Pakninger:	EPDM/VITON

### VVS Comfort AS

Næringsveien 10  
1820 Spydeberg  
vanning@vvscomfort.no  
+47 69 83 85 85

# Sentrifugalpumpe Stairs SB32

## Utregning for sughøyde

### Minimum inlet pressure - NPSHA

Calculation of the inlet pressure "H" is recommended in these situations:

- The liquid temperature is high.
- The flow is significantly higher than the rated flow.
- Water is drawn from depths.
- Water is drawn through long pipes.
- Inlet conditions are poor.

To avoid cavitation, make sure that there is a minimum pressure on the suction side of the pump.

The maximum suction lift "H" in feet can be calculated as follows:

$$H = P_b - \text{NPSHR} - H_f - H_v - H_s$$

$P_b$  = Barometric pressure in feet absolute.

(Barometric pressure can be set to 33.9 feet.

At sea level. In closed systems,  $p_b$  indicates system pressure in feet.)

NPSHR = Net Positive Suction Head Required in feet.

(To be read from the NPSHR curve at the highest flow the pump will be delivering.)

$H_f$  = Friction loss in suction pipe in feet.

(At the highest flow the pump will be delivering.)

$H_v$  = Vapor pressure in feet.

(To be read from the vapor pressure scale.

" $H_v$ " depends on the liquid temperature " $T_m$ ").

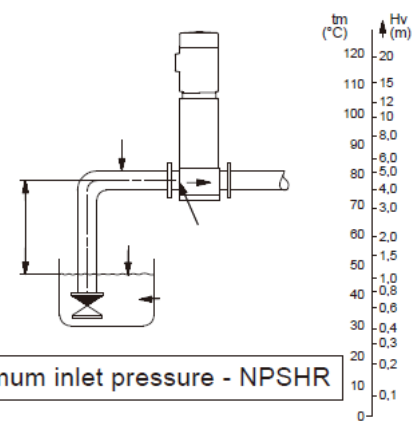
$H_s$  = Safety margin = minimum 2.0 feet.

If the "H" calculated is positive, the pump can operate at a suction lift of maximum "H" feet.

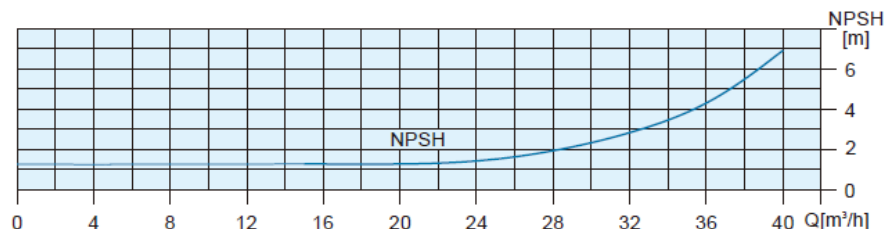
If the "H" calculated is negative, an inlet pressure of minimum "H" feet is required.

Note: In order to avoid cavitation never, select a pump whose duty point lies too far to the right on the NPSHR curve.

Always check the NPSHR value of the pump at the highest possible flow.



Minimum inlet pressure - NPSHR



#### VVS Comfort AS

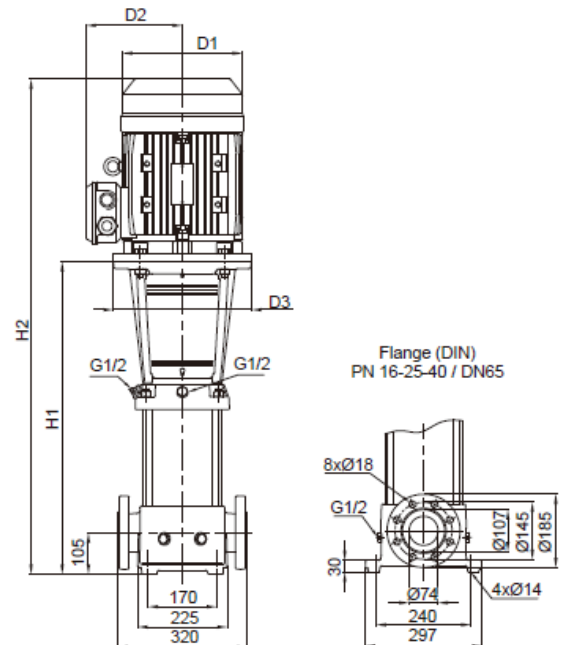
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# Sentrifugalpumpe Stairs SB32

