BRINKMANN PUMPS

2015

COOLANT PUMPS
MAIN CATALOG

COOLING, LUBRICATING, CHIP HANDLING,
PRESSURE BOOSTING, FLUSHING,
MAINTAINING TEMPERATURES ...

www.brinkmannpumps.com

Content

BRINKMANN PUMPS

60 Hz

Recommendations to choose Coolant Pumps

BRINKMANN PUMPS

60 Hz

Series	Application										Medium								Pollution			Amount of air in the fluid		Performance		
	boring	sawing	milling	turning	grinding	eroding	circulating	tempering	cooling	washing	emulsions	coolants/lubricants	grinding oils	thermal oils	dielectric	industrial water	de-ionized water	lees / solvents	coarse	medium	few	normal	increased	lifting	washing	pressuring
TA40 ... 80 / TB16 ... 100	●	●	●	●	●	❍	●				●	●	●	❍	❍			❍		●	●	●		●	●	
TA160 ... 600	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
TE/STE141 ... 146	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍	●	❍		❍		●	●	●		●	●	●
TA/STA301 ... 306	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
TA200 ... STA430	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
STA401 ... 407	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
STA601 ... 607	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
STA630 ... 1130	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
STA901 ... 904	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
STA1001 ... 4500	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
TL50 ... SAL430	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍	●	❍		❍	●	●	●	●	●	●	●	●
TL/STL141 ... 146	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍	●	❍		❍		●	●	●	●	●	●	●
TAL/SAL301 ... 607	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍	●	❍		❍	●	●	●	●	●	●	●	●
SAL630 ... 2500	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍	●	❍		❍	●	●	●	●	●	●	●	●
TGL/SGL331 ... 2200	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍	●	❍		❍	●	●	●	●	●	●	●	●
TAS301 ... 601	●	●	●	●	●	❍	●				●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
STS1001... 2000	●	●	●	●	●	❍	●				●	●	●	●	●	❍		❍	●	●	●	●		●	●	●
SBA141S ... 2000S (V)	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍	●			❍		●	●	●		●	●	●
SBG501S ... 1700S (V)	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍	●			❍		●	●	●	●	●	●	●
SBM140S	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	❍		❍		❍			●	●		●	●	
SFL650 ... 2350	●	●	●	●	●	❍	●		❍	❍	●	●	❍	❍		❍		❍	●	●	●	●	●	●	●	
SBF550S ... 1850S	●	●	●	●	●	❍	●		❍	❍	●	●	❍	❍				❍	●	●	●	●		●	●	
SFC820 ... 2320	●	●	●	●	●	❍	●		❍	❍	●	●	❍	❍				❍	●	●	●	●	●	●		
SXC2824S	●	●	●	●							●	●	❍	❍					●	●	●	●	●	●		
SPC820S	●	●	●	●							●	●	❍	❍					●	●	●			●		
SBC820S ... 1820S	●	●	●	●	●	❍	●		❍	❍	❍	❍	❍	❍	❍			❍	●	●	●	●	●	●	●	●
SFT450 ... 1400	●	●	●	●	●	❍	●			❍	●	●	●	●	●	❍		❍	●	●		●		●	●	
SFT1100-4	●	●	●	●	●	❍	●			❍	●	●	●	●	●	❍		❍	●	●		●		●	●	
SFT1554-C ... 3554	●	●	●	●	●	❍	●			❍	●	●	●	●	●	❍		❍	●	●		●		●	●	
BFT750S ... 1250S	●	●	●	●	●	❍	●			❍	●	●	●	●	●	❍		❍	●	●		●		●	●	
TS12 ... 24	●	●	●	●	●	❍	●	❍	❍	❍	●	●	●	●	●	❍	❍	❍			●	●			●	●
(S)TC25 ... 160	●	●	●	●	❍	❍	●	❍	❍		●	●	●	●	●	❍	❍			❍	●	●			●	●
(S)TH2 ... 17	●	●	●	●	❍	❍	●	❍	❍	❍	●	●	●	●	●	❍	❍	❍		●	●	●			●	●
FH2 ... 17	●	●	●	●	❍	❍		❍	❍	❍	●	●	●	●	●	❍	❍	❍		●	●	●			●	●
(S)TC260 ... 460	●	●	●	●	❍	❍	●	❍	❍	❍	●	●	●	●	●	❍	❍	❍		●	●	●			●	●
KTF61 ... 303						❍	●	❍	●		●	❍	❍		❍	❍	❍				●	●		●	●	●
KC60S	❍	❍	❍	❍		❍	●	❍	❍	❍	❍		●	❍	❍	❍	❍	❍			●	●			●	●
SB20S ... 60S	●	●	●	●	❍	❍	●	❍	❍	❍	●	●	●	❍	❍	❍	❍	❍		❍	●	●			●	
BMK3 ... BMK4						❍	●	●	❍	❍	●	❍	●	❍	●	❍	❍	❍			●	●			●	●
TB40-M ... 100M								●	●	❍			●	●	❍	❍	❍	❍		●	●	●			●	
BFS1 ... TFS6	●	●	●	●	❍						●	●	●	❍							●	●			●	●

● usable ❍ please ask before making a selection

Electrical Features

CE Motors acc. to EN 60034

Grade of protection IP55
Type of insulation F
Number of poles 2
Efficiencies EN 60034-30, IE2 1.0 HP (0.75) < 10 HP (7.5 kW); IE3 ≥ 10 HP (7.5 kW)

60 Hz	208–230 V ⅄⅄ 460 V ⅄	440 V–480 V ⅄	440 V–480 V △
up to 7.4 HP	Standard	●	●
10 HP – 13.4 HP	Standard	●	●
15 HP and higher	–	–	Standard

The voltage tolerance is ±5% in accordance with DIN EN 60034-1.

Available as a special design, e.g.:

60 Hz	200 V △	265 V △ 460 V ⅄	400 V ⅄	400 V △	575 V ⅄	575 V △
up to 7.4 HP	●	●	●	●	●	●
10 HP – 13.4 HP	●	●	●	●	●	●
15 HP and higher	–	□	□	□	□	□

50 Hz	200 V △	220–240 V △ 380–420 V ⅄	400 V ⅄	400 V △	380–420 V △	500 V ⅄	500 V △
up to 7.4 HP	●	●	●	●	●	●	●
10 HP – 13.4 HP	●	●	●	●	●	●	●
15 HP and higher	–	–	□	●	●	□	●

● Available
□ Upon request

Other voltages upon request.

Pole changing motors are nonstandard motors.
For operation on 60 Hz, as well as the choice of the corresponding motor winding, the manufacturer will also adapt the hydraulics, e. g. with smaller impellers or dummy stages.

For special demands, versions for use with a standardized voltage 50 Hz and 60 Hz (Transformer usage) are possible after consulting with the company,
For example: 3 x 400 V, ± 5 %, 50 – 60 Hz.

Comparison of motor efficiency classes worldwide

Efficiency Class	Europe	North America, Australia, New Zealand	China
Super premium efficiency	**IE4**	–	Grade 1
Premium efficiency	**IE3**	NEMA Premium	Grade 2
High efficiency	**IE2**	EPAct	Grade 3
Standard efficiency	**IE1**	–	–
Below standard efficiency	–	–	–

IE = International Efficiency

Motors of 10 HP (7.5 kW) and larger

Motor design available for ⅄/△ -starting.

⅄/△-starting is not required for centrifugal pumps. Screw-spindle pumps for ⅄/△-starting must be started without pressure. Soft-starting devices are an alternative to ⅄/△-starting.

Motor cycle time

Motors less 4.0 HP (3 kW) ►
up to 200 times per hour.

Motors from 4.0 HP (3 kW) to 5.4 HP (4 kW) ►
up to 40 times per hour.

Motors from 6.7 HP (5 kW) to 15 HP (11 kW) ►
up to 20 times per hour.

Motors 16 HP (12 kW) and larger ►
up to 15 times per hour.

Higher on/off cycling frequencies are available upon request.

UL/CSA Certification

Brinkmann motors up to 17.5 HP (13 kW) and up to max. 600 V are available as special designs with cUL-certification. Approval testing is carried out by the Underwriters Laboratories Inc. according to the UL 1004 Electric Motors Standard. The motor's name plate bears the identification:

„Recognized Component Mark for Canada and the United States".

Motors larger than 17.5 HP (13 kW) are available upon request with cRUus or CSA/UL approval testing.

Brinkmann motors ranging from 3.1 HP (2.3 kW) to 7.4 HP (5.5 kW) are available with the China Energy Label, GB18613-2012, Grade 3 and motors ranging from 10 HP (7.5 kW) to 17.5 HP (13 kW) are available with Grade 2 on request.

Additional country-specific approvals upon request.

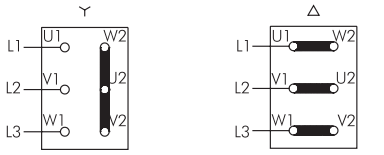
Electrical Features

Circuits

on request

Y (Star Connection) up to 7.4 HP (5.5 kW)

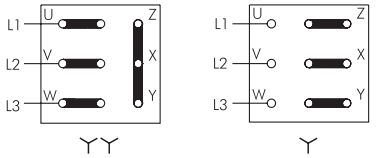
Δ (Delta Connection) 10, 12, 15, 17.5 HP (7.5, 9, 11, 13 kW)



Y 440 V – 480 V 60 Hz

Δ 440 V – 480 V 60 Hz

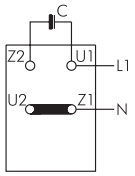
Voltage changing 1 : 2 YY / Y
e. g. 208 – 230 V / 460 V, 60 Hz



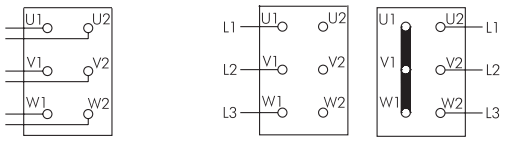
YY Low Voltage

Y High Voltage

Connection to **single-phase**
e. g. 1 x 110 V, 60 Hz:



Optional
Pole-changing motor 4/2 poles YY / Y
for 50 % reduction of speed can be chosen

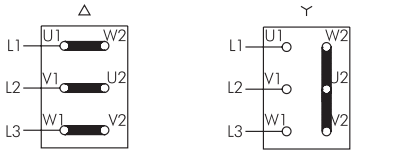


Dahlander circ. YY / Y with polechanger

(n = 1700 RPM) 4-poles Y

(n = 3400 RPM) 2-poles YY without polechanger

Voltage changing Δ / Y
e. g. 220 V – 240 V / 380 V – 420 V, 50 Hz
Δ (Delta Connection) Y (Star Connection)



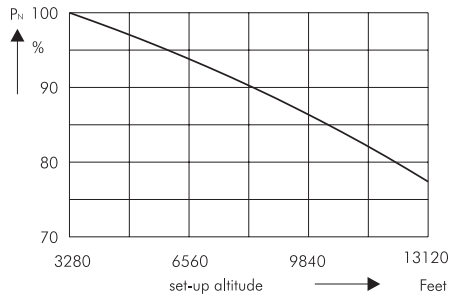
Δ 220 V – 240 V, 50 Hz

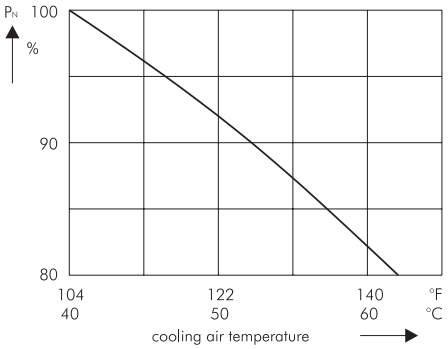
Y 380 V – 420 V, 50 Hz

Set-up altitude and coolant temperature

The specified power ratings (P_N) and operating values for the motors apply to operating mode S 1 according to EN 60034-1 (continuous operation) at a frequenzy of 60 Hz, rated voltage, a cooling air temperature (KT) of max. 104 °F (40 °C) and a set-up altidude of up to 3280 ft (1000 m) above sea level. The motors can also be used at a cooling air temperature above 104 °F (40 °C) up to max. 140 °F (60 °C) or set-up altitude above 3280 ft (1000 m) above sea level. In such cases the power rating must be reduced according to the diagrams, or an appropriately larger motor version or higher heat class has to be selected. However, a deviation from the specified data is necessary when the cooling air temperature is reduced according to table simultaneously at set-up altitudes higher than 3280 ft (1000 m) above sea level.

Set-up altitude feet	Maximum cooling air temperature for heat class F °F / °C
0 up to 3280	104 / 40
3280 up to 6560	86 / 30
6560 up to 9840	66 / 19
9540 up to 13120	48 / 9





Noise Levels

The noise levels stated in the catalog are valid for 60 Hz operation. For reduced noise levels special axial motor fan blades are available upon request.

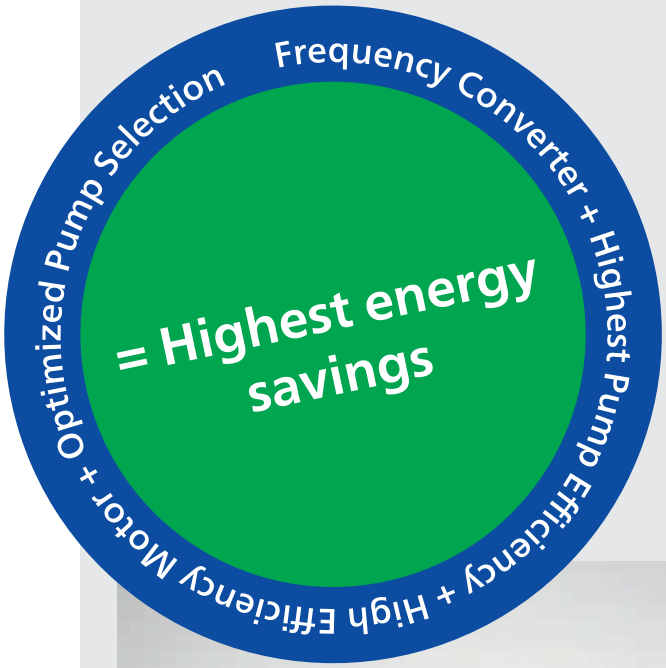
Current / Rated current

The current stated in the data sheets is used for the dimensioning of electrical components. The effective rated current at rated voltage may be lower.

The **energy consumption of a coolant pump** is primarily influenced by the efficiency of the pump, the efficiency of the motor and the sizing of the pump with respect to the working point of the system.

Within the scope of our **seminars** we offer our support for:
- pump selections
- supply you with detailed information on the use of variable frequency drives
- show potential energy savings through pump controls
- support you locally in retrofitting existing applications and systems

For detailed information please do not hesitate to contact us.



Brinkmann coolant pumps with frequency converter 1.75 – 75 HP (1.3 – 55 kW)

Pumps with integrated frequency converter offer the optimum supplement to the existing product line for your application.

With the use of a frequency converter the Q/H curve which is typical for centrifugal pumps, is replaced by a performance curve array as shown in figure 1. This makes it possible to regulate the pump to various operating points within the performance curve array, allowing the pump to be optimally matched to your specific application.

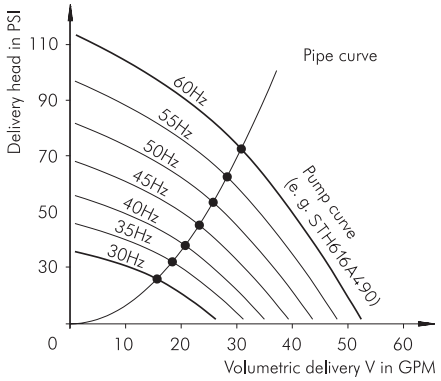


Fig. 1: Performance map

Pump Regulation

Regulation is an operation with which a physical value such as pressure is continuously measured and compared with a set value. In the event of deviation the regulation device (here a PI controller) provides for the desired adaptation.

With regulation a check is made whether a desired state is achieved or not.
This allows a previously set pressure to be held constant within certain ranges in a process regardless of the flow quantities supplied.

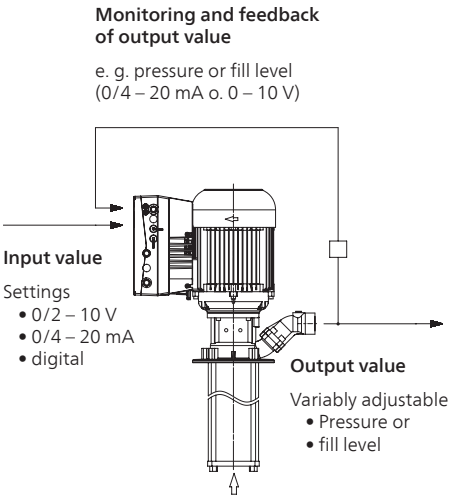


Fig. 2: Scheme of regulation

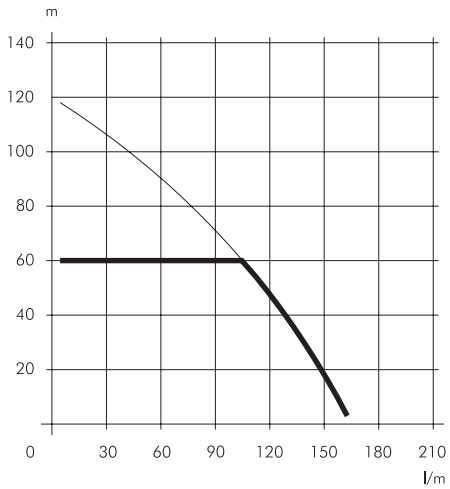


Fig. 3: Pressure regulation limited to max. 85 PSI (6 bar)

Pump control

Control is an operation in which a physical value such as pressure or flow rate is influenced by other values.

Within pump control we also speak of an open effective circuit, because the effect of the control is not monitored. Interferences occurring in the system cannot be compensated, because the output value has no effect on the input value.

Pumps with integrated frequency converter are always supplied preprogrammed by the manufacturer.

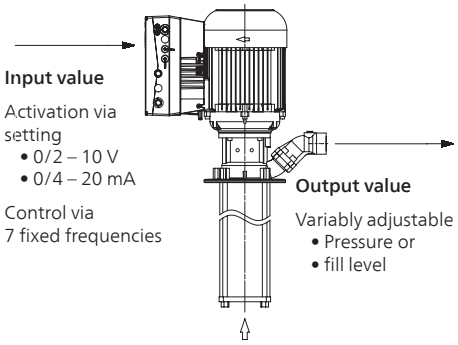


Fig. 4: Control scheme

1. Pump control via analog signal

When the coolant pump is controlled by using a frequency converter, nearly an infinite number of pressures can be achieved, for example, for different tools.

Usually the layout of the pump is limited to the 50 Hz version. Operation at higher frequencies is possible for various pumps with power reserves after consulting with the company.

The frequency converter is then operated at the current limit. This means the motor is operated at the set motor current rating at its maximum. If the pump requires more motor power for the operating point, the frequency is reduced until the max. motor current is reached again.

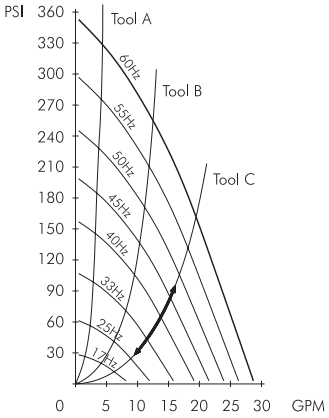


Fig. 5: Analog signal (infinite)

2. Pump control via fixed frequencies (max. 7)

An alternative to analog pump control is digital control of the frequency converter over 3 digital inputs. Here up to 7 different fixed frequencies can be set.

With fixed frequency control it is possible to realize different pressure stages with one tool.

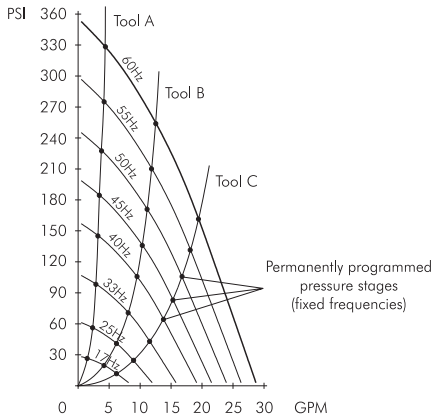


Fig. 6: Fixed frequencies

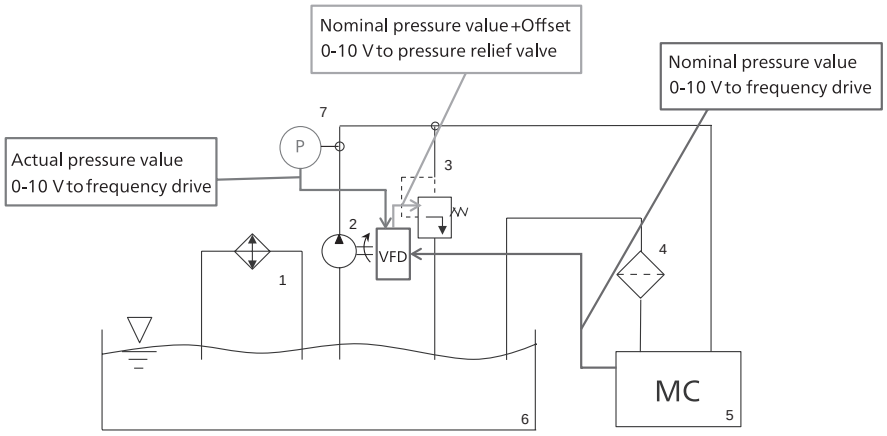
Brinkmann Pumps Offset Regulation for High Pressure Pumps

The target pressure is calculated by the VFD based on the working point and is not supplied by the machine tool.

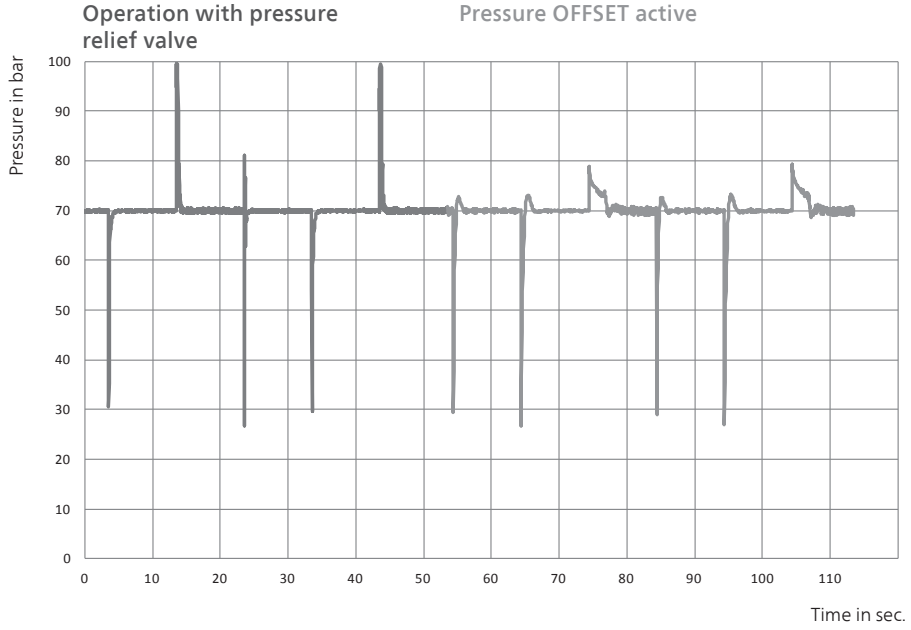
The intelligent control of the valves allows for minimizing potential pressure spikes.

1 = Chiller
2 = Screw spindle pump with frequency drive (VFD)
3 = Pressure relief valves
4 = Filter
5 = Machine tool
6 = Coolant tank
7 = Pressure sensor

Registered German utility model!



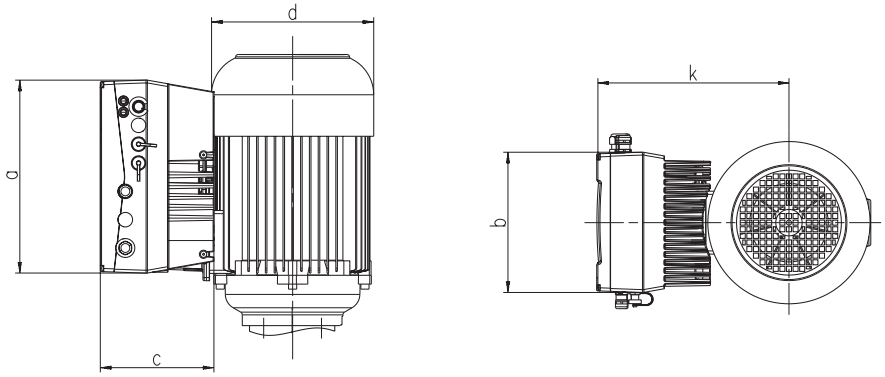
Minimizing pressure peaks during tool change



Control / Regulation

TECHNICAL DATA Frequency converter FKO (1.5 – 10 HP)				
Function	**Specification**			
Rated voltage	3 AC 400 V -10 % ... 480 V +10 %			
Rated frequency	50/60 Hz			
Output ranges	... 2.0 HP	3.0 – 5.4 HP	7.4 – 10 HP	15 – 29.5 HP
Housing size	A	B	C	D
Protective system	IP 65			IP 55
EMV approvals acc. to EN61800-3US	C2			
Temperature range	14 °F ... 122 °F			
Overload capability	1.5 times rated output current			
Protective functions	undervoltage, overvoltage, I^2t-restriction, short circuit, motor temperature, converter temperature, anti-tilt protection			
Output frequency range	according to layout at factory			
Digital inputs	4			
Fixed frequencies	7			
Digital outputs	2			
Analog inputs	2 analog inputs (0/2 – 10 V, 0/4 – 20 mA)			
Analog outputs	0 – 10 V (-Imax = 10 mA) or 0 – 20 mA (burden R = 500 Ω)			
Process control	PID			
Relay outputs	2 x NO contacts 250 V AC 2 A			
USB interface	USB on plug M12 (RS485/RS232)			
Manual control unit (optional)	MMI with cable			
BUS modules (optional)	Profibus DP, CANopen, EtherCAT			
UL approval	yes			

Dimensions

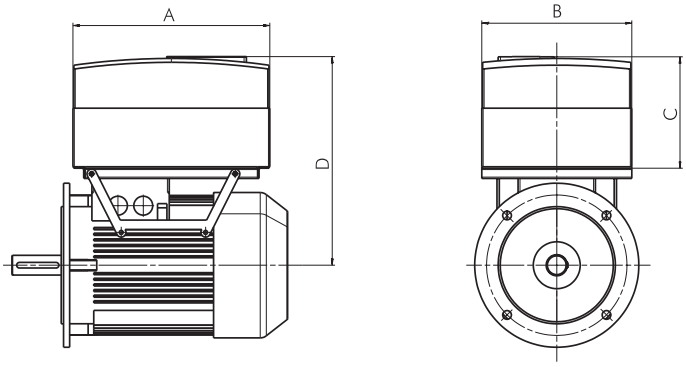


Motor power HP	housing size	a inch	b inch	c inch	d inch	k inch
1.5 – 2.3	A	9.17	6.02	4.72	6.93	8.70
2.5 – 5.4	B	10.63	7.44	5.24	8.58	9.49
6.7 – 12	C	12.09	9.17	7.13	10.16	12.05
15 – 29.5	D	16.30	11.57	9.77	12.36	15.75

Control / Regulation

TECHNICAL DATA Frequency converter FKS (15 – 74 HP)				
Function	**Specification**			
Rated voltage	3 AC 380 V ... 480 V ±10 % three-phase			
Rated frequency	50/60 Hz			
Output ranges	2.0 ... 4.0 HP	5.4 ... 10 HP	15 ...23.5 HP	40 ... 74 HP
Housing size	A	B	C	D
Protective system	IP 55			
Filter class A	integrated			
Temperature range	14 °F ... 104 °F			
Control procedure	U/f			
Overload capability	1.5 times rated output current			
Protective functions	undervoltage, overvoltage, overload, short circuit, motor failure, rotor lockup, excessive motor temperature, excessive converter temperature			
Output frequency range	according to layout at factory			
Digital inputs	6, 4 of these can be parameterized as required			
Fixed frequencies	4			
Fadable frequency ranges	4			
Relay outputs	2 x NO contacts 250 V AC 1 A			
Analog inputs	2 analog inputs (0/2 – 10 V, 0/4 – 20 mA), 1 input for PI controller			
Serial interface	RS 232			
Process control	PI			
Multiple pump configuration	up to 6 pumps			
UL approval	no			

Dimensions

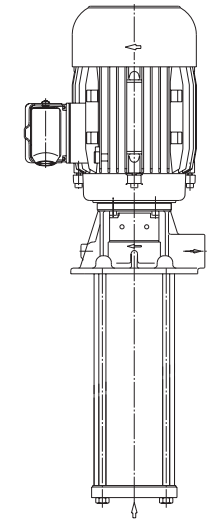


Motor power HP	housing size	A inch	B inch	C inch	D inch
2.0 – 4.0	A	10.24	7.48	6.22	11.26
5.4 – 10	B	12.80	9.84	6.69	13.50
12 – 25	C	16.54	12.60	9.25	17.32
29.5	C	16.54	12.60	9.25	20.28
40 – 50	D	23.62	17.72	11.42	24.02
60	D	23.62	17.72	11.42	25.00
74	D	23.62	17.72	11.42	26.26

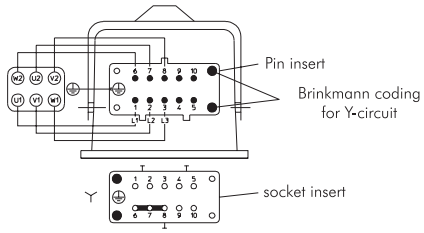
DESINA – DEcentral and Standardized INstAllation technology

DESINA includes a complete concept for standardization and decentralization of the electronic and fluid technical installation of machine tool OEMs, the automotive industry and its suppliers. The specifications for the required components were defined in cooperation between the machine construction, automotive and supplier industry.
DESINA considers proven solutions such as open bus systems, industrial standards for connectors, etc.
By standardizing components, interfaces and connection elements it is possible to realize highly varying field bus systems on a common physical basis.

Pin assignment for HAN 10-pin connector for pumps with motors up to 7.4 HP (5.5 kW)

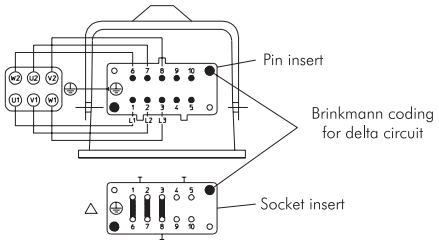


Star circuit



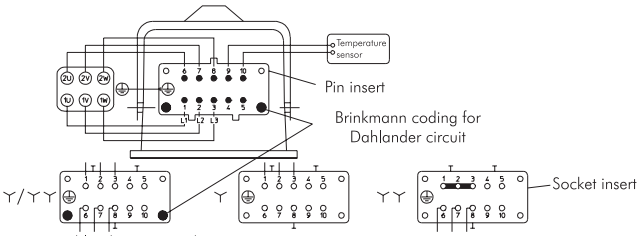
Jumper inserted into counter connector.

Delta circuit



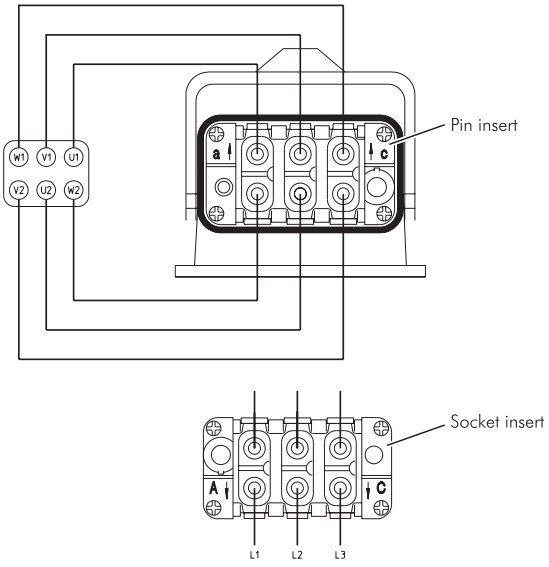
Jumps inserted into counter connector.

Dahlander circuit

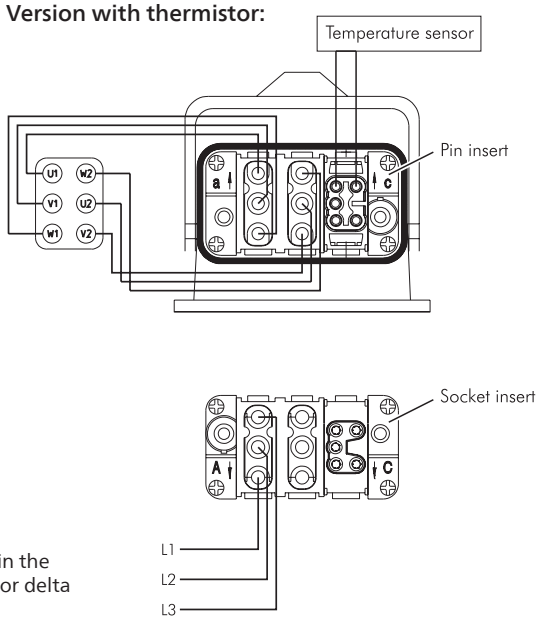


Jumper inserted into counter connector.

Assignment for HAN modular plug connector for pumps with motors from 10 HP to 17.5 HP (7.5 kW to 13 kW)



Version with thermistor:



Insert jumper in the counter plug for delta connection.

Hydraulic Features

BRINKMANN's program of coolant pumps offers appropriate design approaches for different applications.

Based upon the **centrifugal pump system**, we offer **immersion pumps with open**, **semi-open** and **closed impellers** for different coolants.

Patented quick suctioning pumps **series TL, SAL, SFL, SGL** are provided **for handling** of air inflated coolants.

Vortex pumps series SFT and lifting pumps series SFL **are suitable for coolants with heavy chip loads**.

Suction immersion pumps Series TAS/STS make it possible to connect to vacuum filters because of their single connection on the suction side (for instance, with a slot screen).

Lifting pumps series TAA pump are for foam-sensitive cooling lubricants.

Immersion pumps series (S)TC, (S)TH for medium pressure get **optimal hydraulic efficiency** due to their **closed impellers**; simple pre-filtration is recommended.

High pressure in coolant systems is provided by **screw pumps using** longwearing **silicon carbide housings.** Please ask for additional applications by informing us about working conditions in your devices.

Please note that with all immersion pumps, the **highest fill level of coolant should stay a few inches below** the **mounting flange. The pump characteristics, shown in this catalog, apply to water at 68 °F (20° C) at 4.6 SSU (1 mm²/s).** Higher viscosities need larger motors. Coolants with specific weight of less than 1 need less power and with more than 1 need more power.

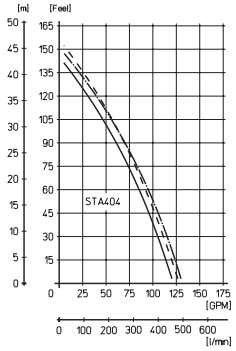
Centrifugal pump pressure is stated as delivery head in Feet, (m) and PSI.

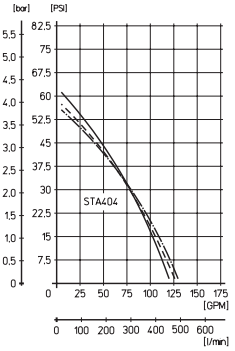
The diagrams of immersion pump types STA404; with semi-open impellers, and STC63S560, with closed impellers, show the rates for coolants of different viscosities and different specific weights in ft (m) and PSI (bar) respectively.

Noise levels refer to 60 Hz operation.

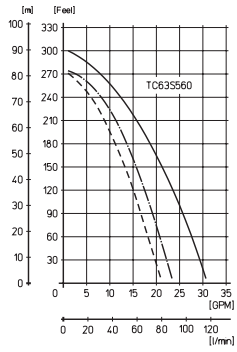
The viscogram shows examples of common oils. Upon request, oil curves for specific pumps can be provided.

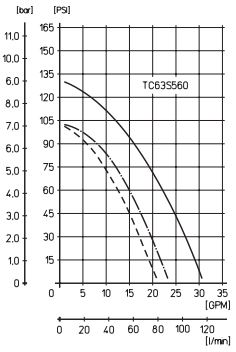
STA404
with semi-open impellers

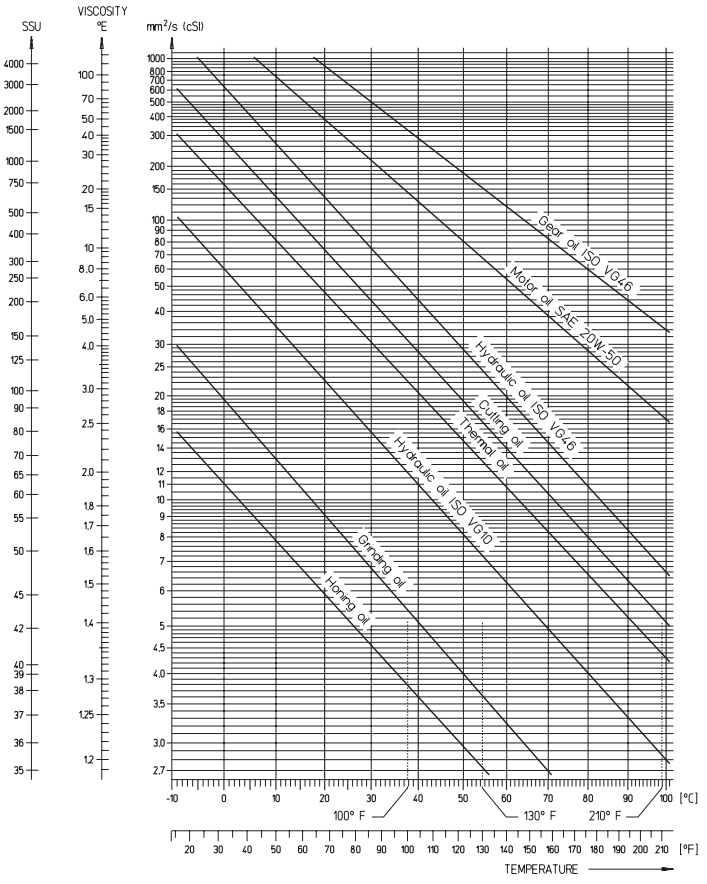




(S)TC63
with closed impellers



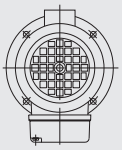
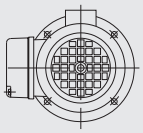
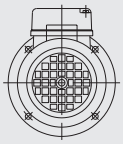
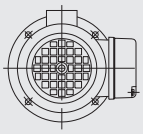




Water ————
Oil _ . _ . _ 210 SSU spec. weight
Oil _ _ _ _ _ 415 SSU 0,87

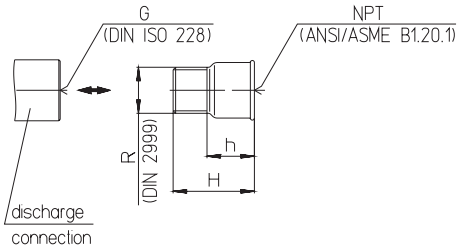
Terminal Box Position acc. to EN 12157

In accordance with EN 12157 the terminal box is positioned above the outlet on immersion and suction pumps: Position 1 is the standard design for immersion pumps, position 2 for suction pumps, and position 3 for miniature centrifugal pumps.
If a non-standard position is required, please provide details when ordering.

Position	Motor overhead view	
1		Terminal box opposite to discharge port. Standard set-up for immersion pumps.
2		Terminal box to the left of the discharge port. Standard set-up for suction pumps. For Horizontal End-Suction pumps please refer to page 32-1.
3		Terminal box on the discharge port side. Standard set-up for miniature centrifugal pumps.
4		Terminal box on the right of the discharge port.

Pipe / discharge connection

Pipe / discharge connection threads G are made according DIN ISO 228. Optional adaptors to threads NPT can be ordered at additional charge according to the following dimensions:



Discharge Inch	H Inch	h Inch
1/2	1.7	1.02
3/4	1.9	1.14
1	2.1	1.26
1 1/4	2.3	1.38
1 1/2	2.5	1.50
2	2.7	1.62
2 1/2	2.9	1.74

G (DIN ISO 228)	parallel internal thread
R (DIN 2999)	tapered outside thread
NPT (ANSI/ASME B1.20.1)	tapered internal thread

Immersion-depth extension

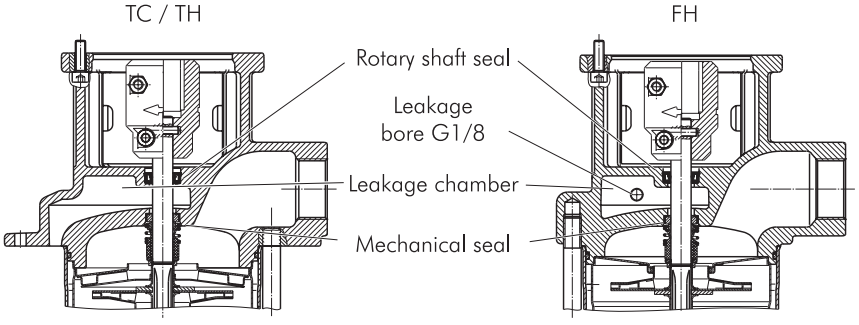
Immersion depths of the TC and TH pumps can be extended by dummy stages to any immersion depth available in the series without having to change the electrical and hydraulic power.

Example:
The pumping rate of the TC63S350 pump is required at an immersion depth of 29.72 Inch (750 mm).
Solution: TC63S350 – 750

Paintwork

Standard	RAL 9005
Upon request	Other colors and unpainted or primed available upon request

Leakage chamber / Leakage connections



Small leaks flow back through the leakage chamber into the tank without reaching the outside.

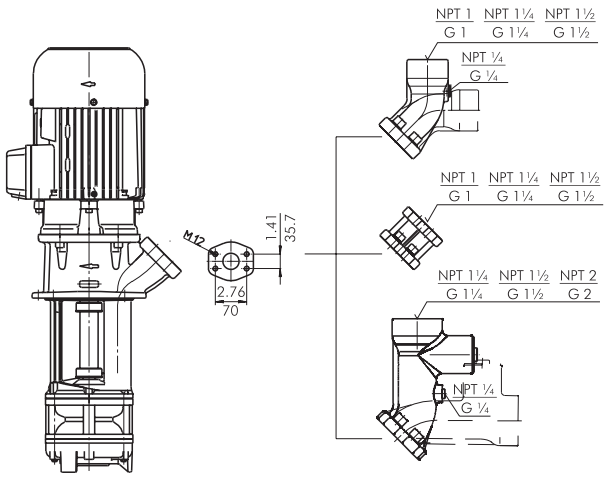
By connecting a leakage line it is possible to direct minor leaks back into the tank.

SAE / 45 Degree Flanges

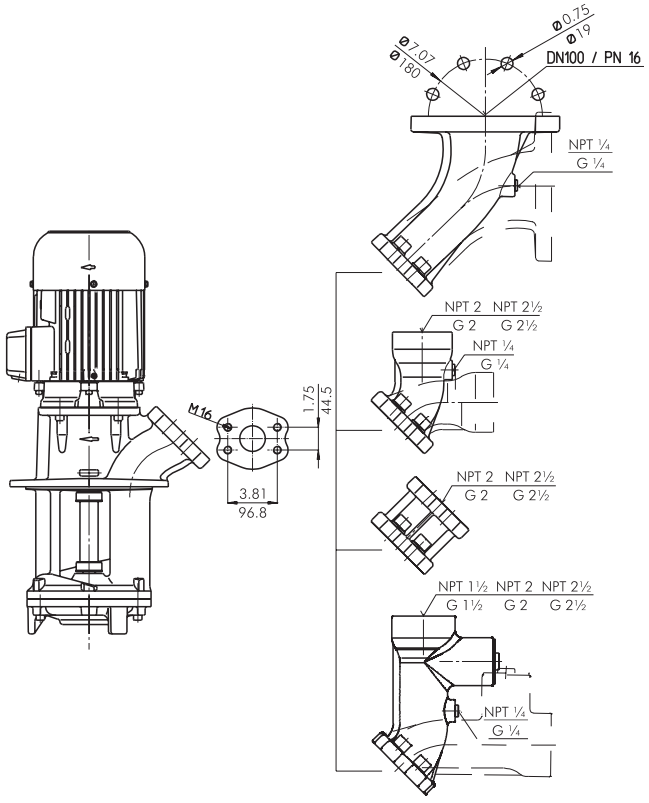
Brinkmann Pumps with SAE flanges or 45 degree flanges

Most Brinkmann pumps with motors larger than 0.67 HP (0.5 kW) are equipped with the user friendly SAE flange or 45 degree flange connection which allows for either vertical or horizontal pipe connection. Each SAE flange or 45 degree flange is equipped with an additional NPT ¼ (G ¼) pressure gauge connection.
For optimized chip transport and to avoid chip blockages inside the pumps, all flow is directed in long soft turns. All flanges are designed in a way that any cross section diameter changes down stream are always increasing never decreasing in order to prevent bottle necks inside the pump.

Small pump body (Ø 5.51 inch / Ø 140 mm)



Large pump body (≥ Ø 7.87 inch / ≥ Ø 200 mm)



SAE flange NPT 1, NPT 1¼, NPT 1½, NPT 2 (G 1, G 1¼, G 1½, G 2)

Standard as shown on data sheets. Fully interchangeable.
Upon request also available for **TC** and **TH** pumps.

SAE Extension Port

This extension port is available upon request for all pumps which are featuring an SAE flange.

Regulating Valve for SAE flange NPT 1, NPT 1¼, NPT 1½, NPT 2 (G 1, G 1¼, G 1½, G 2)

This regulating valve allows to adjust the flow rate of the pump even during regular operation. This valve has no complete shut off function. An additional check valve is available upon request.

Flange DN100/PN16

This flange is available upon request for all pumps with larger pump body which are featuring a 45 degree flange.

45 degree flange NPT 2, NPT 2½ (G 2, G 2½)

Standard as shown on data sheets.
NPT 2 (G 2) is available upon request instead of the NPT 2 ½ (G 2 ½) without surcharge.

Extension Port for 45 degree flange

This extension port is available upon request for all pumps which are featuring a 45 degree flange.

Regulating Valve for 45 degree flange NPT 1½, NPT 2, NPT 2½ (G 1½, G 2, G 2½)

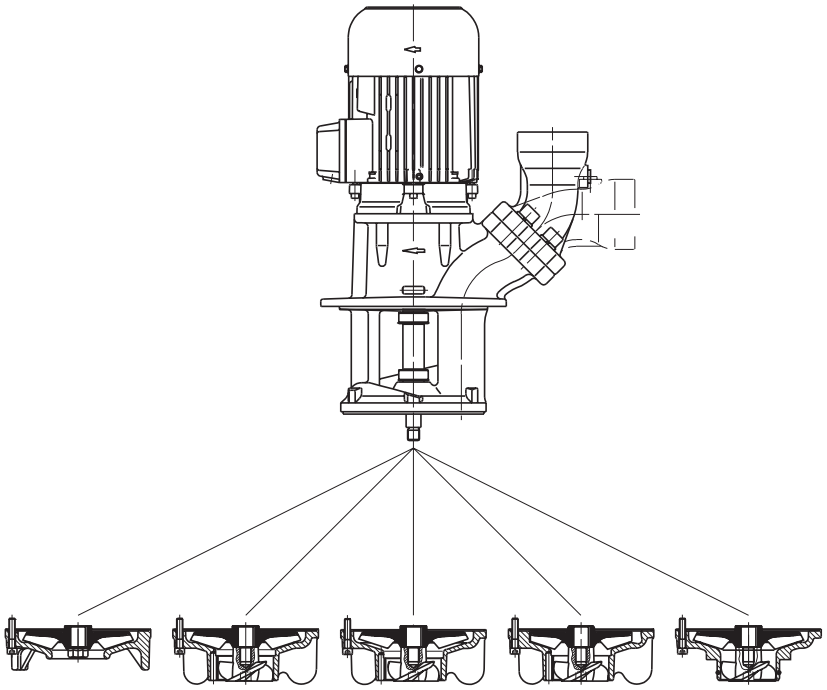
This regulating valve allows to adjust the flow rate of the pump even during regular operation. This valve has no complete shut off function. An additional check valve is available upon request.

Hydraulic modular system

The comprehensive hydraulic modular system ensures best adaptation to your specific application requirements.

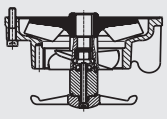
Depending on whether water soluble coolant or oil is used as coolant during the machining process and depending on the application parameters several hydraulic options are available, including an integrated variable frequency drive, if selected.

The range includes standard lifting pumps such as the STA900 with 0.4 inch (10 mm) sphere size passage as well as the classic Vortex pumps such as the SFT1100 with a 2.0 inch (50 mm) sphere size passage and extends all the way to the cutter pump with its integrated cutting mechanism. All pumps are equipped with a 45 degree flange which allows for a either vertical or horizontal pipe connection and which offers a NPT ¼ (G ¼) port for the connection of a pressure gauge.



STA	SAL	SFL	SGL	STS
Immersion pumps	**Quick suctioning immersion pumps**	**Quick suctioning immersion pumps**	**Quick suctioning immersion pumps**	**Suction immersion pumps**
Lifting pump for standard applications	Lifting pump for **emulsions with some percentage of air**	Lifting pump for **emulsions/oil with increased percentage of chips**	Lifting pump for **oil or water soluble coolants with high percentage of air** (fine machining)	Pump for vacuum filter, e.g. on split sieve basis for vacuums from -5 ... -7 PSI (-0.3 ... -0.5 bar)
	Quick suctioning feature	Quick suctioning feature	Quick suctioning feature	

Option:



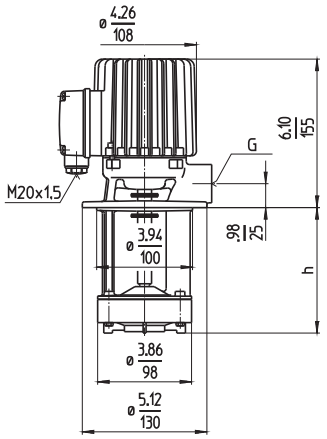
SFL and **SGL pumps** are also available with an additional agitator at the pump suction. The agitator can either be supplied directly with the pump assembly or is available as a separate component for installation in the field at a later date.

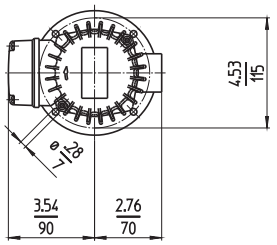
Immersion Pumps
TA40...80

Semi-open impellers

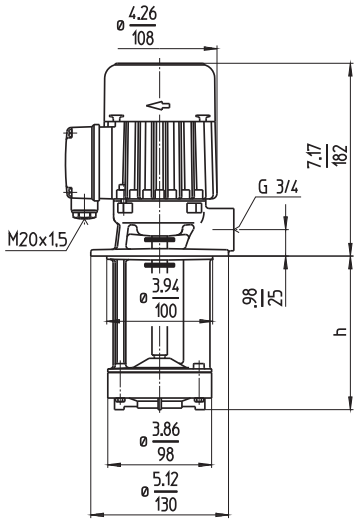
60 Hz

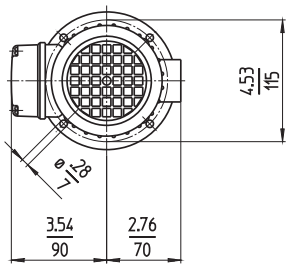
TA40





TA80





Type	Flow at head GPM /Feet *l/min /m*	Depth of immersion h inch *h mm*	Thread G	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TA40S90	10/13 *35/4*	3.54 *90*	G ½	10.1 *4.6*	0.18 *0.135*	208-230 460	60 60	0.46 0.23	3250 3250
120		4.72 *120*		10.6 *4.8*					
170		6.69 *170*		11.0 *5.0*					
220		8.66 *220*		11.9 *5.4*					
270		10.63 *270*	G ¾	13.0 *5.9*					
350		13.78 *350*		14.3 *6.5*					
TA80S120	20/15 *80/4*	5.12 *130*	G ¾	12.1 *5.5*	0.3 *0.22*	208-230 460	60 60	0.95 0.55	3200 3200
170		7.09 *180*		13.0 *5.9*					
220		9.06 *230*		13.7 *6.2*					
270		11.02 *280*		14.3 *6.5*					
350		14.17 *360*		16.1 *7.3*					

Dimensions in Inches /mm

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

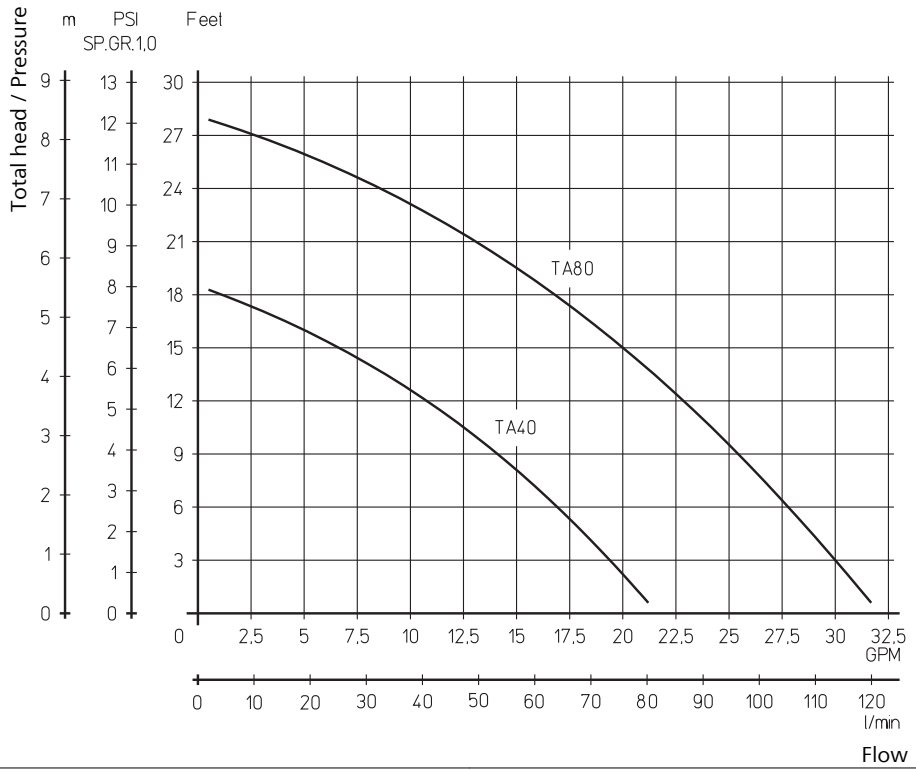
Pumping temperature
- 30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	POM
Impeller	POM
Shaft	steel
Optional:	
Cover	cast iron
	cast iron with thread
Impeller	brass
	cast iron
Noise level	
TA40	48 dBA
TA80	56 dBA

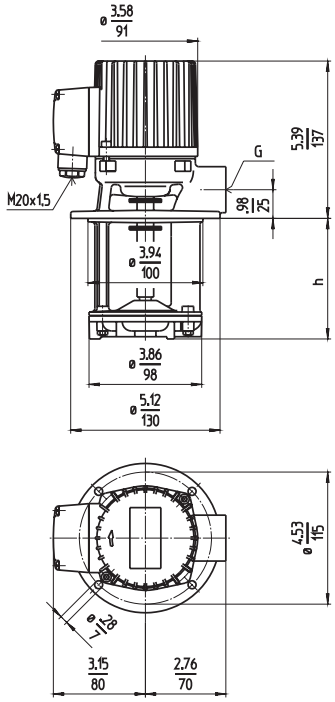
For position of terminal box, see mechanical features within the technical information section.
Standard for immersion pumps:
terminal box opposite to pump discharge = position 1.
Terminal box can be rotated in 90° increments.

On request G ¾ can be supplied for TA40S90 to 220 mm depth of immersion.

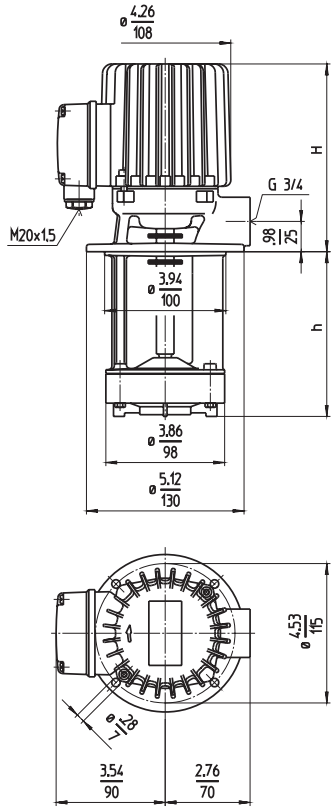


Immersion Pumps
TB16...100
Semi-open impellers

TB16, 25, 40



TB63, 100



Dimensions in Inches / mm

Type	Flow at head GPM / Feet *l/min. / m*	Thread G	Depth of immersion h Inch	*mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 Phase V	Frq Hz	Rated current AMPS	Speed RPM
TB16/90	6/6	G ½	3.54	*90*	9.0	*4.1*	0.1	220-240	50	0.35	2800
120	*16/2*		4.53	*115*	9.5	*4.3*	*0.07*	380-420	50	0.2	2800
170			6.50	*165*	10.1	*4.6*		460	60	0.2	3300
220			8.46	*215*	10.8	*4.9*					
TB25/90	10/6	G ½	3.54	*90*	9.3	*4.2*	0.14	220-240	50	0.38	2700
120	*30/2*		4.53	*115*	9.7	*4.4*	*0.1*	380-420	50	0.22	2700
170			6.50	*165*	10.1	*4.6*		460	60	0.22	3200
220			8.46	*215*	11.0	*5.0*					
270		G ¾	10.43	*265*	12.1	*5.5*					
350			13.58	*345*	13.4	*6.1*					
TB40/90	13.5/6	G ¾	3.74	*95*	9.5	*4.3*	0.16	220-240	50	0.44	2700
120	*50/2*		4.72	*120*	9.9	*4.5*	*0.12*	380-420	50	0.25	2700
170			6.69	*170*	10.4	*4.7*		460	60	0.25	3200
220			8.66	*220*	11.2	*5.1*					
270			10.63	*270*	12.3	*5.6*					
350			13.78	*350*	13.7	*6.2*					
TB63/90	20/6	G ¾	4.13	*105*	10.6	*4.8*	0.3	220-240	50	0.71	2800
120	*75/2*		5.12	*130*	11.2	*5.1*	*0.21*	380-420	50	0.41	2800
170			7.09	*180*	12.1	*5.5*		460	60	0.41	3300
220			9.06	*230*	12.8	*5.8*					
270			11.02	*280*	13.4	*6.1*					
350			14.17	*360*	15.2	*6.9*					
TB100/120	24/6	G ¾	5.12	*130*	11.5	*5.2*	0.32	220-240	50	0.76	2750
170	*100/2*		7.09	*180*	12.3	*5.6*	*0.24*	380-420	50	0.44	2750
220			9.06	*230*	13.0	*5.9*		460	60	0.44	3250
270			11.02	*280*	13.7	*6.2*					
350			14.17	*360*	15.4	*7.0*					

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant. The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm^2/s) and 68 °F (20 °C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.

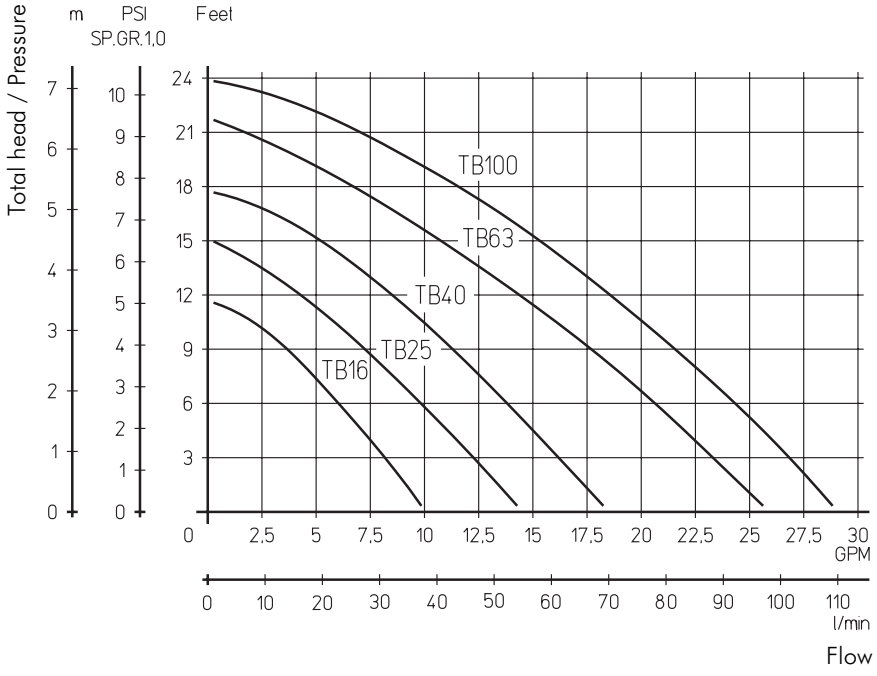
Applications

Types of fluid	
	coolant
	cooling/cutting oils
Kinematical viscosity	
	...200 SSU (...45 mm^2/s)
Pumping temperature	
	30...140 °F (0...60 °C)

Materials of construction

Pump body	cast iron
Cover	POM
Impeller	POM
Shaft	steel
Optional:	
Impeller	brass
	cast iron
Cover	cast iron
	cast iron with thread
Noise level / 50 Hz	
TB16...TB100	45 dBA

For position of terminal box, see mechanical features within the technical information section.
Standard for immersion pumps:
terminal box opposite to pump discharge = position 1.
Terminal box can be rotated in 90° increments.
On request G ¾ can be supplied for TB25/90 to 220 mm depth of immersion.

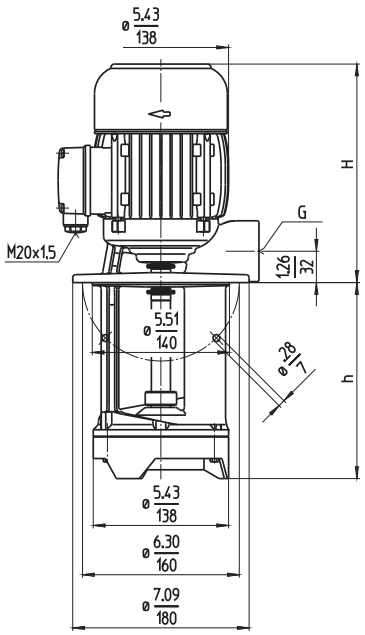


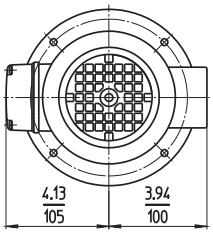
Immersion Pumps
TA160...600

Semi-open impellers

60 Hz

TA160, 250, 400
TA600





Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Thread G	Weight Lbs	 *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TA160S200	68/6 *255/2*	8.8 *223*	7.87 *200*	G 1 ¼	25.4	*11.5*	0.67 *0.5*	208-230 460	60 60	2.5 1.4	3300 3300
270			10.63 *270*		27.6	*12.5*					
350			13.78 *350*		29.8	*13.5*					
440			17.32 *440*		32.0	*14.5*					
550			21.65 *550*		34.2	*15.5*					
TA250S200	90/6 *345/2*	8.8 *223*	7.87 *200*	G 1 ¼	26.5	*12*	0.85 *0.63*	208-230 460	60 60	3.0 1.5	3250 3250
270			10.63 *270*		28.7	*13*					
350			13.78 *350*		30.9	*14*					
440			17.32 *440*		33.1	*15*					
550			21.65 *550*		35.3	*16*					
TA400S200	105/6 *400/2*	9.5 *241*	7.87 *200*	G 1 ½	30.9	*14*	1.15 *0.85*	208-230 460	60 60	5.2 2.5	3300 3300
270			10.63 *270*		33.1	*15*					
350			13.78 *350*		35.3	*16*					
440			17.32 *440*		37.5	*17*					
550			21.65 *550*		39.7	*18*					
TA600S210	120/6 *460/2*	9.5 *241*	8.27 *210*	G 1 ½	33.1	*15*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300
280			11.02 *280*		35.3	*16*					
360			14.17 *360*		37.5	*17*					
450			17.72 *450*		39.7	*18*					
560			22.05 *560*		41.9	*19*					

BRINKMANN PUMPS

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.

Applications

Types of fluid
- coolants
- cooling/cutting oils

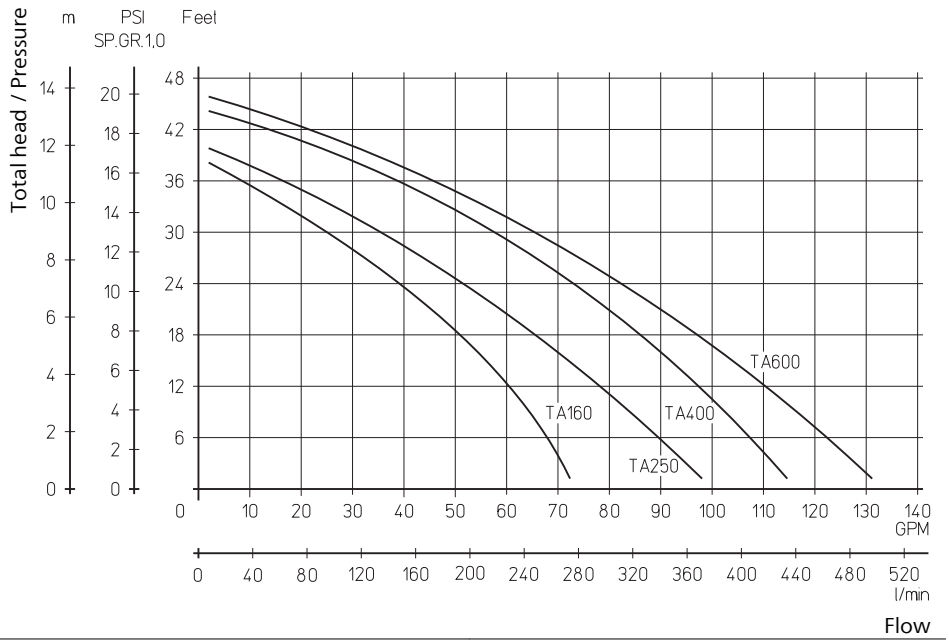
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...140 °F (0...60 °C)
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	POM
	cast iron (TA600)
Impeller	POM
	brass (TA600)
Shaft	steel
Optional:	
Cover	cast iron (TA160...TA400)
Suction cover	with threaded inlet
Impeller	brass (TA160...TA400)
	cast steel (TA160...TA600)
Noise level	
TA160...TA600	62 dBA

For position of terminal box, see mechanical features within the technical information section.

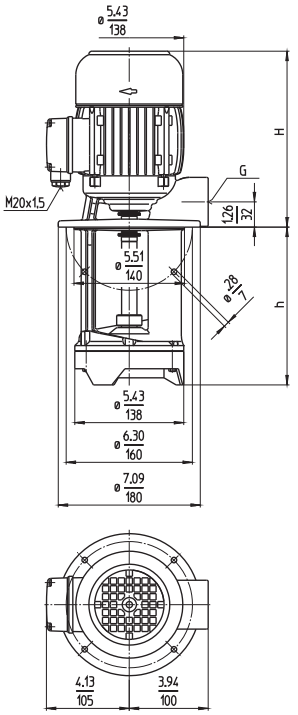


Immersion Pumps
TA/STA200...430

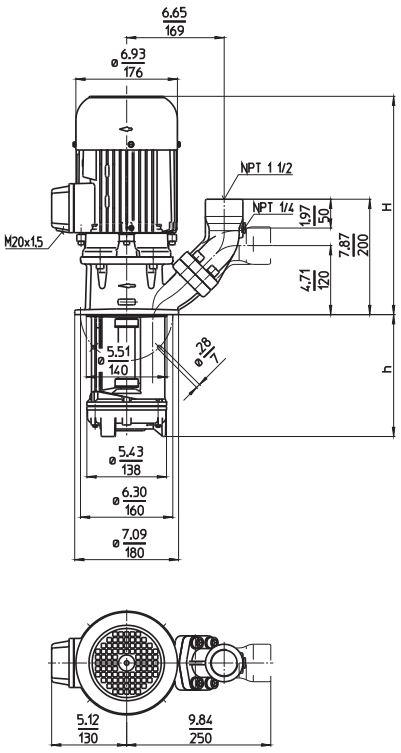
Semi-open impellers

60 Hz

TA200, 320



STA430



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Thread G	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TA200S200	40/12 *160/4*	8.8 *223*	7.87 *200*	G 1 ¼	25.4	*11.5*	0.75 *0.55*	208-230 460	60 60	2.70 1.45	3250 3250
270			10.63 *270*		27.6	*12.5*					
350			13.78 *350*		29.8	*13.5*					
440			17.32 *440*		32.0	*14.5*					
550			21.65 *550*		34.2	*15.5*					
TA320S200	60/32 *240/9*	9.5 *241*	7.87 *200*	G 1 ½	33.1	*15*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300
270			10.63 *270*		35.3	*16*					
350			13.78 *350*		37.5	*17*					
440			17.32 *440*		39.7	*18*					
550			21.65 *550*		41.9	*19*					
STA430S210	120/24 *460/7*	14.0 *355*	8.27 *210*		59.5	*27*	2.3 *1.7*	208-230 460	60 60	8.2 4.1	3400 3400
280			11.02 *280*		61.7	*28*					
360			14.17 *360*		63.9	*29*					
450			17.72 *450*		66.2	*30*					
560			22.05 *560*		68.4	*31*					

Dimensions in Inches /mm
Dimensions in Inches / mm

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series TAL/SAL.

Applications

Types of fluid
- coolants
- cooling/cutting oils

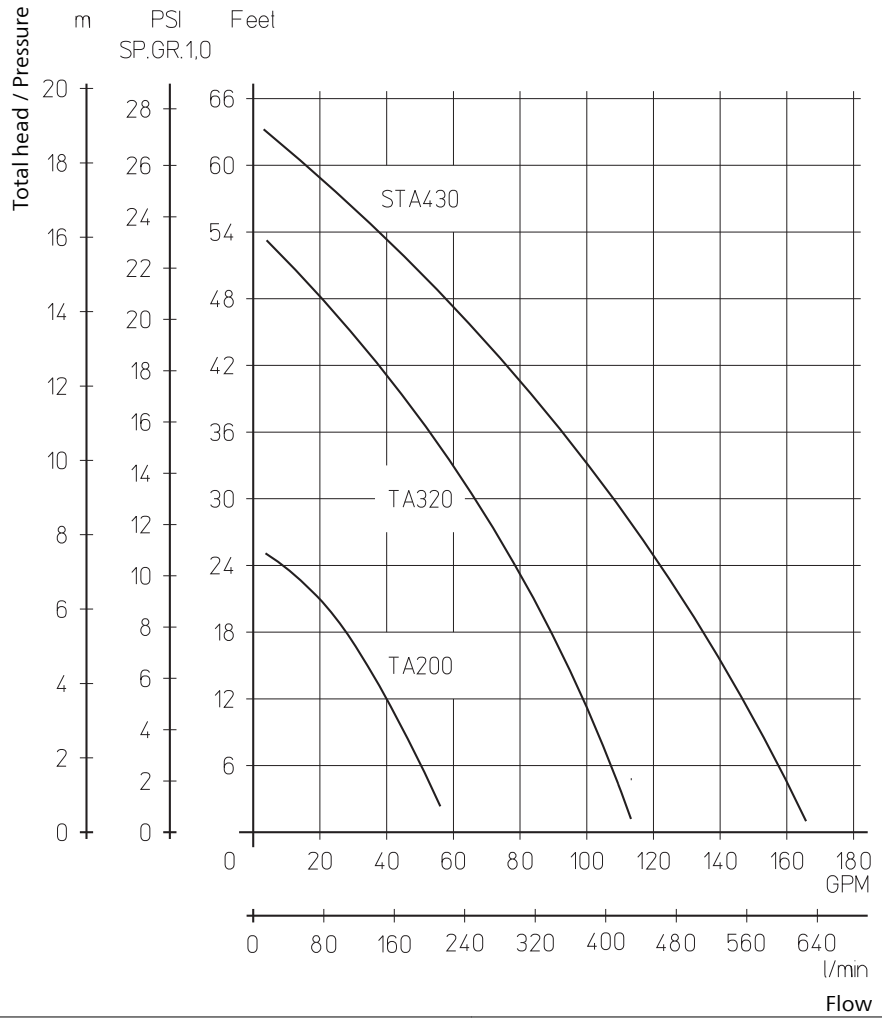
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...140 °F (0...60 °C) TA200
- 30...175 °F (0...80 °C) TA320...STA430
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	POM cast iron (TA320...STA430)
Impeller	POM brass (TA320...STA430)
Shaft	steel
Optional:	
Suction cover	with threaded inlet
Impeller	cast steel brass (TA200)
Other materials	on request
Noise level	
TA200...TA320	62 dBA
STA430	66 dBA

For position of terminal box, see mechanical features within the technical information section.

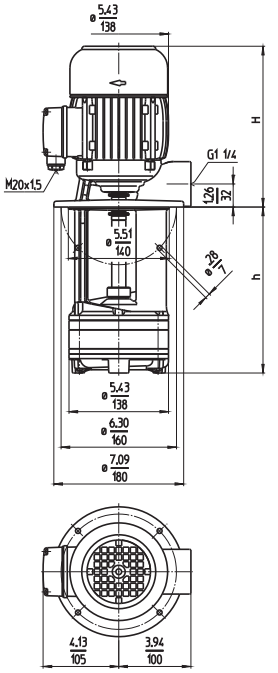


Immersion Pumps
TE/STE141...146

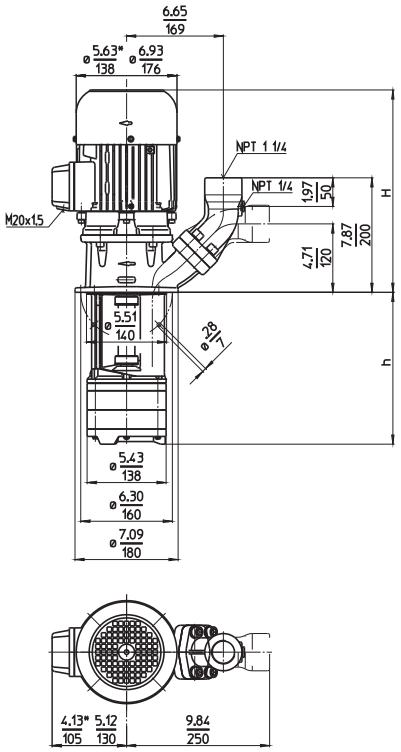
Semi-open impellers

60 Hz

TE141, 142



STE141...146



Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch	*h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TE141S200	30/30	8.8	7.87	*200*	27.6	*12.5*	0.67	208-230	60	2.5	3300
270			10.63	*270*	29.8	*13.5*	*0.5*	460	60	1.4	3300
350			13.78	*350*	32.0	*14.5*					
440			17.32	*440*	34.2	*15.5*					
550			21.65	*550*	38.6	*17.5*					
TE142S150	30/60	10.3	5.91	*150*	33.1	*15*	1.5	208-230	60	5.8	3300
230			9.06	*230*	35.3	*16*	*1.1*	460	60	2.9	3300
300			11.81	*300*	37.5	*17*					
380			14.96	*380*	39.7	*18*					
470			18.50	*470*	41.9	*19*					
580			22.83	*580*	46.3	*21*					
STE141S120	30/30	11.5	4.72	*120*	30.9	*14*	0.73	208-230	60	2.8	3300
200			7.87	*200*	33.1	*15*	*0.54*	460	60	1.4	3300
270			10.63	*270*	35.3	*16*					
350			13.78	*350*	37.5	*17*					
440			17.32	*440*	39.7	*18*					
550			21.65	*550*	41.9	*19*					
STE142S150	30/60	13.0	5.91	*150*	41.9	*19*	1.5	208-230	60	5.8	3300
230			9.06	*230*	44.1	*20*	*1.1*	460	60	2.9	3300
300			11.81	*300*	46.3	*21*					
380			14.96	*380*	48.5	*22*					
470			18.50	*470*	50.7	*23*					
580			22.83	*580*	52.9	*24*					
STE143S190	30/88	14.0	7.28	*185*	61.7	*28*	2	208-230	60	7.6	3400
270			10.43	*265*	63.9	*29*	*1.5*	460	60	3.8	3400
340			13.19	*335*	66.2	*30*					
420			16.34	*415*	68.4	*31*					
510			19.88	*505*	70.6	*32*					
620			24.21	*615*	72.8	*33*					
STE144S220	30/115	14.0	8.66	*220*	63.9	*29*	2.3	208-230	60	8.2	3400
300			11.81	*300*	66.2	*30*	*1.7*	460	60	4.1	3400
370			14.57	*370*	68.4	*31*					
450			17.72	*450*	70.6	*32*					
540			21.26	*540*	72.8	*33*					
650			25.59	*650*	75.0	*34*					
STE145S270	30/162	15.6	10.63	*270*	75.0	*34*	3	208-230	60	10.6	3400
350			13.78	*350*	77.2	*35*	*2.2*	460	60	5.3	3400
420			16.54	*420*	79.4	*36*					
500			19.69	*500*	81.6	*37*					
590			23.23	*590*	83.8	*38*					
700			27.56	*700*	86.0	*39*					
STE146S300	30/195	15.9	12.01	*305*	75.0	*34*	3.5	208-230	60	12.6	3400
380			15.16	*385*	77.2	*35*	*2.6*	460	60	6.3	3400
450			17.91	*455*	79.4	*36*					
530			21.06	*535*	81.6	*37*					

Dimensions in Inches / mm
*) Dimensions STE141, 142

BRINKMANN PUMPS

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STE pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

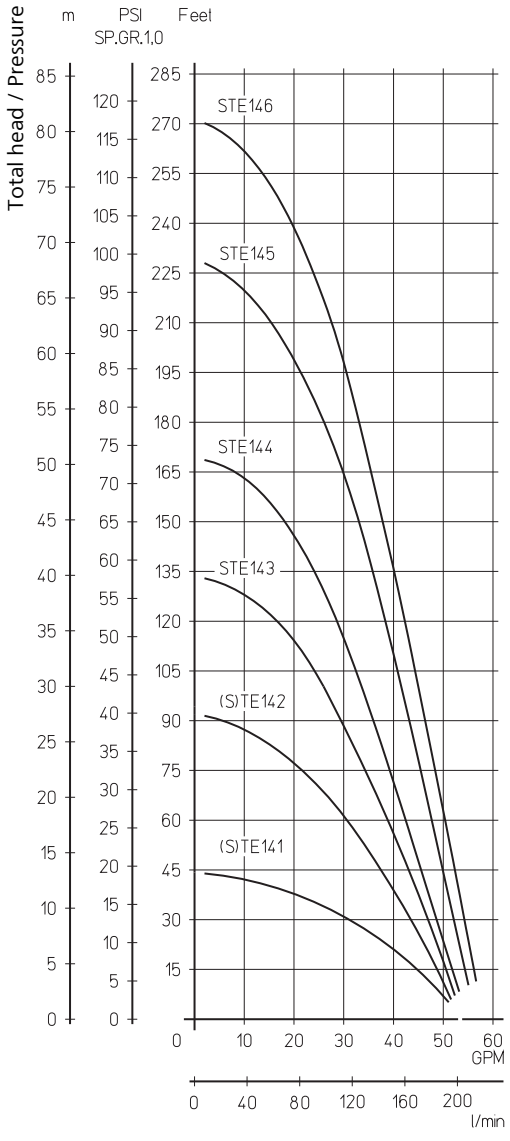
Pumping temperature
- 30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	cast iron
	PPS (TE141)
Impellers	PPS
Shaft	steel
Optional:	
Cover	cast iron (TE141)
Suction cover	with threaded inlet
Impellers	brass
	cast steel
Other materials	on request
Noise level	
TE141...STE142	62 dBA
STE143...STE146	69 dBA

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series TL/STL.

For position of terminal box, see mechanical features within the technical information section.



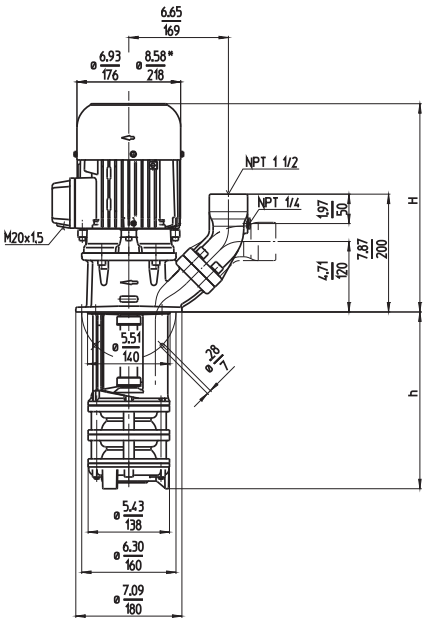
Immersion Pumps
STA212...433

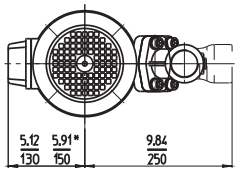
Semi-open impellers

BRINKMANN PUMPS

60 Hz

STA212...433





Dimensions in Inches / mm
*) Dimensions STA432, STA433

Type	Flow at head GPM / Feet *l/min / m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~	Frequency Hz	Current AMPS	Speed RPM
STA212S170	40/69 *160/20*	14.0 *355*	6.69 *170*	50.7 *23*	2 *1.5*	208-230 460	60 60	7.6 3.8	3400 3400
250			9.84 *250*	52.9 *24*					
320			12.60 *320*	55.1 *25*					
400			15.75 *400*	57.3 *26*					
490			19.29 *490*	59.5 *27*					
600			23.62 *600*	61.7 *28*					
STA213S220	40/102 *160/30*	15.6 *395*	8.66 *220*	83.8 *38*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
300			11.81 *300*	86.0 *39*					
370			14.57 *370*	88.2 *40*					
450			17.72 *450*	90.4 *41*					
540			21.26 *540*	92.6 *42*					
650			25.59 *650*	94.8 *43*					
850			33.46 *850*	99.2 *45*					
1000			39.37 *1000*	101.4 *46*					
STA322S170	60/70 *250/20*	15.6 *395*	6.69 *170*	81.6 *37*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
250			9.84 *250*	83.8 *38*					
320			12.60 *320*	86.0 *39*					
400			15.75 *400*	88.2 *40*					
490			19.29 *490*	90.4 *41*					
600			23.62 *600*	92.6 *42*					
800			31.50 *800*	97.0 *44*					
950			37.40 *950*	99.2 *45*					
STA323S220	60/105 *250/30*	15.9 *405*	8.66 *220*	86.0 *39*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
300			11.81 *300*	88.2 *40*					
370			14.57 *370*	90.4 *41*					
450			17.72 *450*	92.6 *42*					
540			21.26 *540*	94.8 *43*					
650			25.59 *650*	97.0 *44*					
850			33.46 *850*	99.2 *45*					
1000			39.37 *1000*	101.4 *46*					
STA432S200	100/72 *400/22*	17.5 *445*	7.68 *195*	103.6 *47*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
280			10.83 *275*	105.8 *48*					
350			13.58 *345*	108.0 *49*					
430			16.73 *425*	110.2 *50*					
520			20.28 *515*	112.5 *51*					
630			24.61 *625*	114.7 *52*					
830			32.48 *825*	119.1 *54*					
1000			39.17 *995*	121.3 *55*					
STA433S260	100/107 *400/32*	17.5 *445*	10.24 *260*	114.7 *52*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
340			13.39 *340*	116.9 *53*					
410			16.14 *410*	119.1 *54*					
490			19.29 *490*	121.3 *55*					
580			22.83 *580*	123.5 *56*					
690			27.17 *690*	127.9 *58*					
890			35.04 *890*	130.1 *59*					
1040			40.94 *1040*	132.3 *60*					

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

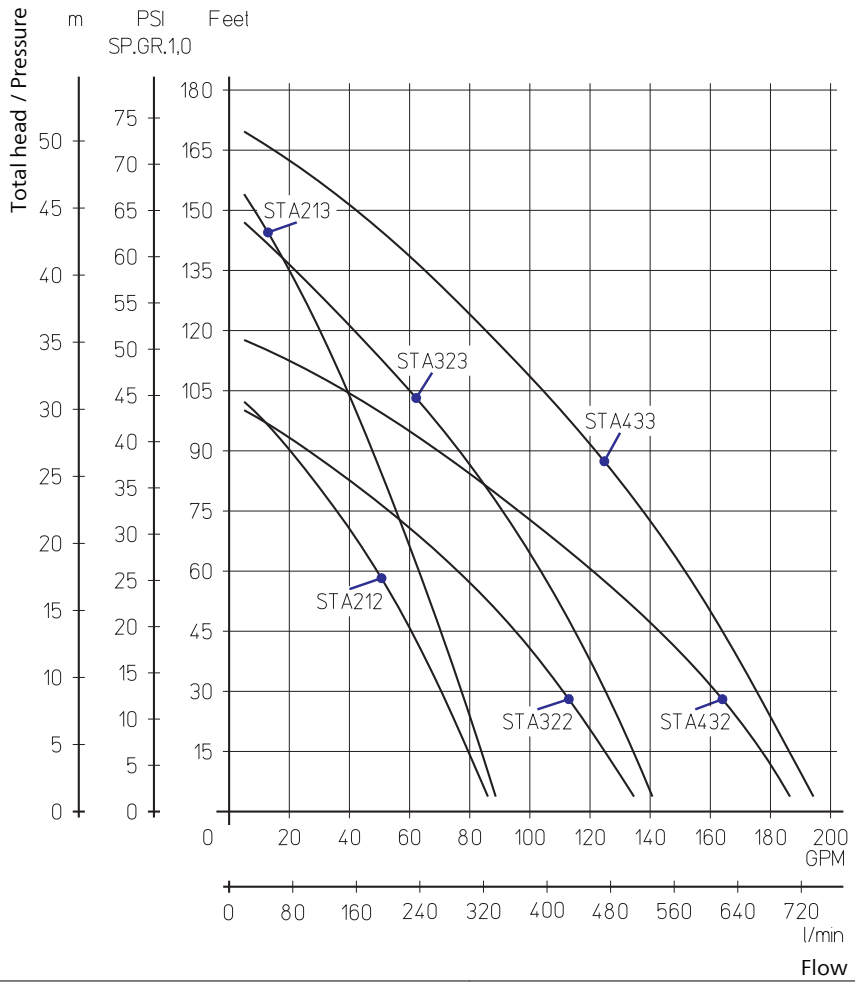
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	cast iron
Impellers	brass
Shaft	steel
Optional:	
Suction cover	with threaded inlet
Impellers	cast steel
Other materials	on request
Noise level	
STA212...STA323	69 dBA
STA432...STA433	73 dBA

For position of terminal box, see mechanical features within the technical information section.

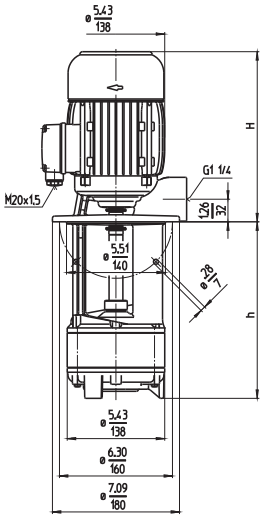


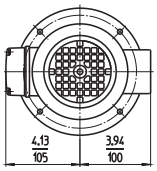
Immersion Pumps
TA/STA301...306

Semi-open impellers

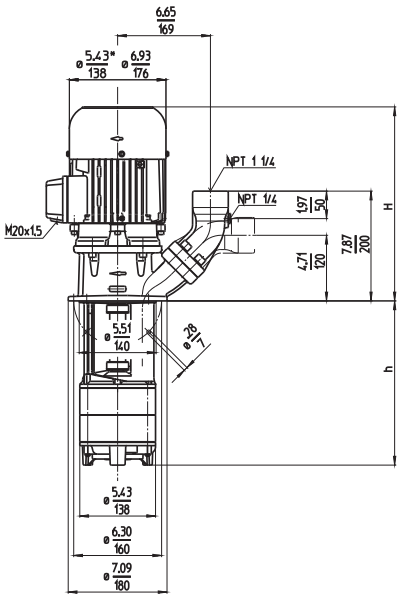
60 Hz

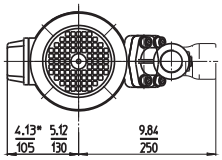
TA302





STA301...306





Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TA302S170	40/46	10.3	6.69 *170*	36.4	*16.5*	1.5	208-230	60	5.8	3300
250			9.84 *250*	38.6	*17.5*	*1.1*	460	60	2.9	3300
320			12.60 *320*	40.8	*18.5*					
400			15.75 *400*	43.0	*19.5*					
490			19.29 *490*	45.2	*20.5*					
600			23.62 *600*	47.4	*21.5*					
STA301S120	40/30	11.5	4.72 *120*	28.7	*13*	0.73	208-230	60	2.8	3300
200			7.87 *200*	30.9	*14*	*0.54*	460	60	1.4	3300
270			10.63 *270*	33.1	*15*					
350			13.78 *350*	35.3	*16*					
440			17.32 *440*	37.5	*17*					
550			21.65 *550*	39.7	*18*					
STA302S170	40/46	13.0	6.69 *170*	44.1	*20*	1.5	208-230	60	5.8	3300
250			9.84 *250*	46.3	*21*	*1.1*	460	60	2.9	3300
320			12.60 *320*	48.5	*22*					
400			15.75 *400*	50.7	*23*					
490			19.29 *490*	52.9	*24*					
600			23.62 *600*	55.1	*25*					
STA303S220	40/76	14.0	8.66 *220*	72.8	*33*	2	208-230	60	7.6	3400
300			11.81 *300*	75.0	*34*	*1.5*	460	60	3.8	3400
370			14.57 *370*	77.2	*35*					
450			17.72 *450*	79.4	*36*					
540			21.26 *540*	81.6	*37*					
650			25.59 *650*	83.8	*38*					
850			33.46 *850*	88.2	*40*					
1000			39.37 *1000*	90.4	*41*					
STA304S270	40/105	15.6	10.63 *270*	88.2	*40*	2.5	208-230	60	9.8	3400
350			13.78 *350*	90.4	*41*	*1.9*	460	60	4.9	3400
420			16.54 *420*	92.6	*42*					
500			19.69 *500*	94.8	*43*					
590			23.23 *590*	97.0	*44*					
700			27.56 *700*	99.2	*45*					
900			35.43 *900*	103.6	*47*					
1050			41.34 *1050*	105.8	*48*					
STA305S320	40/135	15.6	12.60 *320*	94.8	*43*	3	208-230	60	10.6	3400
400			15.75 *400*	97.0	*44*	*2.2*	460	60	5.3	3400
470			18.50 *470*	99.2	*45*					
550			21.65 *550*	101.4	*46*					
640			25.20 *640*	103.6	*47*					
750			29.53 *750*	105.8	*48*					
950			37.40 *950*	110.2	*50*					
1100			43.31 *1100*	112.5	*51*					
STA306S370	40/165	15.9	14.57 *370*	105.8	*48*	3.5	208-230	60	12.6	3400
450			17.72 *450*	108.0	*49*	*2.6*	460	60	6.3	3400
520			20.47 *520*	110.2	*50*					
600			23.62 *600*	112.5	*51*					
690			27.17 *690*	116.9	*53*					
800			31.50 *800*	119.1	*54*					
1000			39.37 *1000*	121.3	*55*					

Dimensions in Inches /mm
Dimensions in Inches / mm
*) Dimensions STA301, 302

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series TAL/SAL.

All types are also available as suction immersion pumps with a connection to a vacuum filter on the suction side. See series STS.

For position of terminal box, see mechanical features within the technical information section.

Applications

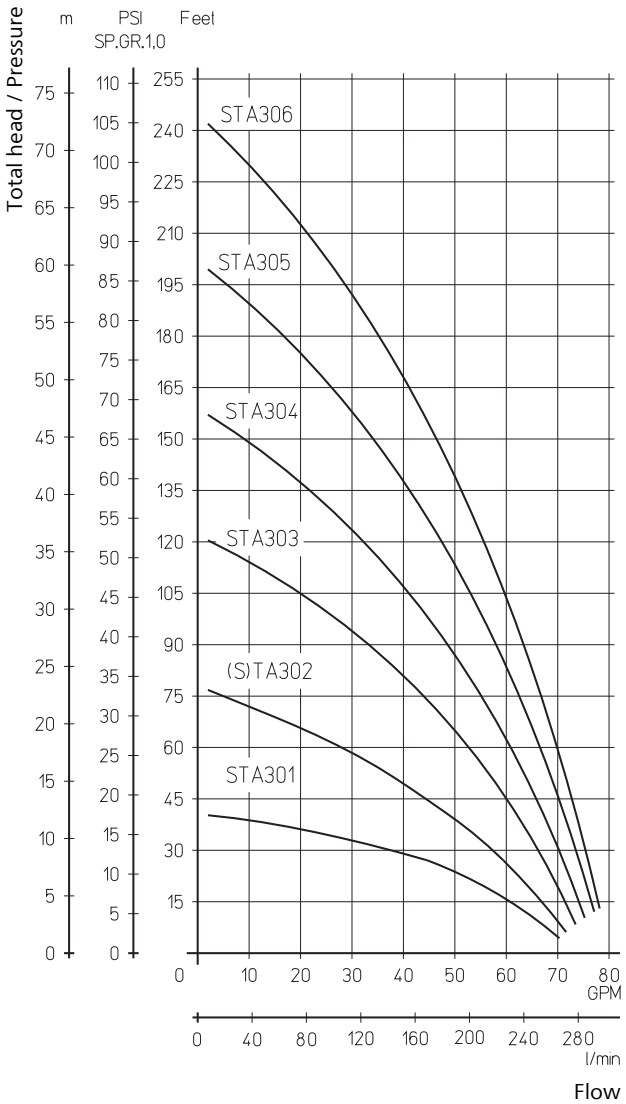
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...140 °F (0...60 °C) TA302
- 30...175 °F (0...80 °C) STA301...STA306
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	cast iron
	POM (TA302)
Impellers	brass
	POM (TA302)
Shaft	steel
Optional:	
Suction cover	with threaded inlet
Impeller	cast steel
Other materials	on request
Noise level	
TA302...STA302	62 dBA
STA303...STA306	69 dBA

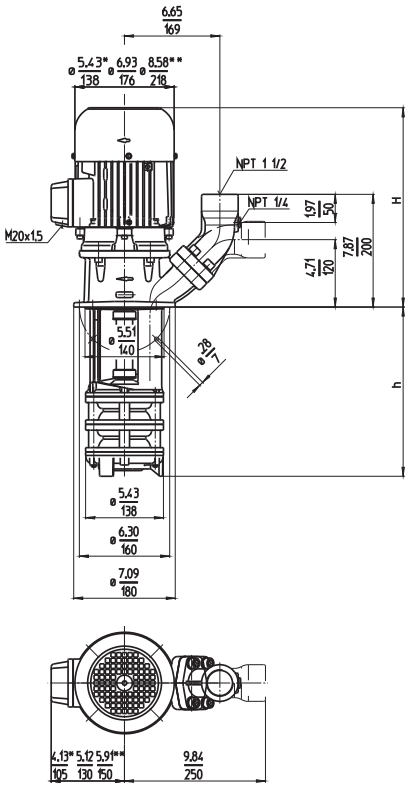


Immersion Pumps
STA401...407

Semi-open impellers

60 Hz

STA401...407



Dimensions in Inches / mm
*) Dimensions STA401
**) Dimensions STA406, 407

Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
STA401S120	60/24	12.2	4.72 *120*	33.1 *15*	1.15	208-230	60	5.2	3300
200			7.87 *200*	35.3 *16*	*0.85*	460	60	2.5	3300
270			10.63 *270*	37.5 *17*					
350			13.78 *350*	39.7 *18*					
440			17.32 *440*	41.9 *19*					
550			21.65 *550*	44.1 *20*					
750			29.53 *750*	48.5 *22*					
900			35.43 *900*	50.7 *23*					
STA402S170	60/45	14.0	6.69 *170*	66.2 *30*	1.75	208-230	60	6	3400
250			9.84 *250*	68.4 *31*	*1.3*	460	60	3	3400
320			12.60 *320*	70.6 *32*					
400			15.75 *400*	72.8 *33*					
490			19.29 *490*	75.0 *34*					
600			23.62 *600*	77.2 *35*					
800			31.50 *800*	81.6 *37*					
950			37.40 *950*	83.8 *38*					
STA403S220	60/70	14.0	8.66 *220*	70.6 *32*	2.3	208-230	60	8.2	3400
300			11.81 *300*	72.8 *33*	*1.7*	460	60	4.1	3400
370			14.57 *370*	75.0 *34*					
450			17.72 *450*	77.2 *35*					
540			21.26 *540*	79.4 *36*					
650			25.59 *650*	81.6 *37*					
850			33.46 *850*	86.0 *39*					
1000			39.37 *1000*	88.2 *40*					
STA404S270	60/92	15.6	10.63 *270*	83.8 *38*	3	208-230	60	10.6	3400
350			13.78 *350*	86.0 *39*	*2.2*	460	60	5.3	3400
420			16.54 *420*	88.2 *40*					
500			19.69 *500*	90.4 *41*					
590			23.23 *590*	92.6 *42*					
700			27.56 *700*	94.8 *43*					
900			35.43 *900*	99.2 *45*					
1050			41.34 *1050*	101.4 *46*					
STA405S320	60/120	15.9	12.60 *320*	92.6 *42*	3.5	208-230	60	12.6	3400
400			15.75 *400*	94.8 *43*	*2.6*	460	60	6.3	3400
470			18.50 *470*	97.0 *44*					
550			21.65 *550*	99.2 *45*					
640			25.20 *640*	101.4 *46*					
750			29.53 *750*	103.6 *47*					
950			37.40 *950*	108.0 *49*					
1100			43.31 *1100*	110.2 *50*					
STA406S370	60/145	17.5	14.57 *370*	121.3 *55*	4.4	208-230	60	16	3450
450			17.72 *450*	123.5 *56*	*3.3*	460	60	8	3450
520			20.47 *520*	125.7 *57*					
600			23.62 *600*	127.9 *58*					
690			27.17 *690*	130.1 *59*					
800			31.50 *800*	132.3 *60*					
1000			39.37 *1000*	134.5 *61*					
STA407S420	60/170	17.5	16.54 *420*	130.1 *59*	5.4	208-230	60	19.0	3450
500			19.69 *500*	132.3 *60*	*4.0*	460	60	9.5	3450
570			22.44 *570*	134.5 *61*					
650			25.59 *650*	136.7 *62*					
740			29.13 *740*	138.9 *63*					
850			33.46 *850*	141.1 *64*					

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series SAL.

All types are also available as suction immersion pumps with a connection to a vacuum filter on the suction side. See series STS.

For position of terminal box, see mechanical features within the technical information section.

Applications

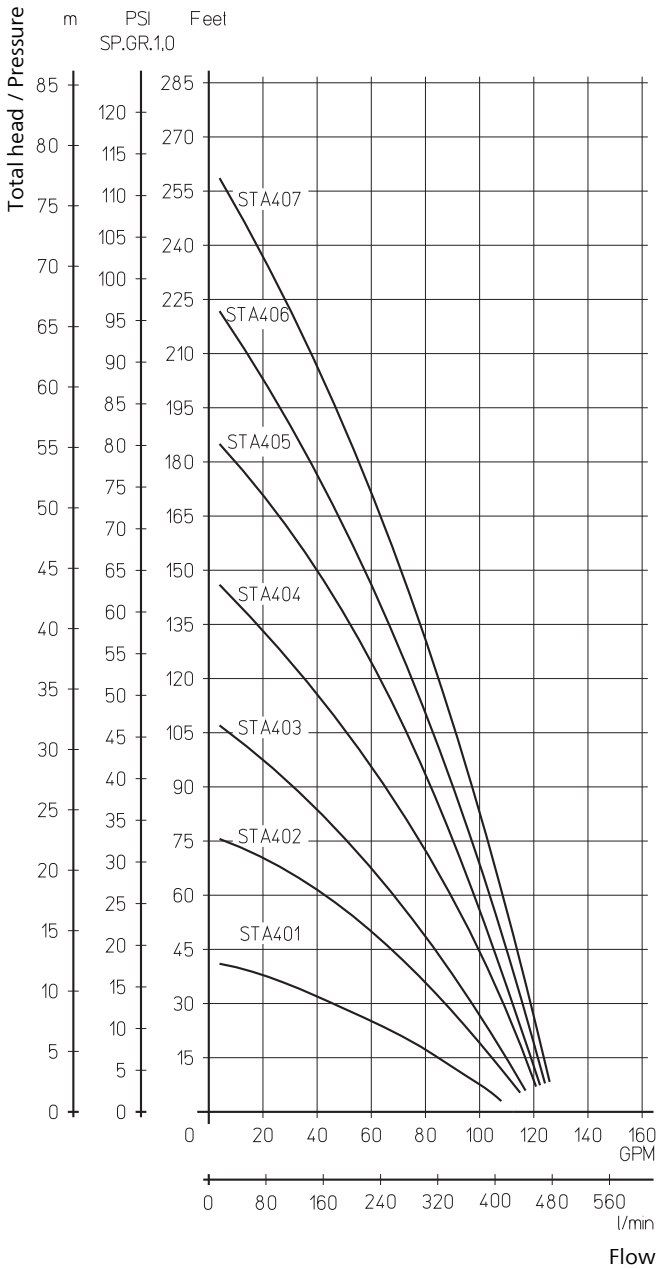
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	cast iron
Impellers	brass
Shaft	steel
Optional:	
Suction cover	with threaded inlet
Impellers	cast steel
Noise level	
STA401	65 dBA
STA402...STA405	69 dBA
STA406...STA407	73 dBA

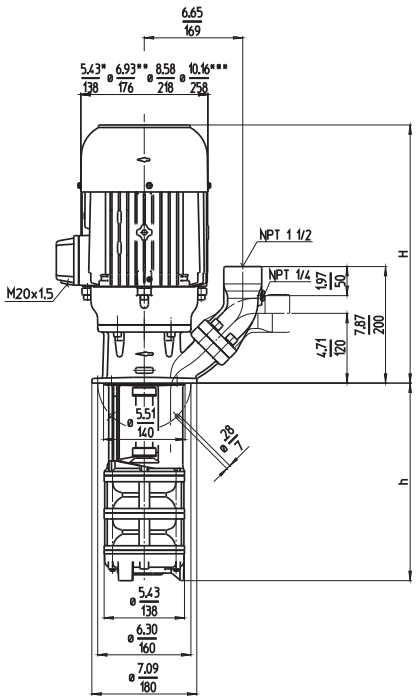


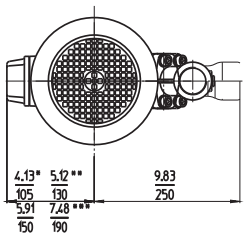
Immersion Pumps
STA601...608

Semi-open impellers

60 Hz

STA601...608





Dimensions in Inches / mm
*) Dimensions STA601
**) Dimensions STA602
***) Dimensions STA605, 607, 608

Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch	*h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
STA601S130	100/18	12.2	5.12	*130*	35.3	*16*	1.25	208-230	60	5.4	3300
210			8.27	*210*	37.5	*17*	*0.92*	460	60	2.7	3300
280			11.02	*280*	39.7	*18*					
360			14.17	*360*	41.9	*19*					
450			17.72	*450*	44.1	*20*					
560			22.05	*560*	46.3	*21*					
760			29.92	*760*	55.1	*25*					
910			35.83	*910*	57.3	*26*					
STA602S200	100/44	15.6	7.68	*195*	75.0	*34*	3	208-230	60	10.6	3400
280			10.83	*275*	77.2	*35*	*2.2*	460	60	5.3	3400
350			13.58	*345*	79.4	*36*					
430			16.73	*425*	81.6	*37*					
520			20.28	*515*	83.8	*38*					
630			24.61	*625*	88.2	*40*					
830			32.48	*825*	92.6	*42*					
1000			39.17	*995*	94.8	*43*					
STA603S260	100/60	17.5	10.24	*260*	108.0	*49*	4.4	208-230	60	16	3450
340			13.39	*340*	110.2	*50*	*3.3*	460	60	8	3450
410			16.14	*410*	112.5	*51*					
490			19.29	*490*	114.7	*52*					
580			22.83	*580*	116.9	*53*					
690			27.17	*690*	119.1	*54*					
890			35.04	*890*	123.5	*56*					
1040			40.94	*1040*	125.7	*57*					
STA604S330	100/88	17.5	12.80	*325*	119.1	*54*	5.4	208-230	60	19.0	3450
410			15.94	*405*	121.3	*55*	*4.0*	460	60	9.5	3450
480			18.70	*475*	123.5	*56*					
560			21.85	*555*	125.7	*57*					
650			25.39	*645*	127.9	*58*					
760			29.72	*755*	130.1	*59*					
960			37.60	*955*	134.5	*61*					
1110			43.50	*1105*	136.7	*62*					
STA605S390	100/110	18.9	15.35	*390*	158.8	*72*	7.4	208-230	60	25.0	3450
470			18.50	*470*	161.0	*73*	*5.5*	460	60	12.5	3450
540			21.26	*540*	163	*74*					
620			24.41	*620*	165	*75*					
710			27.95	*710*	168	*76*					
820			32.28	*820*	170	*77*					
1020			40.16	*1020*	172	*78*					
STA607S520	100/170	23.1	20.47	*520*	227	*103*	11.5	460	60	14.2	3550
600			23.62	*600*	229	*104*	*8.6*				
670			26.38	*670*	232	*105*					
750			29.53	*750*	234	*106*					
840			33.07	*840*	236	*107*					
950			37.40	*950*	238	*108*					
STA608S580	100/215	23.1	22.83	*580*	249	*113*	13.8	460	60	16.9	3550
660			25.98	*660*	251	*114*	*10.3*				
730			28.74	*730*	254	*115*					
810			31.89	*810*	256	*116*					
900			35.43	*900*	258	*117*					
1010			39.76	*1010*	260	*118*					

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series SAL.

All types are also available as suction immersion pumps with a connection to a vacuum filter on the suction side. See series STS.

For position of terminal box, see mechanical features within the technical information section.

Applications

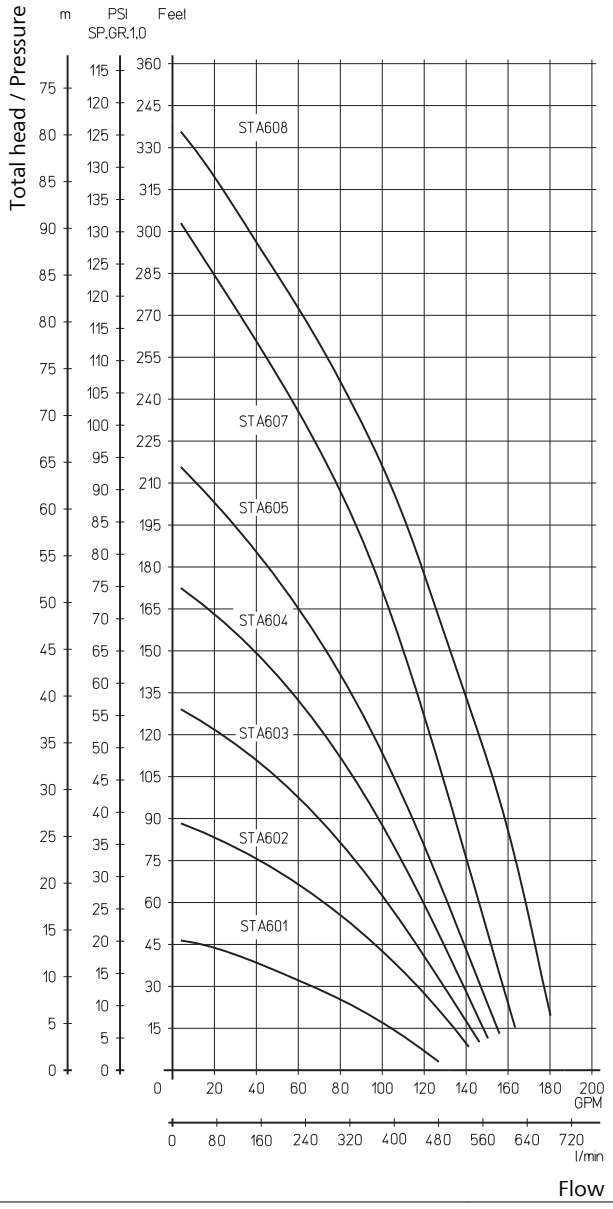
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	cast iron
Impellers	brass
Shaft	steel
Optional:	
Suction cover	with threaded inlet
Impellers	cast steel
Noise level	
STA601	66 dBA
STA602	69 dBA
STA603...STA605	73 dBA
STA607...STA608	77 dBA

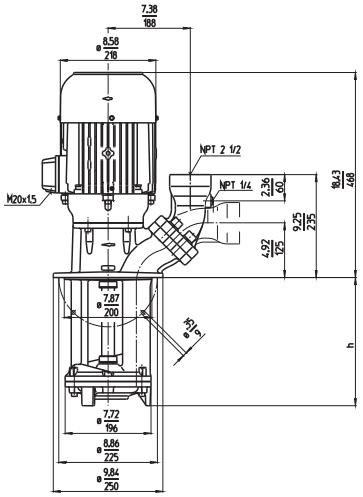


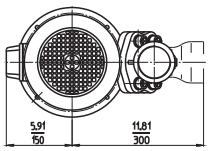
Immersion Pumps
STA630...1130

Semi-open impellers

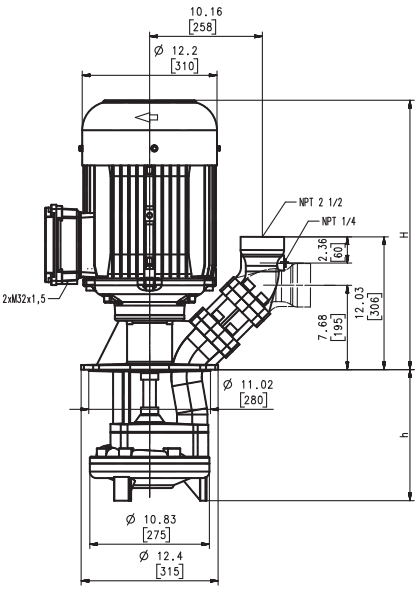
60 Hz

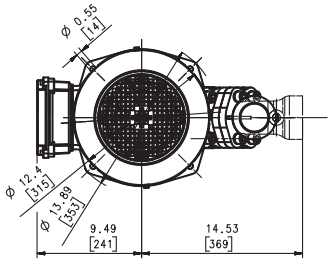
STA630, 830





STA1130





Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
STA630S200	175/60	18.4	7.87 *200*	158.8	*72*	5.4	208-230	60	19.0	3450
	600/20	*468*				*4.0*	460	60	9.5	3450
300			11.81 *300*	165	*75*					
430			16.93 *430*	172	*78*					
550			21.65 *550*	181	*82*					
750			29.53 *750*	190	*86*					
980			38.58 *980*	205	*93*					
STA830S210	200/72	18.4	8.27 *210*	161.0	*73*	5.4	208-230	60	19.0	3450
	800/22	*468*				*4.0*	460	60	9.5	3450
310			12.20 *310*	168	*76*					
440			17.32 *440*	174	*79*					
560			22.05 *560*	183	*83*					
760			29.92 *760*	192	*87*					
990			38.98 *990*	209	*95*					
1110			43.70 *1110*	216	*98*					
STA1130S300	400/75	24.4	11.81 *300*	306	*139*	17	460	60	21.5	3560
	1400/24	*620*				*12.6*				
430			16.93 *430*	311	*141*					
550			21.65 *550*	318	*144*					
800			31.50 *800*	331	*150*					
1050			41.34 *1050*	335	*152*					

Discharge port with NPT 2 inches available upon request
Diminsions in Inches / mm

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series SAL.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

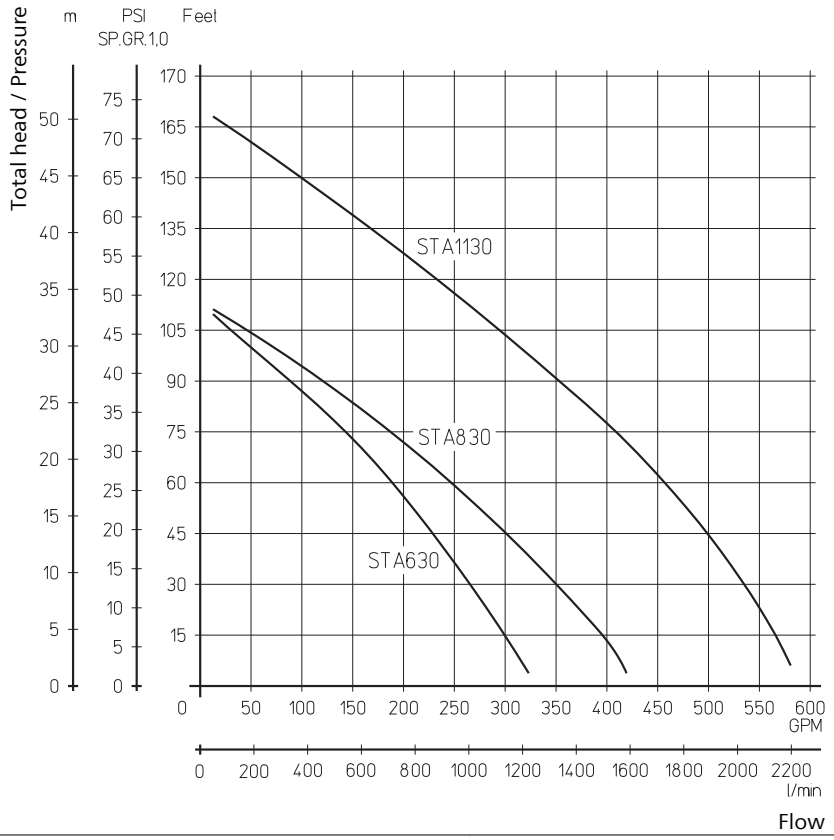
Pumping temperature
- 30...175 °F (0...80 °C)
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	cast iron
Impeller	cast steel
Shaft	steel
Optional:	
Suction cover	with threaded inlet
Other materials	on request
Noise level	
STA630	73 dBA
STA830	74 dBA
STA1130	80 dBA

Optional: Low noise version (–6 dBA)

For position of terminal box, see mechanical features within the technical information section.