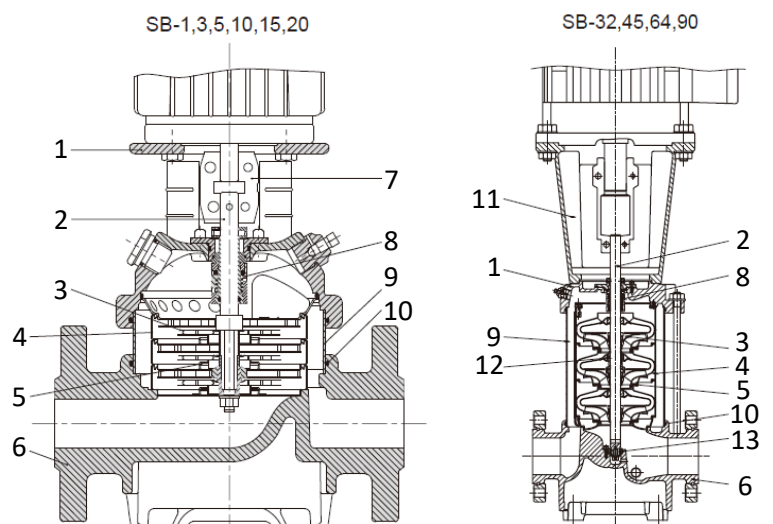
## Målskisse

SB32 leveres med DIN PN16-25-40 flens DN65 uten motflens.  
Motflensar leveres på forespørsel. Ring for pris og leveringstid.

Pumpe Modell	Dimensjon					Vekt kg
	H1	H2	D1	D2	D3	
SB32-1	504	799	177	141	280	74.3
SB32-2	574	900	220	161	280	89.6
SB32-3	644	1006	235	197	300	109.5
SB32-4	714	1119	235	197	300	118.4
SB32-5	894	1339	269	215	350	158.8
SB32-6	964	1409	269	215	350	161.8
SB32-7	1034	1524	269	215	350	175.5
SB32-8	1104	1594	269	215	350	178.6
SB32-9	1174	1714	318	241	350	214.6
SB32-10	1244	1784	318	241	350	217.7
SB32-11	1314	1854	318	241	350	232.8
SB32-12	1384	1924	318	241	350	234.8
SB32-13	1454	2114	390	295	400	341.2



- 1 Mellomstykke
- 2 Pumpaksel
- 3 Pumpehjul
- 4 Kammer
- 5 Halsring
- 6 Base
- 7 Kobling
- 8 Akseltetning
- 9 Mantel
- 10 O-ring mantel
- 11 Motorbrakett
- 12 Lager/lagerring
- 13 Bottenlager/lagerring



## Sentrifugalpumpe Stairs SB32


### Pump Nameplate Information

Type	①				
Model	②				
f	③	Hz	P2	④	kW
n	⑤	min <sup>-1</sup>	H <sub>max</sub>	⑥	m
Q	⑦	m <sup>3</sup> /h	H	⑧	m
p <sub>max</sub> /t <sub>max</sub>	⑨		bar/°C	⑩	
Serial No.	⑪				

**CE**

- ① Pump Type - Seal Type
- ② Pump Model
- ③ Frequency
- ④ Rated Power
- ⑤ Speed
- ⑥ Maximum Head
- ⑦ Capacity
- ⑧ Head Range
- ⑨ Max. Operating Pressure / Max. temperature
- ⑩ Rotating Direction
- ⑪ Serial Number

### Motor Nameplate Information

		<b>CE</b>	
① INDUCTION MOTOR			
TYPE	②	FR. ③	POLES 2 IEC 60034
OUTPUT	④ HP	kW	RATING CONT. INS. ⑤ IP ⑥
⑦ Hz	Δ	⑧ V	⑨ A E.F.F.% ⑩
	Y	V	A rpm ⑪
BEARINGS	⑫		WEIGHT kg
SER.NO.	⑬		DATE

- ① Phase
- ② Motor Model
- ③ Frame
- ④ Rated Power
- ⑤ Insulation
- ⑥ International Protection
- ⑦ Frequency
- ⑧ Voltage
- ⑨ Ampere
- ⑩ Efficiency
- ⑪ Revolutions Per Minute
- ⑫ Bearing Type
- ⑬ Serial Number