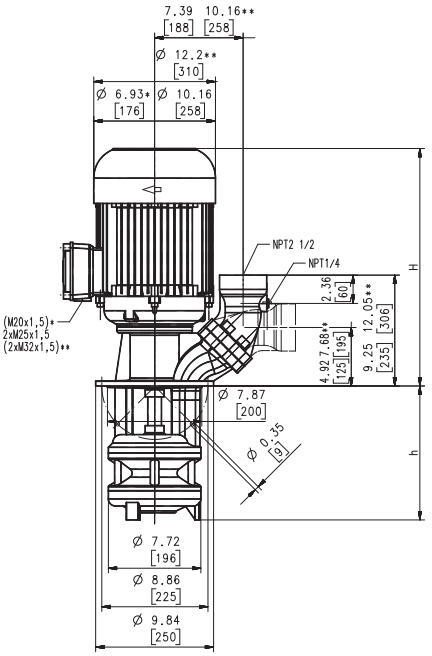


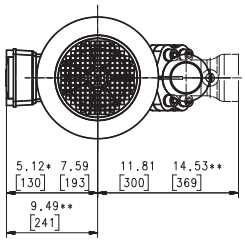
Immersion Pumps
STA901...904

Semi-open impellers

60 Hz

STA901, 902
STA903...904





Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm
*) Dimensions STA901
**) Dimensions STA904

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
STA901S200	175/42 *700/11*	16.9 *429*	7.87 *200*	108.0	*49*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
300			11.81 *300*	112.5	*51*					
430			16.93 *430*	116.9	*53*					
550			21.65 *550*	123.5	*56*					
750			29.53 *750*	134.5	*61*					
980			38.58 *980*	149.9	*68*					
1100			43.31 *1100*	158.8	*72*					
STA902S270	175/95 *700/28*	19.8 *504*	10.63 *270*	181	*82*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
370			14.57 *370*	187	*85*					
500			19.69 *500*	196	*89*					
620			24.41 *620*	205	*93*					
820			32.28 *820*	216	*98*					
1050			41.34 *1050*	232	*105*					
1170			46.06 *1170*	249	*113*					
STA903S340	175/145 *700/42*	24.1 *612*	13.39 *340*	260	*118*	13.8 *10.3*	460	60	16.9	3550
440			17.32 *440*	267	*121*					
570			22.44 *570*	276	*125*					
690			27.17 *690*	284	*129*					
890			35.04 *890*	295	*134*					
1120			44.09 *1120*	311	*141*					
STA904S410	175/190 *700/55*	24.4 *620*	16.14 *410*	318	*144*	17 *12.6*	460	60	21.5	3560
510			20.08 *510*	324	*147*					
640			25.20 *640*	333	*151*					
760			29.92 *760*	342	*155*					
960			37.80 *960*	353	*160*					
1190			46.85 *1190*	364	*165*					

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series SAL.

For position of terminal box, see mechanical features within the technical information section.

Applications

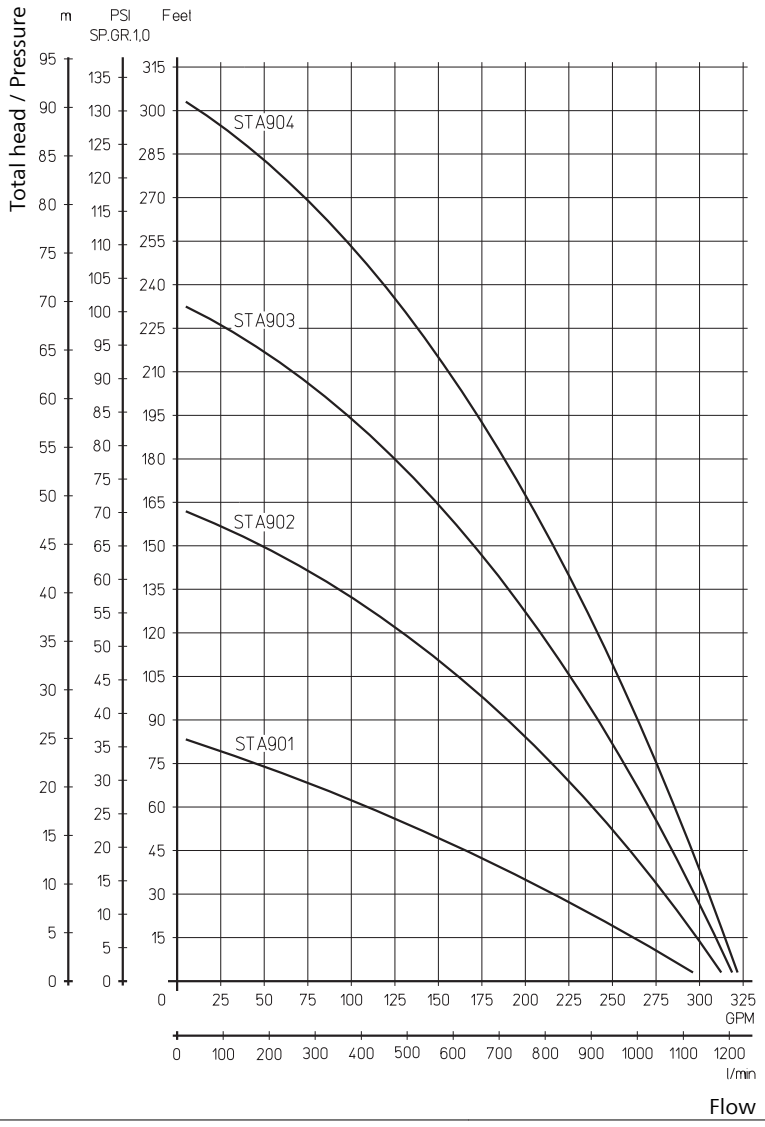
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	cast iron
Impellers	cast steel
Shaft	steel
Optional:	
Suction cover	with threaded inlet
Other materials	on request
Noise level	
STA901	71 dBA
STA902	74 dBA
STA903	78 dBA
STA904	79 dBA

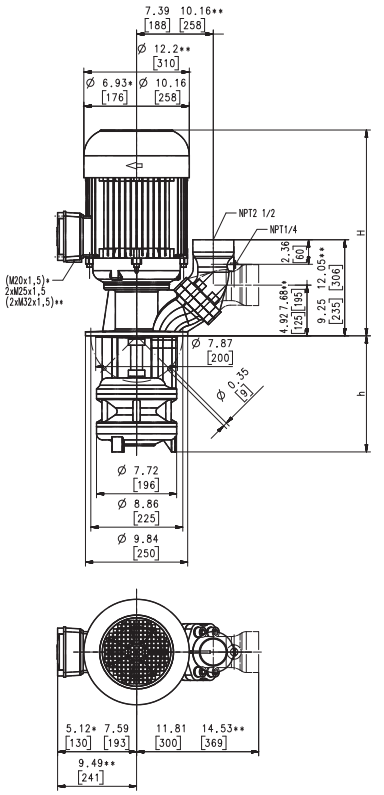


Immersion Pumps
STA1001...1006

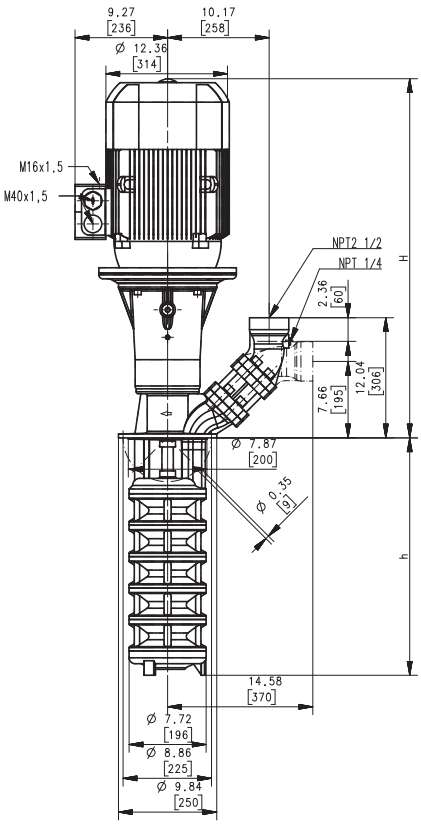
Semi-open impellers

60 Hz

STA1001...1004



STA1006



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	 *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
STA1001S210	200/40 *800/11*	16.9 *429*	8.27 *210*	110.2	*50*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
310			12.20 *310*	114.7	*52*					
440			17.32 *440*	119.1	*54*					
560			22.05 *560*	125.7	*57*					
760			29.92 *760*	136.7	*62*					
990			38.98 *990*	152.1	*69*					
1110			43.70 *1110*	161.0	*73*					
STA1002S290	200/75 *800/22*	19.8 *504*	11.42 *290*	183	*83*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
390			15.35 *390*	190	*86*					
520			20.47 *520*	198	*90*					
640			25.20 *640*	207	*94*					
840			33.07 *840*	218	*99*					
1070			42.13 *1070*	234	*106*					
1190			46.85 *1190*	245	*111*					
STA1003S370	200/115 *800/33*	24.1 *612*	14.57 *370*	262	*119*	13.8 *10.3*	460	60	16.9	3550
470			18.50 *470*	269	*122*					
600			23.62 *600*	278	*126*					
720			28.35 *720*	287	*130*					
920			36.22 *920*	298	*135*					
1150			45.28 *1150*	313	*142*					
STA1004S450	200/165 *800/47*	24.4 *620*	17.72 *450*	331	*150*	20 *15.0*	460	60	24.8	3560
550			21.65 *550*	337	*153*					
680			26.77 *680*	346	*157*					
800			31.50 *800*	355	*161*					
1000			39.37 *1000*	366	*166*					
1230			48.43 *1230*	381	*173*					
STA1006S610	200/265 *800/76*	38.3 *974*	24.02 *610*	392	*178*	29 *21.3*	460	60	32	3555
710			27.95 *710*	399	*181*					
840			33.07 *840*	408	*185*					
960			37.80 *960*	417	*189*					

Dimensions in Inches /mm
*) Dimensions STA1001
**) Dimensions STA1004
Discharge port with NPT 2 inches available upon request.

BRINKMANN PUMPS

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series SAL.

All types are also available as suction immersion pumps with a connection to a vacuum filter on the suction side. See series STS.

For position of terminal box, see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	cast iron
Impellers	cast steel
Shaft	steel

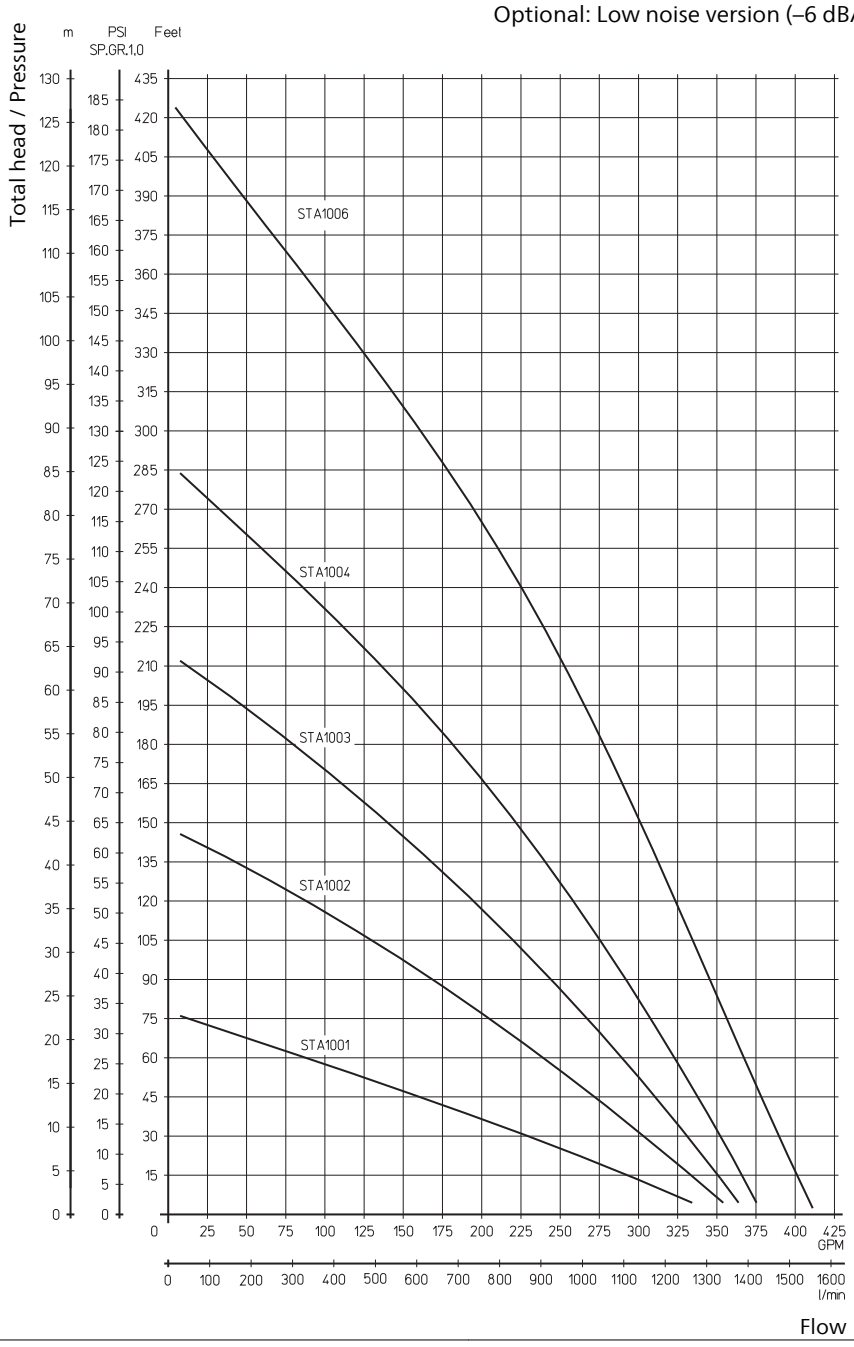
Optional:

Suction cover	with threaded inlet
Other materials	on request

Noise level

STA1001	70 dBA
STA1002	73 dBA
STA1003	76 dBA
STA1004	79 dBA
STA1006	80 dBA

Optional: Low noise version (–6 dBA)

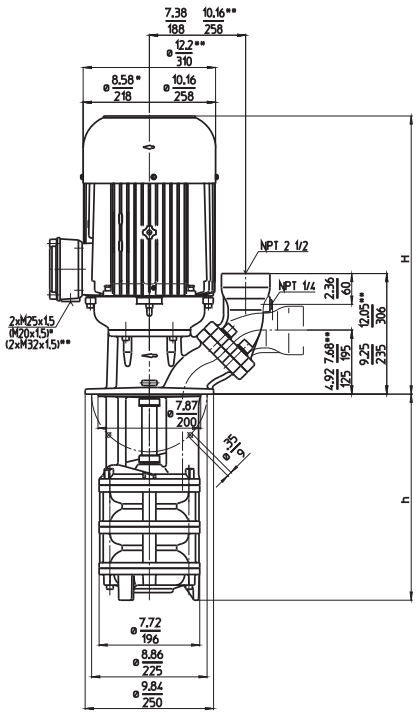


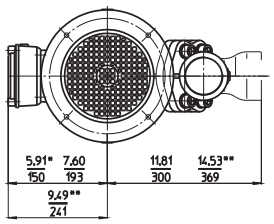
Immersion Pumps
STA1301...1303

Semi-open impellers

60 Hz

STA1301, 1302
STA1303





Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm
*) Dimensions STA1301
**) Dimensions STA1303

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
STA1301S210	250/42 *900/12*	18.4 *468*	8.27 *210*	125.7 *57*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
310			12.20 *310*	130.1 *59*					
440			17.32 *440*	134.5 *61*					
560			22.05 *560*	141.1 *64*					
760			29.92 *760*	152.1 *69*					
990			38.98 *990*	168 *76*					
1110			43.70 *1110*	174 *79*					
STA1302S290	250/90 *900/28*	24.1 *612*	11.42 *290*	245 *111*	13.8 *10.3*	460	60	16.9	3550
390			15.35 *390*	251 *114*					
520			20.47 *520*	260 *118*					
640			25.20 *640*	269 *122*					
840			33.07 *840*	280 *127*					
1070			42.13 *1070*	295 *134*					
STA1303S370	250/137 *900/42*	24.4 *620*	14.57 *370*	304 *138*	17 *12.6*	460	60	21.5	3560
470			18.50 *470*	311 *141*					
600			23.62 *600*	324 *147*					
720			28.35 *720*	329 *149*					
920			36.22 *920*	340 *154*					
1150			45.28 *1150*	355 *161*					

BRINKMANN PUMPS

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series SAL.

Applications

Types of fluid
- coolants
- cooling/cutting oils

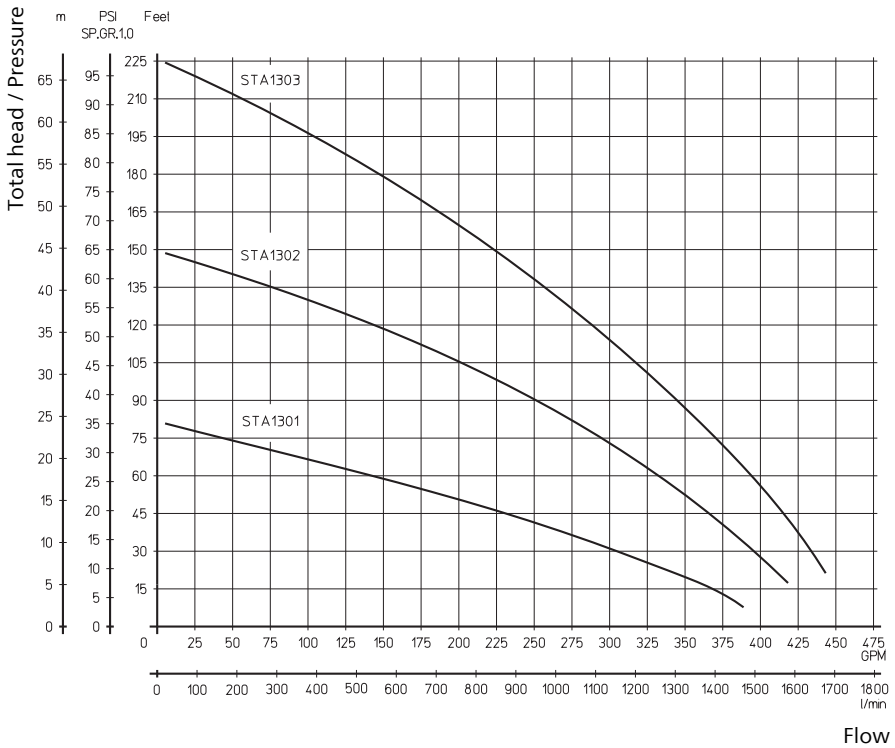
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)
- higher temperatures upon request

Construction

Pump body	cast iron
Cover	cast iron
Impellers	cast steel
Shaft	steel
Optional:	
Suction cover	with threaded inlet
Other materials	on request
Noise level	
STA1301	73 dBA
STA1302	78 dBA
STA1303	79 dBA

For position of terminal box, see mechanical features within the technical information section.

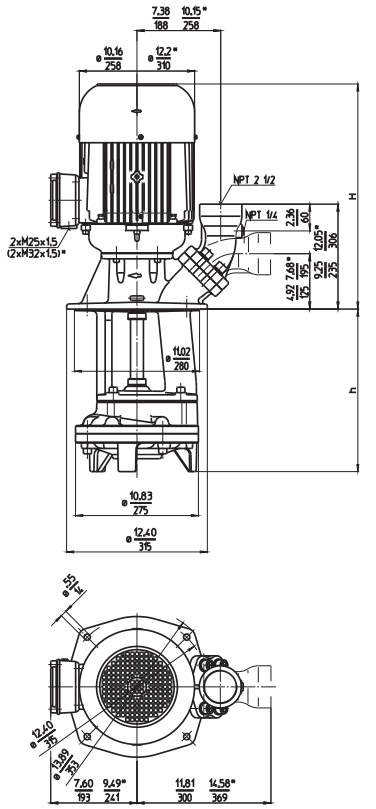


Immersion Pumps
STA1600...2500

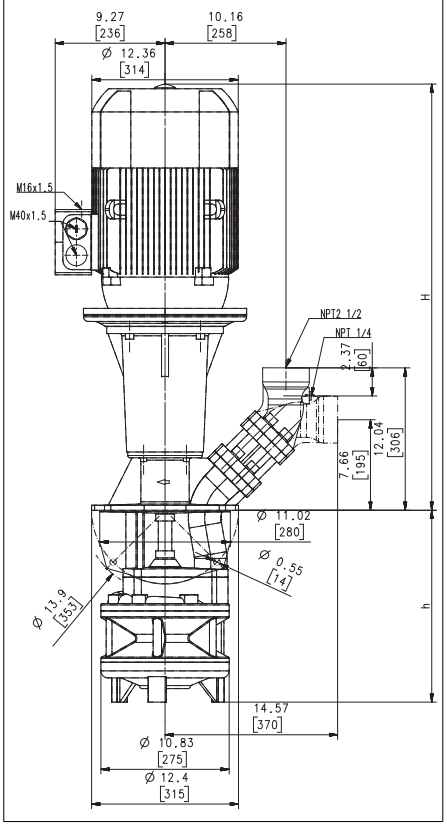
Semi-open impellers

60 Hz

STA1600...2000



STA1602...2500



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
STA1600S300	350/58 *1300/17*	24.1 *612*	11.81 *300*	256	*116*	13.8 *10.3*	460	60	16.9	3550
430			16.93 *430*	260	*118*					
550			21.65 *550*	265	*120*					
800			31.50 *800*	278	*126*					
1050			41.34 *1050*	282	*128*					
STA2000S300	400/75 *1600/22*	24.4 *620*	11.81 *300*	313	*142*	17 *12.6*	460	60	21.5	3560
430			16.93 *430*	318	*144*					
550			21.65 *550*	324	*147*					
800			31.50 *800*	337	*153*					
1050			41.34 *1050*	342	*155*					
STA1602S410	350/118 *1300/37*	38.3 *974*	16.14 *410*	415	*188*	29 *21.3*	460	60	32	3555
540			21.26 *540*	419	*190*					
660			25.98 *660*	423	*192*					
910			35.83 *910*	437	*198*					
1160			45.67 *1160*	441	*200*					
STA2002S410	400/152 *1600/44*	38.5 *978*	16.14 *410*	549	*249*	34 *25.3*	460	60	38.9	3550
540			21.26 *540*	558	*253*					
660			25.98 *660*	567	*257*					
910			35.83 *910*	587	*266*					
1160			45.67 *1160*	595	*270*					
STA2500S330	500/105 *2000/28*	38.3 *974*	12.99 *330*	346	*157*	29 *21.3*	460	60	32	3555
460			18.11 *460*	351	*159*					
580			22.83 *580*	355	*161*					
830			32.68 *830*	390	*177*					
1080			42.52 *1080*	395	*179*					

Dimensions in Inches / mm
*) Dimensions STA2000
Discharge port with NPT 2 inches available upon request.

BRINKMANN PUMPS

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

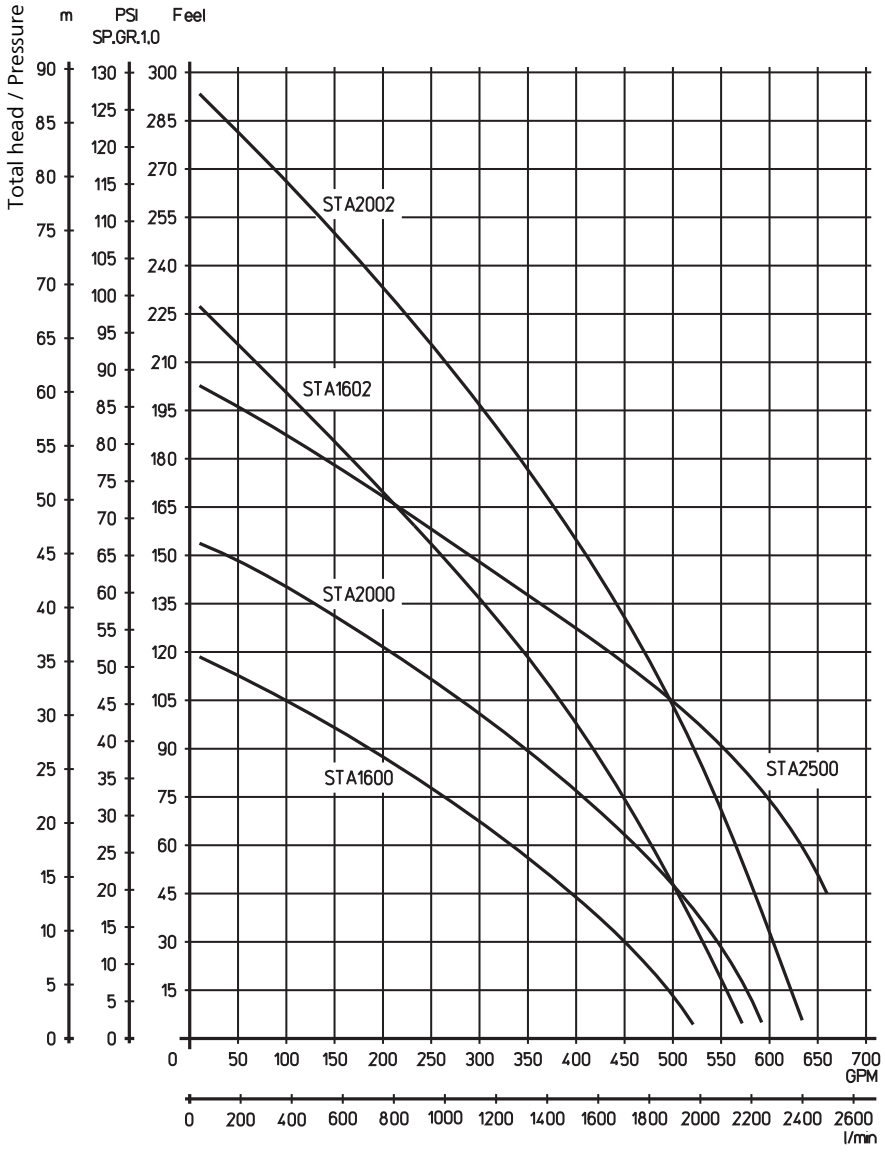
Construction

Pump body	cast iron
Cover	cast iron
Impeller	cast steel
Shaft	steel
Optional:	
Other materials	on request
Noise level	
STA1600	78 dBA
STA2000	79 dBA
STA1602...STA2500	82 dBA

Optional: Low noise version (–6 dBA)

All types are also available as quick-suctioning immersion pumps equipped with **"BRINKMANN's Suction De-aeration System".** See series SAL.

For position of terminal box, see mechanical features within the technical information section.

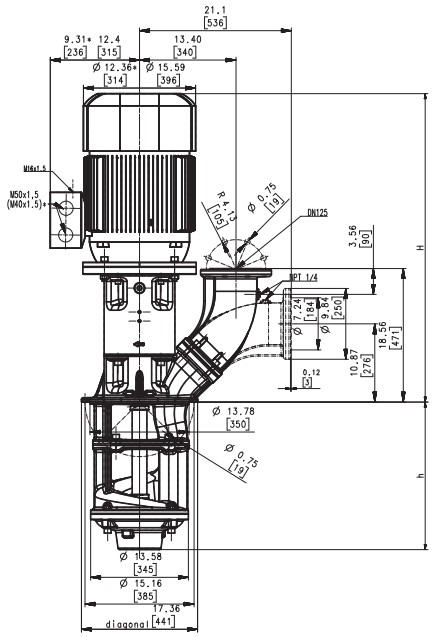


Immersion Pumps
STA3600...4500

Semi-open impellers

60 Hz

STA3600...4500



Dimensions in Inches / mm
*) Dimensions for STA3600

Type	Flow at head GPM / Feet *l/min / m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
STA3600S520	900/60 *3400/20*	41.0 *1041*	20.51 *521*	730 *331*	34 *25.3*	460	60	38.9	3550
720			28.39 *721*	763 *346*					
920			36.26 *921*	796 *361*					
1270			50.04 *1271*	939 *426*					
STA4500S520	1200/85 *4400/27*	43.9 *1115*	20.51 *521*	944 *428*	56 *41.5*	460	60	63	3555
720			28.39 *721*	977 *443*					
920			36.26 *921*	1010 *458*					
1270			50.04 *1271*	1153 *523*					

60 Hz

Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.
The STA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

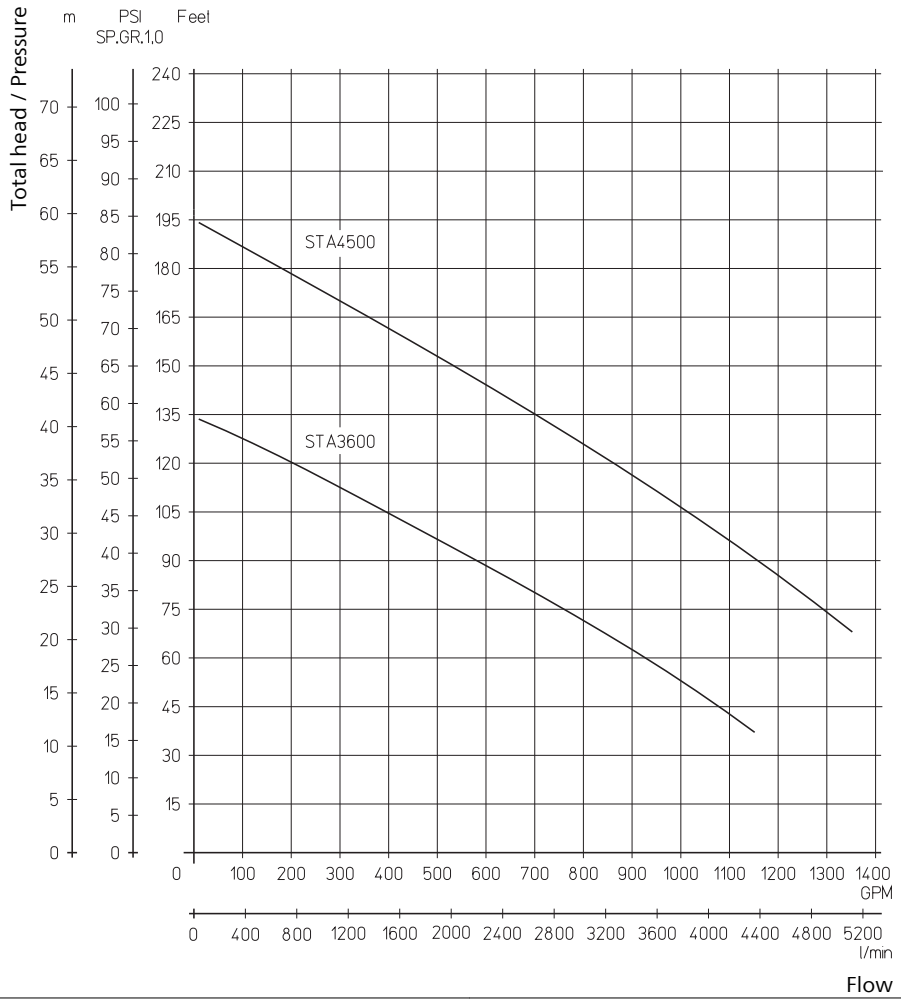
Pump body	cast iron
Cover	cast iron
Impeller	cast steel
Shaft	steel
Other materials	on request

Noise level

STA3600	86 dBA
STA4500	88 dBA

Optional: Low noise version (–6 dBA)

For position of terminal box, see mechanical features within the technical information section.

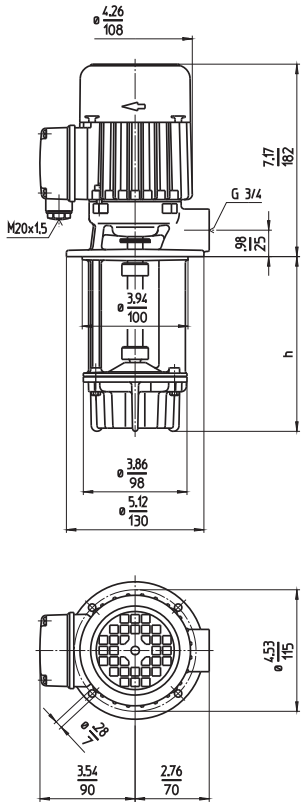


Quick Suctioning Immersion Pumps
TL50

Axial/semi-open impellers

60 Hz

TL50



Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TL50S110	13/12 *40/4*	7.2 *182*	4.72 *120*	13.7	*6.2*	0.3 *0.22*	208-230 460	60 60	0.95 0.55	3200 3200
140			5.71 *145*	14.1	*6.4*					
190			7.68 *195*	14.6	*6.6*					
240			9.65 *245*	15.4	*7.0*					
290			11.61 *295*	16.5	*7.5*					
370			14.76 *375*	17.9	*8.1*					

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINK-MANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.

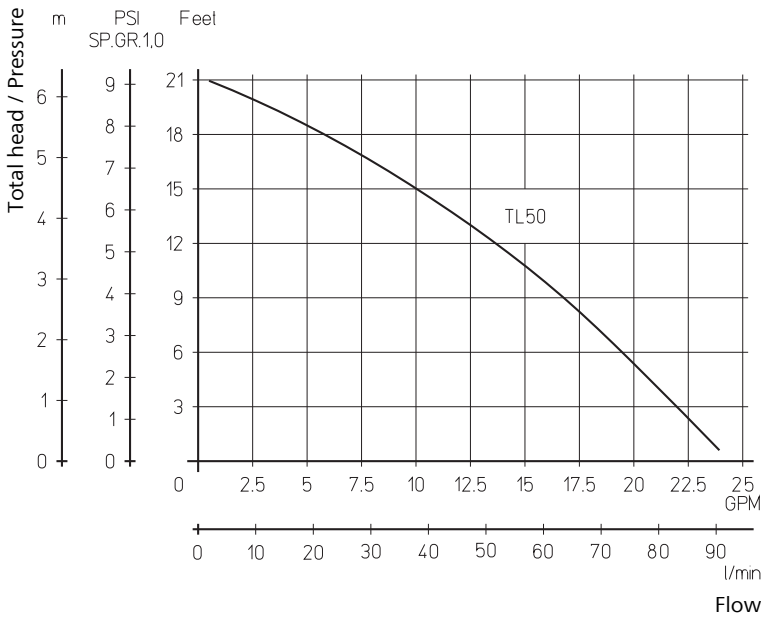
Applications

Types of fluid	
coolants	
cooling/cutting oils	
Kinematic viscosity	
...200 SSU (...45 mm²/s)	
Pumping temperature	
30...175 °F (0...80 °C)	

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	brass
Shaft	steel
Optional:	
Impeller radial	cast steel

For position of terminal box, see mechanical features within the technical information section.

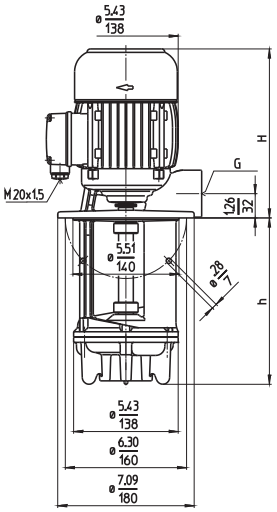


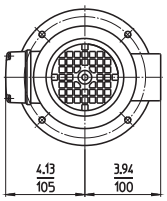
Quick Suctioning Immersion Pumps TAL/SAL200...430

Axial/semi-open impellers

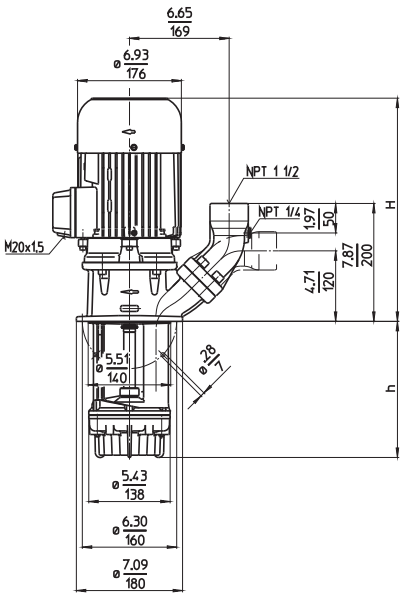
60 Hz

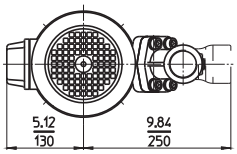
TAL200, TAL320





SAL430





Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Thread G	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TAL200S140	60/10 *300/2*	8.8 *223*	5.51 *140*	G 1 ¼	28.7	*13*	0.75 *0.55*	208-230 460	60 60	2.70 1.45	3250 3250
220			8.66 *220*		30.9	*14*					
290			11.42 *290*		33.1	*15*					
370			14.57 *370*		35.3	*16*					
460			18.11 *460*		37.5	*17*					
570			22.44 *570*		39.7	*18*					
TAL320S140	70/24 *400/2*	9.5 *241*	5.51 *140*	G 1 ½	32.0	*14.5*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300
220			8.66 *220*		34.2	*15.5*					
290			11.42 *290*		36.4	*16.5*					
370			14.57 *370*		38.6	*17.5*					
460			18.11 *460*		40.8	*18.5*					
570			22.44 *570*		43.0	*19.5*					
SAL430S150	120/24 *460/7*	14.0 *355*	5.91 *150*		57.3	*26*	2.3 *1.7*	208-230 460	60 60	8.2 4.1	3400 3400
230			9.06 *230*		61.7	*28*					
300			11.81 *300*		63.9	*29*					
380			14.96 *380*		66.2	*30*					
470			18.50 *470*		68.4	*31*					
580			22.83 *580*		70.6	*32*					

Dimensions in Inches / mm

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINKMANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The STA pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

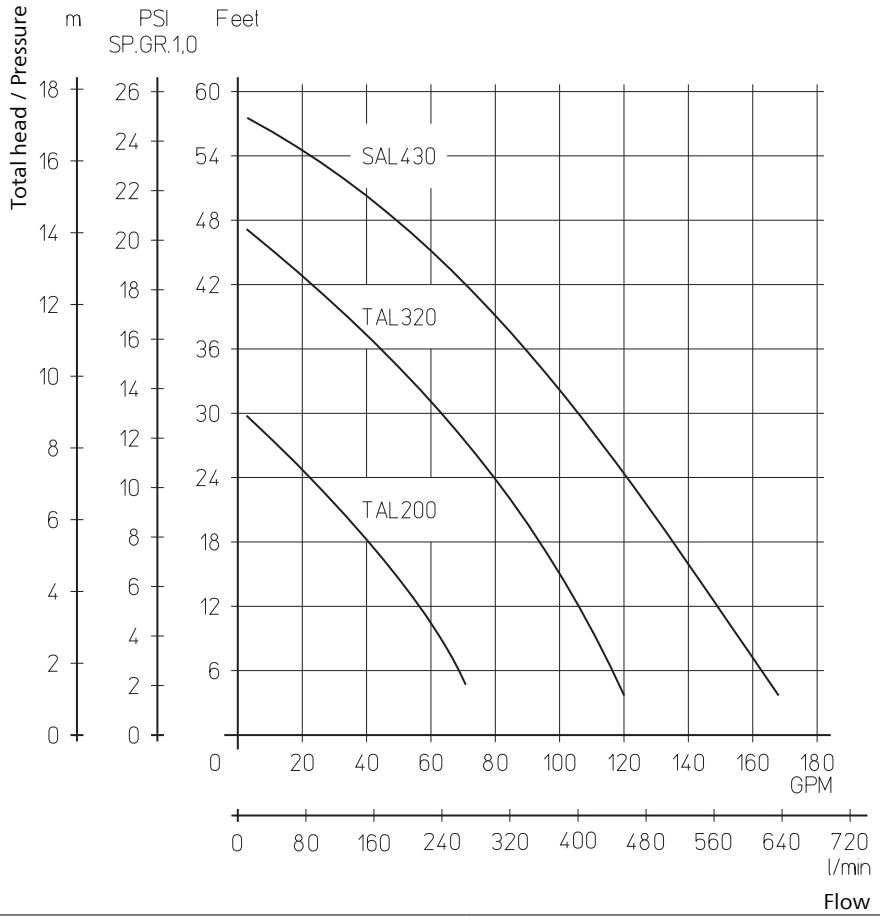
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	brass
Shaft	steel
Optional:	
Impeller radial	cast steel

For position of terminal box, see mechanical features within the technical information section.

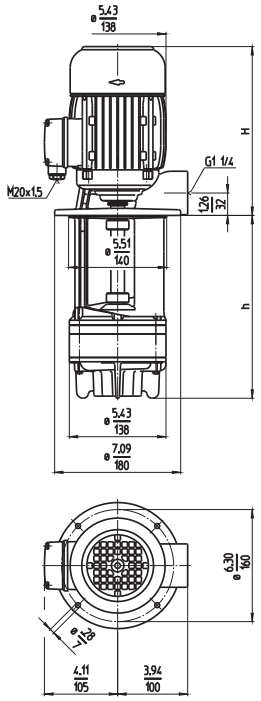


Quick Suctioning Immersion Pumps TL/STL141...146

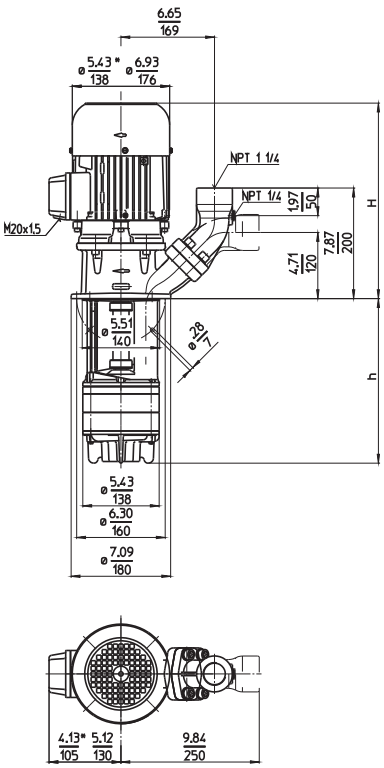
Axial/semi-open impellers

60 Hz

TL141, 142



STL141...146



Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch	h mm	Weight Lbs	kg	Power HP / kW	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TL141S150	30/28	8.8	5.91	*150*	30.9	*14.0*	0.75	208-230	60	2.70	3250
230			9.06	*230*	32.0	*14.5*	*0.55*	460	60	1.45	3250
300			11.81	*300*	33.1	*15.0*					
380			14.96	*380*	34.2	*15.5*					
470			18.50	*470*	38.6	*17.5*					
580			22.83	*580*	41.9	*19.0*					
TL142S180	30/58	10.3	7.09	*180*	37.5	*17*	1.5	208-230	60	5.8	3300
260			10.24	*260*	39.7	*18*	*1.1*	460	60	2.9	3300
330			12.99	*330*	41.9	*19*					
410			16.14	*410*	44.1	*20*					
500			19.69	*500*	46.3	*21*					
610			24.02	*610*	48.5	*22*					
STL141S150	30/28	11.5	5.91	*150*	35.3	*16.0*	0.73	208-230	60	2.8	3300
230			9.06	*230*	36.4	*16.5*	*0.54*	460	60	1.4	3300
300			11.81	*300*	37.5	*17.0*					
380			14.96	*380*	38.6	*17.5*					
470			18.50	*470*	43.0	*19.5*					
580			22.83	*580*	46.3	*21.0*					
STL142S180	30/58	13.0	7.09	*180*	44.1	*20*	1.5	208-230	60	5.8	3300
260			10.24	*260*	46.3	*21*	*1.1*	460	60	2.9	3300
330			12.99	*330*	48.5	*22*					
410			16.14	*410*	50.7	*23*					
500			19.69	*500*	52.9	*24*					
610			24.02	*610*	55.1	*25*					
STL143S220	30/88	14.0	8.46	*215*	66.2	*30*	2	208-230	60	7.6	3400
300			11.61	*295*	68.4	*31*	*1.5*	460	60	3.8	3400
370			14.37	*365*	70.6	*32*					
450			17.52	*445*	72.8	*33*					
540			21.06	*535*	75.0	*34*					
650			25.39	*645*	77.2	*35*					
STL144S250	30/118	14.0	9.84	*250*	68.4	*31*	2.3	208-230	60	8.2	3400
330			12.99	*330*	70.6	*32*	*1.7*	460	60	4.1	3400
400			15.75	*400*	72.8	*33*					
480			18.90	*480*	75.0	*34*					
570			22.44	*570*	77.2	*35*					
680			26.77	*680*	79.4	*36*					
STL145S300	30/148	15.6	11.81	*300*	79.4	*36*	3	208-230	60	10.6	3400
380			14.96	*380*	81.6	*37*	*2.2*	460	60	5.3	3400
450			17.72	*450*	83.8	*38*					
530			20.87	*530*	86.0	*39*					
620			24.41	*620*	88.2	*40*					
730			28.74	*730*	90.4	*41*					
STL146S330	30/180	15.9	13.19	*335*	79.4	*36*	3.5	208-230	60	12.6	3400
410			16.34	*415*	81.6	*37*	*2.6*	460	60	6.3	3400
480			19.09	*485*	83.8	*38*					
560			22.24	*565*	86.0	*39*					

Dimensions in Inches / mm
*) Dimensions for STL141, 142

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINKMANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The STL pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

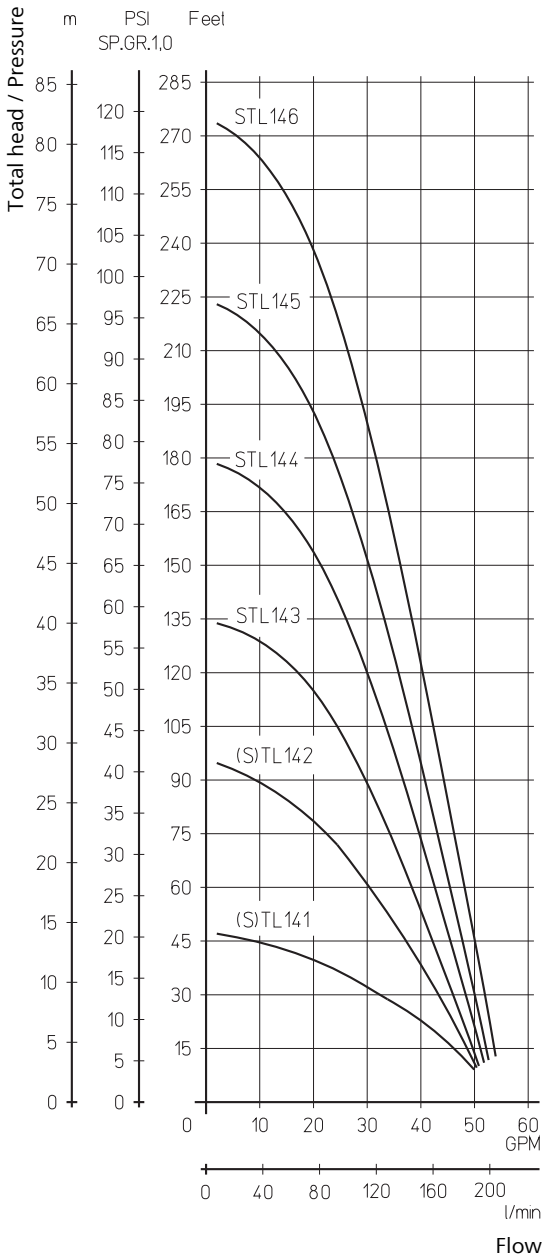
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast iron
Impeller radial	brass
Shaft	steel
Optional:	
Impeller radial	cast steel

For position of terminal box, see mechanical features within the technical information section.

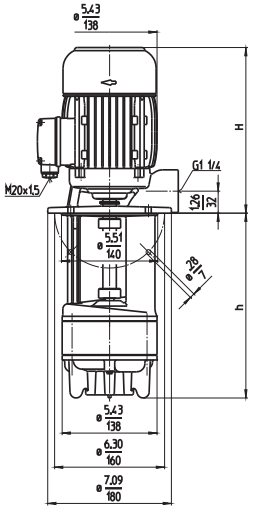


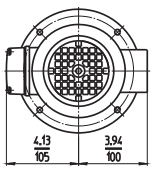
Quick Suctioning Immersion Pumps
TAL/SAL301...306

Axial/semi-open impellers

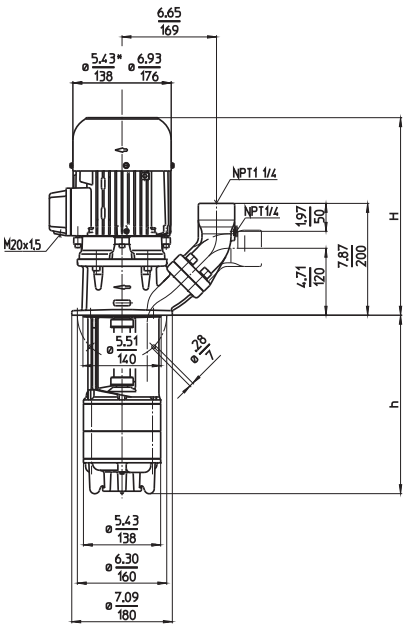
60 Hz

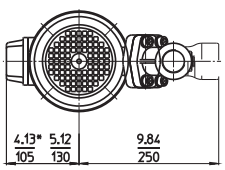
TAL302





SAL301...306





Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TAL302S190	40/43	10.3	7.48 *190*	40.8 *18.5*	1.5	208-230	60	5.8	3300
270			10.63 *270*	43.0 *19.5*	*1.1*	460	60	2.9	3300
340			13.39 *340*	45.2 *20.5*					
420			16.54 *420*	47.4 *21.5*					
510			20.08 *510*	49.6 *22.5*					
620			24.41 *620*	51.8 *23.5*					
SAL301S140	40/28	11.5	5.51 *140*	29.8 *13.5*	0.73	208-230	60	2.8	3300
220			8.66 *220*	32.0 *14.5*	*0.54*	460	60	1.4	3300
290			11.42 *290*	34.2 *15.5*					
370			14.57 *370*	36.4 *16.5*					
460			18.11 *460*	38.6 *17.5*					
570			22.44 *570*	40.8 *18.5*					
SAL302S190	40/43	13.0	7.48 *190*	46.3 *21*	1.5	208-230	60	5.8	3300
270			10.63 *270*	48.5 *22*	*1.1*	460	60	2.9	3300
340			13.39 *340*	50.7 *23*					
420			16.54 *420*	52.9 *24*					
510			20.08 *510*	55.1 *25*					
620				57.3 *26*					
SAL303S240	40/80	14.0	9.45 *240*	77.2 *35*	2	208-230	60	7.6	3400
320			12.60 *320*	79.4 *36*	*1.5*	460	60	3.8	3400
390			15.35 *390*	81.6 *37*					
470			18.50 *470*	83.8 *38*					
560			22.05 *560*	86.0 *39*					
670			26.38 *670*	88.2 *40*					
870			34.25 *870*	92.6 *42*					
1020			40.16 *1020*	94.8 *43*					
SAL304S290	40/108	15.6	11.42 *290*	92.6 *42*	2.5	208-230	60	9.8	3400
370			14.57 *370*	94.8 *43*	*1.9*	460	60	4.9	3400
440			17.32 *440*	97.0 *44*					
520			20.47 *520*	99.2 *45*					
610			24.02 *610*	101.4 *46*					
720			28.35 *720*	103.6 *47*					
920			36.22 *920*	108.0 *49*					
1070			42.13 *1070*	110.2 *50*					
SAL305S340	40/140	15.6	13.39 *340*	99.2 *45*	3	208-230	60	10.6	3400
420			16.54 *420*	101.4 *46*	*2.2*	460	60	5.3	3400
490			19.29 *490*	103.6 *47*					
570			22.44 *570*	105.8 *48*					
660			25.98 *660*	108.0 *49*					
770			30.31 *770*	110.2 *50*					
970			38.19 *970*	114.7 *52*					
1120			44.09 *1120*	116.9 *53*					
SAL306S390	40/170	15.9	15.35 *390*	110.2 *50*	3.5	208-230	60	12.6	3400
470			18.50 *470*	112.5 *51*	*2.6*	460	60	6.3	3400
540			21.26 *540*	114.7 *52*					
620			24.41 *620*	116.9 *53*					
710			27.95 *710*	121.3 *55*					
820			32.28 *820*	123.5 *56*					
1020			40.16 *1020*	125.7 *57*					

Dimensions in Inches / mm
*) Dimensions SAL301, 302

BRINKMANN PUMPS

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINKMANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SAL pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

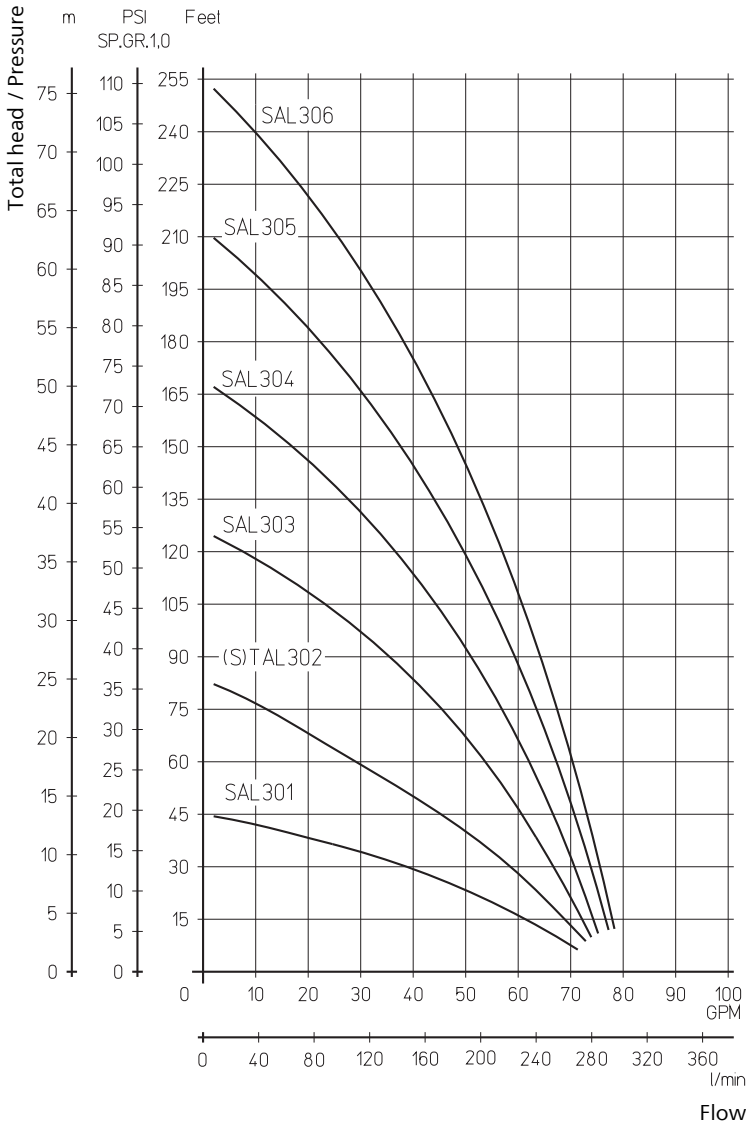
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	brass
Shaft	steel
Optional:	
Impeller radial	cast steel

For position of terminal box, see mechanical features within the technical information section.

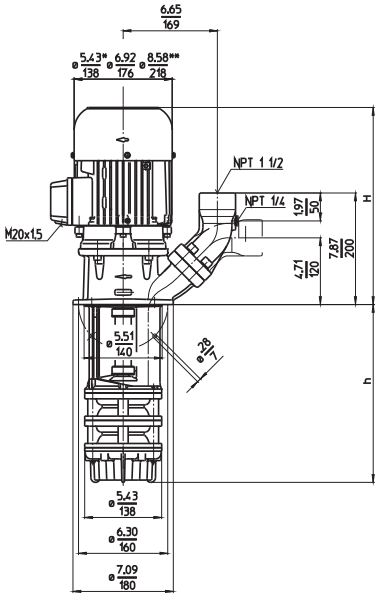


Quick Suctioning Immersion Pumps SAL401...407

Axial/semi-open impellers

60 Hz

SAL401...407



Dimensions in Inches / mm
*) Dimensions SAL401
**) Dimensions SAL406, 407

Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SAL401S140	60/30	12.2	5.51 *140*	35.3 *16*	1.15	208-230	60	5.2	3300
220			8.66 *220*	37.5 *17*	*0.85*	460	60	2.5	3300
290			11.42 *290*	39.7 *18*					
370			14.57 *370*	41.9 *19*					
460			18.11 *460*	44.1 *20*					
570			22.44 *570*	46.3 *21*					
770			30.31 *770*	48.5 *22*					
920			36.22 *920*	50.7 *23*					
SAL402S190	60/45	14.0	7.48 *190*	68.4 *31*	1.75	208-230	60	6	3400
270			10.63 *270*	70.6 *32*	*1.3*	460	60	3	3400
340			13.39 *340*	72.8 *33*					
420			16.54 *420*	75.0 *34*					
510			20.08 *510*	77.2 *35*					
620			24.41 *620*	81.6 *37*					
820			32.28 *820*	83.8 *38*					
970			38.19 *970*	86.0 *39*					
SAL403S240	60/68	14.0	9.45 *240*	72.8 *33*	2.3	208-230	60	8.2	3400
320			12.60 *320*	75.0 *34*	*1.7*	460	60	4.1	3400
390			15.35 *390*	77.2 *35*					
470			18.50 *470*	79.4 *36*					
560			22.05 *560*	81.6 *37*					
670			26.38 *670*	83.8 *38*					
870			34.25 *870*	88.2 *40*					
1020			40.16 *1020*	90.4 *41*					
SAL404S290	60/98	15.6	11.42 *290*	86.0 *39*	3	208-230	60	10.6	3400
370			14.57 *370*	88.2 *40*	*2.2*	460	60	5.3	3400
440			17.32 *440*	90.4 *41*					
520			20.47 *520*	92.6 *42*					
610			24.02 *610*	94.8 *43*					
720			28.35 *720*	97.0 *44*					
920			36.22 *920*	101.4 *46*					
1070			42.13 *1070*	103.6 *47*					
SAL405S340	60/120	15.9	13.39 *340*	94.8 *43*	3.5	208-230	60	12.6	3400
420			16.54 *420*	97.0 *44*	*2.6*	460	60	6.3	3400
490			19.29 *490*	99.2 *45*					
570			22.44 *570*	101.4 *46*					
660			25.98 *660*	103.6 *47*					
770			30.31 *770*	105.8 *48*					
970			38.19 *970*	112.5 *51*					
1120			44.09 *1120*	114.7 *52*					
SAL406S390	60/148	17.5	15.35 *390*	123.5 *56*	4.4	208-230	60	16	3450
470			18.50 *470*	125.7 *57*	*3.3*	460	60	8	3450
540			21.26 *540*	127.9 *58*					
620			24.41 *620*	130.1 *59*					
710			27.95 *710*	132.3 *60*					
820			32.28 *820*	134.5 *61*					
1020			40.16 *1020*	136.7 *62*					
SAL407S440	60/175	17.5	17.32 *440*	132.3 *60*	5.4	208-230	60	19.0	3450
520			20.47 *520*	134.5 *61*	*4.0*	460	60	9.5	3450
590			23.23 *590*	136.7 *62*					
670			26.38 *670*	138.9 *63*					
760			29.92 *760*	141.1 *64*					
870			34.25 *870*	143.3 *65*					

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINKMANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SAL pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

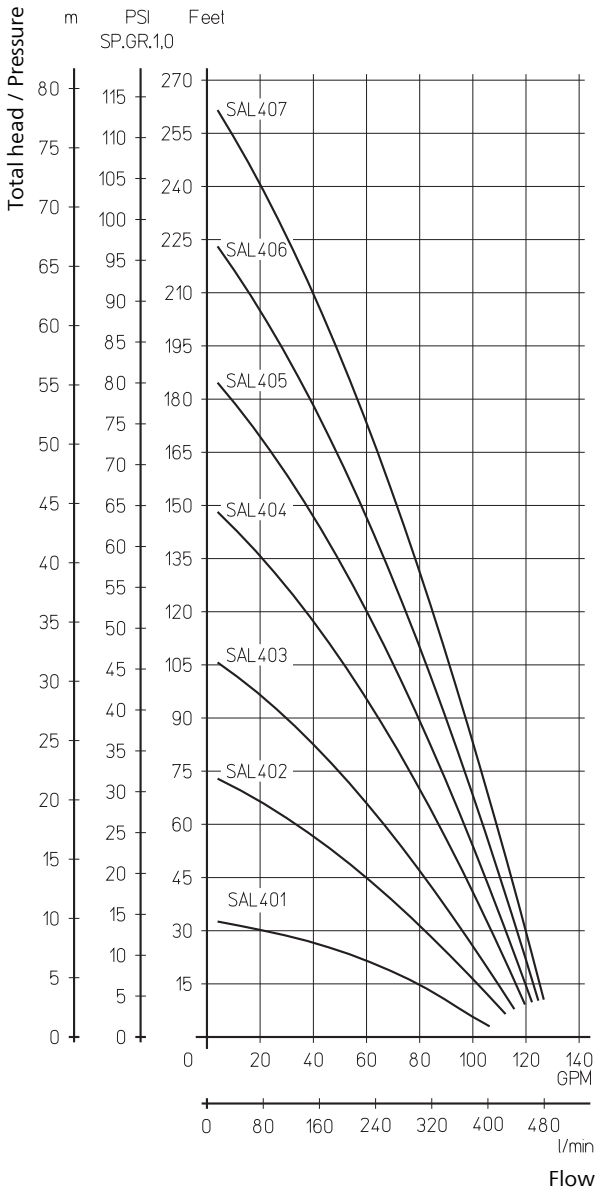
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	brass
Shaft	steel
Optional:	
Impeller radial	cast steel

For position of terminal box, see mechanical features within the technical information section.

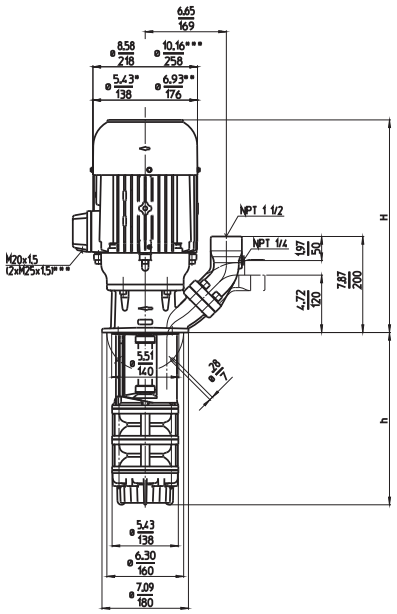


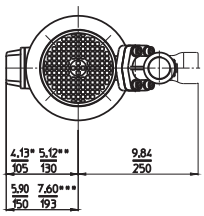
Quick Suctioning Immersion Pumps SAL601...608

Axial/semi-open impellers

60 Hz

SAL601...608





Dimensions in Inches / mm
*) Dimensions SAL601
**) Dimensions SAL602
***) Dimensions SAL605, 607, 608

Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch	h mm	Weight Lbs	kg	Power HP kW	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SAL601S150	100/14	12.2	5.91	*150*	37.5	*17*	1.25	208-230	60	5.4	3300
230			9.06	*230*	39.7	*18*	*0.92*	460	60	2.7	3300
300			11.81	*300*	41.9	*19*					
380			14.96	*380*	44.1	*20*					
470			18.50	*470*	46.3	*21*					
580			22.83	*580*	48.5	*22*					
780			30.71	*780*	55.1	*25*					
930			36.61	*930*	57.3	*26*					
SAL602S220	100/40	15.6	8.46	*215*	77.2	*35*	3	208-230	60	10.6	3400
300			11.61	*295*	79.4	*36*	*2.2*	460	60	5.3	3400
370			14.37	*365*	81.6	*37*					
450			17.52	*445*	83.8	*38*					
540			21.06	*535*	86.0	*39*					
650			25.39	*645*	90.4	*41*					
850			33.27	*845*	94.8	*43*					
1000			39.17	*995*	97.0	*44*					
SAL603S280	100/60	17.5	11.02	*280*	110.2	*50*	4.4	208-230	60	16	3450
360			14.17	*360*	112.5	*51*	*3.3*	460	60	8	3450
430			16.93	*430*	114.7	*52*					
510			20.08	*510*	116.9	*53*					
600			23.62	*600*	119.1	*54*					
710			27.95	*710*	121.3	*55*					
910			35.83	*910*	125.7	*57*					
1060			41.73	*1060*	127.9	*58*					
SAL604S350	100/90	17.5	13.58	*345*	121.3	*55*	5.4	208-230	60	19.0	3450
430			16.73	*425*	123.5	*56*	*4.0*	460	60	9.5	3450
500			19.49	*495*	125.7	*57*					
580			22.64	*575*	127.9	*58*					
670			26.18	*665*	130.1	*59*					
780			30.71	*780*	132.3	*60*					
980			38.39	*975*	136.7	*62*					
1130			44.29	*1125*	138.9	*63*					
SAL605S410	100/110	18.9	16.14	*410*	161.0	*73*	7.4	208-230	60	25.0	3450
490			19.29	*490*	163	*74*	*5.5*	460	60	12.5	3450
560			22.05	*560*	165	*75*					
640			25.20	*640*	168	*76*					
730			28.74	*730*	170	*77*					
840			33.07	*840*	172	*78*					
1040			40.94	*1040*	174	*79*					
SAL607S540	100/165	23.1	21.26	*540*	229	*104*	11.5	460	60	14.2	3550
620			24.41	*620*	232	*105*	*8.6*				
690			27.17	*690*	234	*106*					
770			30.31	*770*	236	*107*					
860			33.86	*860*	238	*108*					
970			38.19	*970*	240	*109*					
SAL608S600	100/205	23.1	23.62	*600*	251	*114*	13.8	460	60	16.9	3550
680			26.77	*680*	254	*115*	*10.3*				
750			29.53	*750*	256	*116*					
830			32.68	*830*	258	*117*					
920			36.22	*920*	260	*118*					
1030			40.55	*1030*	262	*119*					

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINKMANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SAL pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

For position of terminal box, see mechanical features within the technical information section.

Applications

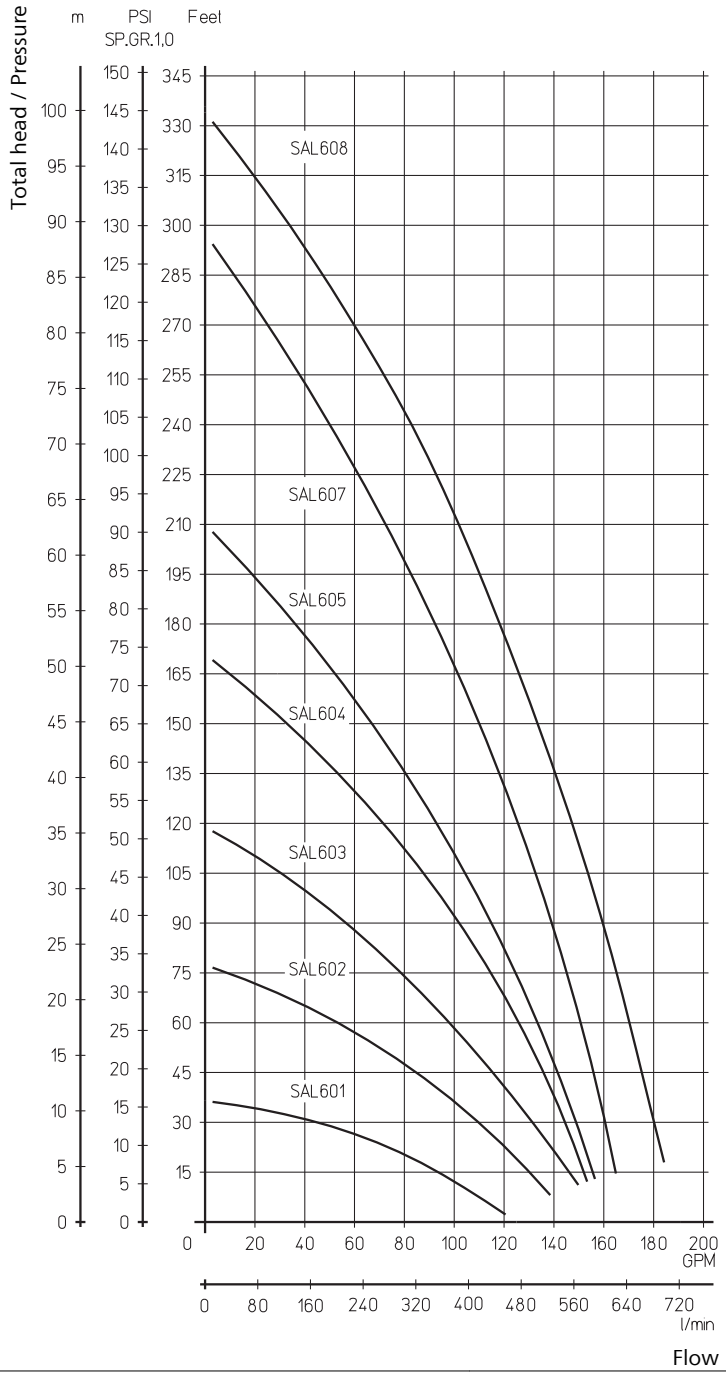
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	brass
Shaft	steel
Optional:	
Impeller radial	cast steel

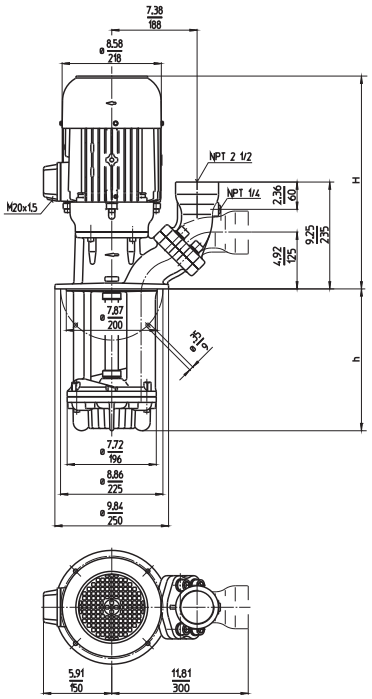


Quick Suctioning Immersion Pumps SAL630...1130

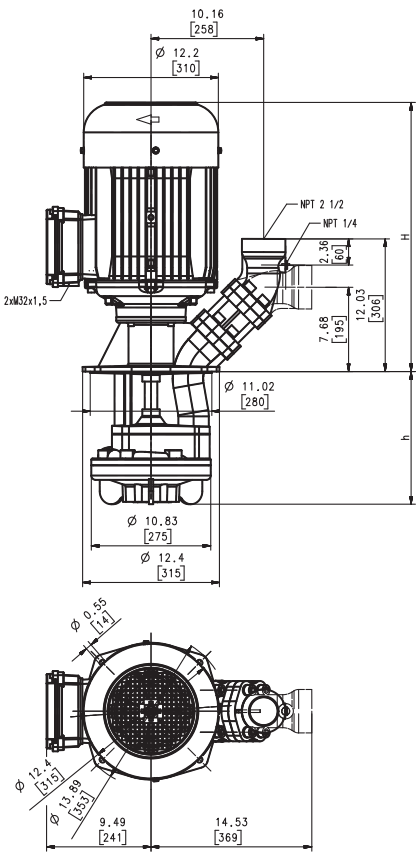
Axial/semi-open impellers

60 Hz

SAL630, 830



SAL1130



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SAL630S220	150/75 *600/22*	18.4 *468*	8.66 *220*	163	*74*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
320			12.60 *320*	170	*77*					
450			17.72 *450*	176	*80*					
570			22.44 *570*	185	*84*					
770			30.31 *770*	194	*88*					
1000			39.37 *1000*	209	*95*					
SAL830S230	200/72 *800/22*	18.4 *468*	9.06 *230*	165	*75*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
330			12.99 *330*	172	*78*					
460			18.11 *460*	179	*81*					
580			22.83 *580*	187	*85*					
780			30.71 *780*	196	*89*					
1010			39.76 *1010*	212	*96*					
1130			44.49 *1130*	218	*99*					
SAL1130S310	400/75 *1400/24*	24.4 *620*	12.20 *310*	311	*141*	17 *12.6*	460	60	21.5	3560
440			17.32 *440*	315	*143*					
560			22.05 *560*	322	*146*					
810			31.89 *810*	335	*152*					
1060			41.73 *1060*	340	*154*					

Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINKMANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SAL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

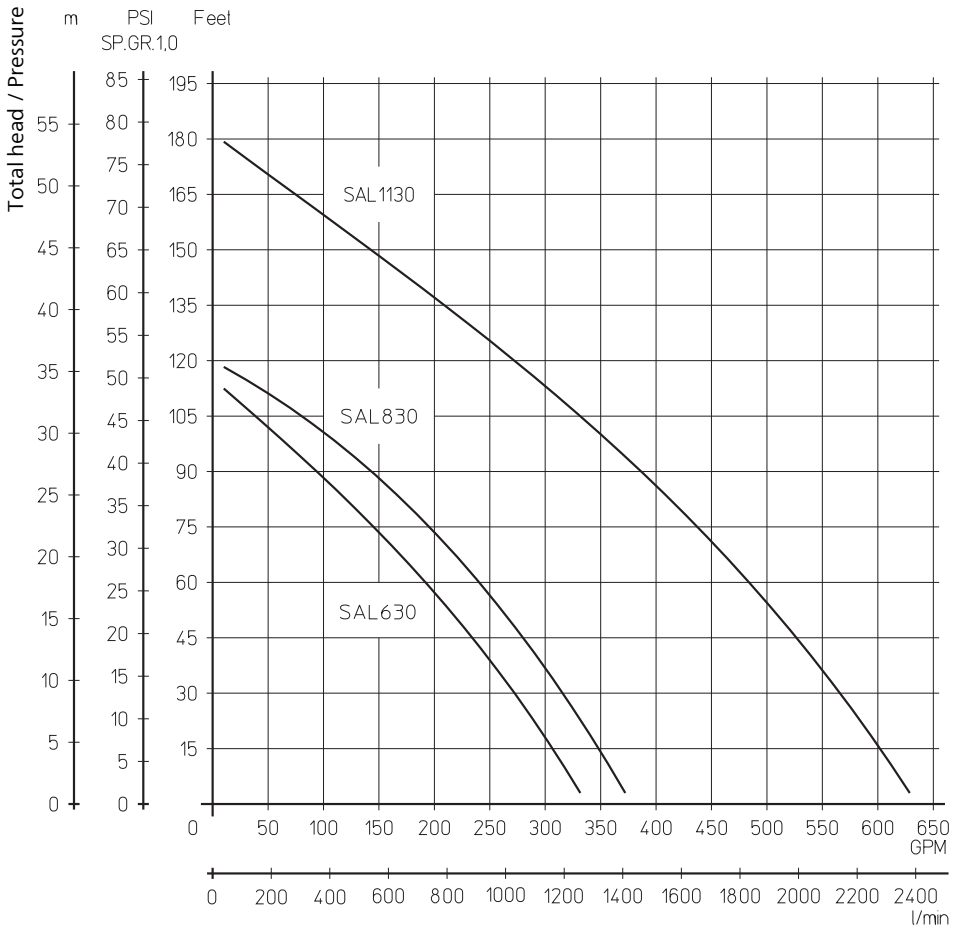
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

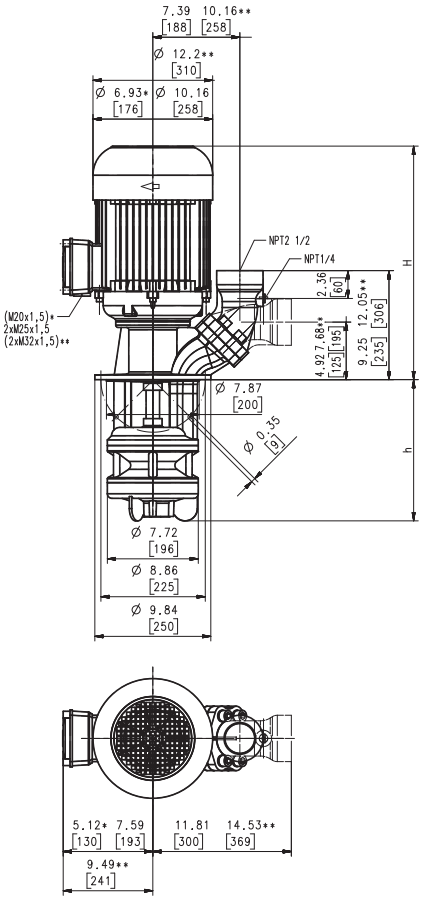


Quick Suctioning Immersion Pumps SAL901...904

Axial/semi-open impellers

60 Hz

SAL901, 902
SAL903, 904



Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm
*) Dimensions SAL901
**) Dimensions SAL904

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SAL901S220	175/43 *700/12*	16.9 *429*	8.66 *220*	110.2 *50*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
320			12.60 *320*	114.7 *52*					
450			17.72 *450*	119.1 *54*					
570			22.44 *570*	125.7 *57*					
770			30.31 *770*	136.7 *62*					
1000			39.37 *1000*	152.1 *69*					
1120			44.09 *1120*	161.0 *73*					
SAL902S290	175/92 *700/26*	19.8 *504*	11.42 *290*	183 *83*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
390			15.35 *390*	190 *86*					
520			20.47 *520*	198 *90*					
640			25.20 *640*	207 *94*					
840			33.07 *840*	218 *99*					
1070			42.13 *1070*	234 *106*					
1190			46.85 *1190*	245 *111*					
SAL903S360	175/135 *700/37*	24.1 *612*	14.17 *360*	260 *118*	13.8 *10.3*	460	60	16.9	3550
460			18.11 *460*	269 *122*					
590			23.23 *590*	278 *126*					
710			27.95 *710*	287 *130*					
910			35.83 *910*	298 *135*					
1140			44.88 *1140*	313 *142*					
SAL904S430	175/180 *700/52*	24.4 *620*	16.93 *430*	320 *145*	17 *12.6*	460	60	21.5	3560
530			20.87 *530*	326 *148*					
660			25.98 *660*	335 *152*					
780			30.71 *780*	344 *156*					
980			38.58 *980*	355 *161*					
1210			47.64 *1210*	370 *168*					

60 Hz

Quick Suctioning Immersion Pumps

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The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SAL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

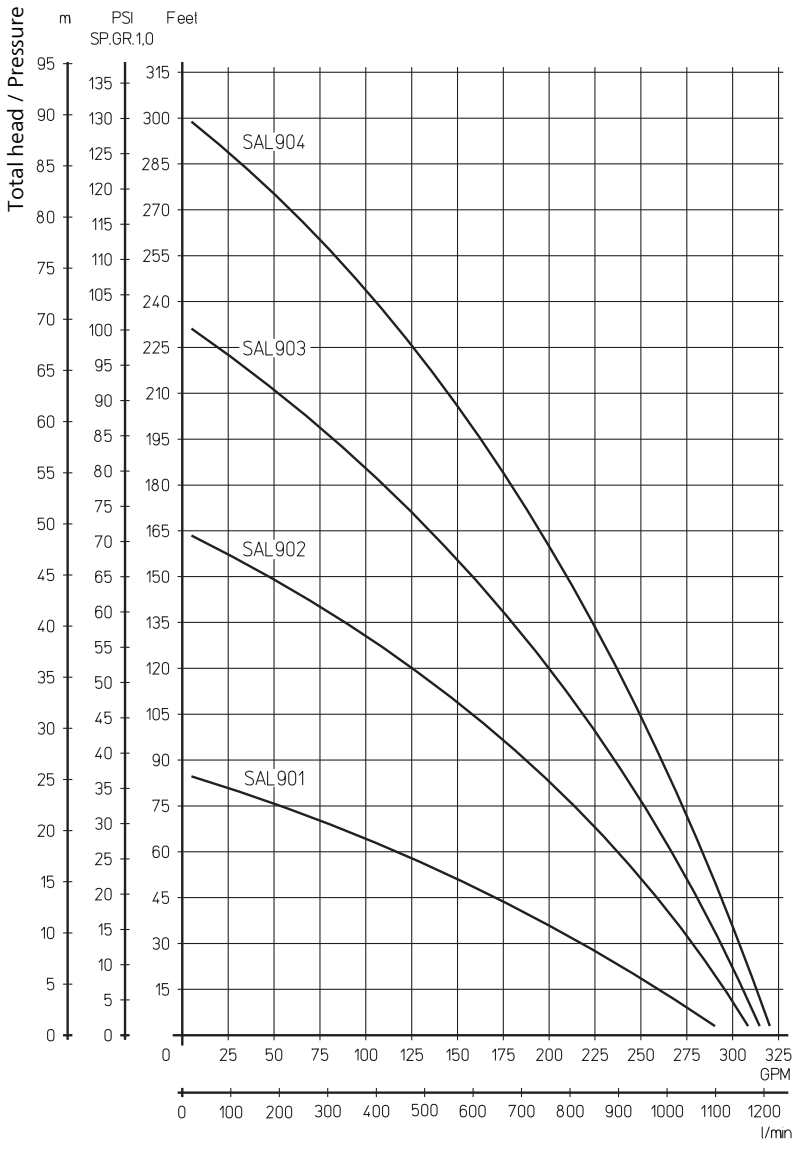
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

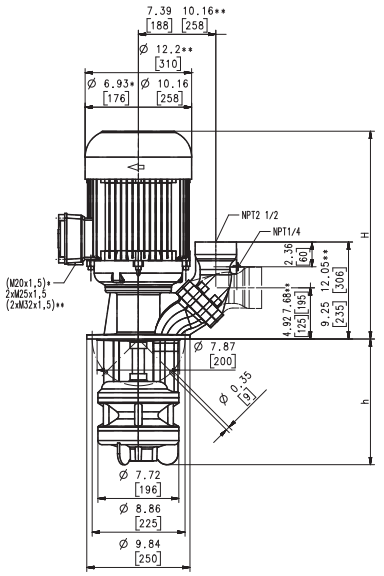


Quick Suctioning Immersion Pumps SAL1001...1006

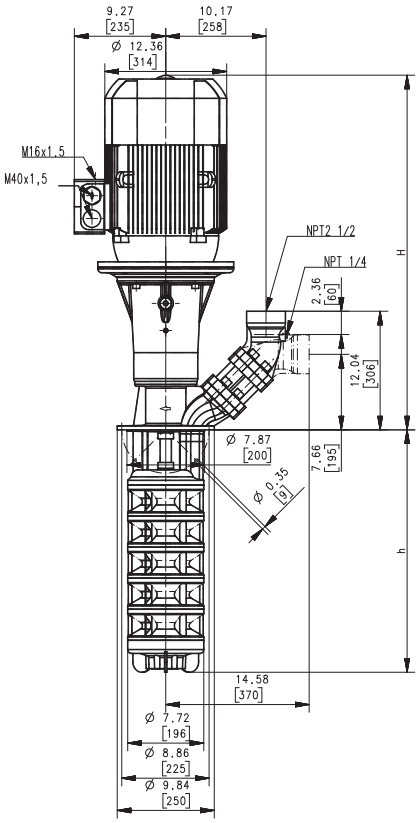
Axial/semi-open impellers

60 Hz

SAL1001...1004



SAL1006



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SAL1001S230	200/38 *800/10*	16.9 *429*	9.06 *230*	112.5	*51*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
330			12.99 *330*	116.9	*53*					
460			18.11 *460*	121.3	*55*					
580			22.83 *580*	127.9	*58*					
780			30.71 *780*	138.9	*63*					
1010			39.76 *1010*	154.4	*70*					
1130			44.49 *1130*	163	*74*					
SAL1002S310	200/74 *800/21*	19.8 *504*	12.20 *310*	185	*84*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
410			16.14 *410*	192	*87*					
540			21.26 *540*	201	*91*					
660			25.98 *660*	209	*95*					
860			33.86 *860*	220	*100*					
1090			42.91 *1090*	236	*107*					
1210			47.64 *1210*	247	*112*					
SAL1003S390	200/115 *800/32*	24.1 *612*	15.35 *390*	265	*120*	13.8 *10.3*	460	60	16.9	3550
490			19.29 *490*	271	*123*					
620			24.41 *620*	280	*127*					
740			29.13 *740*	289	*131*					
940			37.01 *940*	300	*136*					
1170			5.63 *143*	315	*143*					
SAL1004S470	200/160 *800/45*	24.4 *620*	18.50 *470*	333	*151*	20 *15.0*	460	60	24.8	3560
570			22.44 *570*	340	*154*					
700			27.56 *700*	348	*158*					
820			32.28 *820*	357	*162*					
1020			40.16 *1020*	368	*167*					
1250			49.21 *1250*	379	*172*					
SAL1006S630	200/265 *800/76*	38.3 *974*	24.80 *630*	395	*179*	29 *21.3*	460	60	32	3555
730			28.74 *730*	401	*182*					
860			33.86 *860*	410	*186*					
980			38.58 *980*	423	*192*					

Dimensions in Inches / mm
*) Dimensions SAL1001
**) Dimensions SAL1004
Discharge port with NPT 2 inches available upon request.

BRINKMANN PUMPS

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINK-MANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/ cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SAL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

For position of terminal box, see mechanical features within the technical information section.

Applications

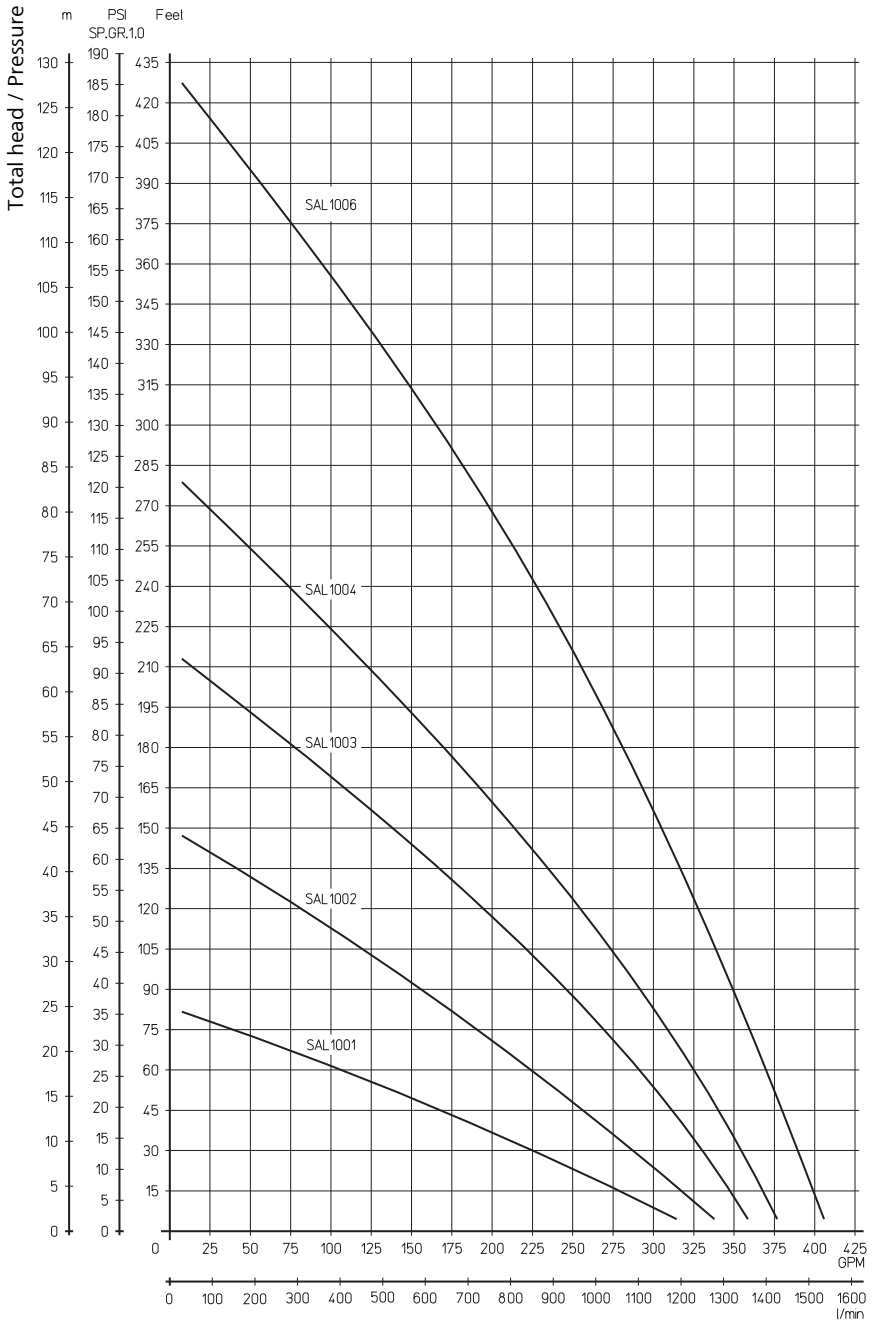
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

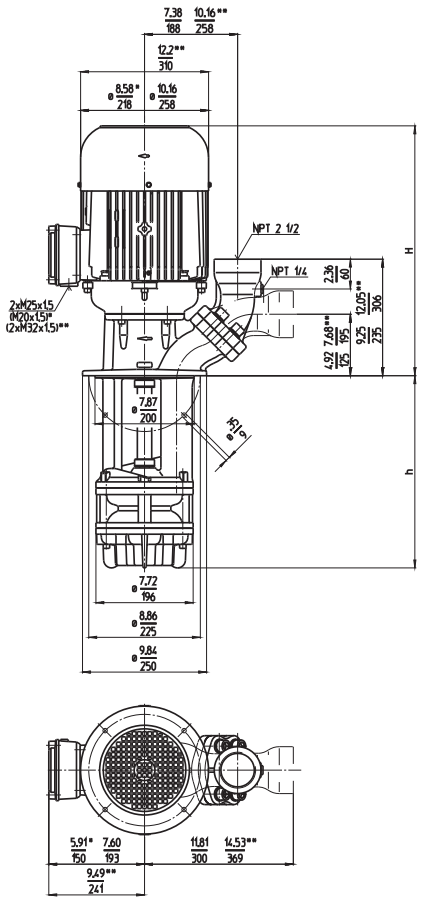


Quick Suctioning Immersion Pumps SAL1301...1303

Axial/semi-open impellers

60 Hz

SAL1301, 1302 SAL1303



Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm
*) Dimensions SAL1301
**) Dimensions SAL1303

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SAL1301S230	250/32 *900/11*	18.4 *468*	9.06 *230*	127.9 *58*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
330			12.99 *330*	132.3 *60*					
460			18.11 *460*	136.7 *62*					
580			22.83 *580*	143.3 *65*					
780			30.71 *780*	154.4 *70*					
1010			39.76 *1010*	170 *77*					
1130			44.49 *1130*	176 *80*					
SAL1302S310	250/82 *900/26*	24.1 *612*	12.20 *310*	247 *112*	13.8 *10.3*	460	60	16.9	3550
410			16.14 *410*	254 *115*					
540			21.26 *540*	262 *119*					
660			25.98 *660*	271 *123*					
860			33.86 *860*	284 *129*					
1090			42.91 *1090*	298 *135*					
SAL1303S390	250/130 *900/40*	24.4 *620*	15.35 *390*	306 *139*	17 *12.6*	460	60	21.5	3560
490			19.29 *490*	313 *142*					
620			24.41 *620*	326 *148*					
740			29.13 *740*	337 *153*					
940			37.01 *940*	348 *158*					
1170			46.06 *1170*	364 *165*					

60 Hz

Quick Suctioning Immersion Pumps

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The SAL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

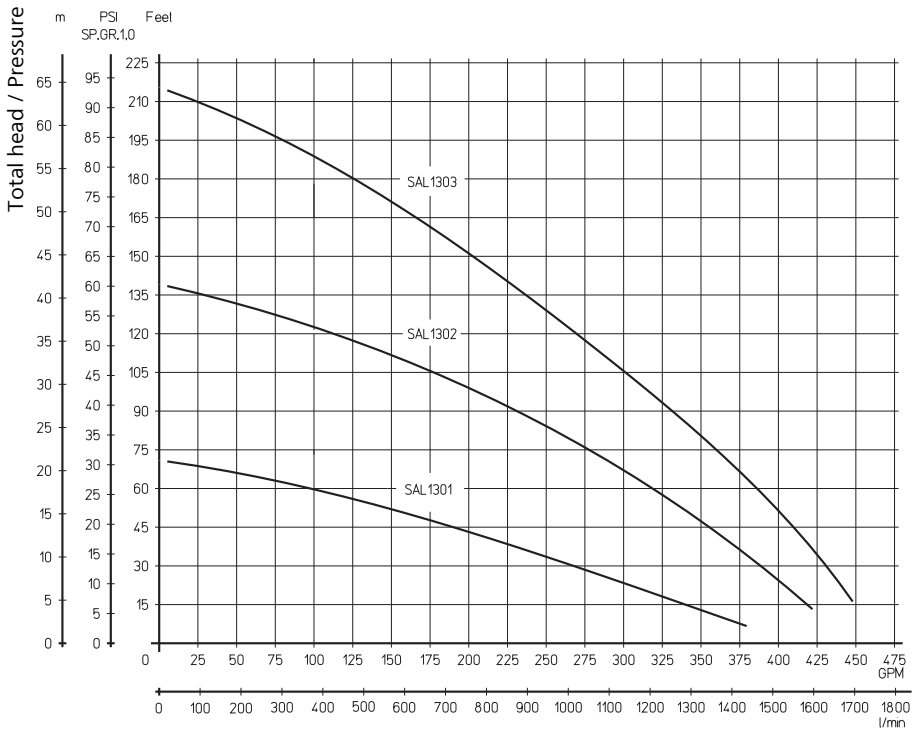
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

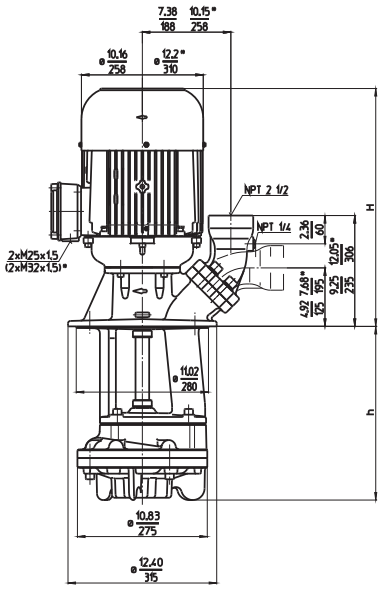


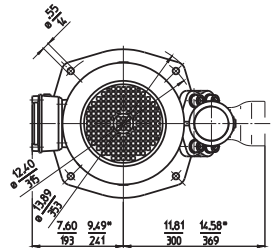
Quick Suctioning Immersion Pumps SAL1600...2500

Axial/semi-open impellers

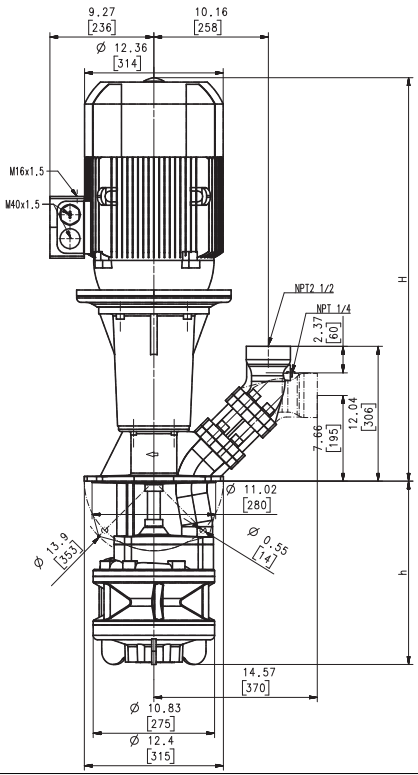
60 Hz

SAL1600...2000





SAL1602...2500



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SAL1600S310	350/55 *1300/17*	24.1 *612*	12.20 *310*	260	*118*	13.8 *10.3*	460	60	16.9	3550
440			17.32 *440*	265	*120*					
560			22.05 *560*	269	*122*					
810			31.89 *810*	282	*128*					
1060			41.73 *1060*	287	*130*					
SAL2000S310	400/75 *1600/21*	24.4 *620*	12.20 *310*	318	*144*	17 *12.6*	460	60	21.5	3560
440			17.32 *440*	322	*146*					
560			22.05 *560*	329	*149*					
810			31.89 *810*	342	*155*					
1060			41.73 *1060*	346	*157*					
SAL1602S420	350/118 *1300/36*	38.3 *974*	16.54 *420*	419	*190*	29 *21.3*	460	60	32	3555
550			21.65 *550*	423	*192*					
670			26.38 *670*	428	*194*					
920			36.22 *920*	441	*200*					
1170			46.06 *1170*	445	*202*					
SAL2002S420	400/158 *1600/45*	38.5 *978*	16.54 *420*	553	*251*	34 *25.3*	460	60	38.9	3550
550			21.65 *550*	562	*255*					
670			26.38 *670*	571	*259*					
920			36.22 *920*	591	*268*					
1170			46.06 *1170*	600	*272*					
SAL2500S340	500/105 *2000/30*	38.3 *974*	13.39 *340*	351	*159*	29 *21.3*	460	60	32	3555
470			18.50 *470*	355	*161*					
590			23.23 *590*	359	*163*					
840			33.07 *840*	395	*179*					
1090			42.91 *1090*	399	*181*					

Dimensions in Inches / mm
*) Dimensions SAL2000
Discharge port with NPT 2 inches available upon request.

60 Hz

Quick Suctioning Immersion Pumps

equipped with the patented "BRINKMANN's Suction De-aeration System" are excellently suited for pumping **extremely inflated fluids** (emulsions resp. cooling/cutting oils) as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SAL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

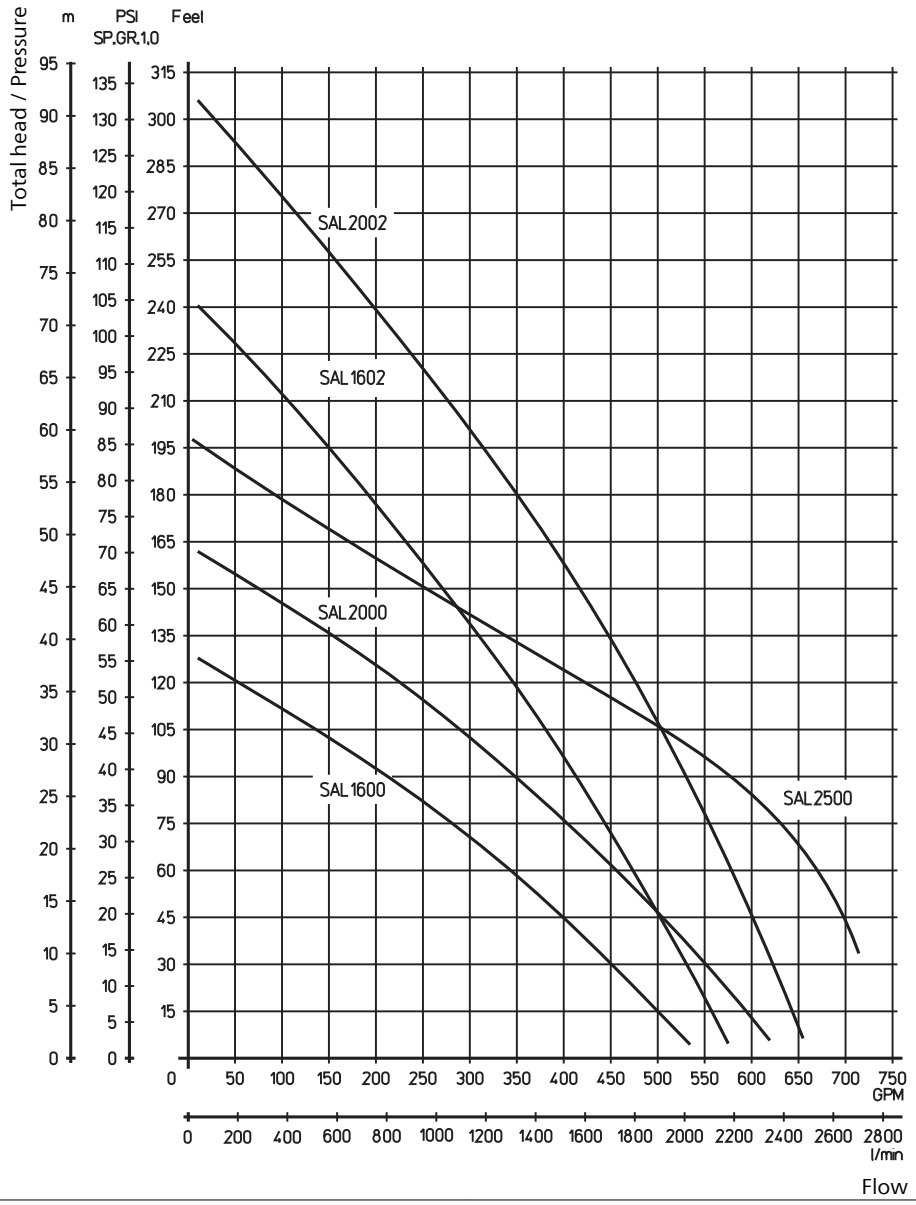
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

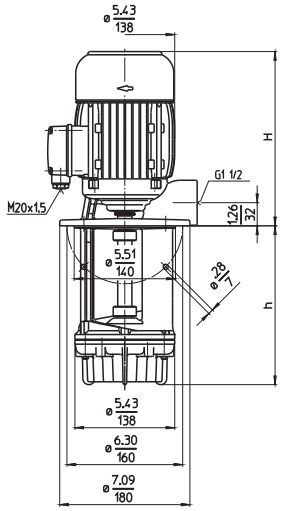


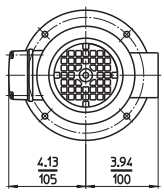
Quick Suctioning Immersion Pumps TGL/SGL331...333

Axial/semi-open impellers

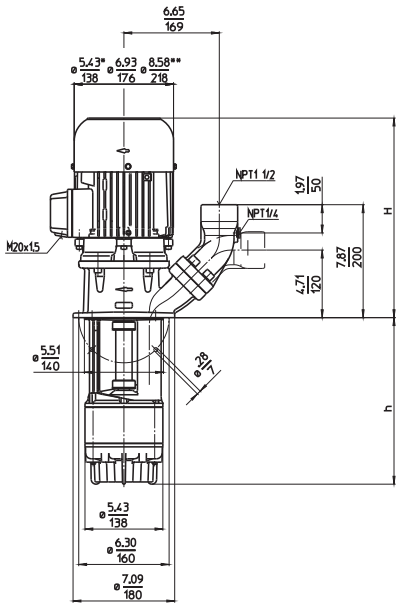
60 Hz

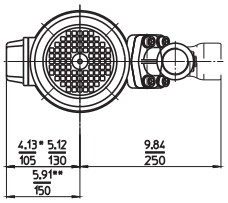
TGL331





SGL331...333





Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*		Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TGL331S140	50/25 *200/8*	9.5 *241*	5.51	*140*	29.8	*13.5*	1.15 *0.85*	208-230 460	60 60	5.2 2.5	3300 3300
220			8.66	*220*	32.0	*14.5*					
290			11.42	*290*	34.2	*15.5*					
370			14.57	*370*	36.4	*16.5*					
460			18.11	*460*	38.6	*17.5*					
570			22.44	*570*	40.8	*18.5*					
SGL331S140	50/25 *200/8*	12.2 *311*	5.51	*140*	35.3	*16*	1.15 *0.85*	208-230 460	60 60	5.2 2.5	3300 3300
220			8.66	*220*	37.5	*17*					
290			11.42	*290*	39.7	*18*					
370			14.57	*370*	41.9	*19*					
460			18.11	*460*	44.1	*20*					
570			22.44	*570*	46.3	*21*					
770			30.31	*770*	48.5	*22*					
920			36.22	*920*	50.7	*23*					
SGL332S190	50/50 *200/15*	14.0 *355*	7.48	*190*	55.1	*25*	1.75 *1.3*	208-230 460	60 60	6 3	3400 3400
270			10.63	*270*	57.3	*26*					
340			13.39	*340*	59.5	*27*					
420			16.54	*420*	61.7	*28*					
510			20.87	*530*	63.9	*29*					
620			24.41	*620*	68.4	*31*					
820			32.28	*820*	83.8	*38*					
970			38.19	*970*	86.0	*39*					
SGL333S240	50/75 *200/22*	14.0 *355*	9.45	*240*	59.5	*27*	2.3 *1.7*	208-230 460	60 60	8.2 4.1	3400 3400
320			12.60	*320*	61.7	*28*					
390			15.35	*390*	63.9	*29*					
470			18.50	*470*	66.2	*30*					
560			22.05	*560*	70.6	*32*					
670			26.38	*670*	72.8	*33*					
870			34.25	*870*	88.2	*40*					
1020			40.16	*1020*	90.4	*41*					

Dimensions in Inches / mm
*) Dimensions SGL331

60 Hz

Quick Suctioning Immersion Pumps

of **series TGL/SGL** are equipped with the patented "BRINKMANN's Suction De-aeration System" and are excellently suited for pumping **extremely inflated fluids** (grinding oils) as they occur in high-speed grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SGL pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

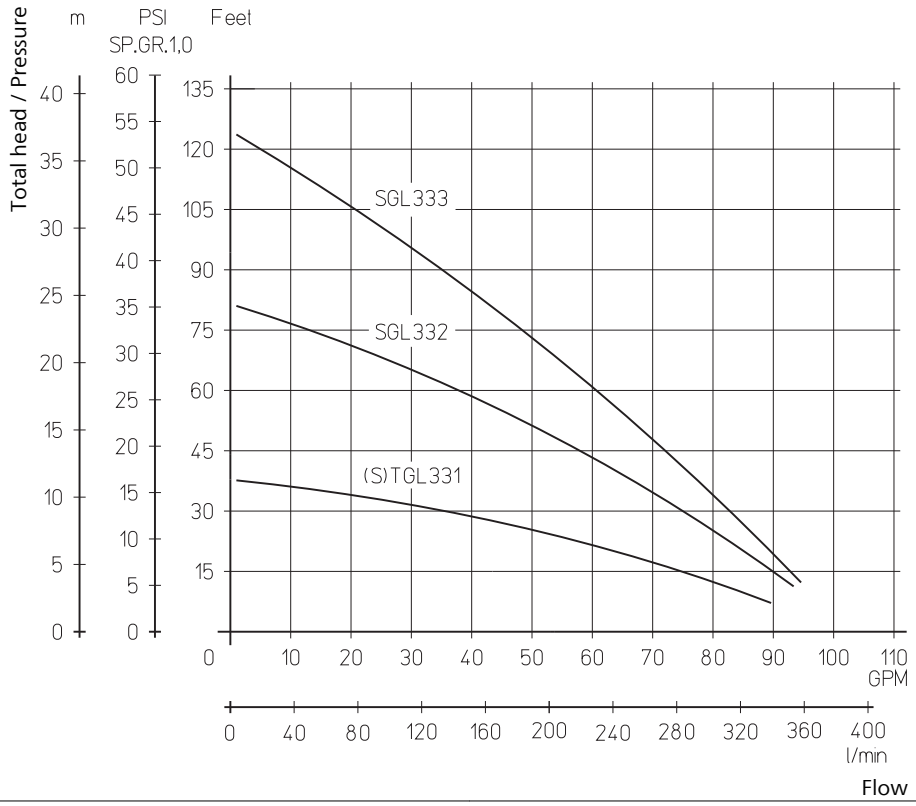
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

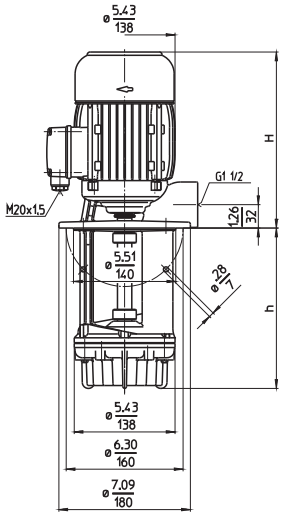


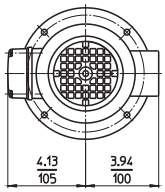
Quick Suctioning Immersion Pumps TGL/SGL501...503

Axial/semi-open impellers

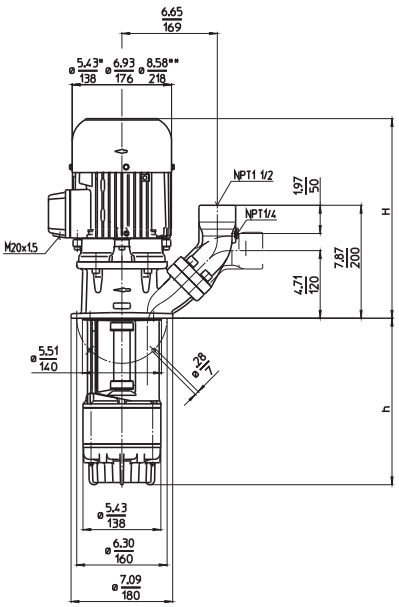
60 Hz

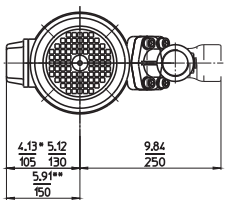
TGL501





SGL501...503





Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~	Frequency Hz	Current AMPS	Speed RPM
TGL501S150	60/22 *240/7*	10.3 *261*	5.91 *150*	33.1	*15.0*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
230			9.06 *230*	36.4	*16.5*					
300			11.81 *300*	38.6	*17.5*					
380			14.96 *380*	40.8	*18.5*					
470			18.50 *470*	43.0	*19.5*					
580			22.83 *580*	45.2	*20.5*					
SGL501S150	60/22 *240/7*	13.0 *331*	5.91 *150*	37.5	*17*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
230			9.06 *230*	39.7	*18*					
300			11.81 *300*	41.9	*19*					
380			14.96 *380*	44.1	*20*					
470			18.50 *470*	46.3	*21*					
580			22.83 *580*	48.5	*22*					
780			30.71 *780*	55.1	*25*					
930			36.61 *930*	57.3	*26*					
SGL502S220	60/55 *240/16*	15.6 *395*	8.46 *215*	77.2	*35*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
300			11.61 *295*	79.4	*36*					
370			14.37 *365*	81.6	*37*					
450			17.52 *445*	83.8	*38*					
540			21.06 *535*	86.0	*39*					
650			25.39 *645*	90.4	*41*					
850			33.27 *845*	94.8	*43*					
1000			39.17 *995*	97.0	*44*					
SGL503S280	60/85 *240/24*	17.5 *445*	11.02 *280*	110.2	*50*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
360			14.17 *360*	112.5	*51*					
430			16.93 *430*	114.7	*52*					
510			20.08 *510*	116.9	*53*					
600			23.62 *600*	119.1	*54*					
710			27.95 *710*	121.3	*55*					
910			35.83 *910*	125.7	*57*					
1060			41.73 *1060*	127.9	*58*					

Dimensions in Inches / mm
*) Dimensions SGL501
*) Dimensions SGL503

BRINKMANN PUMPS

60 Hz

Quick Suctioning Immersion Pumps

of **series TGL/SGL** are equipped with the patented "BRINKMANN's Suction De-aeration System" and are excellently suited for pumping **extremely inflated fluids** (grinding oils) as they occur in high-speed grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SGL pumps are equipped with the user-friendly 45 degree **(SAE) flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

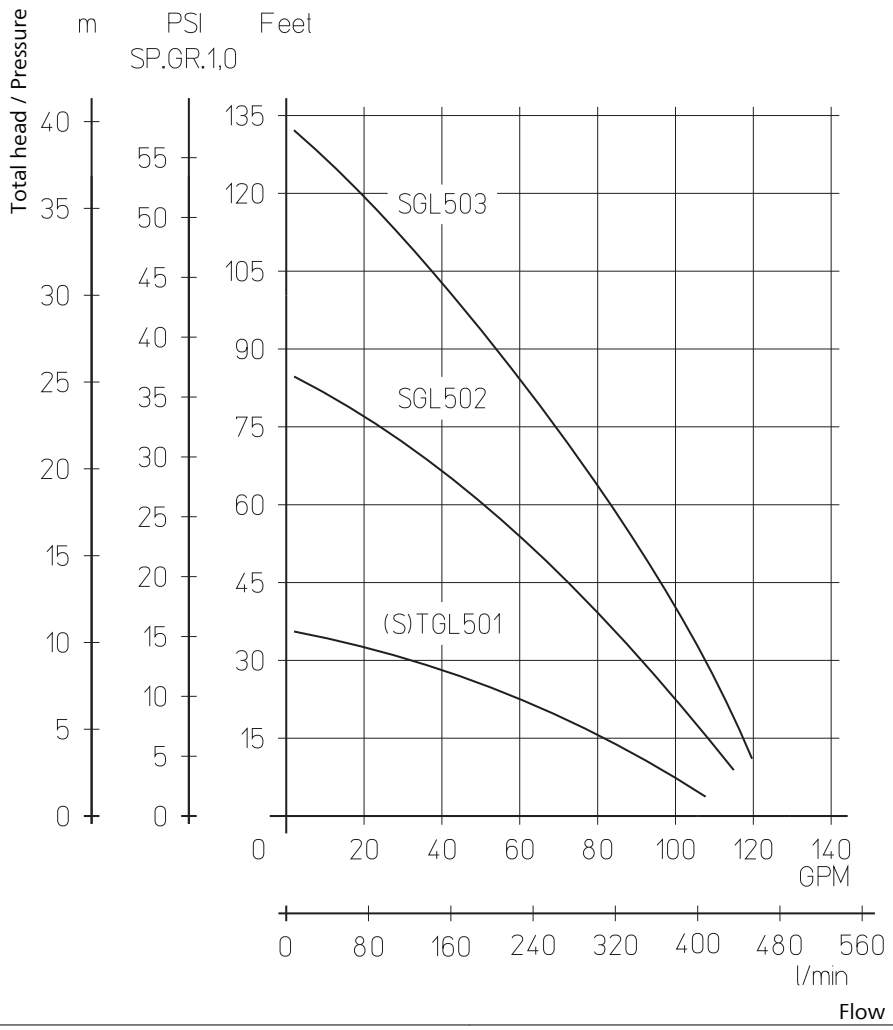
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

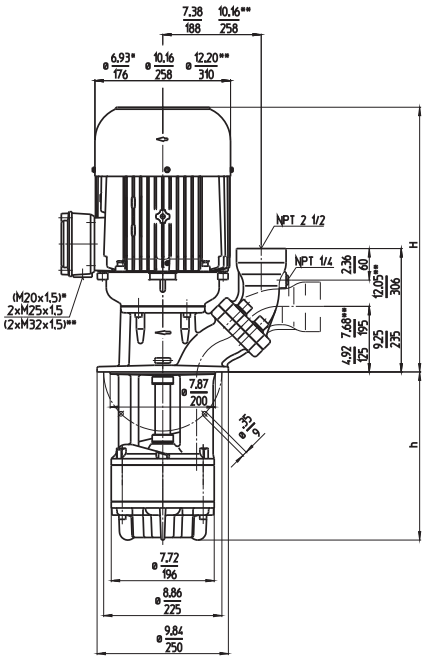


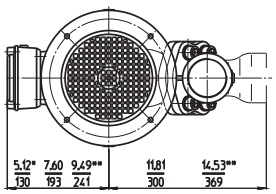
Quick Suctioning Immersion Pumps SGL801...804

Axial/semi-open impellers

60 Hz

SGL801, 802
SGL803, 804





Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm
*) Dimensions SGL801
**) Dimensions SGL804

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SGL801S220	150/40 *600/10*	16.9 *429*	8.66 *220*	110.2 *50*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
320			12.60 *320*	114.7 *52*					
450			17.72 *450*	119.1 *54*					
570			22.44 *570*	125.7 *57*					
770			30.31 *770*	136.7 *62*					
1000			39.37 *1000*	152.1 *69*					
SGL802S290	150/75 *600/22*	19.8 *504*	11.42 *290*	183 *83*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
390			15.35 *390*	190 *86*					
520			20.47 *520*	198 *90*					
640			25.20 *640*	207 *94*					
840			33.07 *840*	218 *99*					
1070			42.13 *1070*	234 *106*					
SGL803S360	150/105 *600/30*	24.1 *612*	14.17 *360*	262 *119*	13.8 *10.3*	460	60	16.9	3550
460			18.11 *460*	273 *124*					
590			23.23 *590*	282 *128*					
710			27.95 *710*	291 *132*					
910			35.83 *910*	302 *137*					
SGL804S430	150/140 *600/40*	24.4 *620*	16.93 *430*	324 *147*	20 *15.0*	460	60	24.8	3560
530			20.87 *530*	331 *150*					
660			25.98 *660*	340 *154*					
780			30.71 *780*	348 *158*					
980			38.58 *980*	359 *163*					

BRINKMANN PUMPS

60 Hz

Quick Suctioning Immersion Pumps

of **series SGL** are equipped with the patented "BRINKMANN's Suction De-aeration System" and are excellently suited for pumping **extremely inflated fluids** (grinding oils) as they occur in high-speed grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SGL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

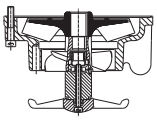
Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

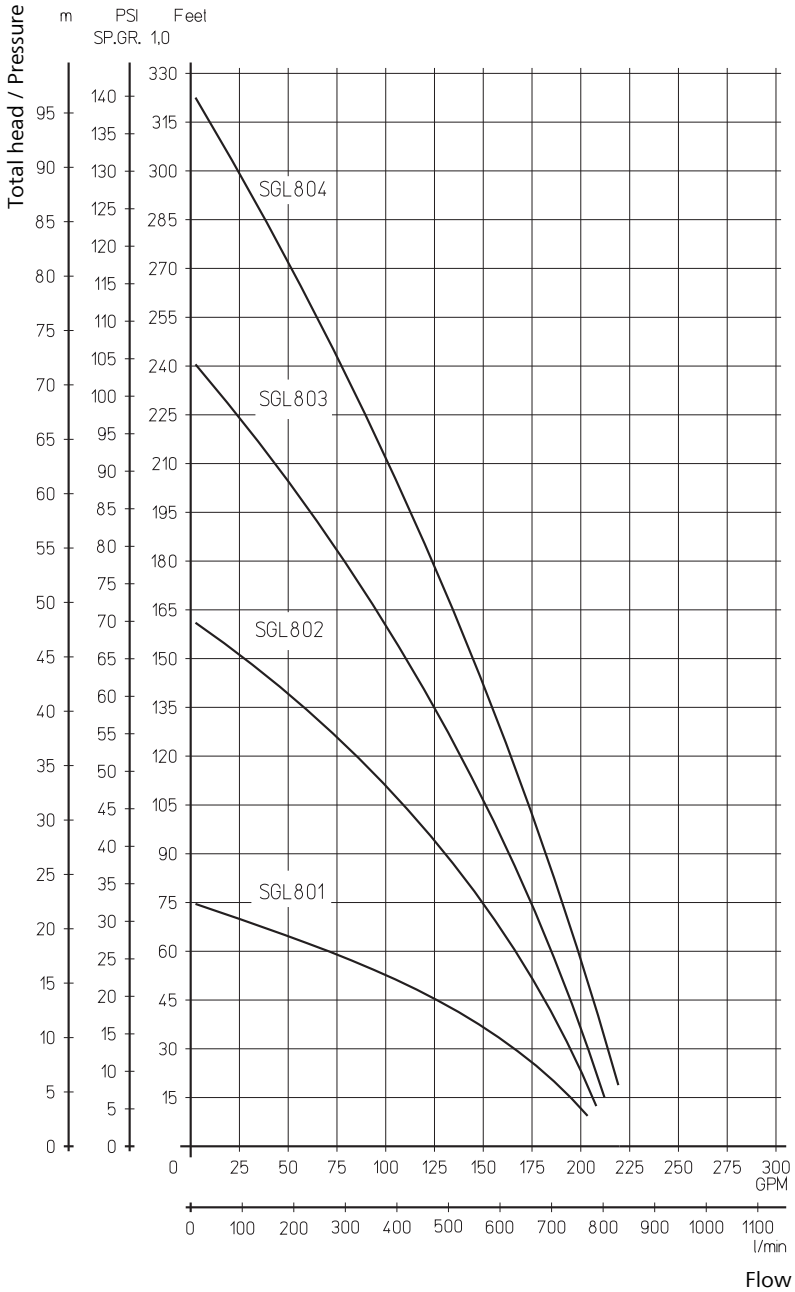
Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel



The pump SGL801 is available (upon request) with an additional agitator at the pump suction for breaking up and separating large bundles of chips or birds nests.

For position of terminal box, see mechanical features within the technical information section.

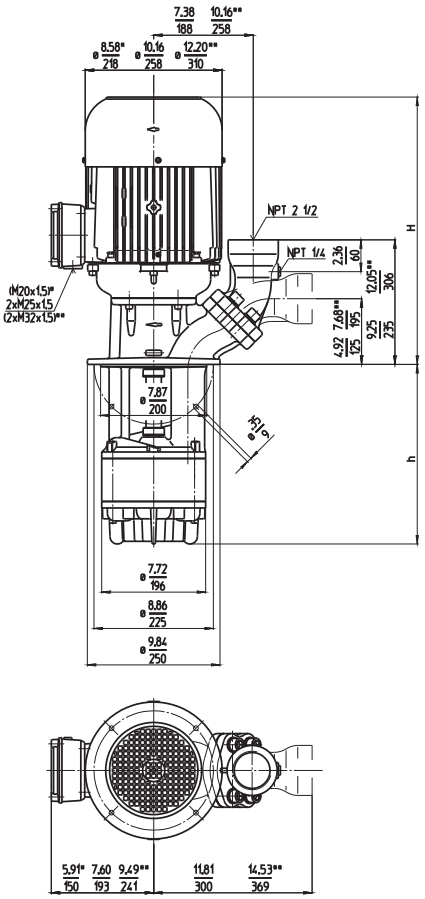


Quick Suctioning Immersion Pumps SGL1101...1103

Axial/semi-open impellers

60 Hz

SGL1101, 1102 SGL1103



Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm
*) Dimensions SGL1101
**) Dimensions SGL1103

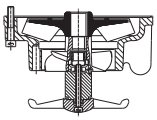
Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SGL1101S230	250/32 *950/10*	18.4 *468*	9.06 *230*	127.9 *58*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
330			12.99 *330*	132.3 *60*					
460			18.11 *460*	136.7 *62*					
580			22.83 *580*	143.3 *65*					
780			30.71 *780*	154.4 *70*					
1010			39.76 *1010*	170 *77*					
SGL1102S310	250/65 *950/19*	24.1 *612*	12.20 *310*	247 *112*	13.8 *10.3*	460	60	16.9	3550
410			16.14 *410*	254 *115*					
540			21.26 *540*	260 *118*					
660			25.98 *660*	271 *123*					
860			33.86 *860*	282 *128*					
1090			42.91 *1090*	298 *135*					
SGL1103S390	250/90 *950/27*	24.4 *620*	15.35 *390*	306 *139*	20 *15.0*	460	60	24.8	3560
490			19.29 *490*	313 *142*					
620			24.41 *620*	326 *148*					
740			29.13 *740*	331 *150*					
940			37.01 *940*	342 *155*					

BRINKMANN PUMPS

60 Hz

Quick Suctioning Immersion Pumps

of **series SGL** are equipped with the patented "BRINKMANN's Suction De-aeration System" and are excellently suited for pumping **extremely inflated fluids** (grinding oils) as they occur in high-speed grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SGL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.



The pump SGL1101 is available (upon request) with an additional agitator at the pump suction for breaking up and separating large bundles of chips or birds nests.

Applications

Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

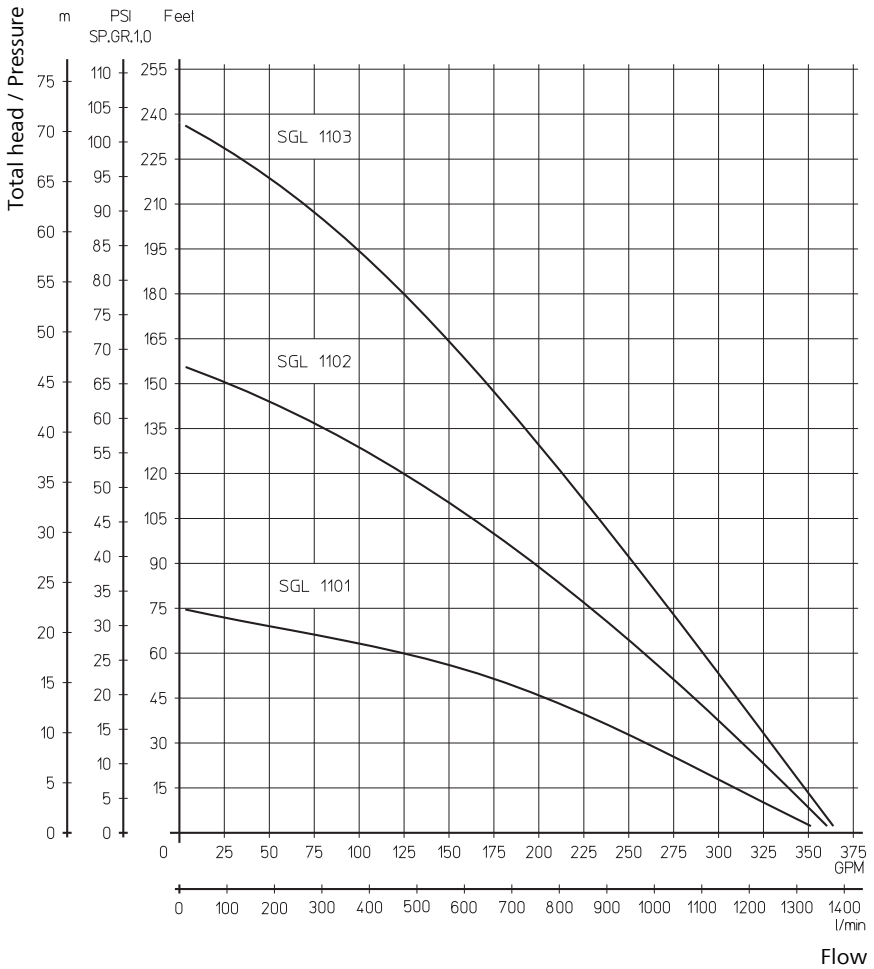
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

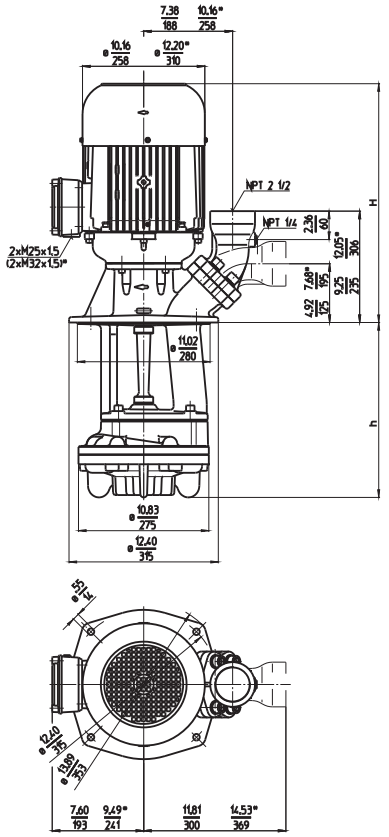


Quick Suctioning Immersion Pumps SGL1400...2200

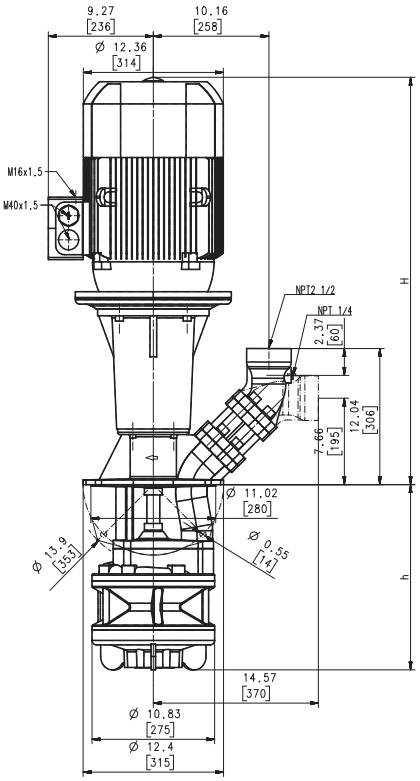
Axial/semi-open impellers

60 Hz

SGL1400, 1700



SGL1402...2200



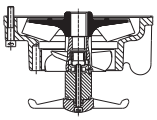
Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SGL1400S310	300/65 *1200/18*	24.1 *612*	12.20 *310*	265	*120*	13.8 *10.3*	460	60	16.9	3550
440			17.32 *440*	269	*122*					
560			22.05 *560*	273	*124*					
810			31.89 *810*	287	*130*					
1060			41.73 *1060*	291	*132*					
SGL1700S310	350/75 *1500/19*	24.4 *620*	12.20 *310*	322	*146*	20 *15.0*	460	60	24.8	3560
440			17.32 *440*	329	*149*					
560			22.05 *560*	333	*151*					
810			31.89 *810*	346	*157*					
1060			41.73 *1060*	351	*159*					
SGL1402S420	300/130 *1200/35*	38.3 *974*	16.54 *420*	423	*192*	29 *21.3*	460	60	32	3555
550			21.65 *550*	428	*194*					
670			26.38 *670*	432	*196*					
920			36.22 *920*	445	*202*					
1170			46.06 *1170*	450	*204*					
SGL1732S420	350/180 *1500/46*	38.5 *978*	16.54 *420*	558	*253*	34 *25.3*	460	60	38.9	3550
550			21.65 *550*	567	*257*					
670			26.38 *670*	576	*261*					
920			36.22 *920*	595	*270*					
1170			46.06 *1170*	604	*274*					
SGL2200S340	450/90 *1800/26*	38.3 *974*	13.39 *340*	355	*161*	29 *21.3*	460	60	32	3555
470			18.50 *470*	359	*163*					
590			23.23 *590*	364	*165*					
840			33.07 *840*	377	*171*					
1090			42.91 *1090*	404	*183*					

Dimensions in Inches / mm
*) Dimensions SGL1700
Discharge port with NPT 2 inches available upon request.

60 Hz

Quick Suctioning Immersion Pumps

of **series SGL** are equipped with the patented "BRINKMANN's Suction De-aeration System" and are excellently suited for pumping **extremely inflated fluids** (grinding oils) as they occur in high-speed grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SGL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.



The pumps SGL1400 and SGL2200 are available (upon request) with an additional agitator at the pump suction for breaking up and separating large bundles of chips or birds nests.

For position of terminal box, see mechanical features within the technical information section.

Applications

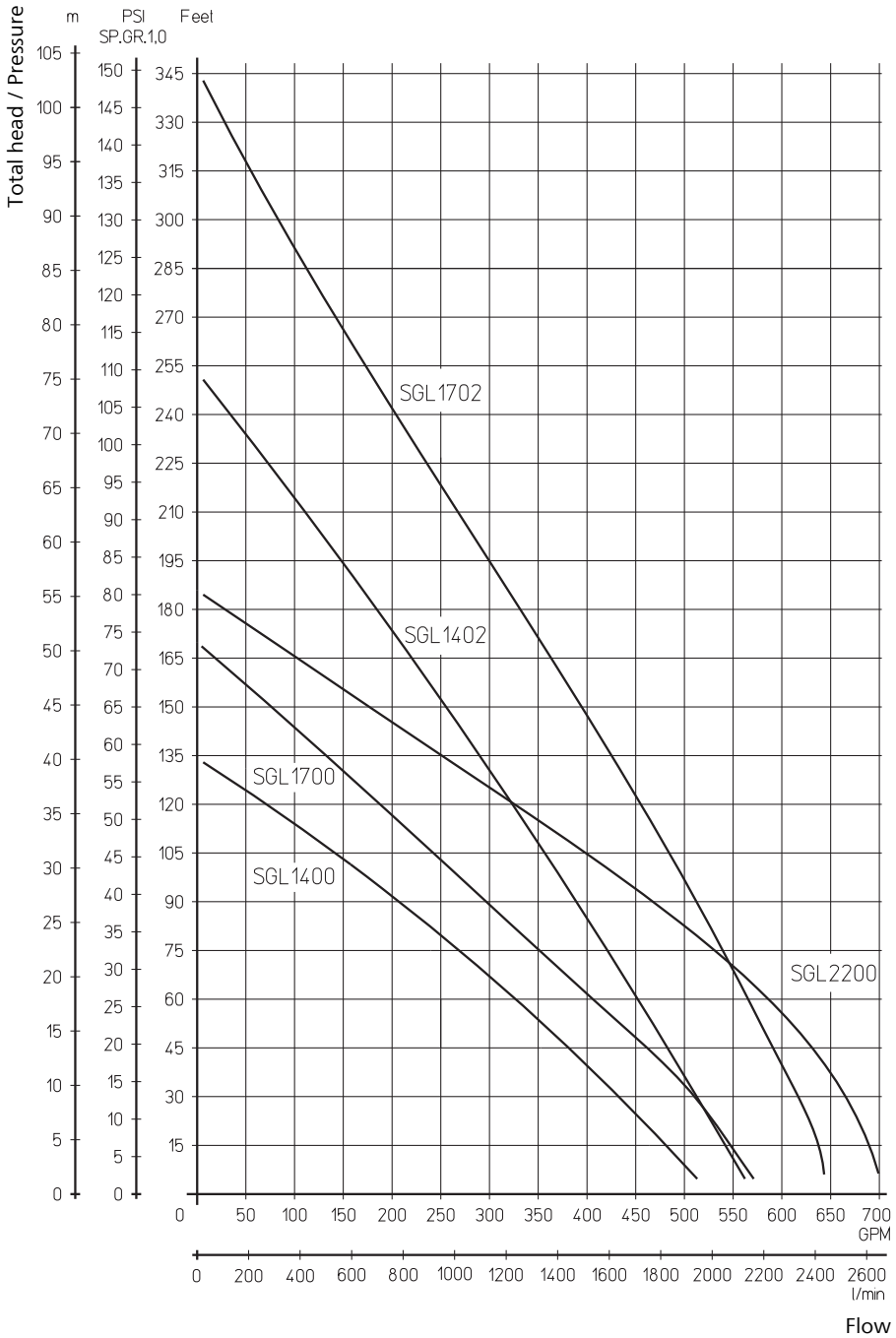
Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel

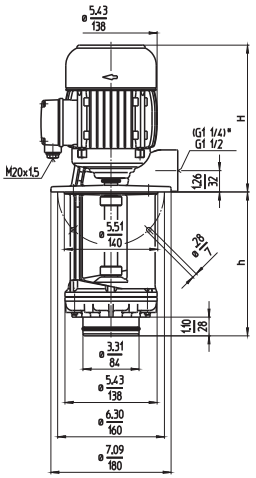


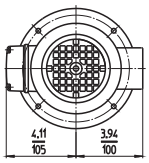
Suction Immersion Pumps
TAS/STS301...2000

Axial/semi-open impellers

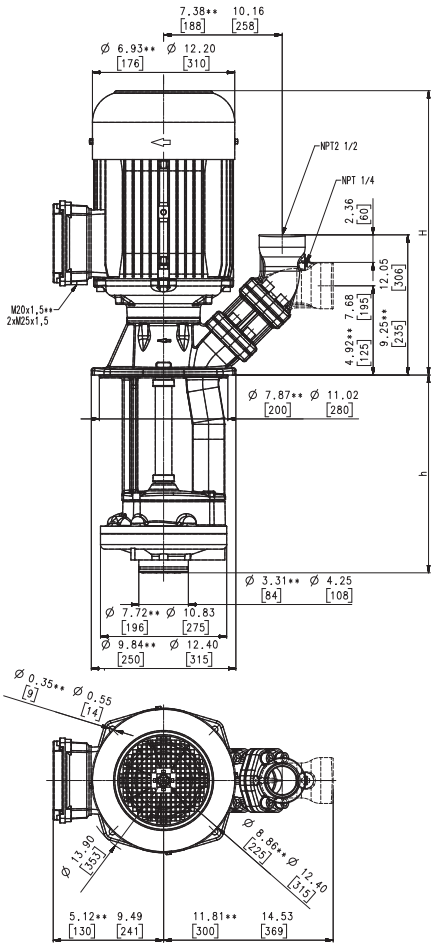
60 Hz

TAS301...601





STS1001, 2000



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TAS301S140	50/12 *200/3*	8.8 *223*	5.35 *136*	27.6	*12.5*	0.75 *0.55*	208-230 460	60 60	2.70 1.45	3250 3250
220			8.50 *216*	28.7	*13.0*					
290			11.26 *286*	29.8	*13.5*					
370			14.41 *366*	30.9	*14.0*					
460			17.95 *456*	35.3	*16.0*					
570			22.28 *566*	38.6	*17.5*					
TAS401S140	75/16 *250/5*	9.5 *241*	5.35 *136*	29.8	*13.5*	1.15 *0.85*	208-230 460	60 60	5.2 2.5	3300 3300
220			8.50 *216*	32.0	*14.5*					
290			11.26 *286*	34.2	*15.5*					
370			14.41 *366*	36.4	*16.5*					
460			17.95 *456*	38.6	*17.5*					
570			22.28 *566*	40.8	*18.5*					
TAS601S150	100/18 *400/4*	9.5 *241*	5.67 *144*	30.9	*14.0*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300
230			8.82 *224*	34.2	*15.5*					
300			11.57 *294*	36.4	*16.5*					
380			14.72 *374*	38.6	*17.5*					
470			18.27 *464*	40.8	*18.5*					
580			22.60 *574*	43.0	*19.5*					
STS1001S230	175/45 *600/14*	16.9 *429*	8.50 *216*	112.5	*51*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
330			12.44 *316*	116.9	*53*					
460			17.56 *446*	121.3	*55*					
580			22.28 *566*	127.9	*58*					
780			30.16 *766*	138.9	*63*					
1010			39.21 *996*	154.4	*70*					
STS2000S310	400/75 *1600/21*	24.4 *620*	11.81 *300*	318	*144*	17 *12.6*	460	60	21.5	3560
440			16.93 *430*	322	*146*					
560			21.65 *550*	329	*149*					
810			31.50 *800*	342	*155*					
1060			41.34 *1050*	346	*157*					

Dimensions in Inches / mm
*) Dimensions TAS301
Discharge port with NPT 2 inches available upon request.
**) Dimensions STS1001

BRINKMANN PUMPS

60 Hz

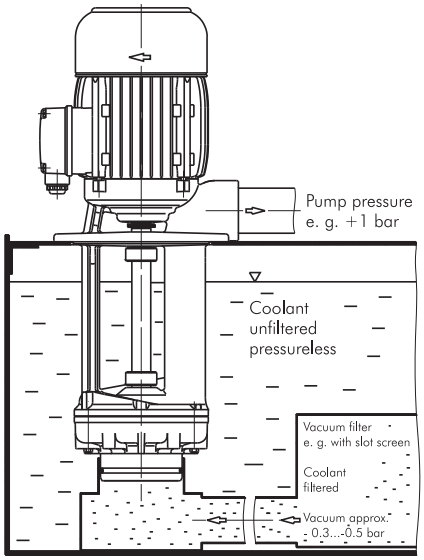
Suction Immersion Pumps

series TAS/STS make it possible to **connect to vacuum filters** through their simple connection on the suction side (for instance, with a slot screen).
Suction immersion pumps without seals are positioned in the area of unfiltered coolant in the vessel.
With their robust design, they allow operating pressures of –5 PSI to –7 PSI (–0.3 bar to –0.5 bar) on the suction side.
The STS pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

All types specified are also available as multistage, too – see series TA/STA.

Applications

Types of fluid
coolants
cooling/cutting oils
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...140 °F (0...60 °C)

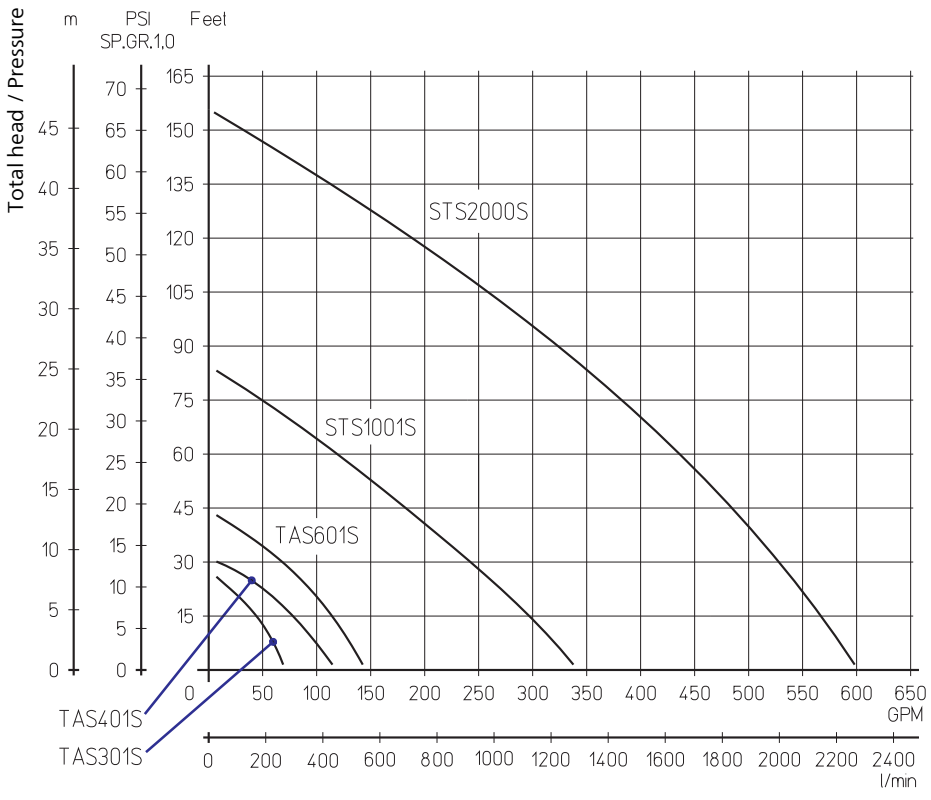


Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	brass
	cast steel (STS1001...STS2000)
Shaft	steel
Optional:	
Impeller radial	cast steel (TAS301...TAS601)
Noise level	
TAS301...TAS601	62 dBA
STS1001	70 dBA
STS2000	79 dBA

Suction connection

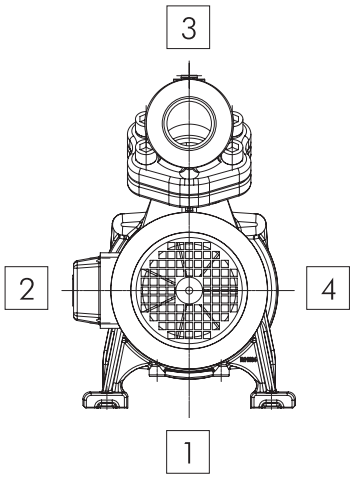
Intake cover	cast iron
with O-Ring	Viton ®
2.9 x 0.16 Inch (78 x 4 mm) STA/STS301...1001	
4.02 x 0.16 Inch (102 x 4 mm) STS2000	
for Connecting pipe, inside	
Ø 3.39...3.42 Inch (86.0...86.8 mm) STA/STS301...1001	
-Ø 4.33...4.36 Inch (110.0...110.8 mm) STS2000	



For position of terminal box, see mechanical features within the technical information section.
Viton® is a registered trademark of Du Pont.

Mechanical Features

Horizontal End-Suction Pumps – Terminal box and foot location

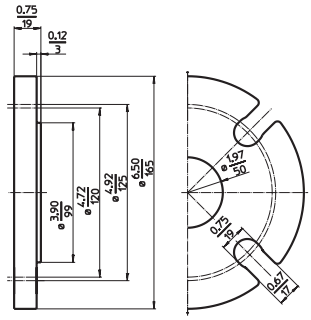


Location	Series SBA, SBG and SBF	
	Terminal box location	Foot location
1	–	Standard
2	Standard	●
3	□	–
4	●	●

● available
□ available upon request
– not available

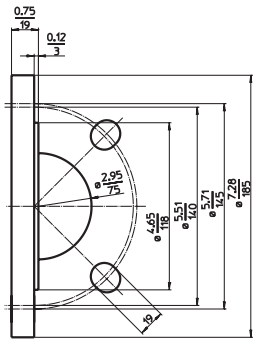
Attention:
Terminal box location and foot location cannot be facing in the same direction!

Horizontal End-Suction Pumps – Suction port



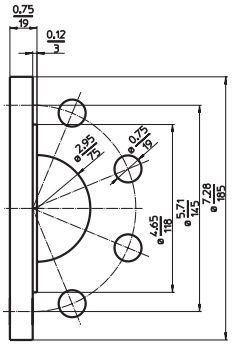
DN50, 4 hole flange connection
size 140

DN50, 4 hole flange connection, is equivalent to ASME B16.1-2005 Class 25 Flange NPS 2 and JIS B 2239:2004 10K A50

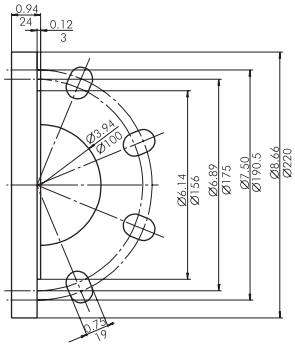


DN65, 4 hole flange connection
sizes 400, 550, 600
sizes 650, 850, 1150, 800, 900, 1300

DN65, 4 hole flange connection, is equivalent to ASME B16.1-2005 Class 25 Flange NPS 2 1/2 and JIS B 2239:2004 10K A65

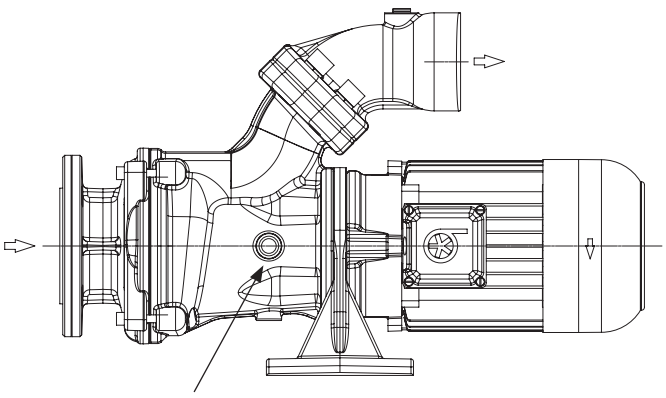


DN65, 8 hole flange connection
sizes 850, 1150, 1100, 1300
Available upon request



DN100, 8 hole flange connection
sizes 1350, 1550, 1850
sizes 1600, 1700, 2000

Dry-running Version (-GD)



Monitoring window for models with second mechanical seal (-GD)

A second mechanical seal is available for unlimited dry-running. By utilizing an additional oil reservoir, continuous lubrication of the mechanical seal can be assured, which in turn allows dry-running of the pump.

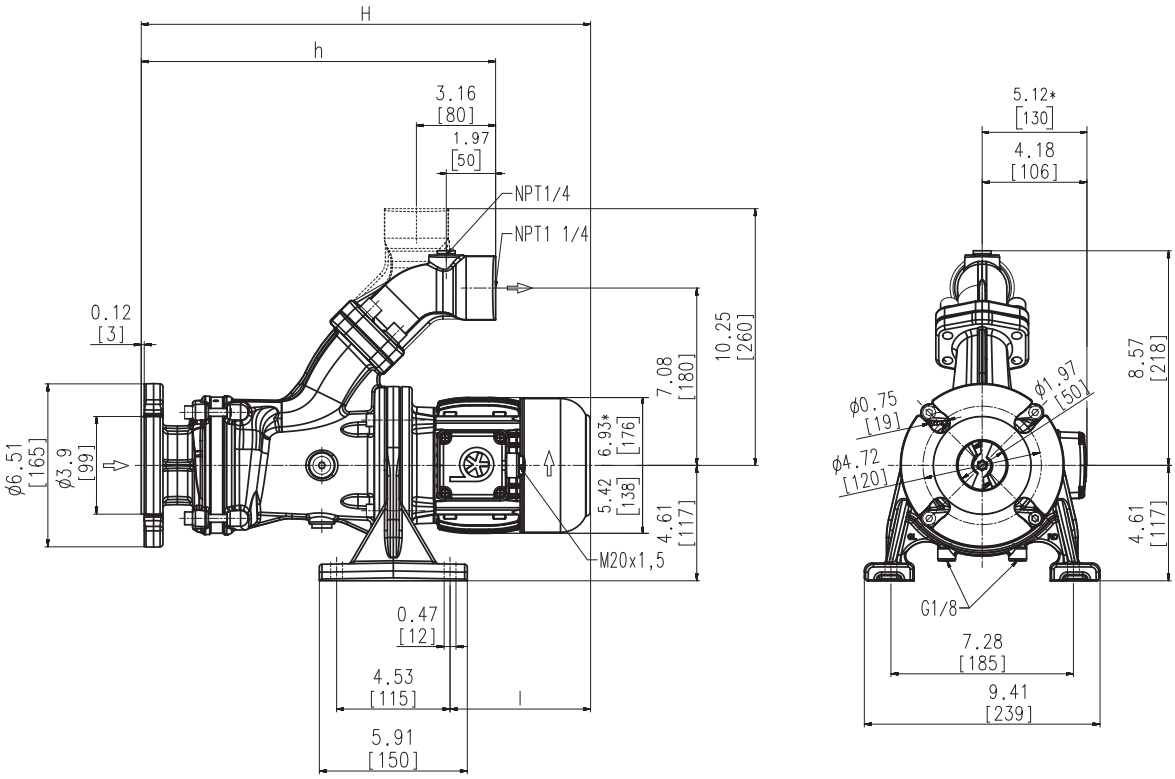
The oil level within the reservoir can be monitored through an integrated monitoring window.

Horizontal End-Suction Pumps
SBA141S...143S

Axial/semi-open impellers

60 Hz

SBA141S...143S



Dimensions in Inches / mm
*) Dimensions SBA143S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBA141S	25/32 *100/9*	18.0	*456*	14.1	359	5.6	*143*	56.2	*25.5*	0.73 *0.54*	208-230 460	60 60	2.8 1.4	3300 3300
SBA142S	25/53 *100/14*	21.4	*544*	16.1	410	7.1	*181*	62.8	*28.5*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
SBA143S	25/83 *100/21*	23.6	*600*	17.4	443	8.0	*203*	84.9	*38.5*	2 *1.5*	208-230 460	60 60	7.6 3.8	3400 3400

BRINKMANN PUMPS

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly **SAE flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils

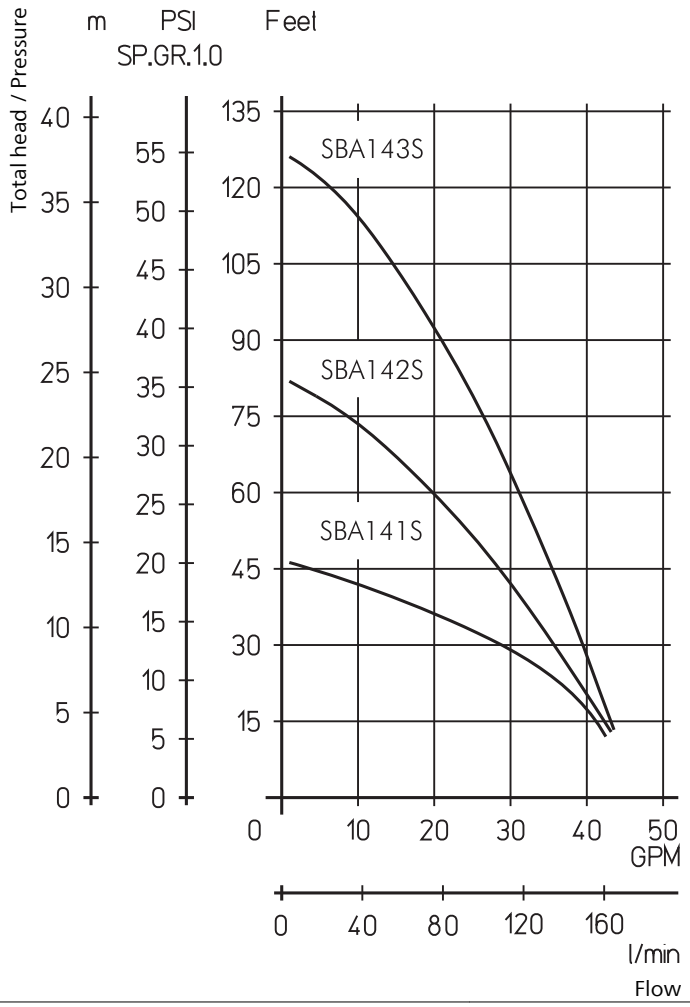
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBA141S...SBA142S	67 dBA
SBA143S	71 dBA

For position of terminal box, see mechanical features within the technical information section.

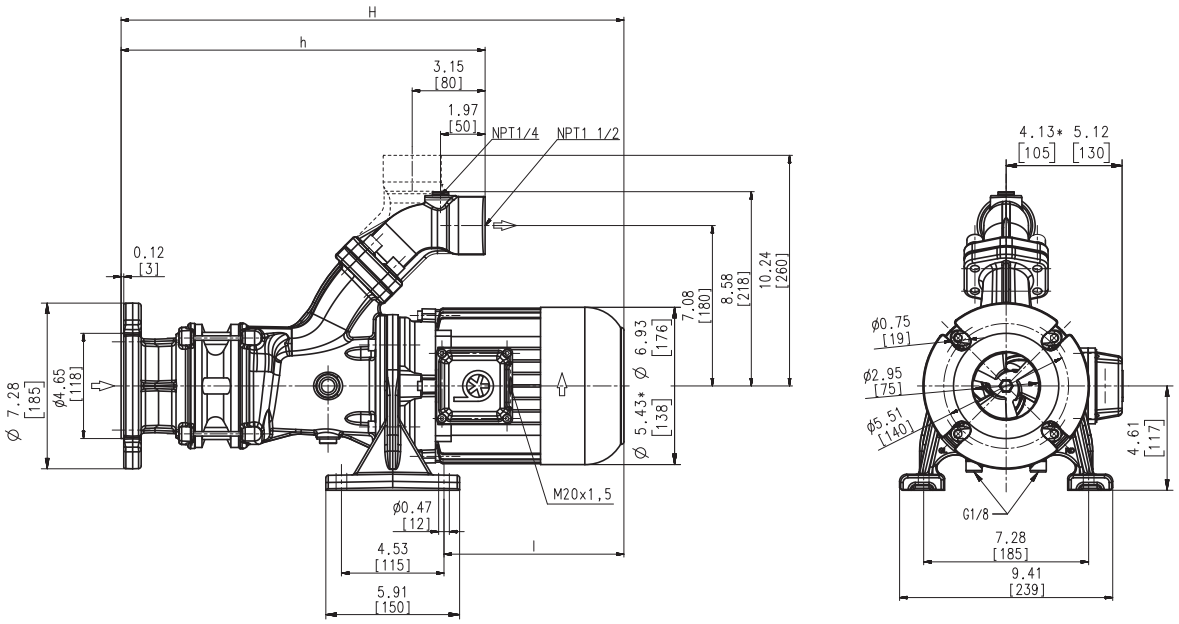


Horizontal End-Suction Pumps
SBA401S...403S

Axial/semi-open impellers

60 Hz

SBA401S...403S



Dimensions in Inches / mm
*) Dimensions SBA401S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBA401S	60/25	18.7	*474*	14.1	359	6.3	*161*	55.1	*25*	1.15	208-230	60	5.2	3300
	240/7									*0.85*	460	60	2.5	3300
SBA402S	60/47	22.2	*565*	16.1	408	8.0	*203*	86.0	*39*	1.75	208-230	60	6	3400
	240/14									*1.3*	460	60	3	3400
SBA403S	60/70	24.2	*614*	18.0	457	8.0	*203*	90.4	*41*	2.3	208-230	60	8.2	3400
	240/21									*1.7*	460	60	4.1	3400

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly **SAE flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils

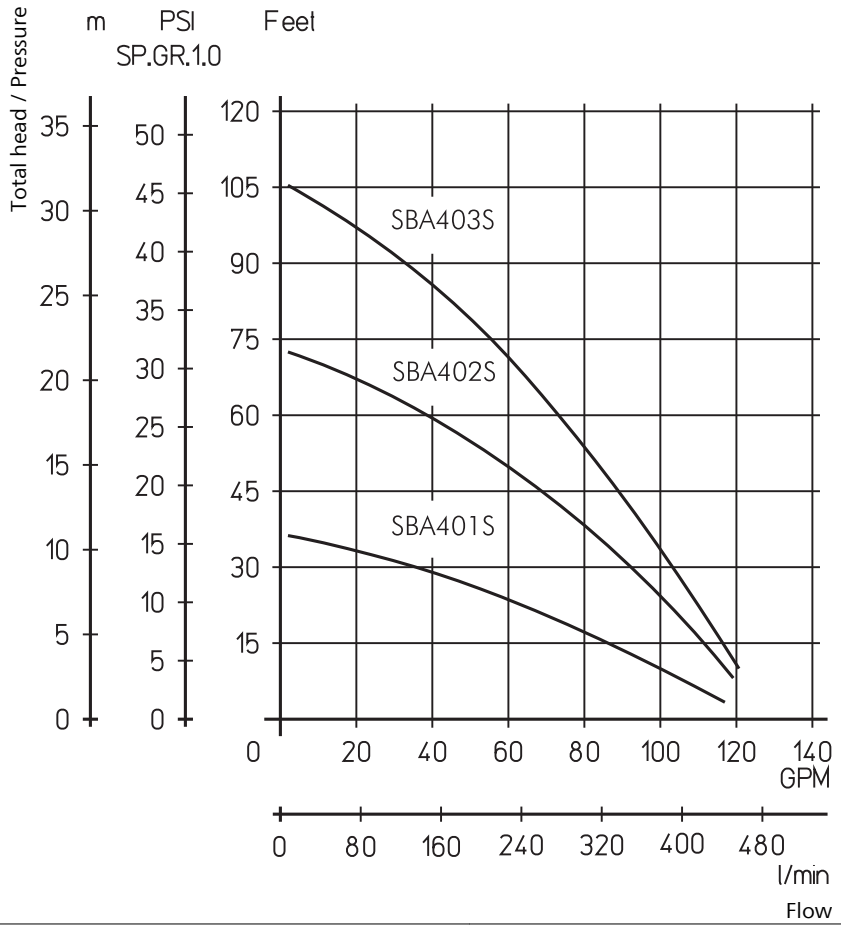
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBA401S	62 dBA
SBA402S...SBA403S	69 dBA

For position of terminal box, see mechanical features within the technical information section.

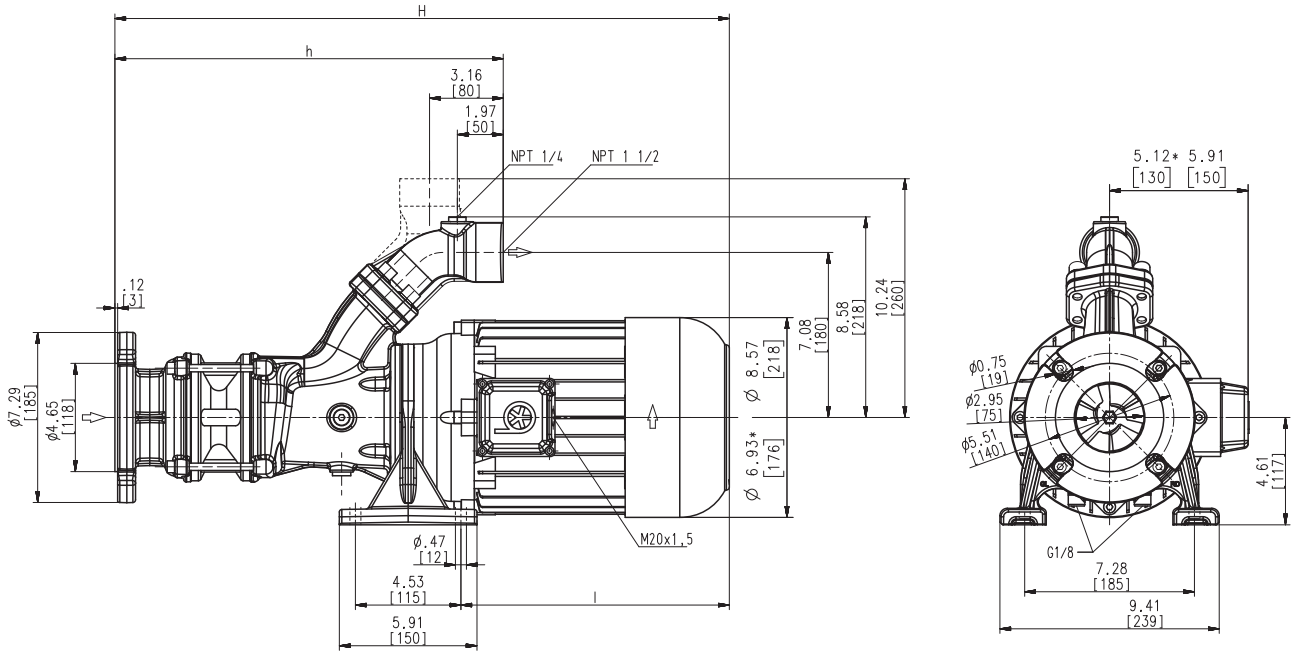


Horizontal End-Suction Pumps
SBA430S...433S

Axial/semi-open impellers

60 Hz

SBA430S...433S



Dimensions in Inches / mm
*) Dimensions SBA431S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBA430S	100/38	20.3	*516*	14.1	359	8.0	*203*	83.8	*38*	2.3	208-230	60	8.2	3400
	400/11									*1.7*	460	60	4.1	3400
SBA432S	100/82	26.3	*669*	16.7	423	11.5	*293*	127.9	*58*	4.4	208-230	60	16	3450
	400/24									*3.3*	460	60	8	3450
SBA433S	100/118	28.9	*733*	19.2	487	11.5	*293*	138.9	*63*	5.4	208-230	60	19.0	3450
	400/34									*4.0*	460	60	9.5	3450

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly **SAE flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

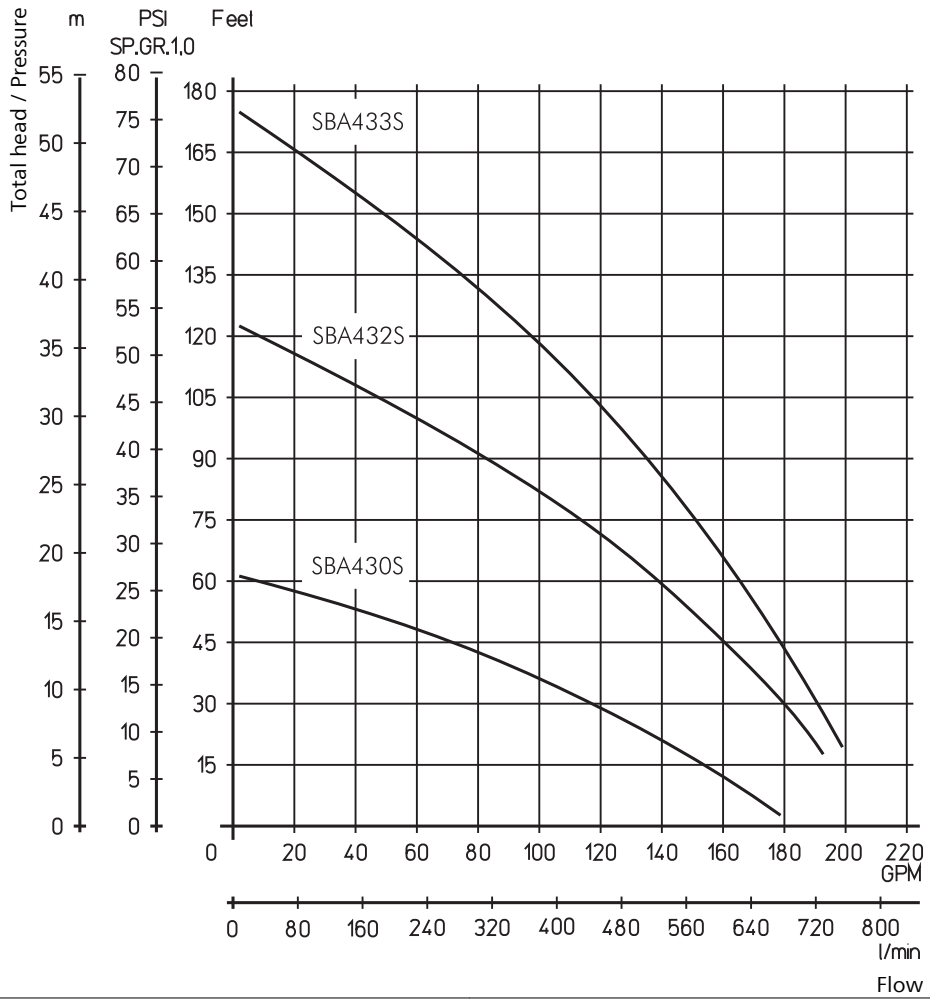
Applications

Types of fluid
coolants
cooling/cutting oils
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBA430S	66 dBA
SBA432S...SBA433S	73 dBA

For position of terminal box, see mechanical features within the technical information section.

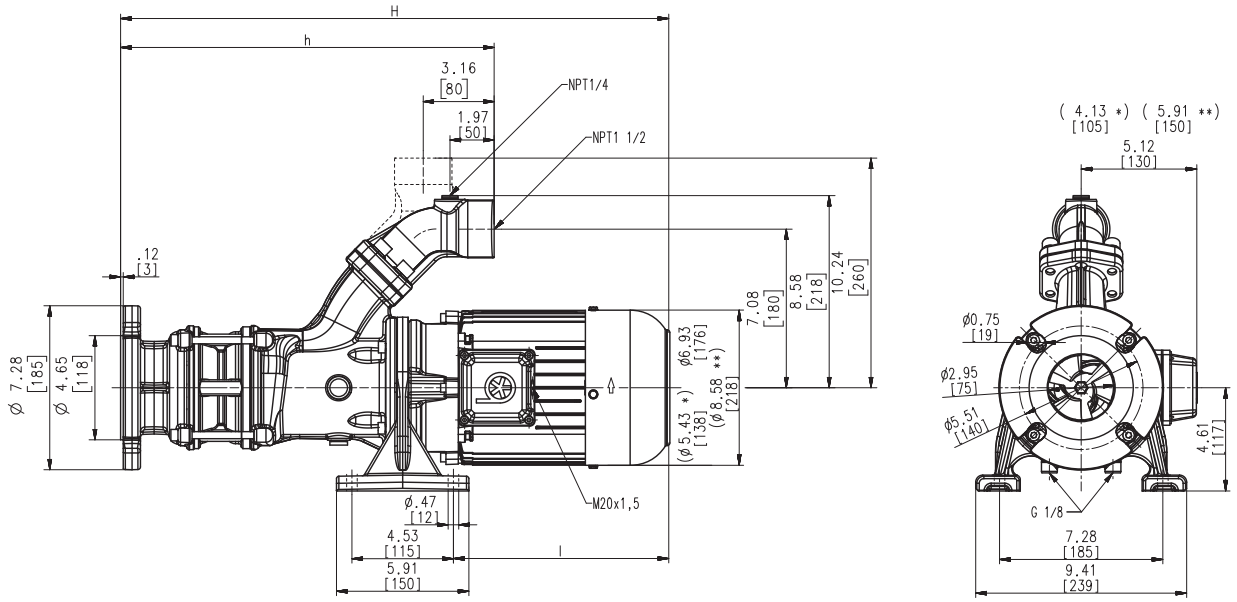


Horizontal End-Suction Pumps
SBA601S...604S

Axial/semi-open impellers

60 Hz

SBA601S...604S



Dimensions in Inches / mm
*) Dimensions SBA601S
**) Dimensions SBA603S, 604S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBA601S	110/18 *440/5*	18.7	*474*	14.1	359	6.3	*161*	57.3	*26*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300
SBA602S	110/46 *440/13*	24.4	*620*	16.7	423	9.6	*243*	94.8	*43*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
SBA603S	110/76 *440/21*	28.9	*733*	19.2	487	11.5	*293*	105.8	*48*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
SBA604S	110/90 *440/25*	31.4	*797*	21.7	551	11.5	*293*	141.1	*64*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450

BRINKMANN PUMPS

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly **SAE flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

For position of terminal box, see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

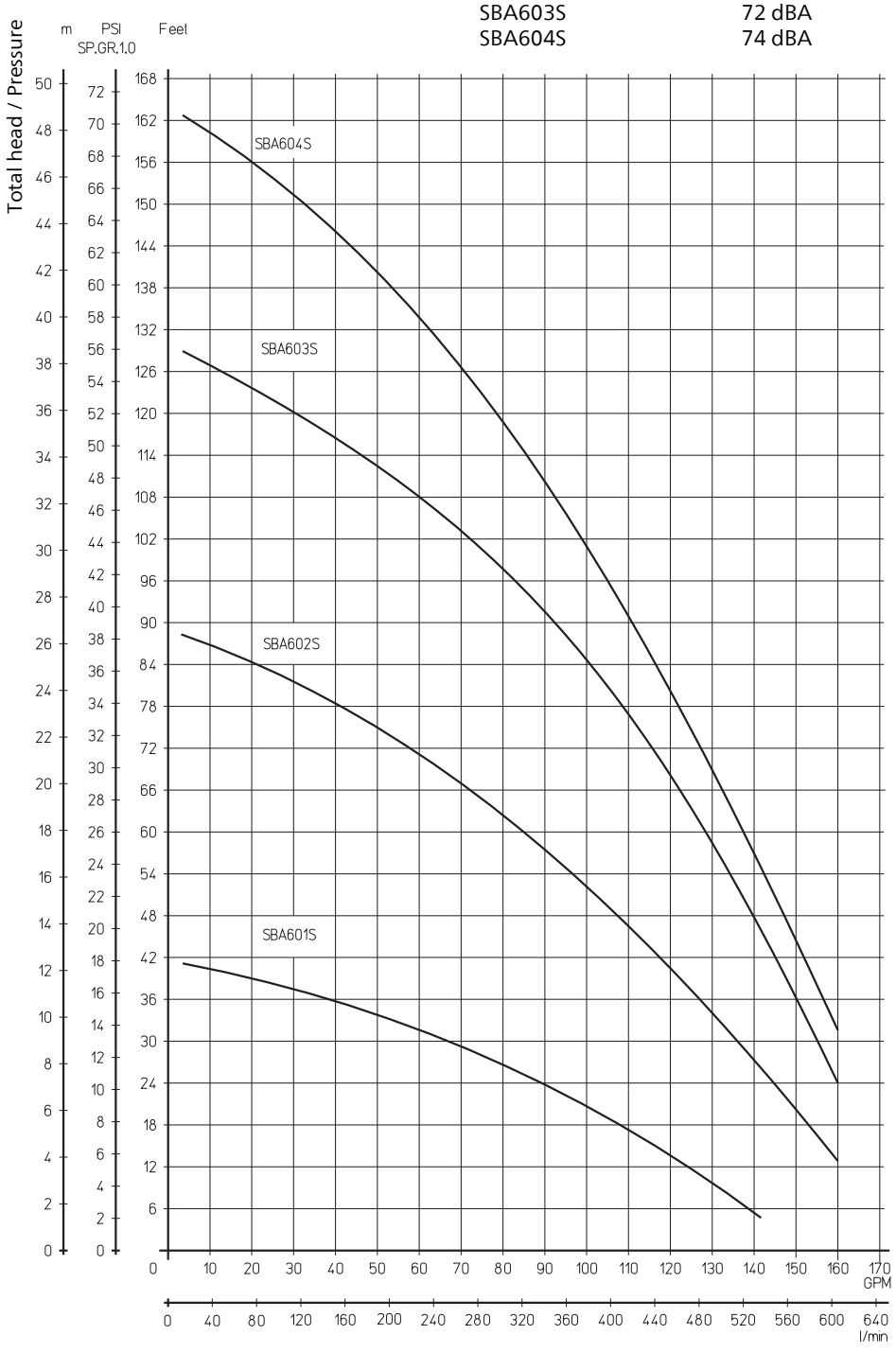
Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC

Noise level

SBA601S	65 dBA
SBA602S	69 dBA
SBA603S	72 dBA
SBA604S	74 dBA

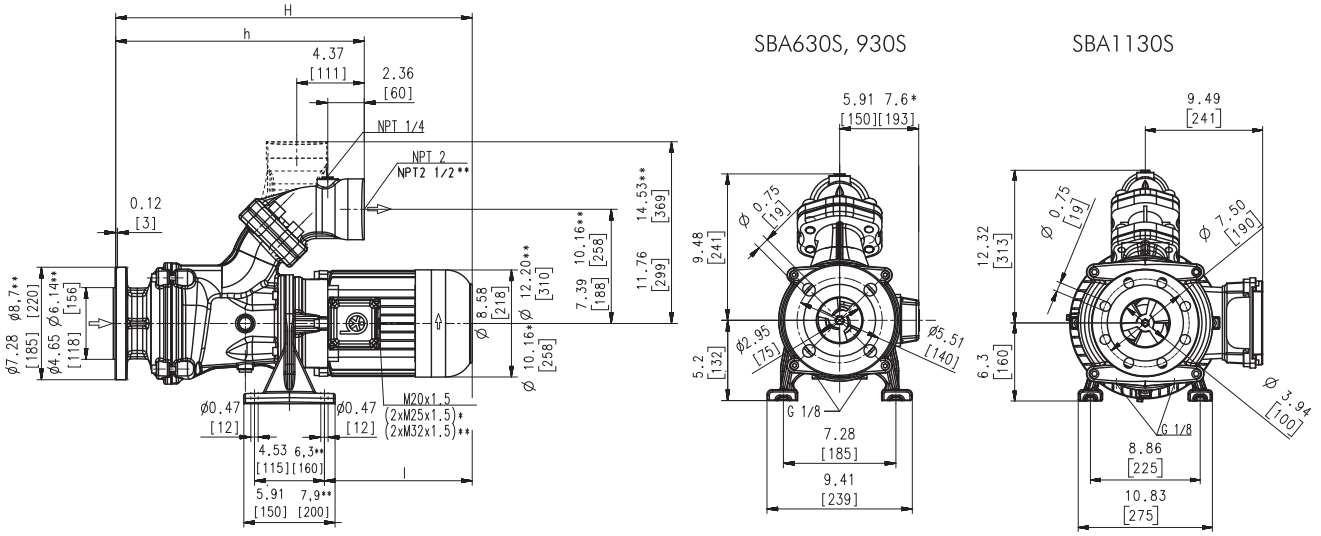


Horizontal End-Suction Pumps
SBA630S...1130S

Axial/semi-open impellers

60 Hz

SBA630S...1130S



Dimensions in Inches / mm
*) Dimensions SBA930S
**) Dimensions SBA1130S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBA630S	200/60 *800/16*	25.0	*636*	16.1	408	11.5	*293*	138.9	*63*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
SBA930S	250/65 *1000/18*	26.6	*676*	16.2	412	13.0	*329*	181	*82*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
SBA1130S	450/75 *1700/24*	31.6	*802*	19.5	495	16.6	*422*	313	*142*	17 *12.6*	460	60	21.5	3560

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

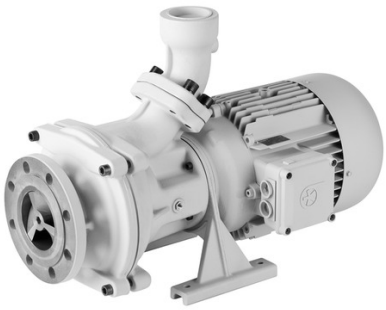
Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC

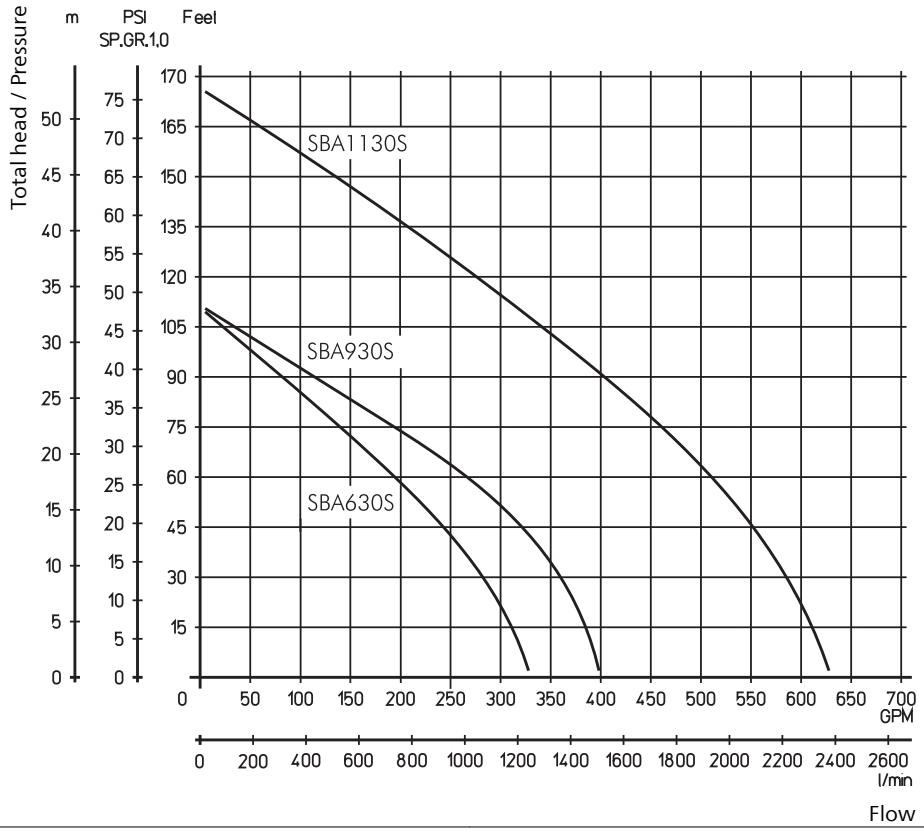
Noise level

SBA630S	73 dBA
SBA930S	75 dBA
SBA1130S	80 dBA

Optional: Low noise version (–6 dBA)



For position of terminal box, see mechanical features within the technical information section.

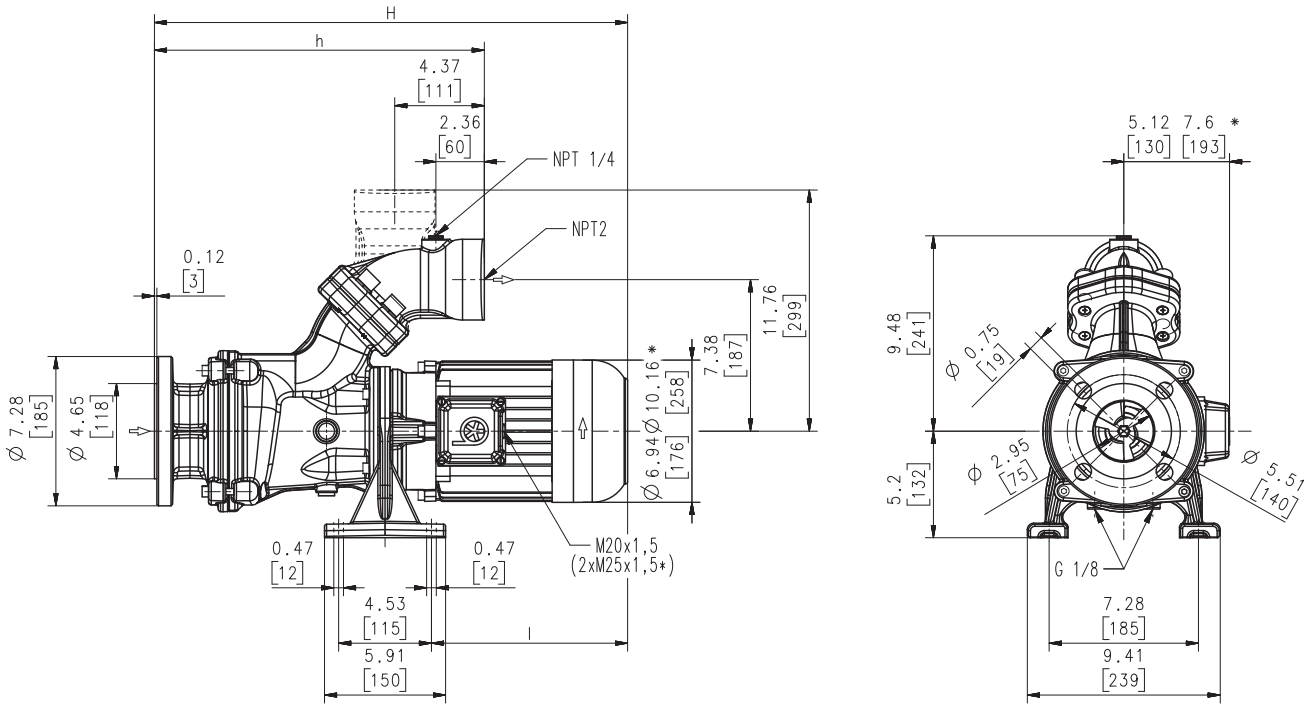


Horizontal End-Suction Pumps SBA901S...903S

Axial/semi-open impellers

60 Hz

SBA901S...903S



Dimensions in Inches / mm; *) Dimensions SBA902S, 903S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBA901S	175/46 *700/14*	23.5	*596*	16.1	408	10.0	*253*	116.9	*53*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
SBA902S	175/95 *700/28*	29.2	*742*	18.8	478	13.0	*329*	190	*86*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
SBA903S	175/140 *700/42*	36.2	*919*	21.6	548	17.2	*437*	269	*122*	13.8 *10.3*	460	60	16.9	3550

BRINKMANN PUMPS

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

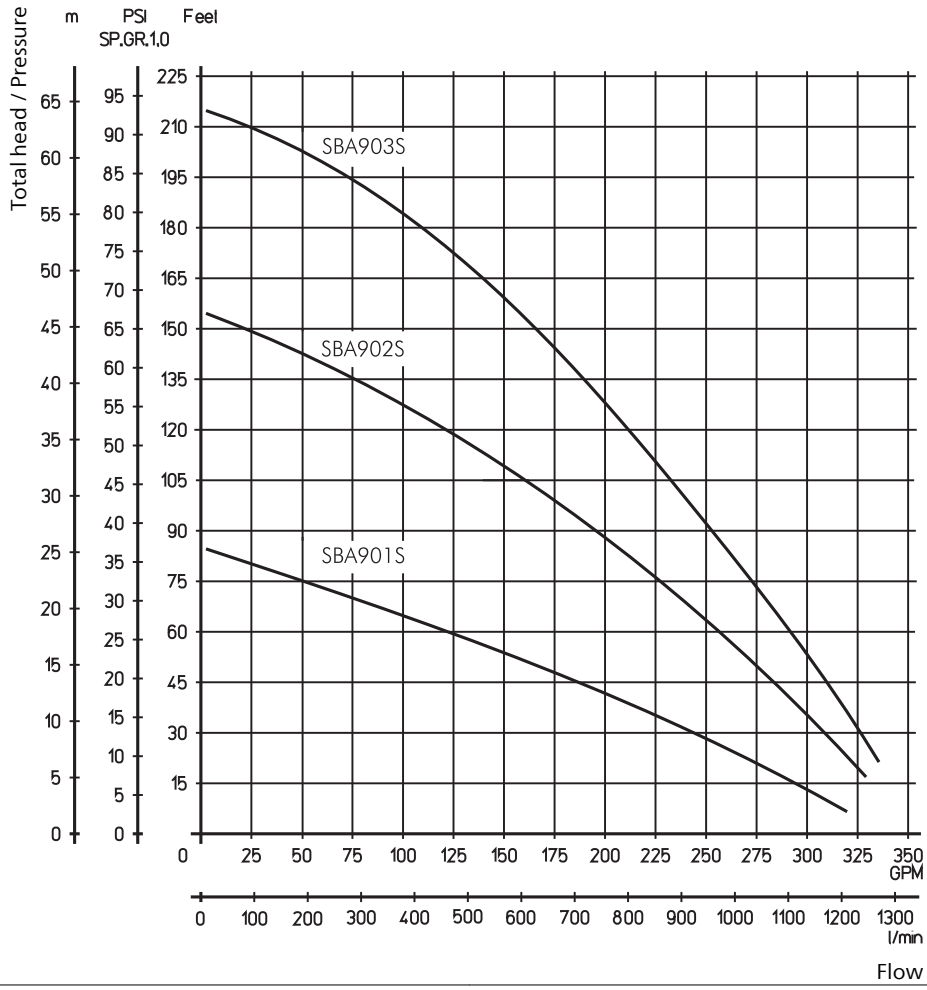
Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC

Noise level

SBA901S	71 dBA
SBA902S	74 dBA
SBA903S	78 dBA

For position of terminal box, see mechanical features within the technical information section.

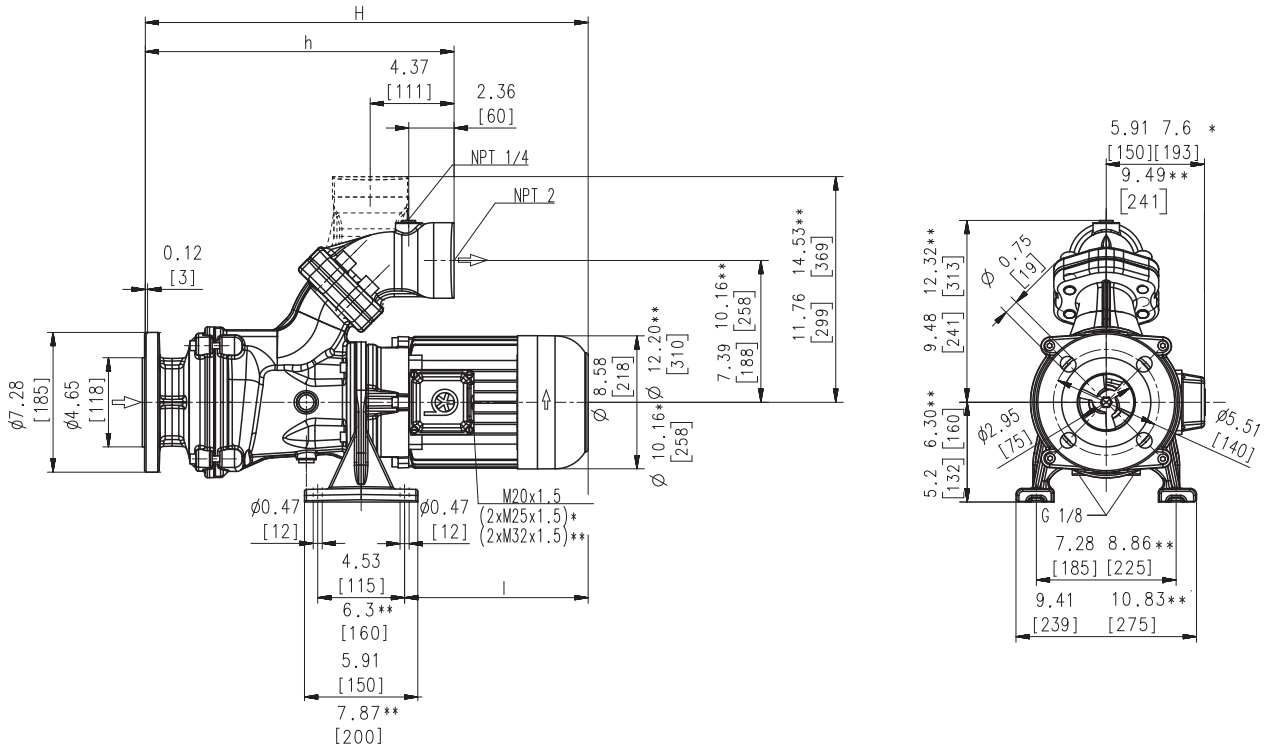


Horizontal End-Suction Pumps
SBA1301S...1303S

Axial/semi-open impellers

60 Hz

SBA1301S...1303S



Dimensions in Inches / mm,
*) Dimensions SBA1302S
**) Dimensions SBA1303S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SBA1301S	225/44 *900/12*	25.2	*640*	16.2	412	11.5	*293*	134.5	*61*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
SBA1302S	225/90 *900/25*	34.0	*863*	19.4	492	17.2	*437*	247	*112*	11.5 *8.6*	460	60	14.2	3550
SBA1303S	225/135 *900/39*	37.4	*951*	25.3	643	16.6	*422*	313	*142*	17 *12.6*	460	60	21.5	3560

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils

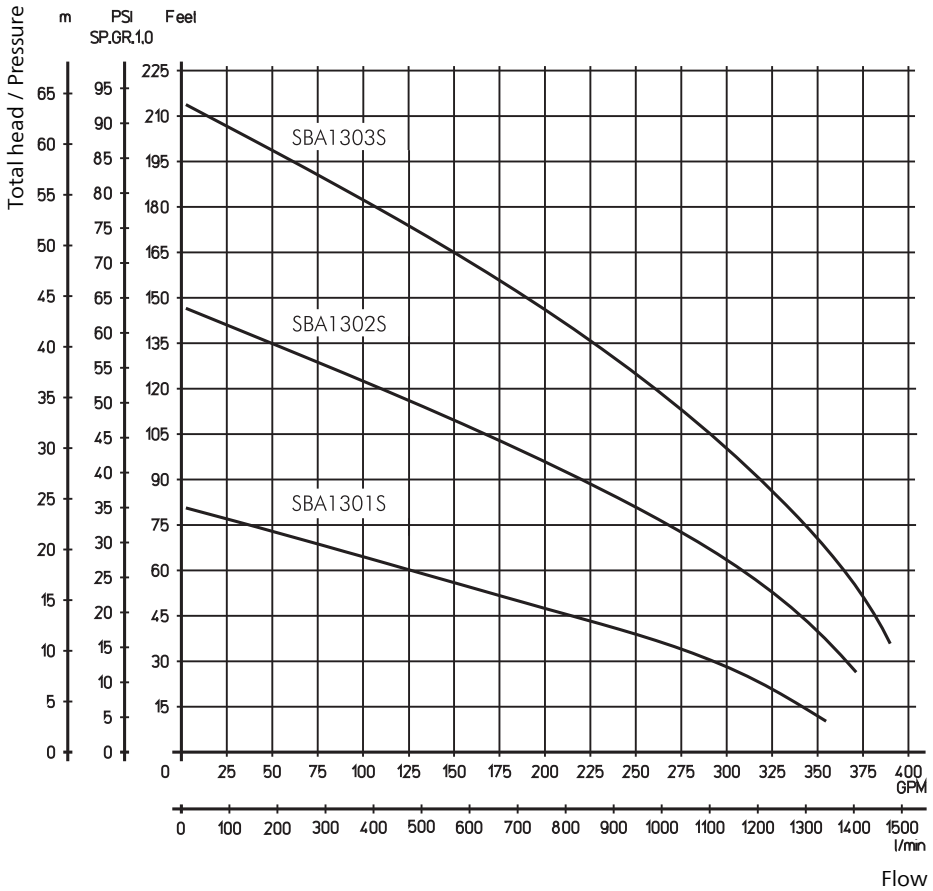
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBA1301S	73 dBA
SBA1302S	78 dBA
SBA1303S	79 dBA

For position of terminal box, see mechanical features within the technical information section.

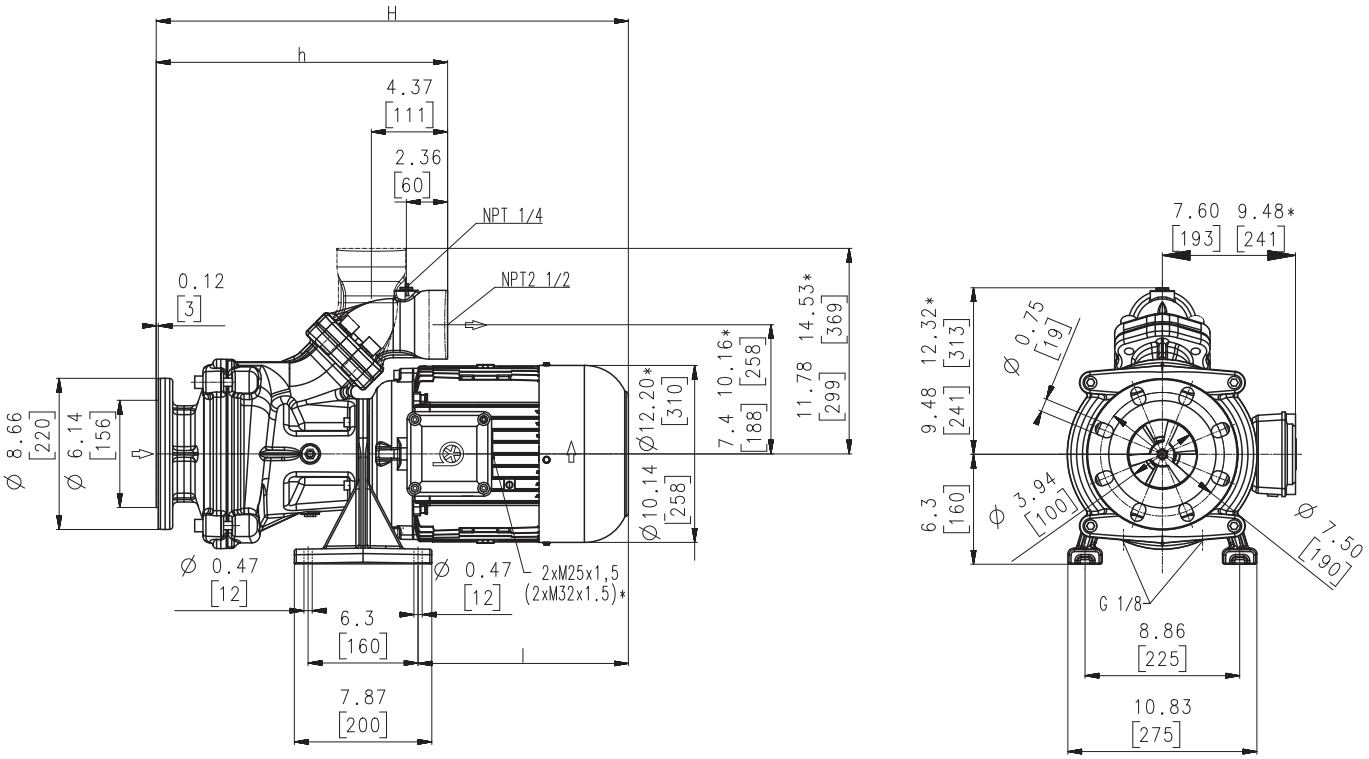


Horizontal End-Suction Pumps
SBA1600S...2000S

Axial/semi-open impellers

60 Hz

SBA1600S...2000S



Dimensions in Inches / mm
*) Dimensions SBA2000S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBA1600S	350/60 *1400/17*	31.2	*793*	16.7	424	16.3	*414*	256	*116*	13.8 *10.3*	460	60	16.9	3550
SBA2000S	400/70 *1600/20*	31.6	*802*	19.5	495	16.6	*422*	313	*142*	17 *12.6*	460	60	21.5	3560

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils

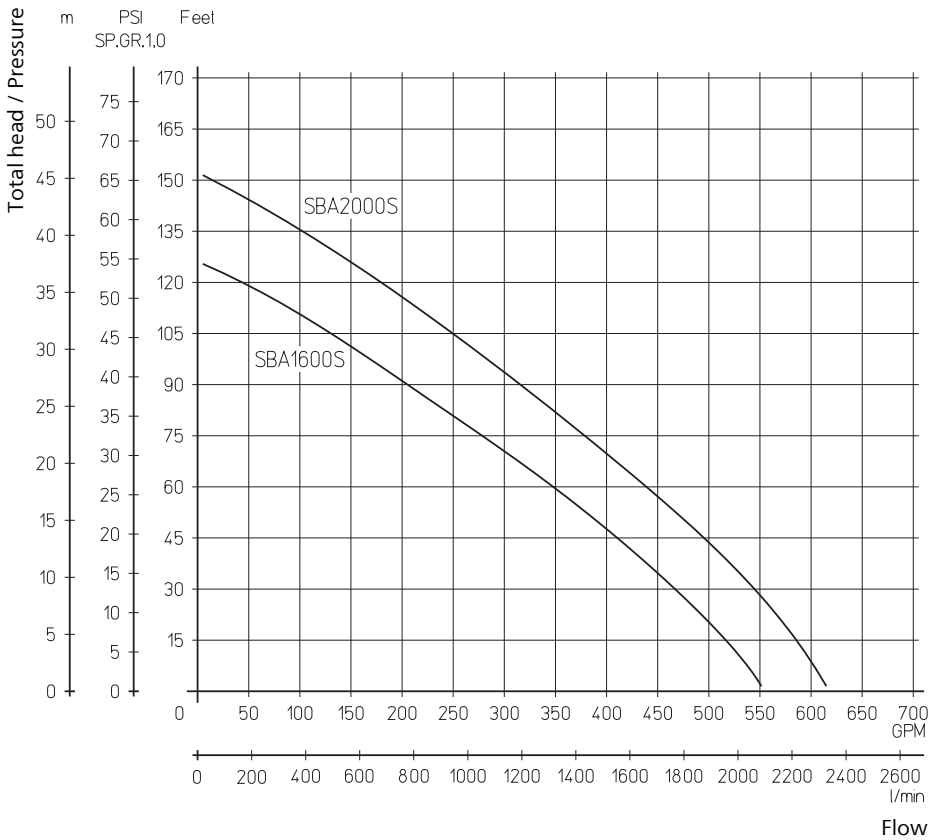
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBA1600S	78 dBA
SBA2000S	79 dBA

For position of terminal box, see mechanical features within the technical information section.

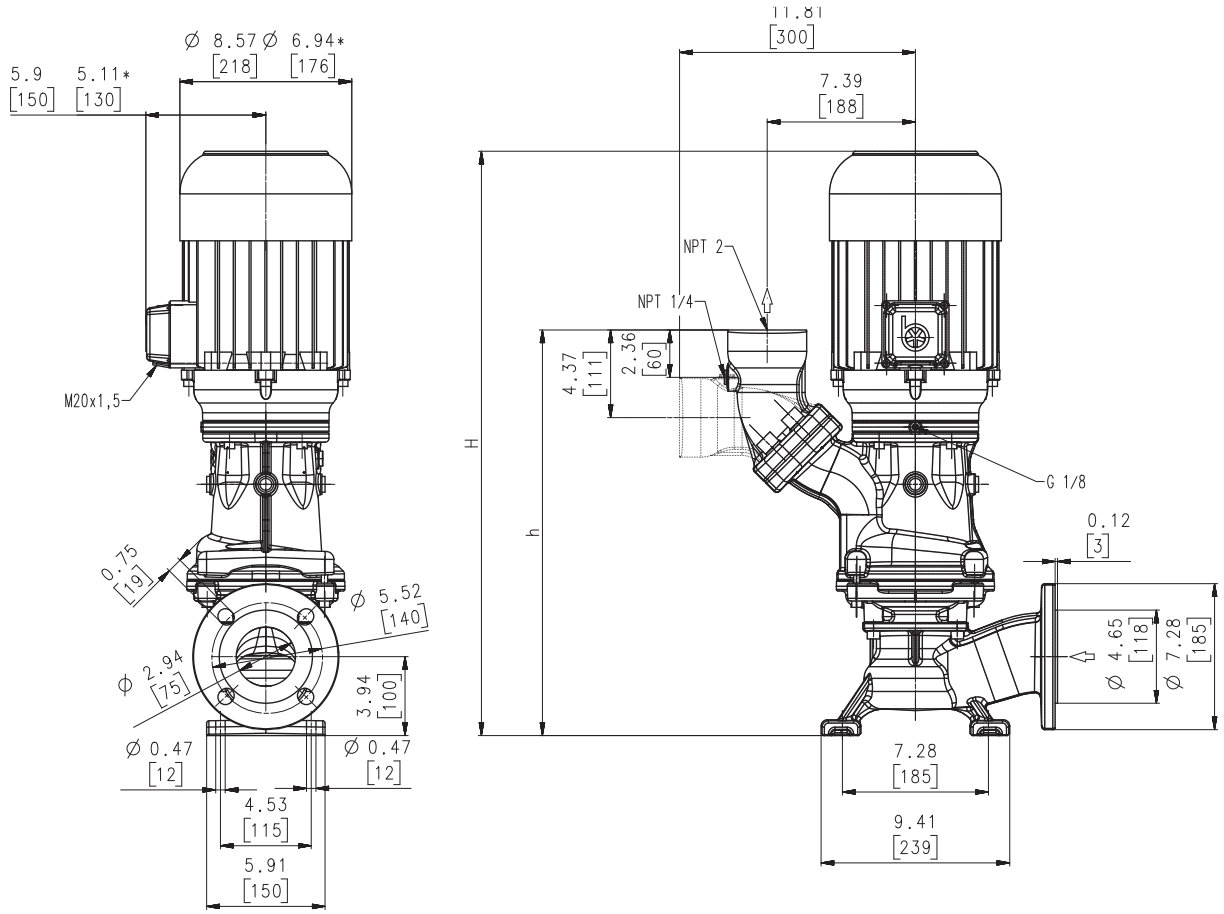


Vertical End Suction Pumps
SBA901S...1301S-V

Axial/semi-open impellers

60 Hz

SBA901S...1301S-V



Dimensions in Inches / mm; *) Dimensions SBA901S-V

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SBA901S-V	200/34	27.8	*707*	19.9	506	138.9	*63*	3.5	208-230	60	12.6	3400
	600/12							*2.6*	460	60	6.3	3400
SBA1301S-V	250/40	29.1	*740*	20.2	514	156.6	*71*	5.4	208-230	60	19.0	3450
	900/12							*4.0*	460	60	9.5	3450

60 Hz

Vertical End Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with double mechanical seal.
This pump series is designed for vertical installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

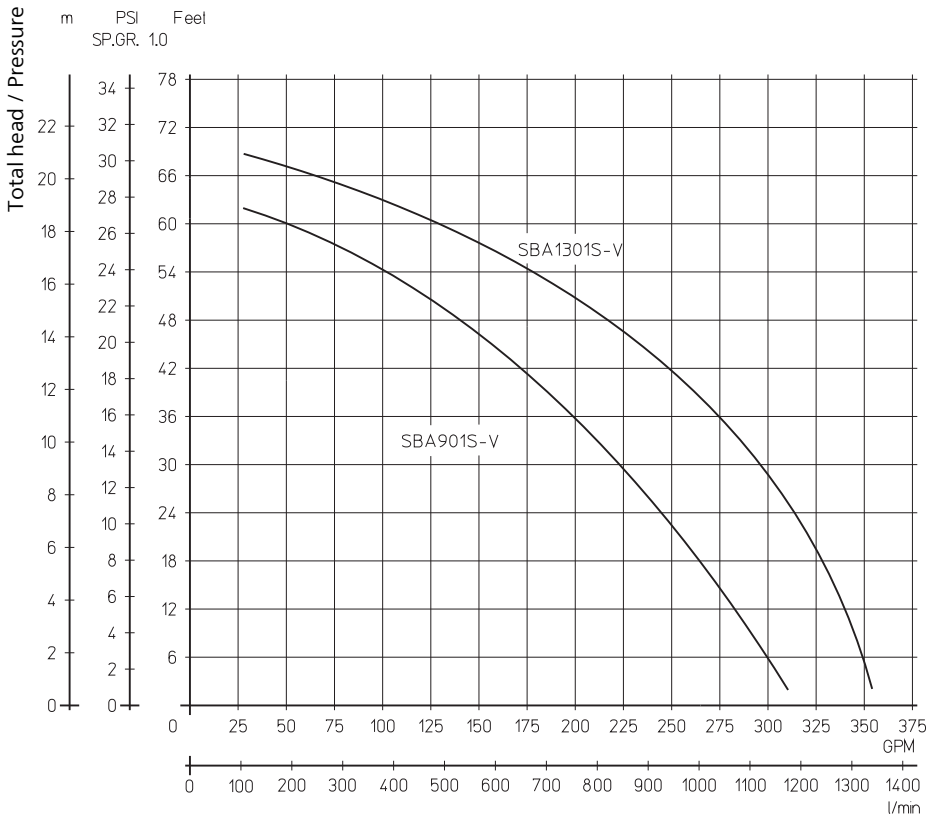
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBA901S-V	72 dBA
SBA1301S-V	74 dBA

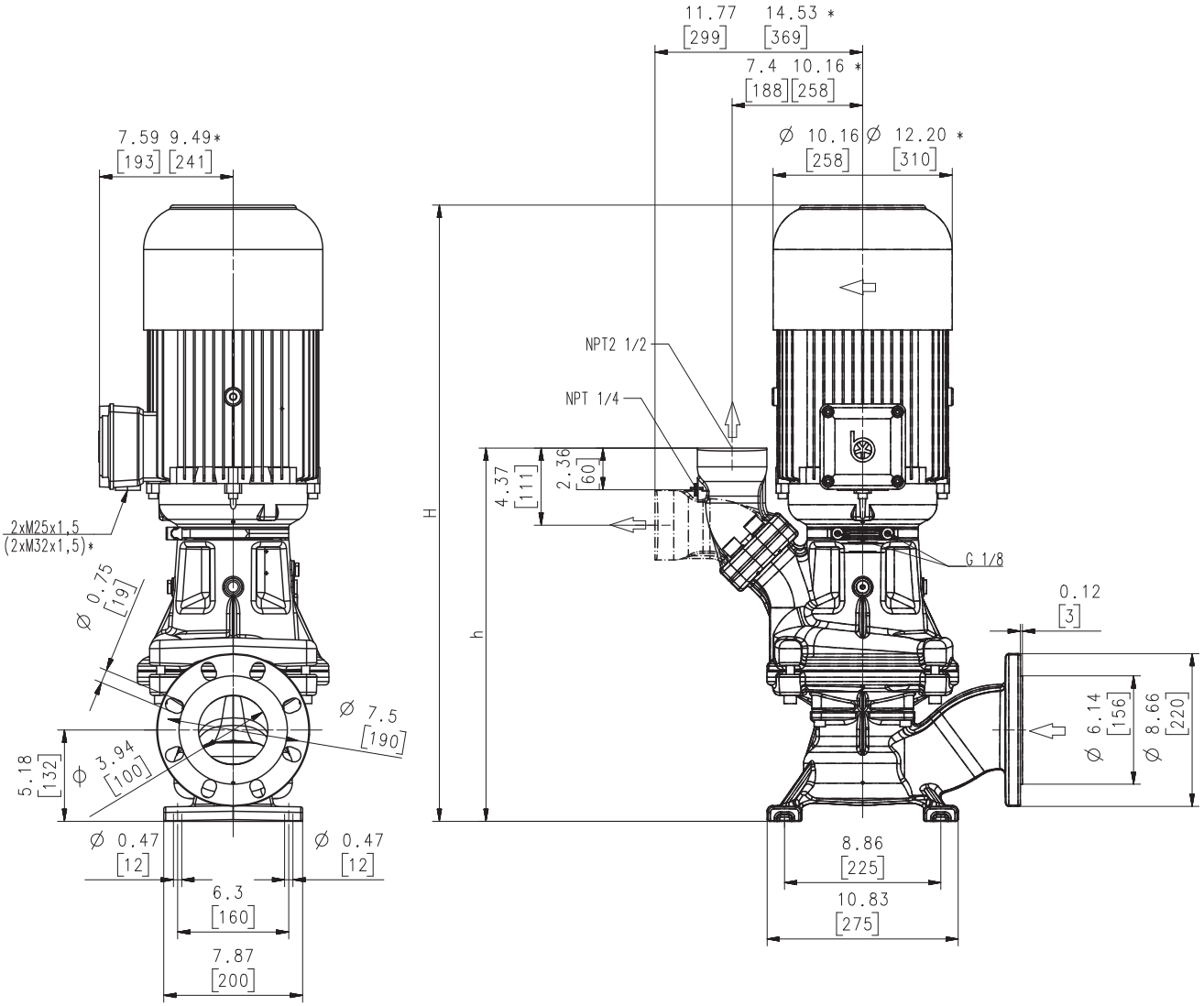


Vertical End Suction Pumps
SBA1600S...2000S-V

Axial/semi-open impellers

60 Hz

SBA1600S...2000S-V



Dimensions in Inches / mm
*) Dimensions SBA2000S-V

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SBA1600S-V	350/47 *1400/15*	35.7	*907*	21.2	538	280	*127*	13.8 *10.3*	460	60	16.9	3550
SBA2000S-V	450/60 *1600/21*	36.1	*916*	24.0	609	337	*153*	17 *12.6*	460	60	21.5	3560

60 Hz

Vertical End Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with double mechanical seal.
This pump series is designed for vertical installations next to a tank and for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications.**
The SBA pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

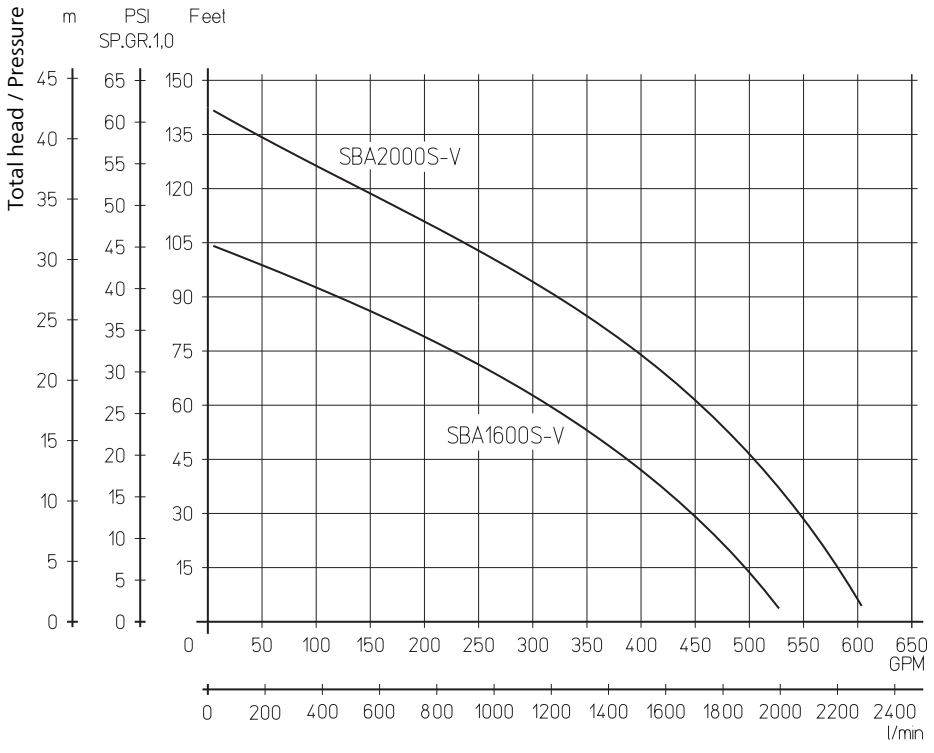
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBA1600S-V	76 dBA
SBA2000S-V	79 dBA

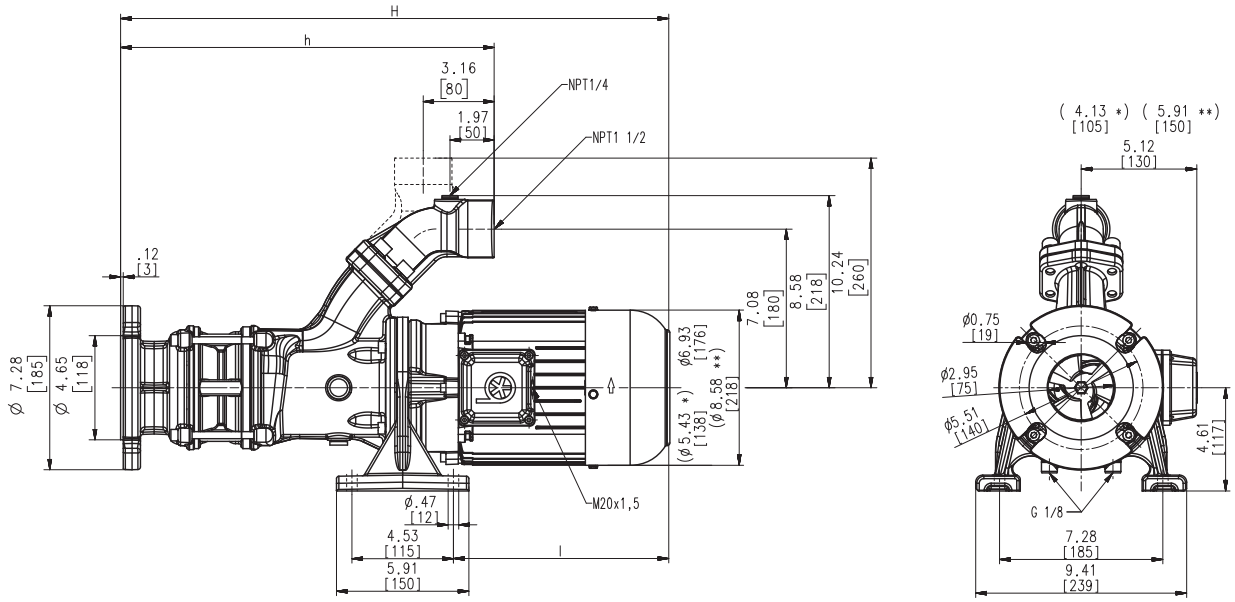


Horizontal End-Suction Pumps SBG501S...503S

Axial/semi-open impellers

60 Hz

SBG501S...503S



Dimensions in Inches / mm
*) Dimensions SBG501S
**) Dimensions SBG503S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBG501S	60/30 *240/9*	19.4	*494*	14.1	359	7.1	*181*	59.5	*27*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
SBG502S	60/62 *240/18*	24.4	*620*	16.7	423	9.6	*243*	94.8	*43*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
SBG503S	60/90 *240/25*	28.9	*733*	19.2	487	11.5	*293*	105.8	*48*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **highly air entrained coolant and cutting oils,** as they occur in **high speed grinding applications.**
The SBG pumps are equipped with the user-friendly **SAE flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

For position of terminal box, see mechanical features within the technical information section.

Applications

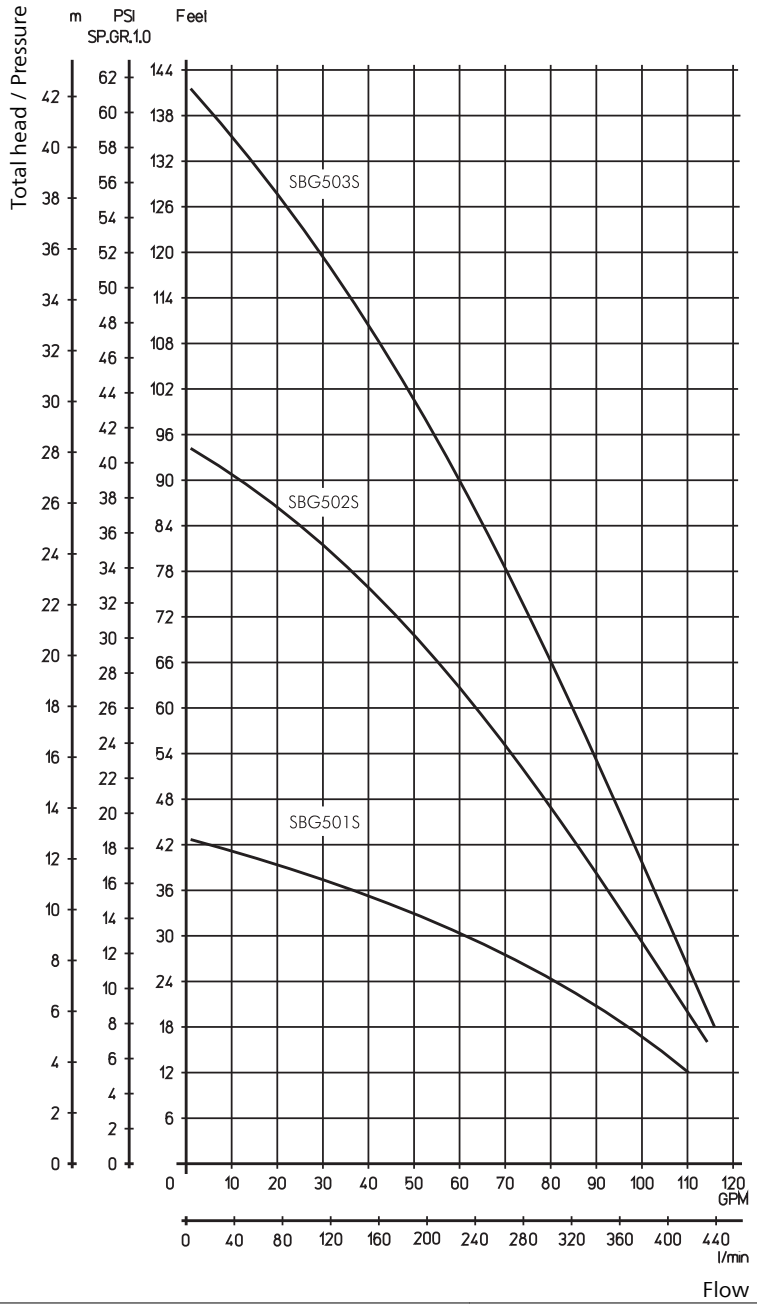
Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBG501S	70 dBA
SBG502S	73 dBA
SBG503S	75 dBA

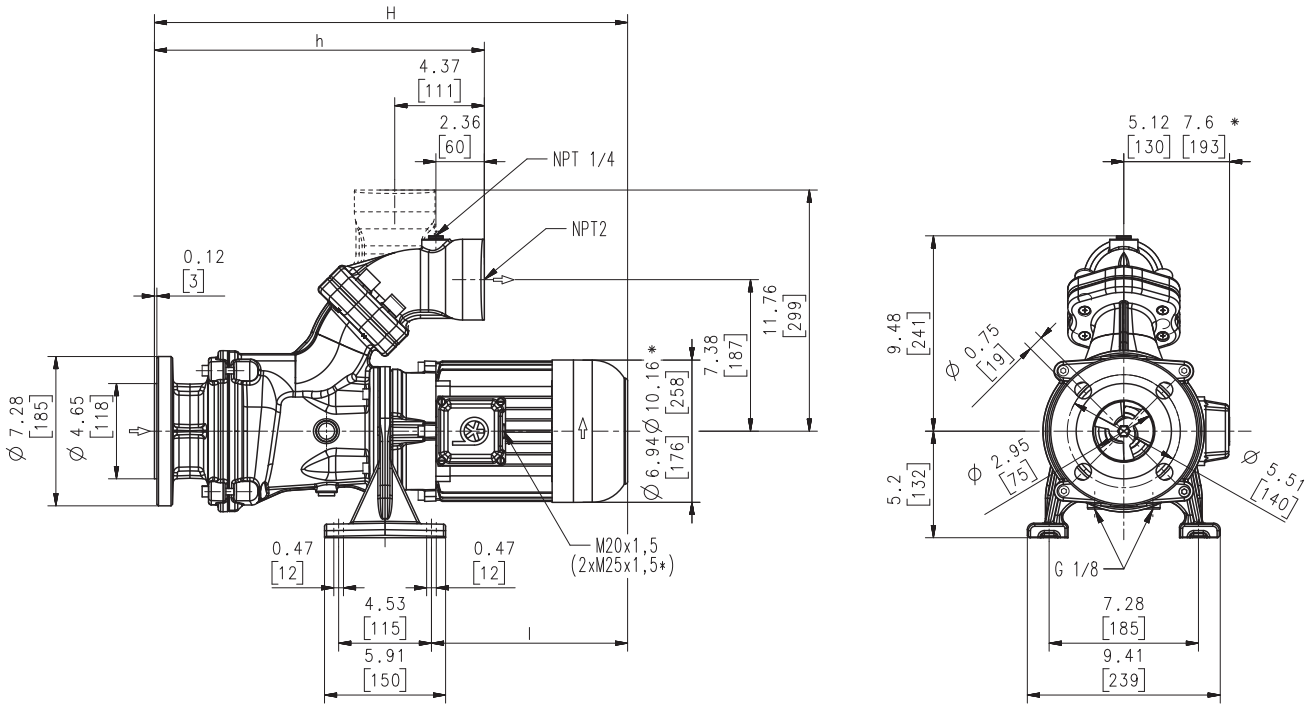


Horizontal End-Suction Pumps SBG801S...803S

Axial/semi-open impellers

60 Hz

SBG801S...803S



Dimensions in Inches / mm; *) Dimensions SBG802S, 803S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBG801S	150/46 *600/14*	23.5	*596*	16.1	408	10.0	*253*	116.9	*53*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
SBG802S	150/92 *600/26*	29.2	*742*	18.8	478	13.0	*329*	190	*86*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
SBG803S	150/112 *600/31*	36.2	*919*	21.6	548	17.2	*437*	269	*122*	13.8 *10.3*	460	60	16.9	3550

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **highly air entrained coolant and cutting oils,** as they occur in **high speed grinding applications.**
The SBG pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

For position of terminal box, see mechanical features within the technical information section.

Applications

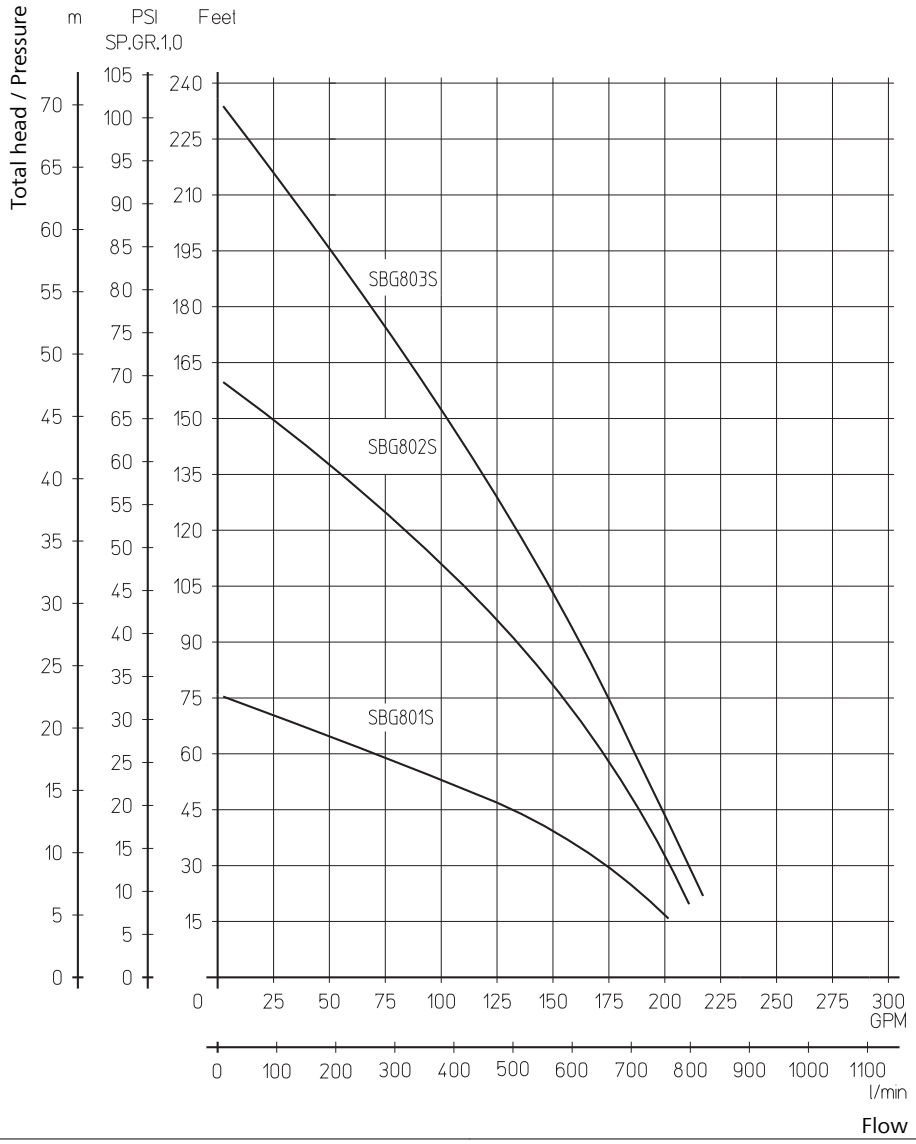
Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBG801S	73 dBA
SBG802S	76 dBA
SBG803S	79 dBA

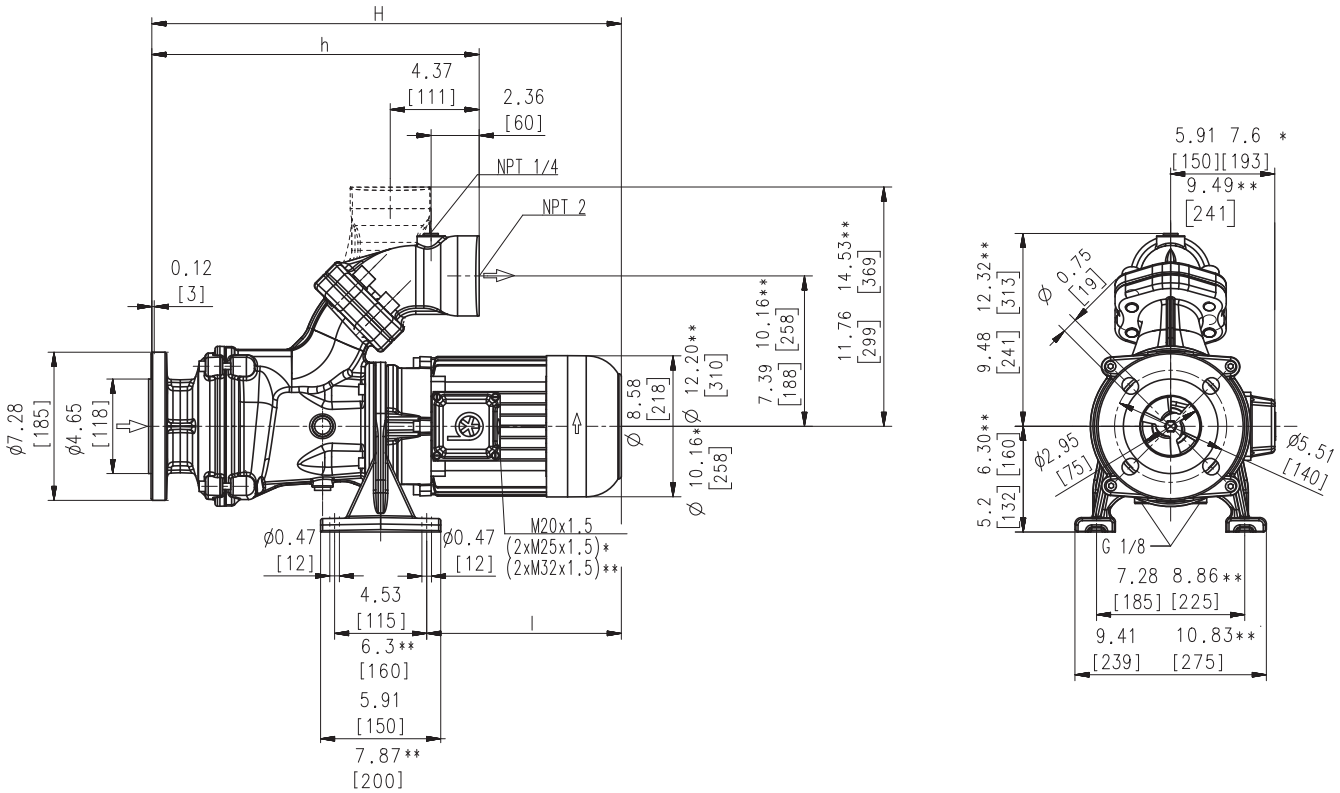


Horizontal End-Suction Pumps
SBG1101S...1103S

Axial/semi-open impellers

60 Hz

SBG1101S...1103S



Dimensions in Inches / mm
*) Dimensions SBG1102S
**) Dimensions SBG1103S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBG1101S	225/40 *850/12*	25.2	*640*	16.2	412	11.5	*293*	132.3	*60*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
SBG1102S	225/76 *850/24*	34.0	*863*	19.4	492	17.2	*437*	276	*125*	13.8 *10.3*	460	60	16.9	3550
SBG1103S	225/105 *850/32*	37.4	*951*	25.3	643	16.6	*422*	309	*140*	20 *15.0*	460	60	24.8	3560

BRINKMANN PUMPS

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **highly air entrained coolant and cutting oils,** as they occur in **high speed grinding applications.**
The SBG pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

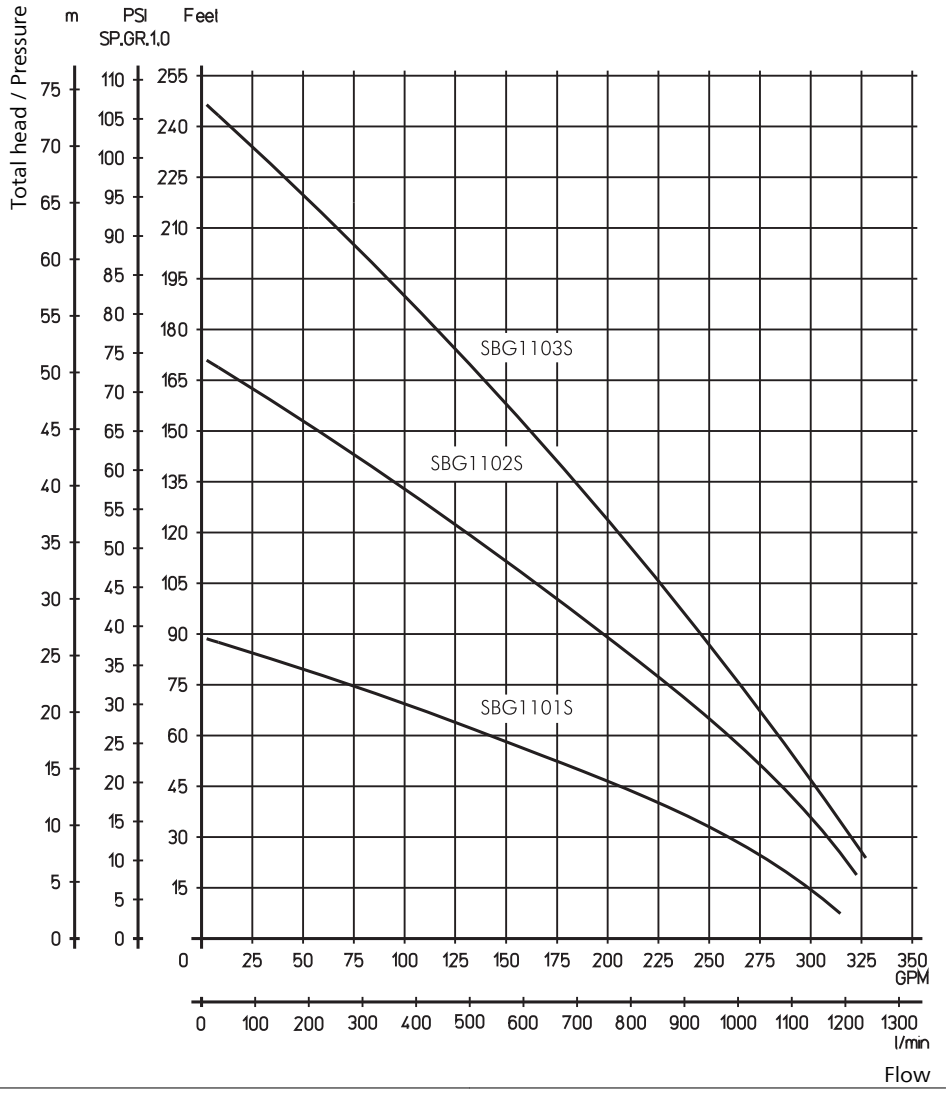
Kinematic viscosity
- ...200 SSU (...45 mm^2/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBG1101S	76 dBA
SBG1102S...1103S	79 dBA

For position of terminal box, see mechanical features within the technical information section.

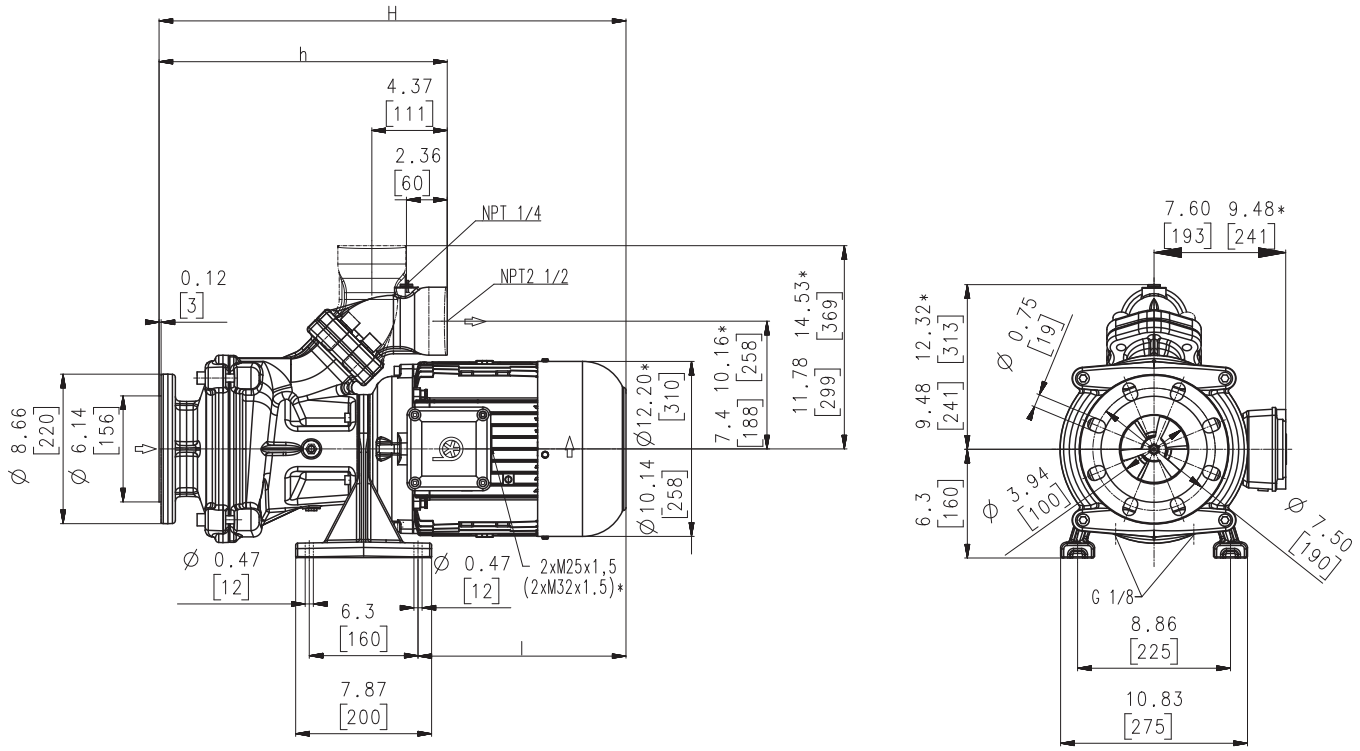


Horizontal End-Suction Pumps
SBG1400S...1700S

Axial/semi-open impellers

60 Hz

SBG1400S...1700S



Dimensions in Inches / mm
*) Dimensions SBG1700S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBG1400S	300/60 *1200/17*	31.2	*793*	16.7	424	16.3	*414*	256	*116*	13.8 *10.3*	460	60	16.9	3550
SBG1700S	400/60 *1600/17*	31.6	*802*	19.5	495	16.6	*422*	313	*142*	20 *15.0*	460	60	24.8	3560

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **highly air entrained coolant and cutting oils,** as they occur in **high speed grinding applications.**
The SBG pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

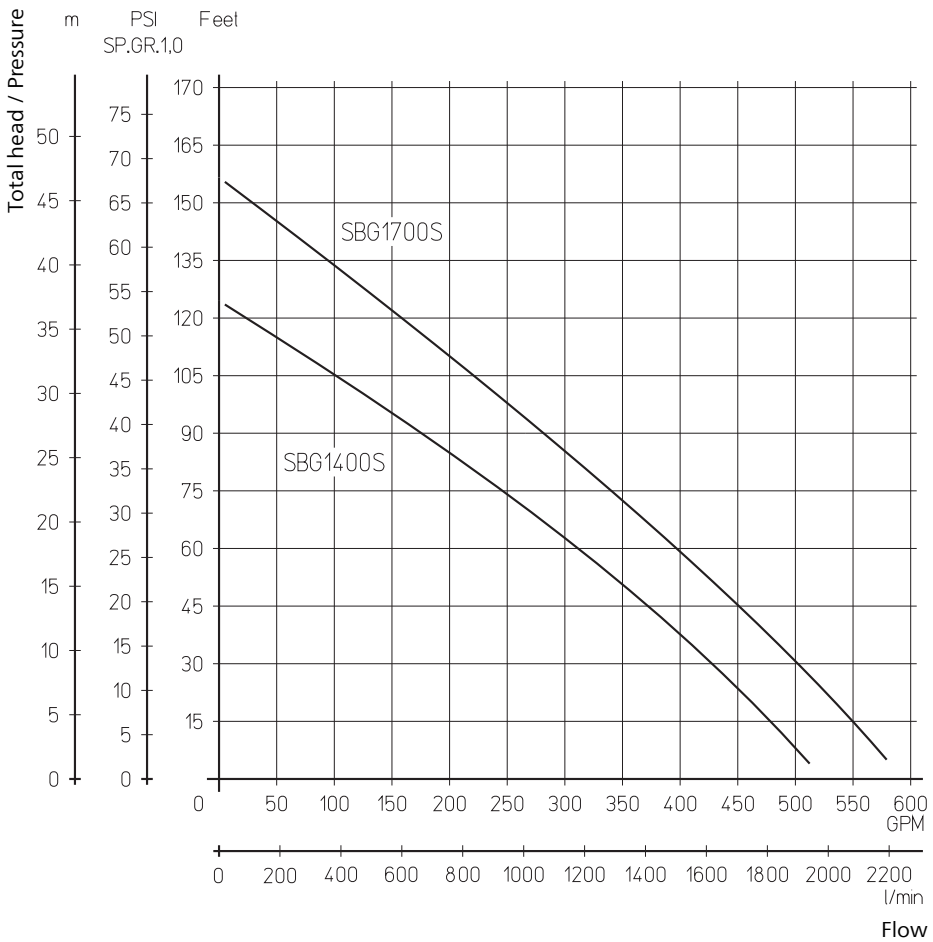
Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBG1400S	78 dBA
SBG1700S	79 dBA

For position of terminal box, see mechanical features within the technical information section.

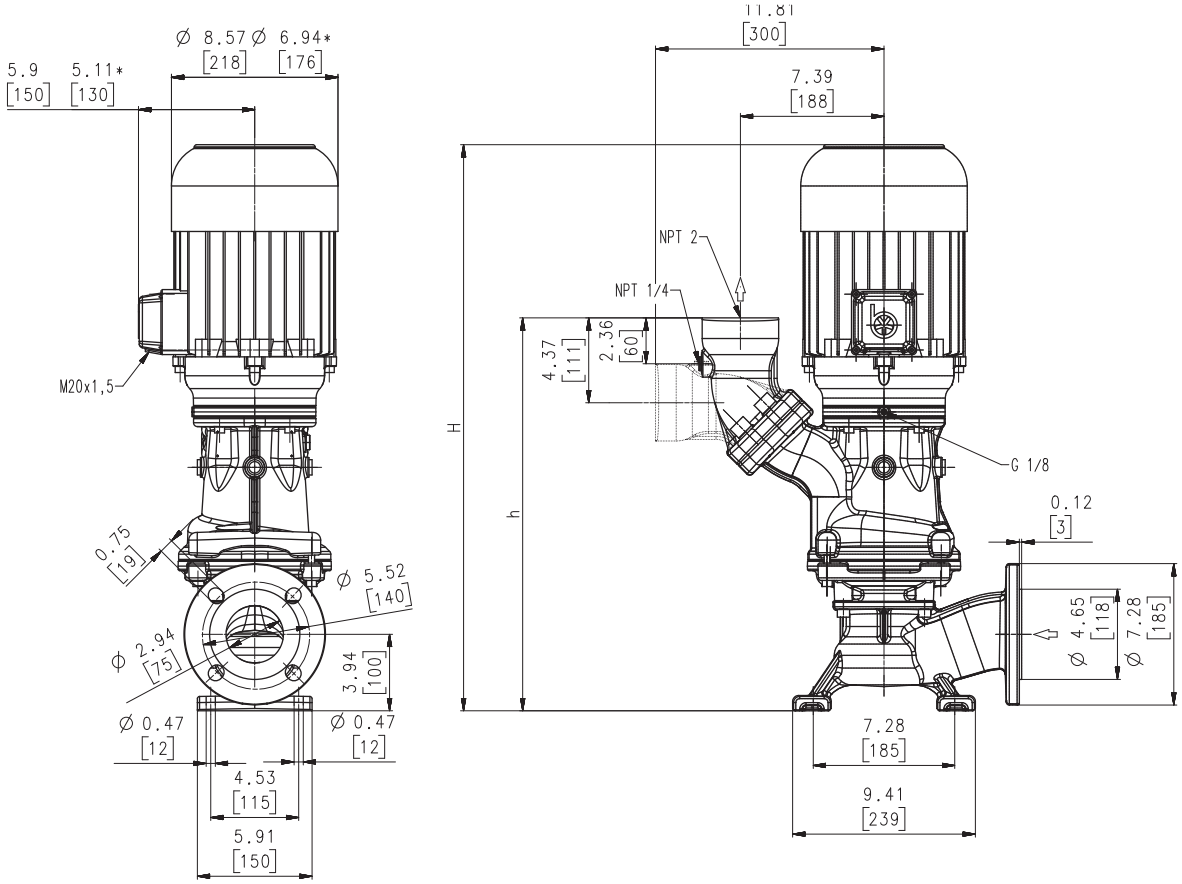


Vertical End Suction Pumps
SBG801S...1101S-V

Axial/semi-open impellers

60 Hz

SBG801S...SBG1101S-V



Dimensions in Inches / mm; *) Dimensions SBG801S-V

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SBG801S-V	175/32 *600/11*	27.8	*707*	19.9	506	138.9	*63*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
SBG1101S-V	225/36 *800/12*	29.1	*740*	20.2	514	156.6	*71*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450

BRINKMANN PUMPS

60 Hz

Vertical End Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with double mechanical seal.
This pump series is designed for vertical installations next to a tank and for pumping **highly air entrained coolant and cutting oils,** as they occur in **high speed grinding applications.**
The SBG pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

All types specified are also available as multistage pumps e.g. SBG802S-V, SBG1103S-V.

Applications

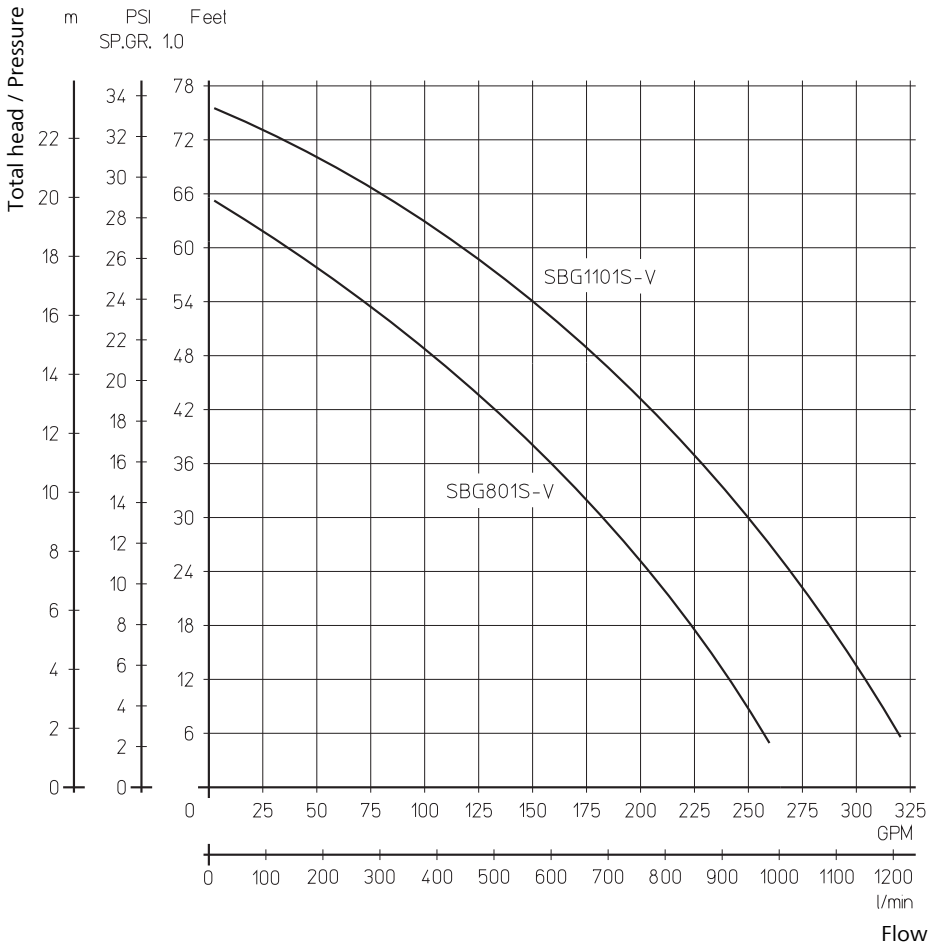
Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBG801S-V	72 dBA
SBG1101S-V	74 dBA

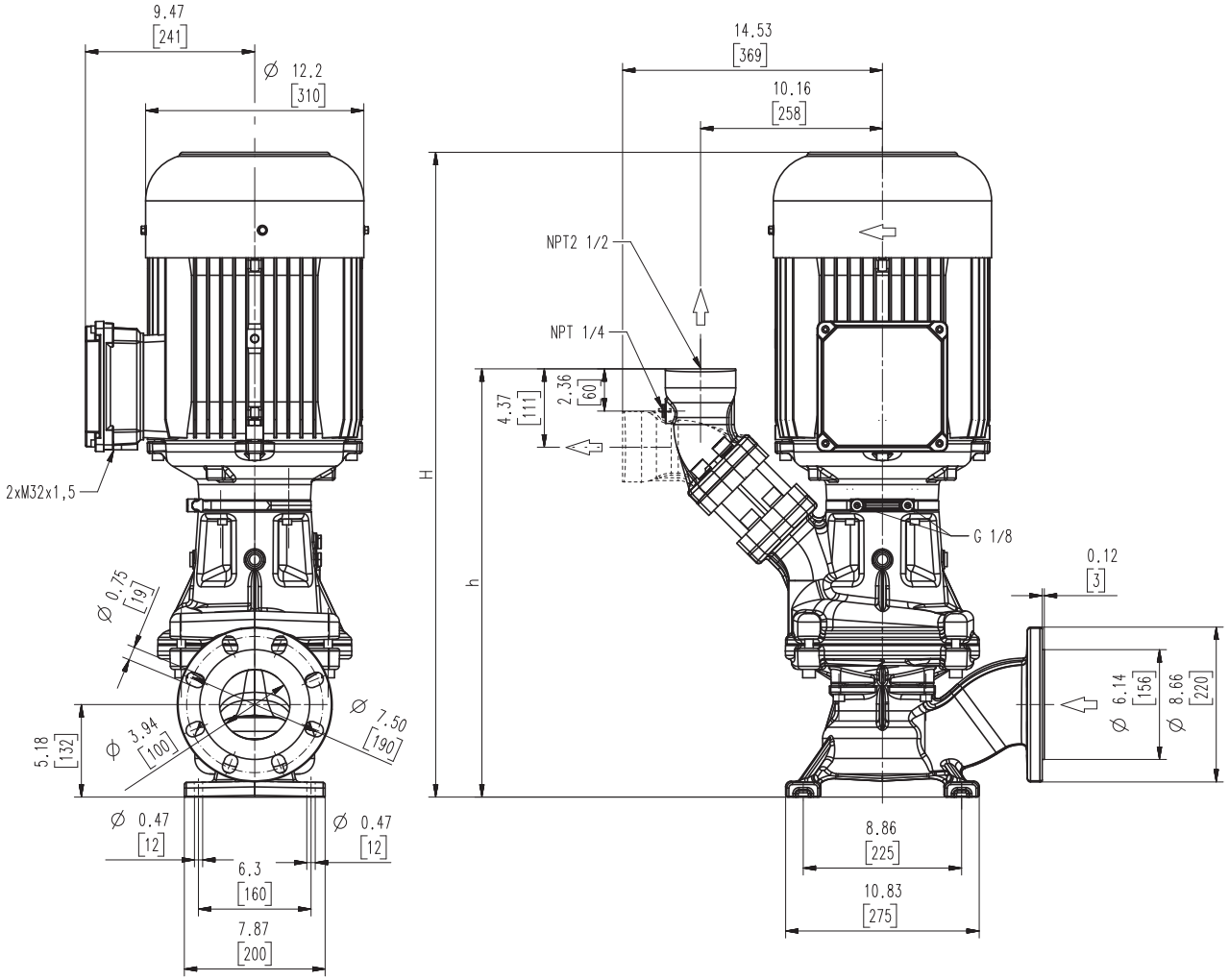


Vertical End Suction Pumps
SBG1700S-V

Axial/semi-open impellers

60 Hz

SBG1700S-V



Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBG1700S-V	350/45 *1300/15*	36.1	*916*	24.0	609	320	*145*	20 *15.0*	460	60	24.8	3560

BRINKMANN PUMPS

60 Hz

Vertical End Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with double mechanical seal.
This pump series is designed for vertical installations next to a tank and for pumping **highly air entrained coolant and cutting oils,** as they occur in **high speed grinding applications.**
The SBG pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

Applications

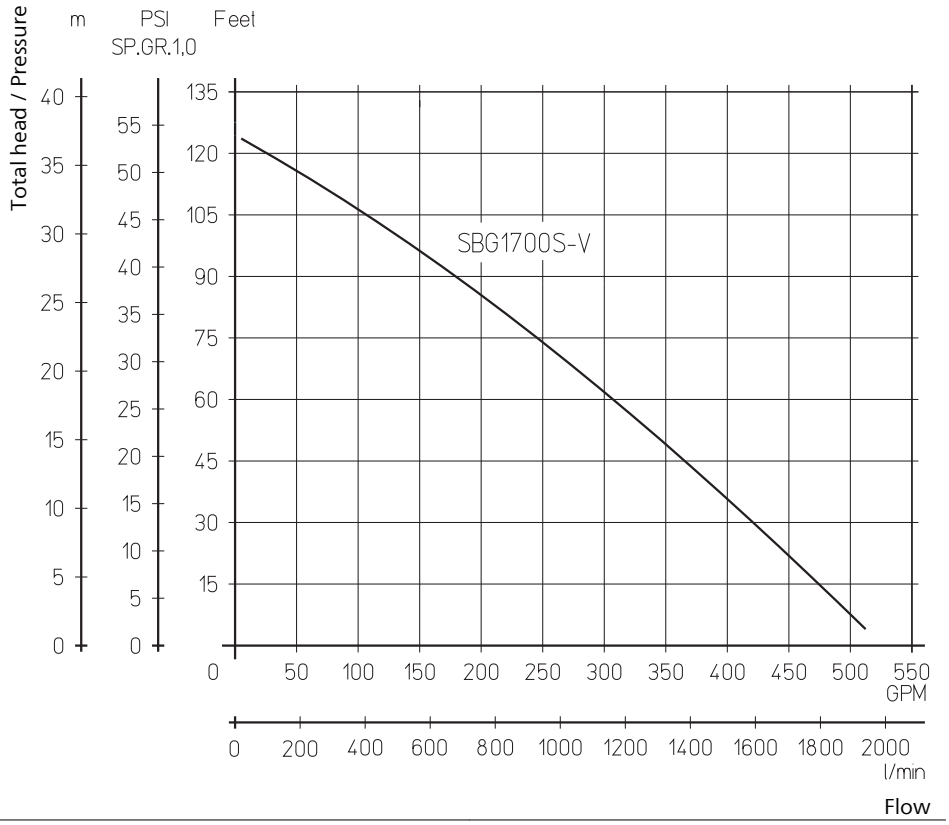
Types of fluid
- coolants
- cooling/cutting oils
- grinding oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBG1700S-V	79 dBA

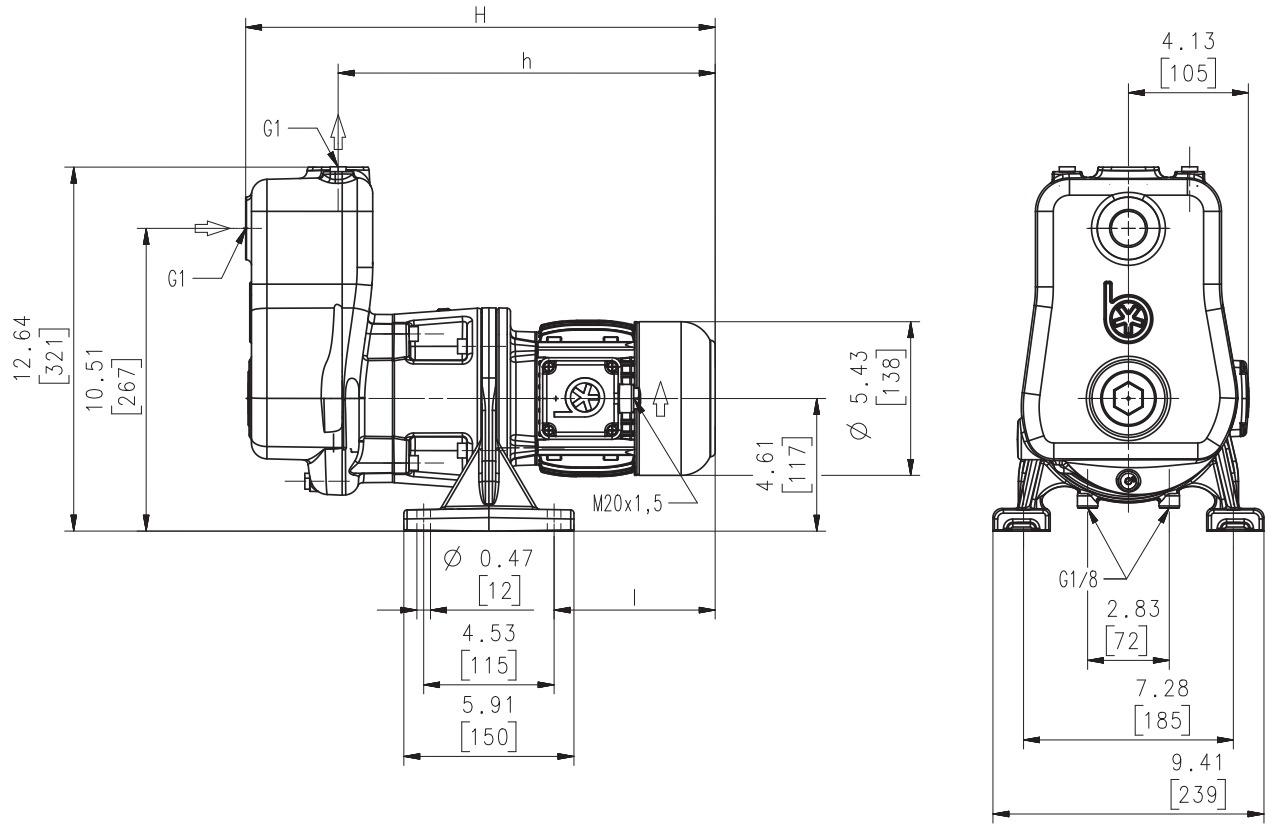


Horizontal End-Suction Pumps
SBM140S

Semi-open impellers

60 Hz

SBM140S



Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBM140S	40/36 *120/12*	17.0	*433*	13.8	351	6.3	*161*	63.9	*29*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.

These pumps **are self-priming after initial filling**.
All pumps are equipped with a single mechanical seal.

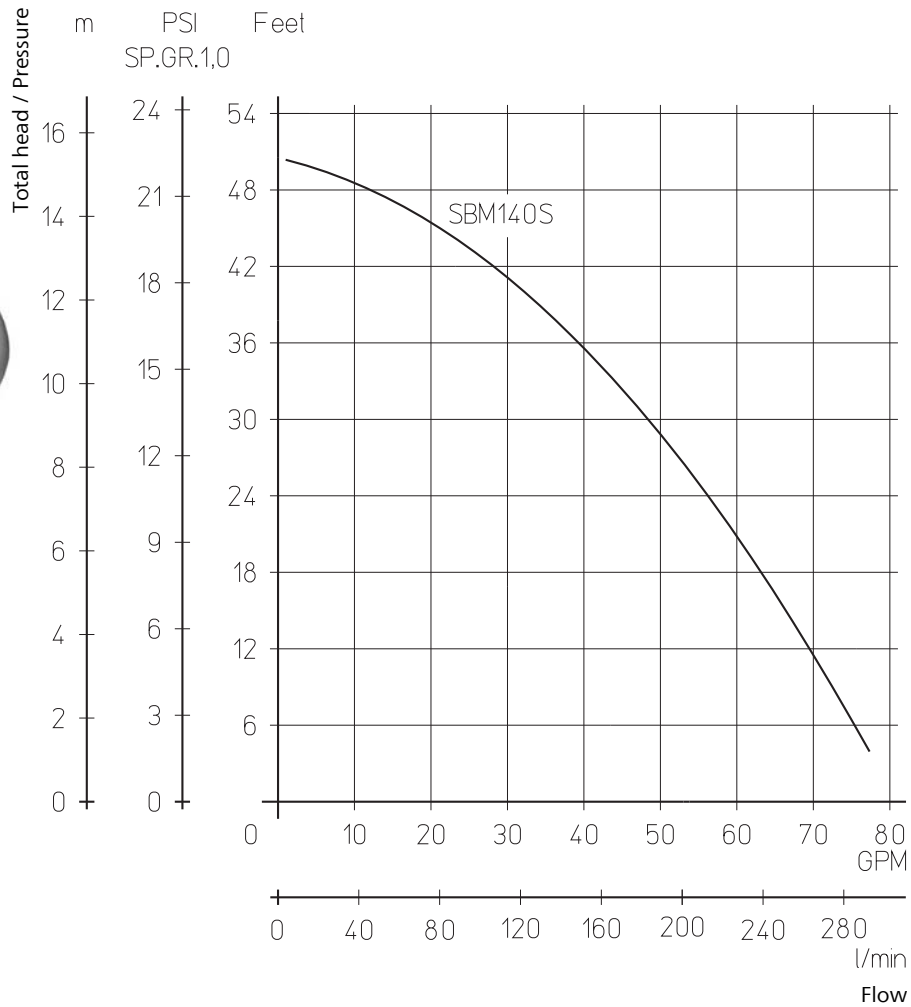
SBM Pumps are mounted **next to or on top** of the tank and they are suitable for pumping **air entrained coolant** fluids, such as **water-soluble coolants or cutting oils**, as they occur **in high speed turning, milling or grinding applications**.
For more information see mechanical features within the technical information section.

Applications

Types of fluid
coolants
cooling/cutting oils
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...140 °F (0...60 °C)
Suction height
5 m

Construction

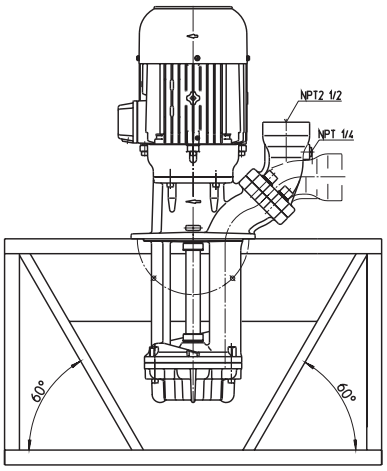
Cover	cast iron
Impeller	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBM140S	66 dBA

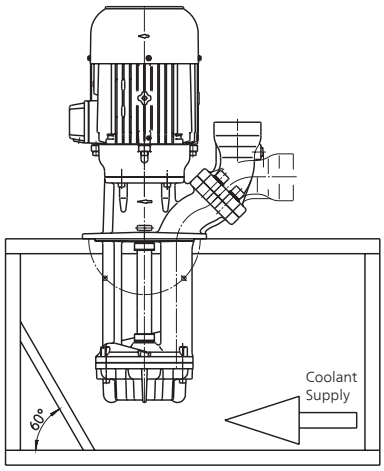


Technical Information

Lifting pump versions SFL | SBF

Lifting Pumps SFL





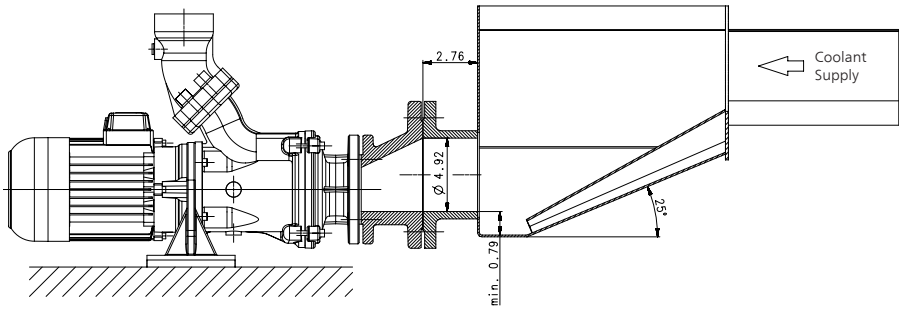
The SFL pump series represents an innovative lift pump concept which has found many pumpback applications world wide. The SFL pumps series can be customized through various options and upgrades.

Properly planned system and tank design allow for the possibility to use the **SFL** and **SFC Cutter pumps** interchangeably within the same tank in order to ensure maximum flexibility with respect to being able to react to changing machining materials or different chip geometries.

	Impeller material	Inlet cover material	Slurping mode	Chip handling capabilities	Max. chip to coolant ratio by weight
SFL...Standard	cast steel	special cast iron	yes	coloured metal, aluminium, cast iron	1%
SFL...CM1	CrMo	special cast iron	yes	steel, medium alloyed steel	1%
SFL...CM3	CrMo	CrMo	yes	forged materials high alloyed steels hardened steels	1%
SFL...CM4	CrMo	CrMo	yes	forged materials high alloyed steels hardened steels	1%

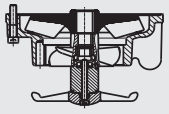
Type	Chip diameter Inch / mm	Chip length Inch / mm
SFL650	0.3 / 8	0.6 / 15
SFL850	0.4 / 10	0.8 / 20
SFL1150	0.6 / 15	1.18 / 30
SFL1350	0.6 / 15	1.18 / 30
SFL1550	0.6 / 15	1.18 / 30
SFL1850	0.6 / 15	1.18 / 30
SFL2350	1.0 / 25	1.97 / 50

Lifting Pumps SBF



SBF pumps are comparable to SFL pumps from a technical standpoint. These pumps can be mounted directly to the machine and are available upon request with upgraded materials of construction which allow for unlimited dry-running.
Properly planned system and tank design allow for the possibility to use **SBF** and **SBC cutter pumps** interchangeably within the same tank by only adding an adapter flange.

Option:



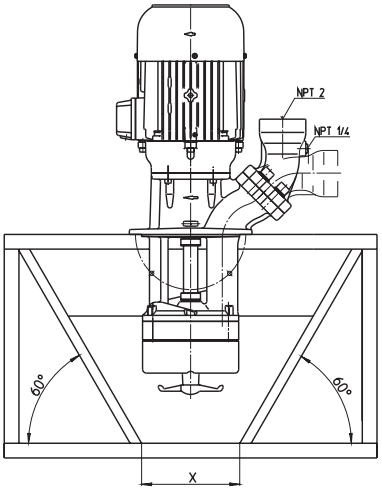
SFL and **SBF pumps** are also available with an additional agitator at the pump suction. The agitator can either be supplied directly with the pump assembly or is available as a separate component for installation in the field at a later date.

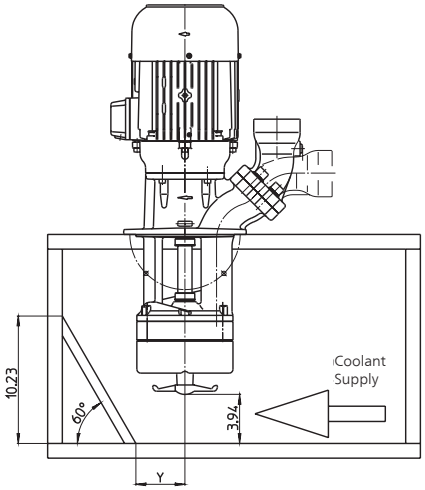
All information stated above is only intended as a general guide line for your system layout. Prior to placing your order please consult with our highly skilled sales force regarding your specific application in order to ensure proper pump selection.

Technical Information

Lifting pump versions SFC | SBC

Cutter Pumps SFC





Pumps of the SFC series have the following unique characteristics:

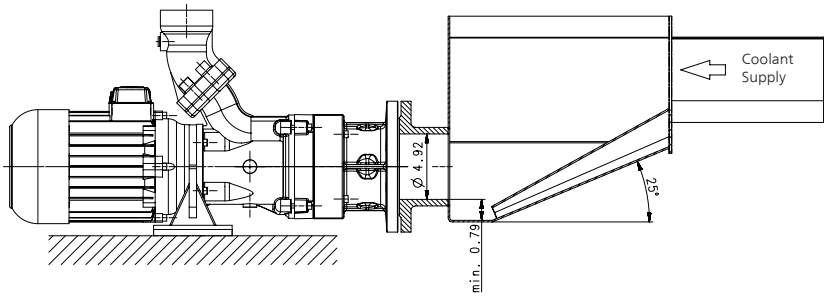
- Oversized motor to transfer additional cutting forces via the driving shaft if necessary
- Axial impeller which has been optimized for the cutting process
- Dry running capability
- Adjustable gap between both cutting blades for preventive maintenance (due to stiff motor bearing and shaft design)
- Maintenance free and shock absorbing bearing bushing

Type	X Inch / mm	Y Inch / mm
SFC820 SFC1120	7.87 / 200	3.94 / 100
SFC1520 SFC1820 SFC2320	10.83 / 275	5.5 / 140

The cutter pumps of the series SFC are suited for cutting aluminum chips or similar materials and for pumping these materials along with the coolant fluid. An agitator located at the pump suction helps to break up and separate any large bundles of chips or birds nests which reach the pump suction.
The hardened cutting unit (>60HRC) is cutting chips and the semi-open impeller with its large clearances allows to pump the particles along with the coolant fluid from the machine back to the filter. The SFC pumps are capable of handling chip to coolant ratios of up to 1.5% by weight.
The cutter pump is equipped with a maintenance free shock absorbing bushing which has outstanding dry running capabilities.

Instead of cycling the pumps, the SFC pumps should be run continuously in order to prevent chips from entering the back plane of the impeller.
The agitator must be located 4 inches (100 mm) above the tank bottom in order to prevent unwanted objects, such as broken tools or indexing plates, from entering the pump suction.
The walls of the tank around the pump should be sloped at a 60 degree angle to avoid chips from collecting at the tank bottom. The coolant supply should be aimed directly at the pump to ensure that all contamination, including chip bundles, reach the pump suction (please refer to the above tank design as a guide line for your tank layout).

Cutter Pumps SBC

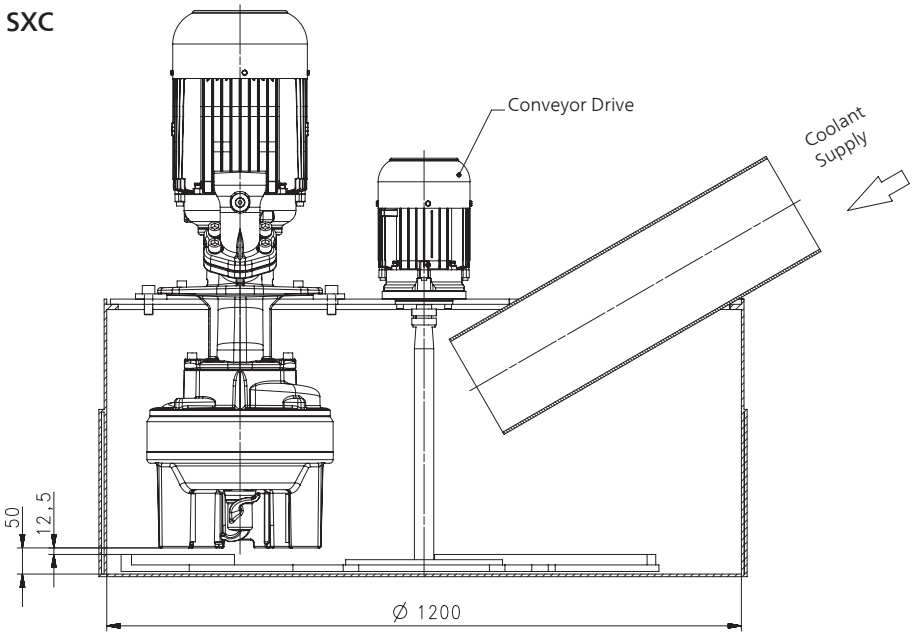


SBC pumps are comparable to SFC pumps from a technical standpoint. When directly mounted to the tank or to the machine tool preventive actions must be taken in order to avoid unwanted foreign objects, such as broken tooling pieces, from reaching the pump suction.

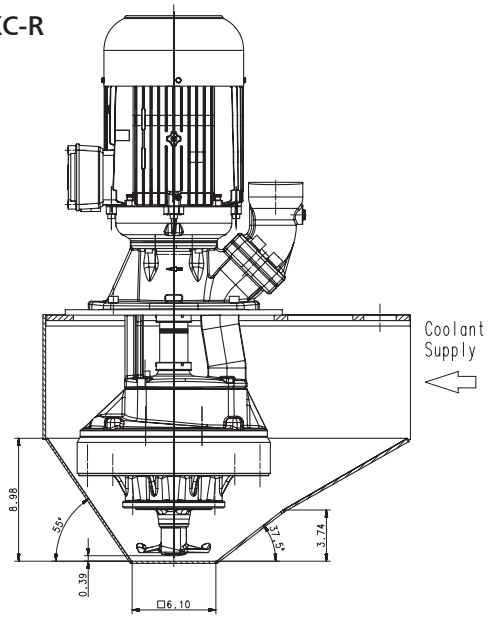
All information stated above is only intended as a general guide line for your system layout. Prior to placing your order please consult with our highly skilled sales force regarding your specific application in order to ensure proper pump selection.

Cutter Pumps SXC | SXC-R

SXC



SXC-R



The cutter pumps of the series SXC are designed to handle low alloyed steels, machining steel and cast iron / aluminum combinations. Chips can also be in the shape of birds nests or chip bundles.

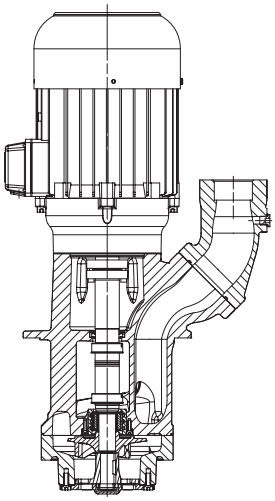
The chips must be supplied to the suction mouth of the pump, which are then picked up by the agitator broken up if necessary, and then cut and delivered by the pump.

In the case of brittle chips, such as cast iron rings, the SXC-R pump, which has an agitator that is capable of picking up the chips of the tank bottom, is to be applied.

Proper tank design which ensures that all chips get to the pump suction is critical for both pump types.

Due to the complexity of this application we recommend to consult with our technical application specialists in order to ensure the proper pump selection.

Cutter Pumps SPC



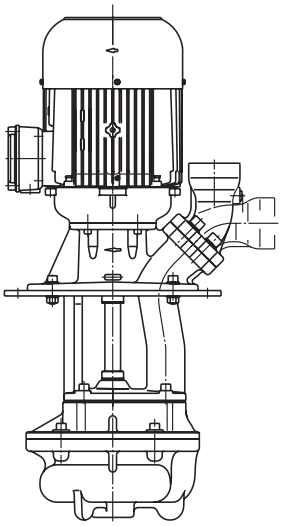
The cutter pumps of the series SPC are designed to handle and reliably cut long, stringy plastic chips.

Because of the higher number of cutting blades which results in an increased cutting frequency all chips are being consistently cut in small pieces.

All information stated above is only intended as a general guide line for your system layout. Prior to placing your order please consult with our highly skilled sales force regarding your specific application in order to ensure proper pump selection.

Lifting pump versions SFT | BFT

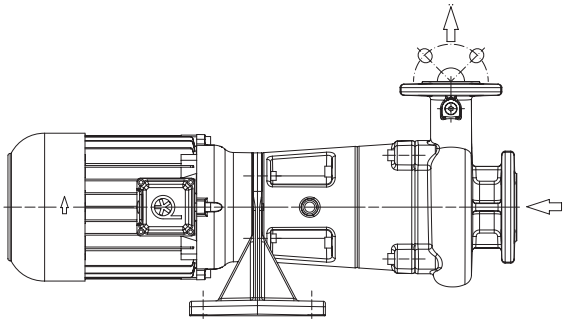
Vortex Pumps SFT



Vortex pumps are traditional lift pumps with a recessed impeller that allows for a sphere passage of up 50 mm. In order to ensure stable operating conditions the impeller must be fully flooded, and the pump must lift the fluid at least 10–25 inch (3–8 m) above the pump discharge.

	Impeller material	Inlet cover material	Shaft bushing	Max. chip to coolant ratio by weight	sphere size passage Inch / mm	Chip handling capabilities
SFT450 SFT710 SFT1100	Cast steel	Special cast iron	SIC/SIC	1.5%	1.97 / 50	colored metal aluminium cast iron steel alloyed steel hardened steel forged steel
SFT1300 SFT1350 SFT1400 SFT2254 SFT3054 SFT3554	Cast steel	Special cast iron	Cartridge	1.5%	1.77 / 45	
SFT1554-C	Cast steel	Special cast iron	–	1.5%	1.57 / 40	

Vortex Pumps BFT



In a horizontal inline design, the vortex pump allow for space saving installation without a tank and directly mounted to the machine tool. All models are available with an option for a second mechanical seal which enables the pumps to operate with unlimited dry running.

	Impeller material	Inlet cover material	Shaft bushing	Max. chip to coolant ratio by weight	sphere size passage Inch / mm	Chip handling capabilities
BFT750 BFT1250	Cast steel	Special cast iron	–	1.5%	1.37 / 35	colored metal aluminium cast iron steel alloyed steel hardened steel forged steel

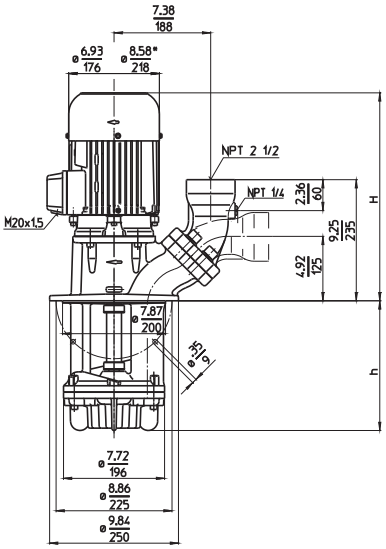
All information stated above is only intended as a general guide line for your system layout. Prior to placing your order please consult with our highly skilled sales force regarding your specific application in order to ensure proper pump selection.

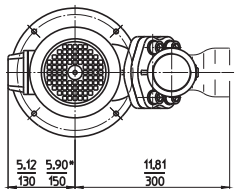
Quick Suctioning Immersion Pumps SFL650...2350

Axial/semi-open impellers

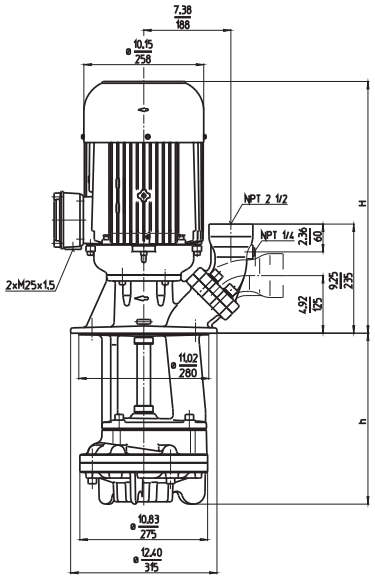
60 Hz

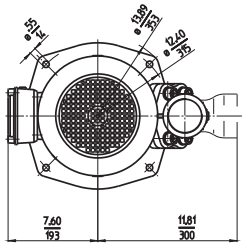
SFL650...1150





SFL1550...2350





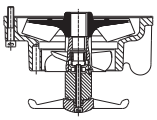
Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SFL650S220	100/30 *400/9*	16.5 *419*	8.66 *220*	108.0	*49*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
320			12.60 *320*	112.5	*51*					
450			17.72 *450*	116.9	*53*					
570			22.44 *570*	123.5	*56*					
770			30.31 *770*	134.5	*61*					
1000			39.37 *1000*	149.9	*68*					
SFL850S230	125/42 *500/13*	16.9 *429*	9.06 *230*	112.5	*51*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
330			12.99 *330*	116.9	*53*					
460			18.11 *460*	121.3	*55*					
580			22.83 *580*	127.9	*58*					
780			30.71 *780*	138.9	*63*					
1010			39.76 *1010*	154.4	*70*					
SFL1150S230	150/52 *600/16*	18.4 *468*	9.06 *230*	127.9	*58*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
330			12.99 *330*	132.3	*60*					
460			18.11 *460*	136.7	*62*					
580			22.83 *580*	143.3	*65*					
780			30.71 *780*	154.4	*70*					
1010			39.76 *1010*	170	*77*					
SFL1550S310	230/58 *900/17*	24.1 *612*	12.20 *310*	256	*116*	11.5 *8.6*	460	60	14.2	3550
440			17.32 *440*	260	*118*					
560			22.05 *560*	265	*120*					
810			31.89 *810*	278	*126*					
1060			41.73 *1060*	282	*128*					
SFL1850S310	300/68 *1150/20*	24.1 *612*	12.20 *310*	276	*125*	13.8 *10.3*	460	60	16.9	3550
440			17.32 *440*	282	*128*					
560			22.05 *560*	287	*130*					
810			31.89 *810*	300	*136*					
1060			41.73 *1060*	304	*138*					
SFL2350S340	350/113 *1400/32*	38.3 *974*	13.39 *340*	353	*160*	29 *21.3*	460	60	32	3555
470			18.50 *470*	357	*162*					
590			23.23 *590*	362	*164*					
840			33.07 *840*	397	*180*					
1090			42.91 *1090*	401	*182*					

Dimensions in Inches / mm
*) Dimensions SFL1150
Discharge port with NPT 2 inches available upon request.
Dimensions SFL2350 above the flange as with SGL1402

60 Hz

Quick Suctioning Immersion Pumps

of **series SFL** equipped with the patented "BRINKMANN's Suction De-aeration System" and are excellently suited for pumping **extremely inflated fluids** (emulsions) **with heavy chip loads** as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SFL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.



These pumps are available (upon request) with an additional agitator at the pump suction for breaking up and separating large bundles of chips.

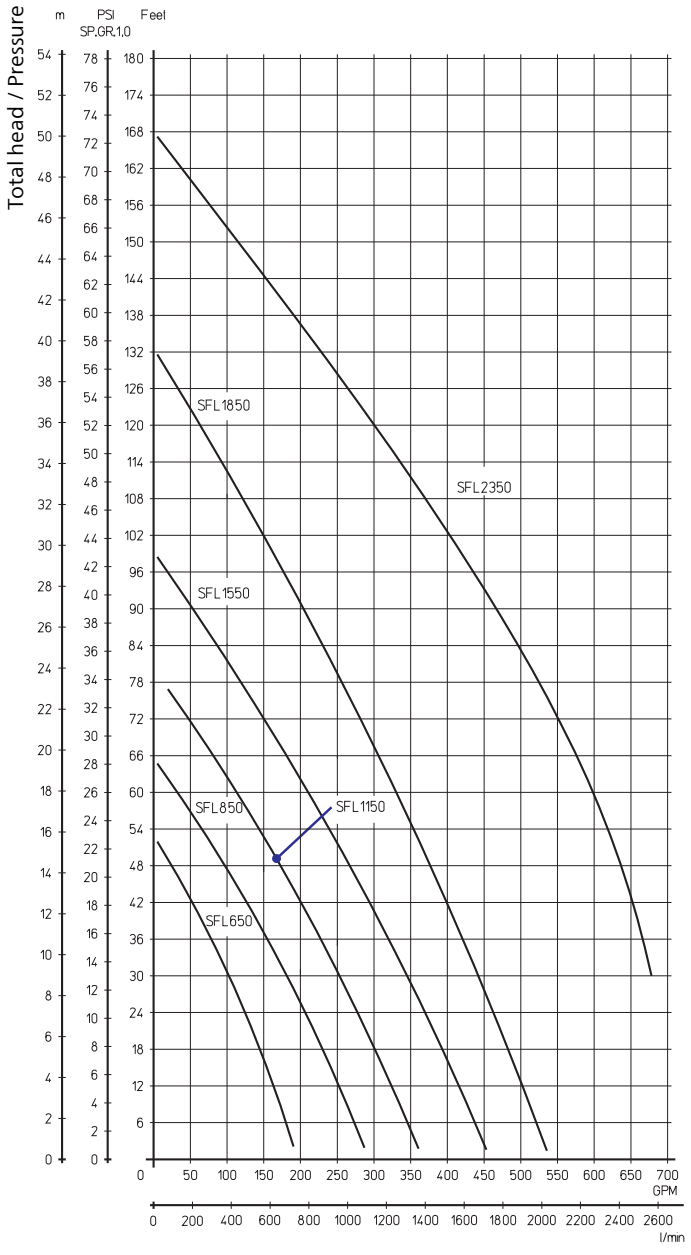
For position of terminal box, see mechanical features within the technical information section.

Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
1.0 %
Chip material:
Aluminium, steel, coloured steels
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Optional:	
Pump unit	with wear resistant wetted parts
Execution CM1	
Impeller radial	CrMo-steel
Execution CM3	
Cover	CrMo-steel
Impeller axial	CrMo-steel
Impeller radial	CrMo-steel

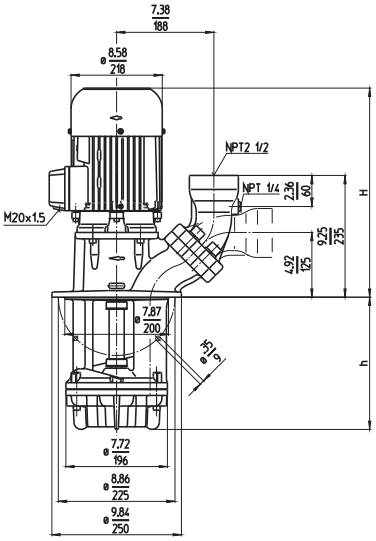


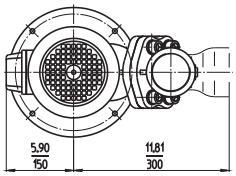
Quick Suctioning Immersion Pumps SFL860...2060

Axial/semi-open impellers

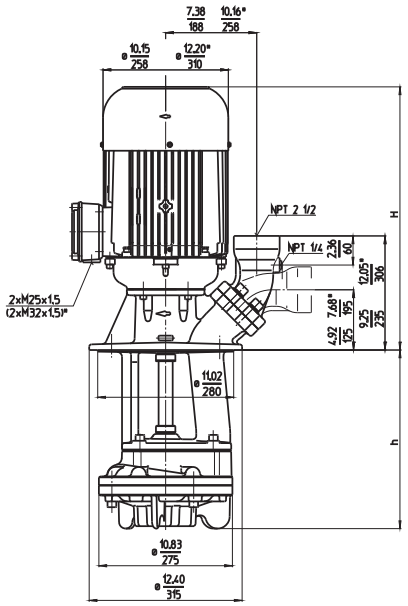
60 Hz

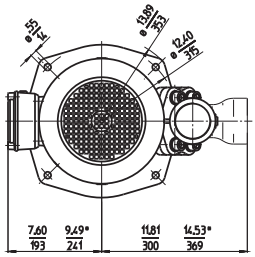
SFL860





SFL1360...2060





Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SFL860S230	150/60 *600/17*	18.4 *468*	9.06 *230*	158.8	*72*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
330			12.99 *330*	165	*75*					
460			18.11 *460*	172	*78*					
580			22.83 *580*	181	*82*					
780			30.71 *780*	190	*86*					
1010			39.76 *1010*	205	*93*					
SFL1360S310	200/72 *800/21*	19.8 *504*	12.20 *310*	209	*95*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
440			17.32 *440*	214	*97*					
560			22.05 *560*	218	*99*					
810			31.89 *810*	236	*107*					
1060			41.73 *1060*	243	*110*					
SFL1860S310	300/77 *1200/22*	24.4 *620*	12.20 *310*	320	*145*	17 *12.6*	460	60	21.5	3560
440			17.32 *440*	326	*148*					
560			22.05 *560*	331	*150*					
810			31.89 *810*	344	*156*					
1060			41.73 *1060*	348	*158*					
SFL2060S310	400/76 *1500/23*	36.0 *914*	12.20 *310*	322	*146*	23 *17.3*	460	60	27	3555
440			17.32 *440*	326	*148*					
560			22.05 *560*	331	*150*					
810			31.89 *810*	366	*166*					
1060			41.73 *1060*	370	*168*					

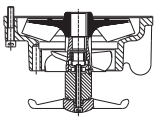
Dimensions in Inches / mm
Discharge port with NPT 2 inches available upon request
*) Dimensions SFL1860
Dimensions SFL2060 above the flange as with SGL1402

BRINKMANN PUMPS

60 Hz

Quick Suctioning Immersion Pumps

of **series SFL** equipped with the patented "BRINKMANN's Suction De-aeration System" and are excellently suited for pumping **extremely inflated fluids** (emulsions) **with heavy chip loads** as they occur in heavy cutting when turning, milling or grinding.
The quick suctioning immersion pumps reach stable working conditions as soon as the liquid level reaches the suction inlet.
The SFL pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.



These pumps are available (upon request) with an additional agitator at the pump suction for breaking up and separating large bundles of chips.

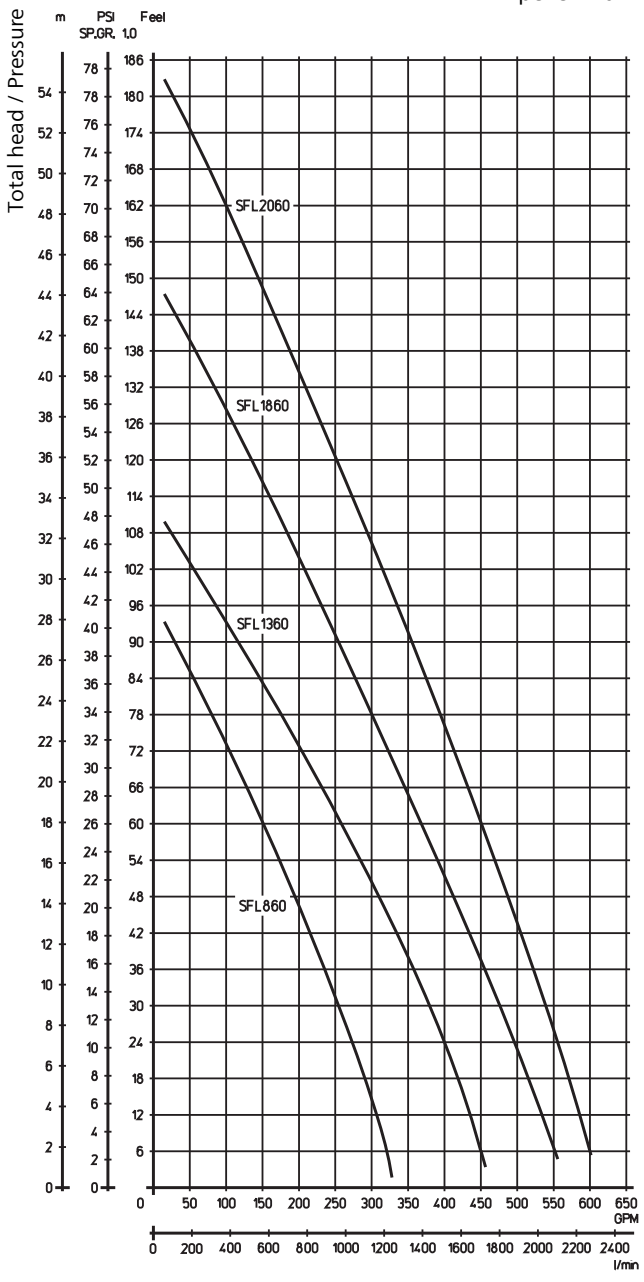
For position of terminal box, see mechanical features within the technical information section.

Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
1.0 %
Chip material:
Aluminium, steel, coloured steels
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Optional:	
Pump unit	with wear resistant wetted parts
Execution CM1	
Impeller radial	CrMo-steel
Execution CM3	
Cover	CrMo-steel
Impeller axial	CrMo-steel
Impeller radial	CrMo-steel

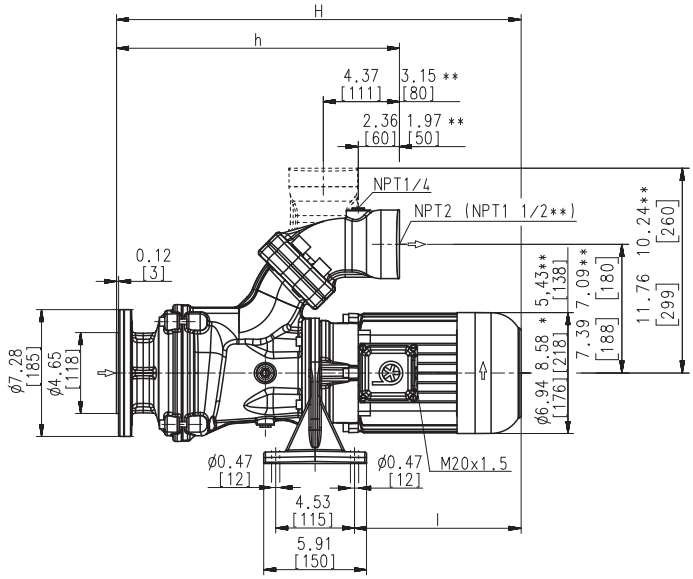


Horizontal End-Suction Pumps
SBF550S...1150S

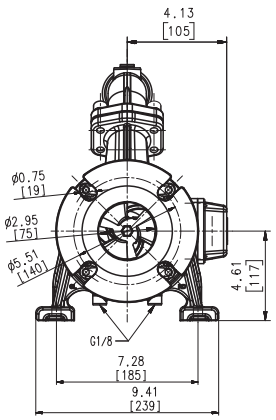
Axial/semi-open impellers

60 Hz

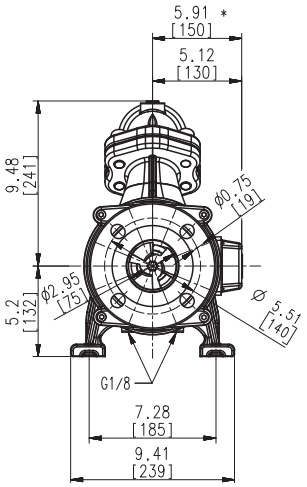
SBF550S...1150S



SBF550S



SBF650S, 850S, 1150S



Dimensions in Inches / mm; *) Dimensions SBF1150S
**) Dimensions SBF550S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBF550S	75/12 *250/5*	19.4	*494*	14.1	359	7.1	*181*	58.4	*26.5*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
SBF650S	100/36 *400/10*	23.1	*586*	16.1	408	9.6	*243*	114.7	*52*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
SBF850S	125/42 *500/12*	23.6	*600*	16.2	412	10.0	*253*	119.1	*54*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
SBF1150S	150/47 *600/13*	25.2	*640*	16.2	412	11.5	*293*	134.5	*61*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **air entrained coolant fluids**, such as **water-soluble coolants (emulsions)**, as they occur **in high speed machining applications, such as turning and milling.**
The SBF* pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
*) SBF550S with SAE flange.
For more information see mechanical features within the technical information section.

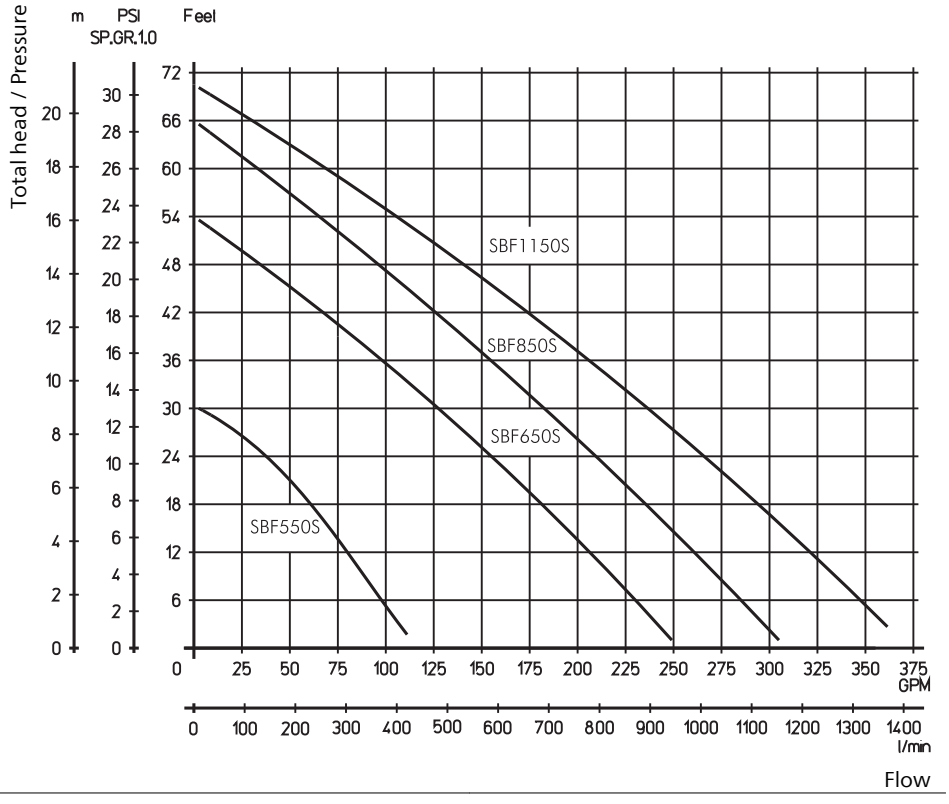
Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
1.0 % depending on the specific chip type
Chip material:
Aluminium, steel, coloured steels, cast iron
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBF550S	65 dBA
SBF650S	69 dBA
SBF850S	70 dBA
SBF1150S	74 dBA

For position of terminal box, see mechanical features within the technical information section.

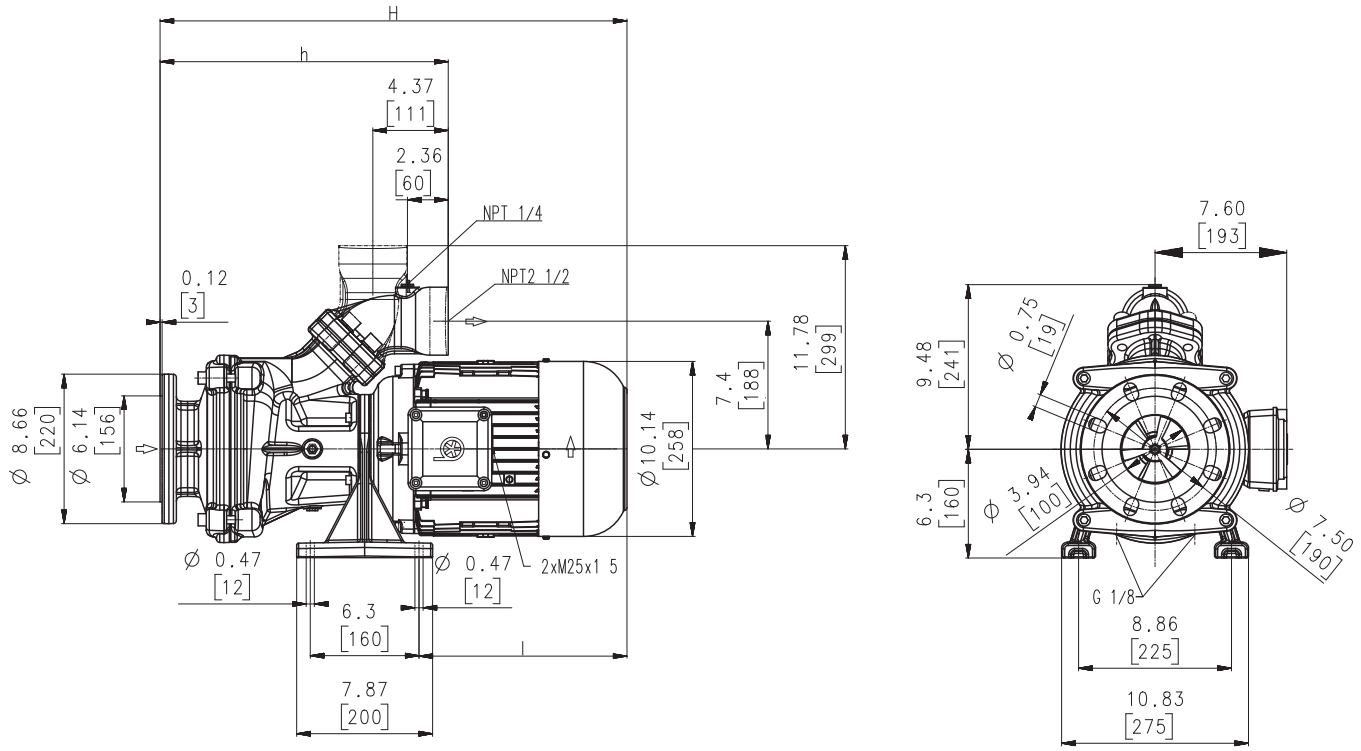


Horizontal End-Suction Pumps
SBF1350S...1850S

Axial/semi-open impellers

60 Hz

SBF1350S...1850S



Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBF1350S	150/46 *600/15*	27.0	*686*	16.7	424	12.0	*305*	203	*92*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
SBF1550S	200/70 *800/21*	31.2	*793*	16.7	424	16.3	*414*	249	*113*	11.5 *8.6*	460	60	14.2	3550
SBF1850S	250/85 *1200/23*	33.2	*843*	16.7	424	16.3	*414*	262	*119*	13.8 *10.3*	460	60	16.9	3550

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank and for pumping **highly air entrained coolant fluids**, such as **water-soluble coolants (emulsions)**, as they occur **in high speed machining applications, such as turning and milling.**
The SBF pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section.

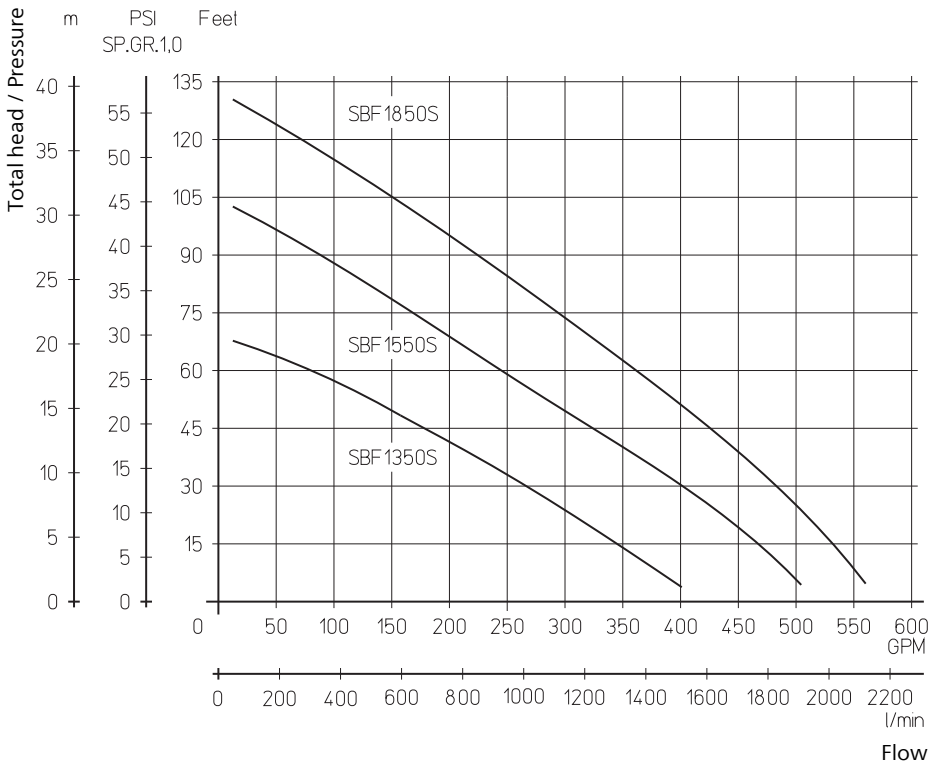
Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
1.0 % depending on the specific chip type
Chip material:
Aluminium, steel, coloured steels, cast iron
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Shaft	steel
Mechanical seal	SiC
Noise level	
SBF1350S	76 dBA
SBF1550S...SBF1850S	78 dBA

For position of terminal box, see mechanical features within the technical information section.

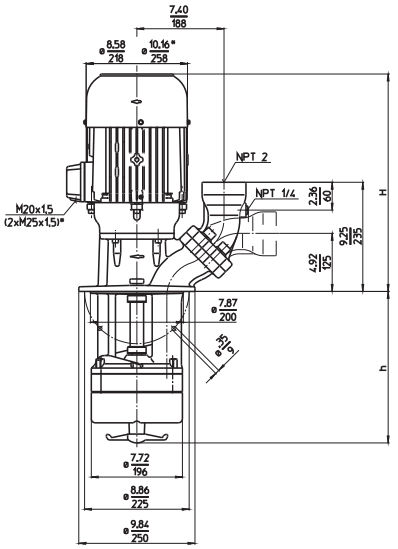


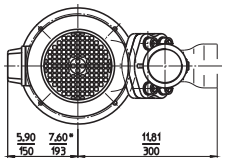
Cutter Pumps
SFC820...2320

Axial/semi-open impellers

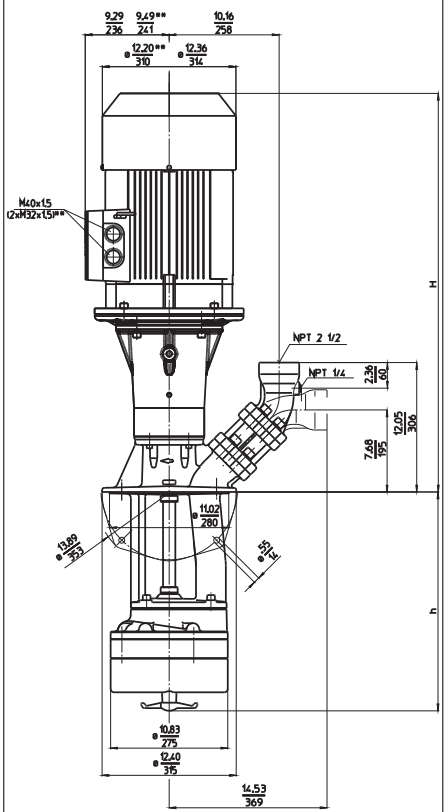
60 Hz

SFC820...1120





SFC1520...2320



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~	Frequency Hz	Current AMPS	Speed RPM
SFC820S290	125/30 *400/10*	19.2 *487*	11.50 *292*	152.1	*69*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
390			15.43 *392*	156.6	*71*					
520			20.55 *522*	161.0	*73*					
640			25.28 *642*	168	*76*					
SFC1120S290	150/36 *500/12*	19.8 *504*	11.50 *292*	201	*91*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
390			15.43 *392*	205	*93*					
520			20.55 *522*	209	*95*					
640			25.28 *642*	216	*98*					
SFC1520S370	200/56 *700/18*	24.1 *612*	14.65 *372*	300	*136*	11.5 *8.6*	460	60	14.2	3550
500			19.76 *502*	304	*138*					
620			24.49 *622*	309	*140*					
SFC1820S370	250/68 *850/23*	24.4 *620*	14.65 *372*	364	*165*	17 *12.6*	460	60	21.5	3560
500			19.76 *502*	370	*168*					
620			24.49 *622*	375	*170*					
SFC2320S400	250/106 *900/32*	38.3 *974*	15.75 *400*	375	*170*	29 *21.3*	460	60	32	3555
530			20.87 *530*	381	*173*					
650			25.59 *650*	388	*176*					

Dimensions in Inches / mm
*) Dimensions SFC1120S
**) Dimensions SFC1820S
Discharge port with NPT 2 inches available upon request.
Dimensions SFC2320 above the flange as with SGL1402

60 Hz

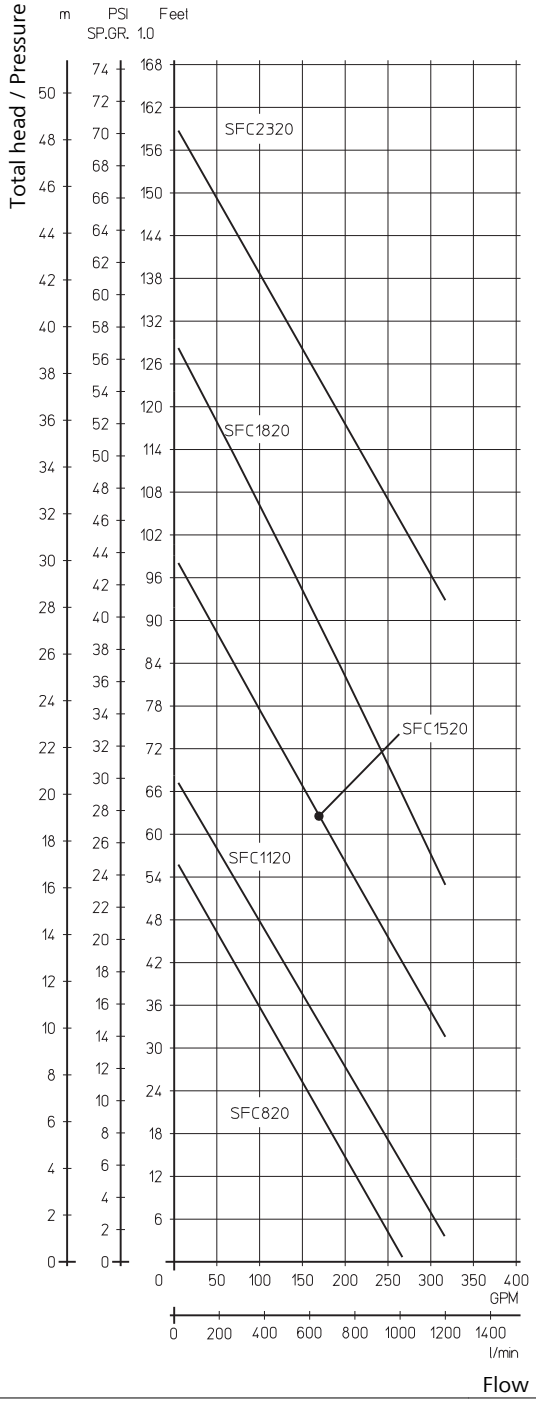
Cutter Pumps

The cutter pumps of the **series SFC** are suited for cutting aluminium chips or similar materials and for pumping these materials along with the coolant fluid. An agitator located at the pump suction helps to break up and separate any large bundles of chips or birds nests which reach the pump suction.
The hardened cutting unit (> 60HRC) is cuting chips and the semi-open impeller with its large clearances allows to pump the particles along with the coolant fluid from the machine back to the filter. The SFC pumps are capable of handling chip to coolant ratios of up to 1.5% by weight.
The SFC pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.
For more information see mechanical features within the technical information section.

For position of terminal box, see mechanical features within the technical information section.

Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
1.5 %
Chip material:
Aluminium
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...175 °F (0...80 °C)



Construction

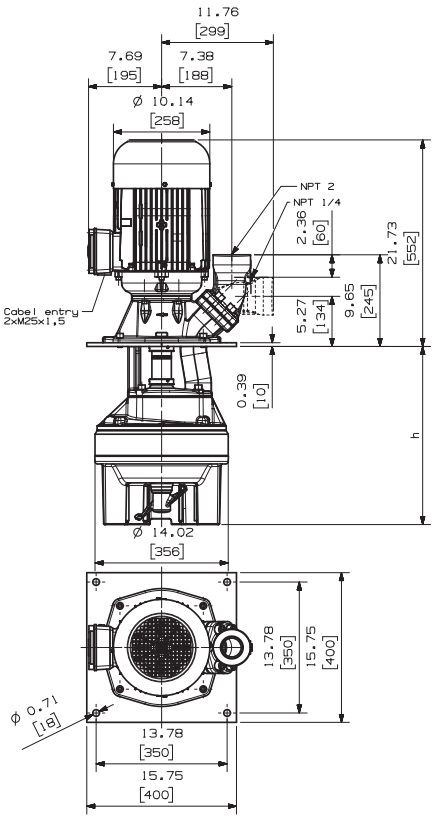
Pump body	cast iron
Cover	cast iron
Impeller radial	cast steel
Cutting unit	Hardened (>60 HRC)
Agitator	Highly ductile
Shaft	steel

Cutter Pumps
SXC2824S

Axial/semi-open impellers

60 Hz

SXC2824S



Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*		Weight Lbs	*kg*	Power (4-pole) HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SXC2824S480	200/45 *750/14*	21.7 *552*	18.74	*476*	384	*174*	7.4 *5.5*	460	60	13	1750
610			23.86	*606*	388	*176*					
730			28.58	*726*	395	*179*					

60 Hz

Cutter Pumps

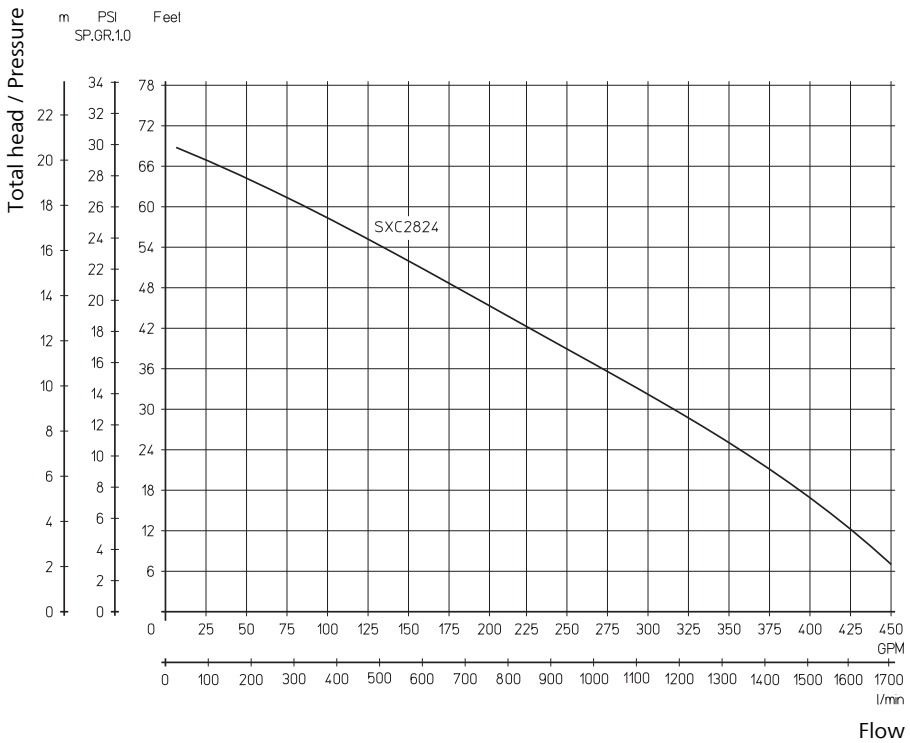
The cutter pumps of the **series SXC** are designed to handle low alloyed steels, machining steel and cast iron / aluminum combinations. Chips can also be in the shape of birds nests or chip bundles, and must be supplied to the suction mouth of the pump. The chips are picked up by the agitator, broken up if necessary, cut, and then delivered by the pump.
The SXC pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.
For more information see lifting pumps features SXC/SPC within the technical information section.

Applications

Types of fluid
coolants
cooling/cutting oils on request
Max. chip to coolant ratio by weight:
1.5 %
Chip material:
Low alloyed steel, machining steel, cast iron/aluminum combinations
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller radial	cast steel
Cutting unit	Hardened (>60 HRC)
Shaft	steel

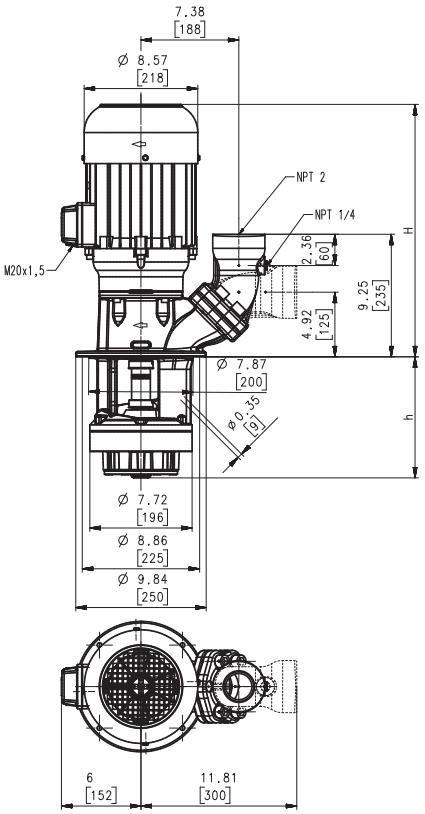


Cutter Pumps
SPC820S

Axial/semi-open impellers

60 Hz

SPC820S



Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SPC820S230	100/32 *400/9.5*	19.2 *487*	9.13 *232*	149.9	*68*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
330			13.07 *332*	154.4	*70*					
460			18.19 *462*	158.8	*72*					

60 Hz

Cutter Pumps

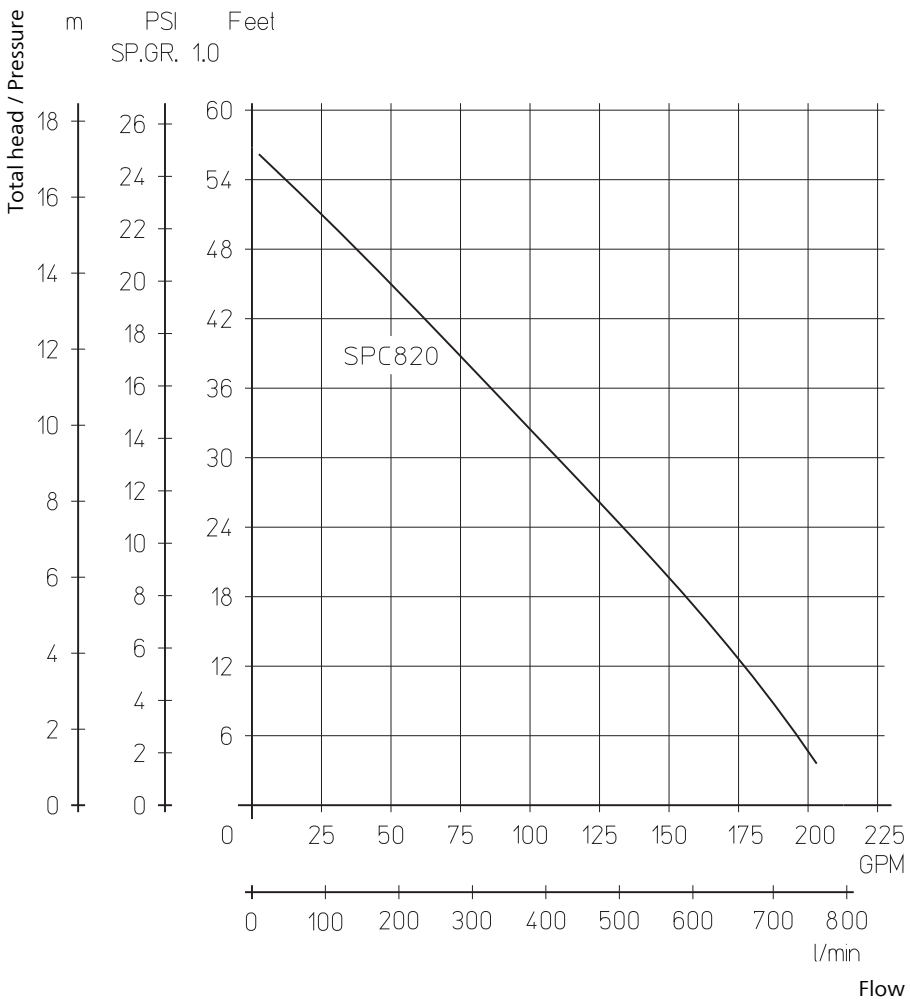
The cutter pumps of the **series SPC** are designed to handle and reliably cut long, stringy plastic chips. The higher number of cutting blades results in an increased cutting frequency of all chips to be consistently cut into small pieces.
The SPC pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.
For more information see lifting pumps features SXC/SPC within the technical information section.

Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
0.3 %
Chip material:
Plastic
Kinematic viscosity
...140 SSU (...30 mm²/s)
Pumping temperature
30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller radial	cast steel
Cutting unit	Hardened (>60 HRC)
Shaft	steel

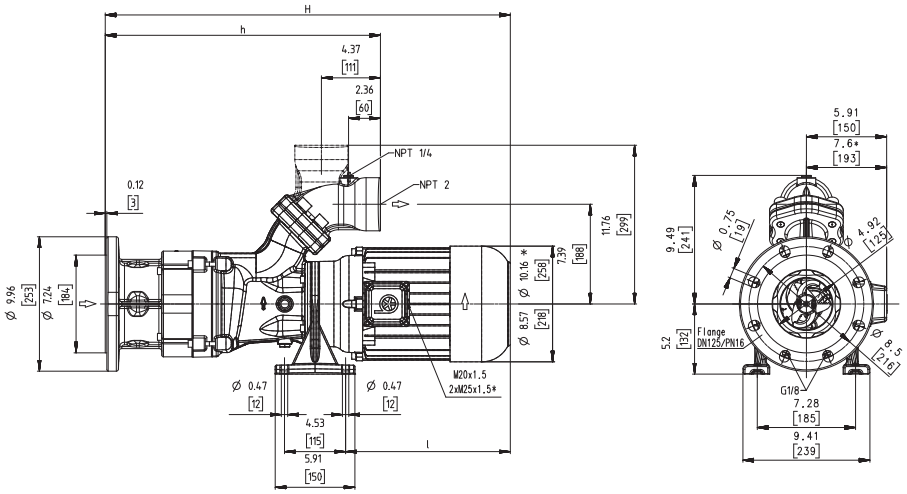


Horizontal End-Suction Pumps
SBC820S...1820S

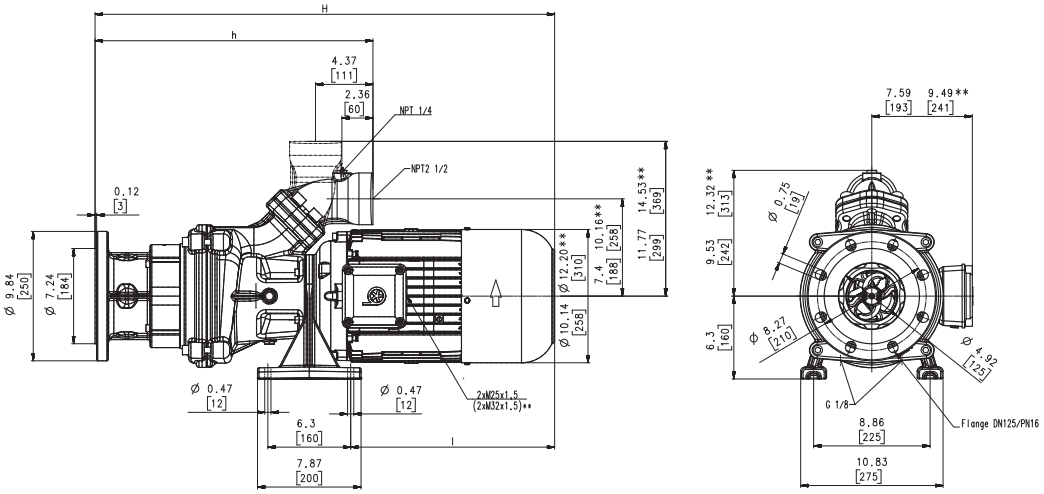
Axial/semi-open impellers

60 Hz

SBC820S...1120S



SBC1520S...1820S



Dimensions in Inches / mm; *) Dimensions SBC1120S
**) Dimensions SBC1820S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	h inch	h mm	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
SBC820S	125/30 *480/9*	30.0	*761*	20.4	518	12.2	*309*	156.6	*71*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
SBC1120S	175/30 *690/9*	30.7	*780*	20.4	518	12.9	*328*	205	*93*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
SBC1520S	200/49 *800/14.5*	35.7	*906*	21.1	537	16.3	*414*	304	*138*	11.5 *8.6*	460	60	14.2	3550
SBC1820S	225/67 *900/19.5*	36.0	*915*	23.9	608	16.6	*422*	370	*168*	17 *12.6*	460	60	21.5	3560

60 Hz

Horizontal End-Suction Pumps

are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.

This pump series is designed for horizontal installations next to a tank and are capable of cutting aluminium chips and similar materials and pumping of these materials along with the coolant fluid. An agitator located at the pump suction helps to break up and separate any large bundles of chips or birds nests which reach the pump suction.
The hardened cutting unit (> 60 HRC) is cuting chips and the above located semi-open impeller allows with its large clearances to pump the particles along with the coolant fluid from the machine back to the filter.
The SBC pumps are capable of handling chip to coolant ratios of up to 1.5% by weight.
The SBC pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge with NPT 1/4.
For more information see mechanical features within the technical information section (SFC/SBC).

For position of terminal box, see mechanical features within the technical information section.

Applications

Types of fluid
- coolants
- cooling/cutting oils on request

Max. chip to coolant ratio by weight:
- 1.5 %

Chip material:
- Aluminium

Chip geometry:
- Chip bundles to max. Ø 3.94 Inch (100 mm)

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

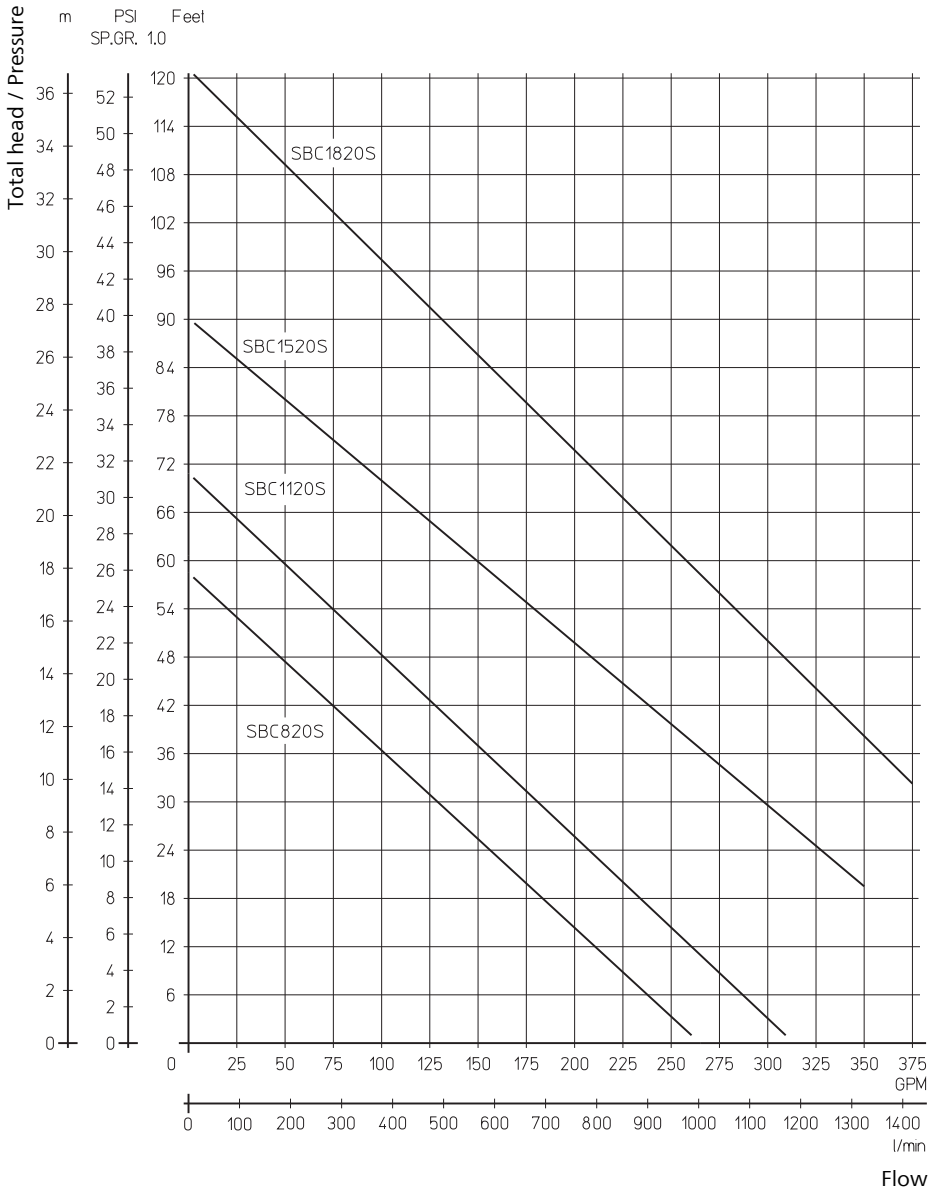
Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller axial	cast steel
Impeller radial	cast steel
Cutting unit	Hardened (>60 HRC)
Agitator	Highly ductile
Shaft	steel
Mechanical seal	SiC

Noise level

SBC820S...SBC1120S	76 dBA
SBC1520S	78 dBA
SBC1820S	79 dBA

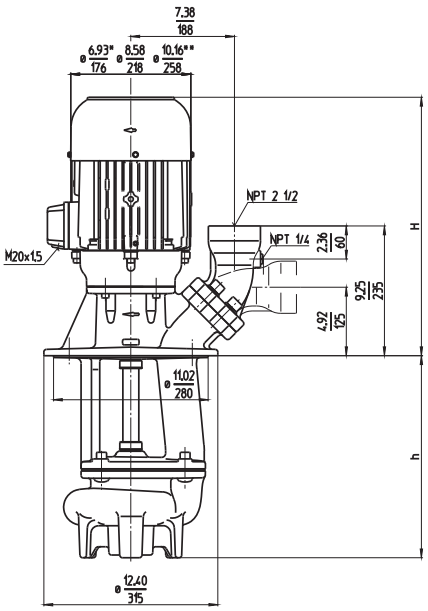


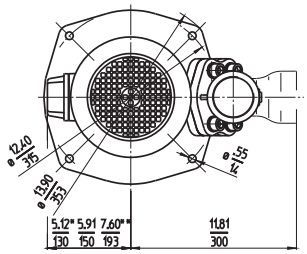
Vortex Pumps
SFT450...1100

Semi-open impellers

60 Hz

SFT450, 710
SFT1100





Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm
*) Dimensions SFT450
**) Dimensions SFT1100

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~	Frequency Hz	Current AMPS	Speed RPM
SFT450S300	150/17 *600/5*	16.5 *419*	11.81 *300*	156.6	*71*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
430			16.93 *430*	163	*74*					
550			21.65 *550*	168	*76*					
800			31.50 *800*	207	*94*					
1050			41.34 *1050*	218	*99*					
SFT710S300	225/17 *900/5*	18.4 *468*	11.81 *300*	172	*78*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
430			16.93 *430*	179	*81*					
550			21.65 *550*	183	*83*					
800			31.50 *800*	223	*101*					
1050			41.34 *1050*	234	*106*					
SFT1100S300	300/17 *1150/5*	19.8 *504*	11.81 *300*	201	*91*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
430			16.93 *430*	207	*94*					
550			21.65 *550*	212	*96*					
800			31.50 *800*	254	*115*					
1050			41.34 *1050*	267	*121*					

60 Hz

Vortex Pumps

series SFT are designed to **lift coolant** for filtering. **Coarse shreds** can be transported together with liquids.
The pump inlet and pump discharge port have the same dimensions.
The SFT pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Max. chip to coolant ratio by weight:
- 1.5 %

Chip material:
- Aluminium, steel, coloured steels

Chip geometry:
- Flow chips up until 3.15 inch (80 mm) long

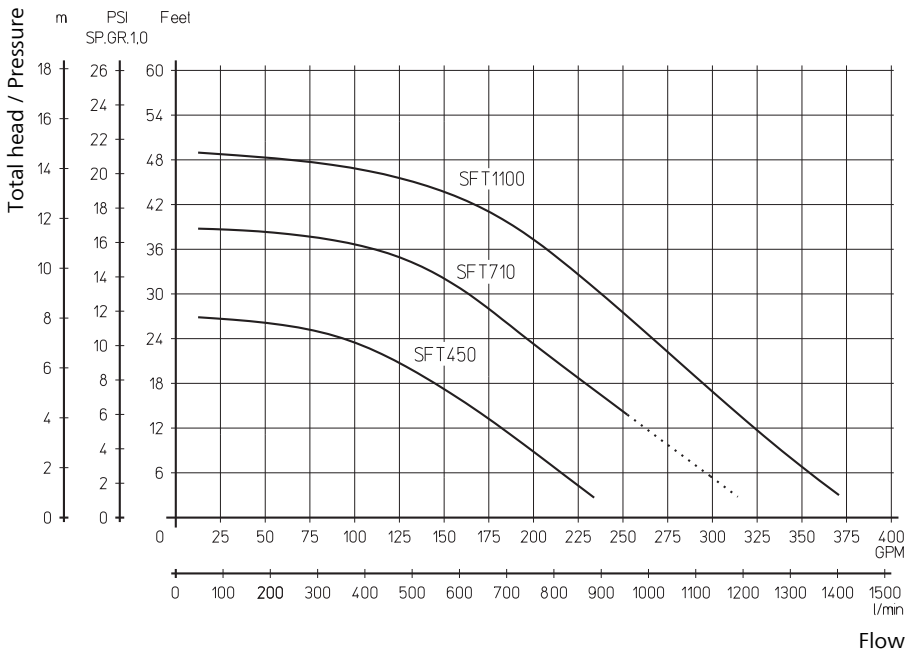
Kinematic viscosity
- ...140 SSU (...30 mm²/s)
- On request
- higher viscosity

Pumping temperature
- 30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	special cast iron
Impeller	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

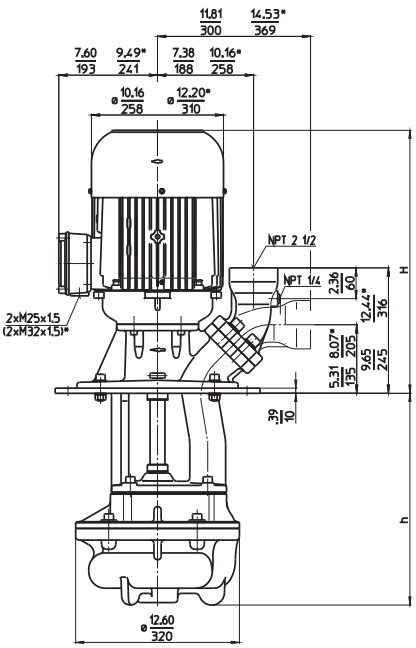


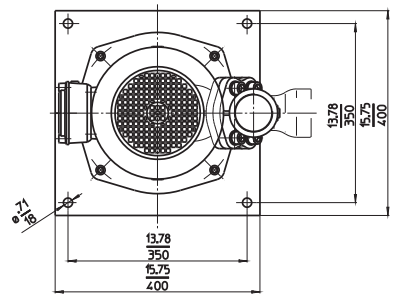
Vortex Pumps
SFT1300...1400

Semi-open impellers

60 Hz

SFT1300, 1350
SFT1400





Dimensions in Inches / mm
*) Dimensions SFT1400

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SFT1300S360	200/36 *800/10*	20.2 *514*	14.29 *363*	313	*142*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
490			19.41 *493*	324	*147*					
610			24.13 *613*	333	*151*					
SFT1350S360	200/50 *800/15*	24.1 *612*	14.29 *363*	366	*166*	13.8 *10.3*	460	60	16.9	3550
490			19.41 *493*	377	*171*					
610			24.13 *613*	386	*175*					
SFT1400S360	200/65 *800/19*	24.4 *620*	14.29 *363*	419	*190*	17 *12.6*	460	60	21.5	3560
490			19.41 *493*	430	*195*					
610			24.13 *613*	439	*199*					

60 Hz

Vortex Pumps

series SFT are designed to **lift coolant** for filtering. **Coarse shreds** can be transported together with liquids.
The pump inlet and pump discharge port have the same dimensions.
The SFT pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Max. chip to coolant ratio by weight:
- 1.5 %

Chip material:
- Aluminium, steel, coloured steels

Chip geometry:
- Flow chips up until 3.15 inch (80 mm) long

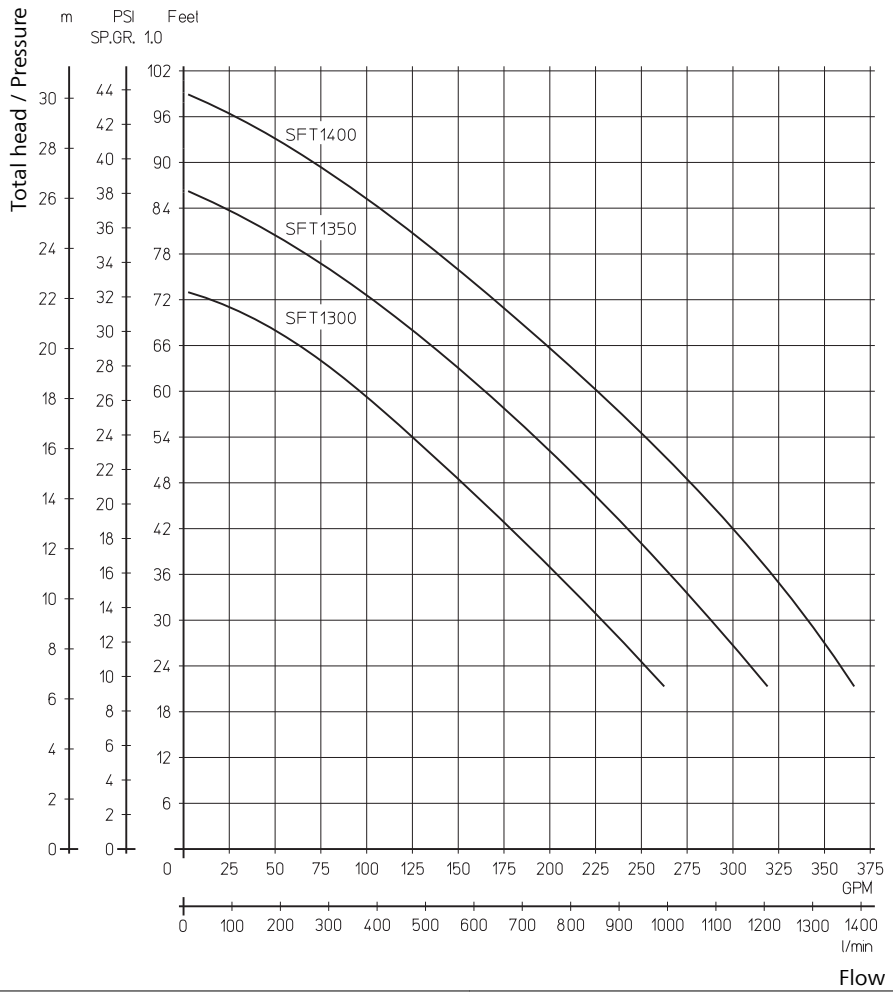
Kinematic viscosity
- ...140 SSU (...30 mm²/s)
- On request higher viscosity

Pumping temperature
- 30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	special cast iron
Impeller	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

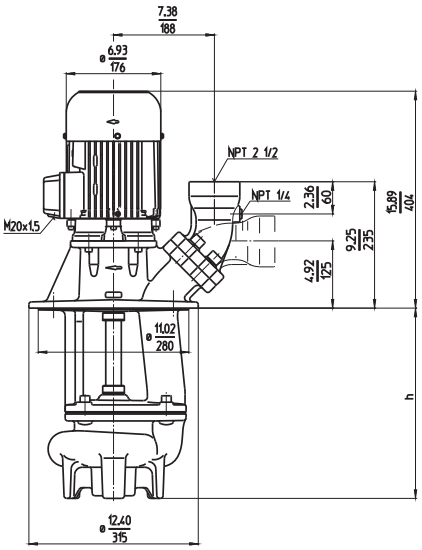


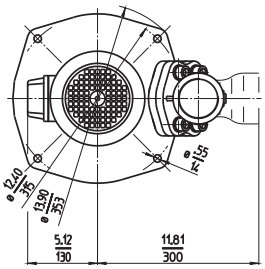
Vortex Pumps
SFT1100-4

Semi-open impellers

60 Hz

SFT1100-4





Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power (4-pole) HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SFT1100S300-4	50/15 *300/4*	15.9 *404*	11.81 *300*	138.9	*63*	2.1 *1.55*	208-230 460	60 60	3.5 7.0	1750 1750
550-4			21.65 *550*	149.9	*68*					
800-4			31.50 *800*	172	*78*					
1050-4			41.34 *1050*	183	*83*					

BRINKMANN PUMPS

60 Hz

Vortex Pumps

series SFT are designed to **lift coolant** for filtering. **Coarse shreds** can be transported together with liquids.
The pump inlet and pump discharge port have the same dimensions.
The SFT pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

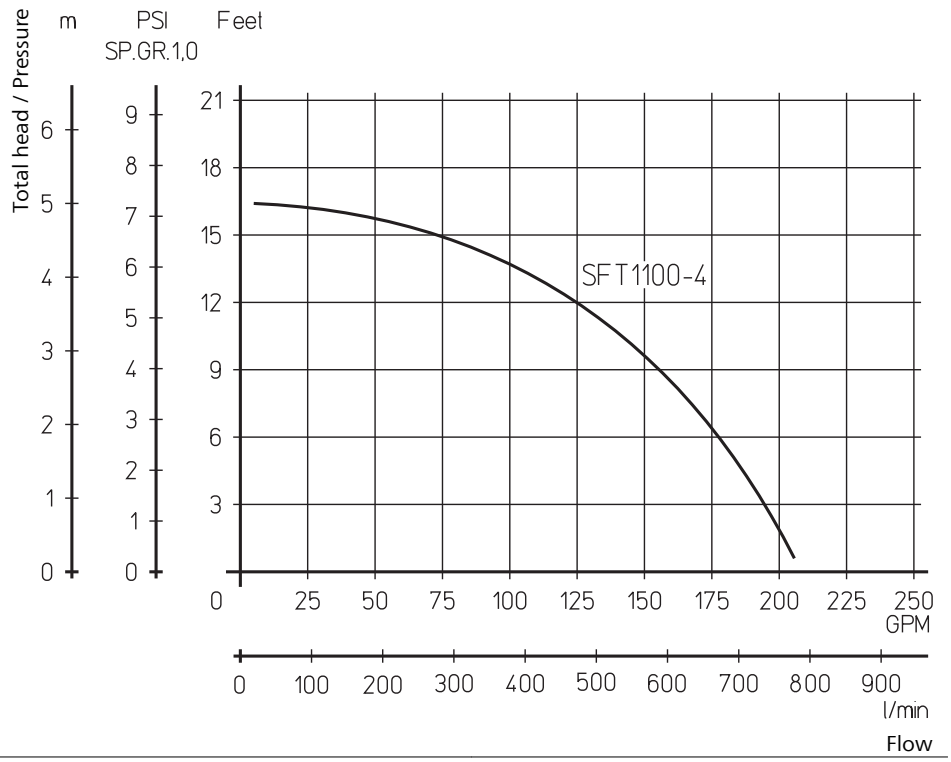
Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
1.5 %
Chip material:
Aluminium, steel, coloured steels
Chip geometry:
Flow chips up until 3.15 inch (80 mm) long
Kinematic viscosity
...140 SSU (...30 mm²/s)
On request
higher viscosity
Pumping temperature
30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	special cast iron
Impeller	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

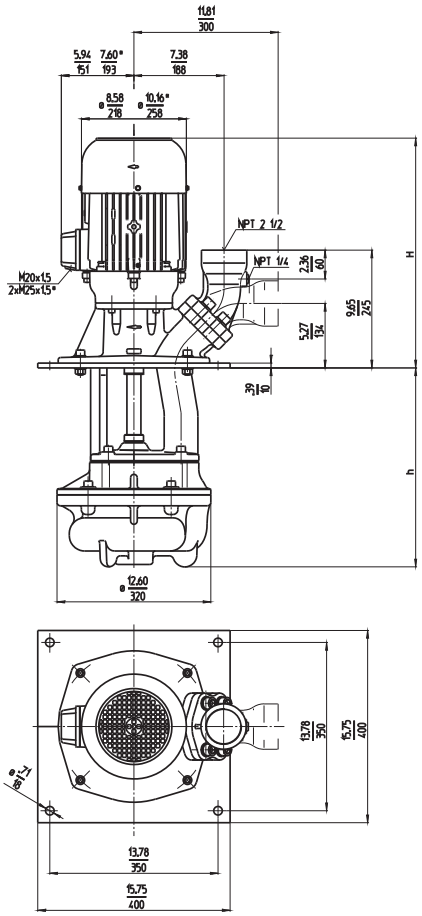


Free Flow-Immersion Pumps
SFT1554...1584-C

Semi-open impellers

60 Hz

SFT1554, 1584-C



Discharge port with NPT 2 inches available upon request.
Dimensions in Inches / mm
*) Dimensions SFT1584-C

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*		Weight Lbs	*kg*	Power (4-pole) HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SFT1554S360-C	150/54	18.4	14.29	*363*	249	*113*	5	208-230	60	12.6	1725
	600/16	*468*					*3.7*	460	60	6.3	1725
490-C			19.41	*493*	254	*115*					
SFT1584S360-C	300/40	21.3	14.29	*363*	313	*142*	9.9	208-230	60	29.2	1750
	1200/11	*542*					*7.4*	460	60	14.6	1750
490-C			19.41	*493*	318	*144*					

60 Hz

Free Flow-Immersion Pumps

series SFT are provided to **lift coolant** for filtering. **Coarse shreds** can be transported together with liquids.
The pump inlet and pump discharge port have the same dimensions.
Cantilever construction. **Half speed.**

The SFT pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

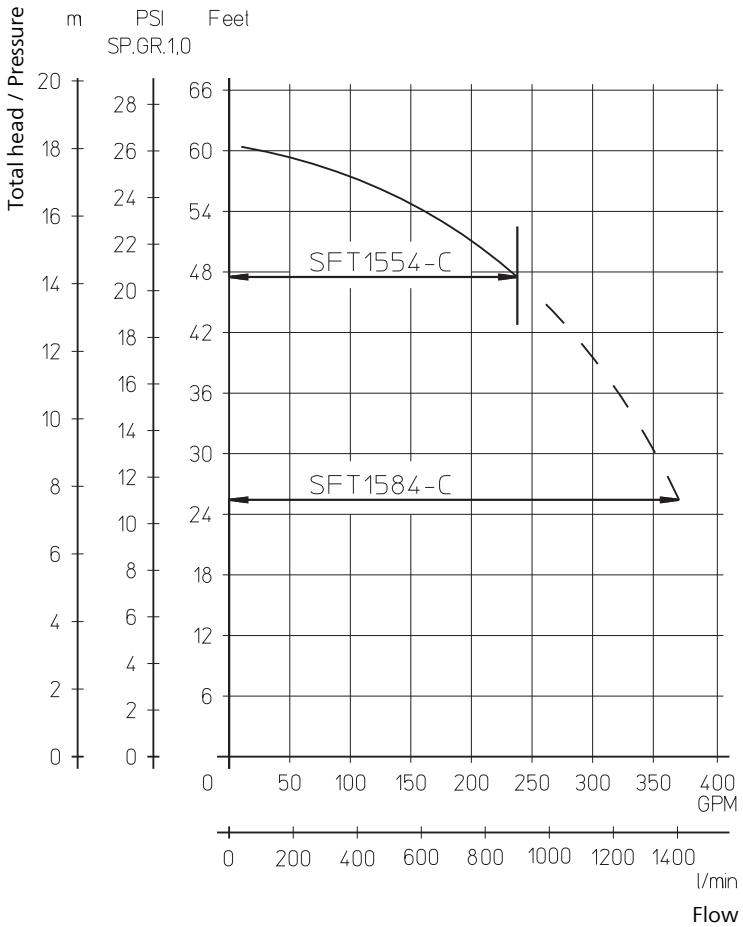
Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
1.5 %
Chip material:
Aluminium, steel, coloured steels
Chip geometry:
Flow chips up until 3.15 inch (80 mm) long
Kinematic viscosity
...66 SSU (...12 mm²/s)
Pumping temperature
30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	special cast iron
Impeller	cast steel
Shaft	steel

For position of terminal box, see mechanical features within the technical information section.

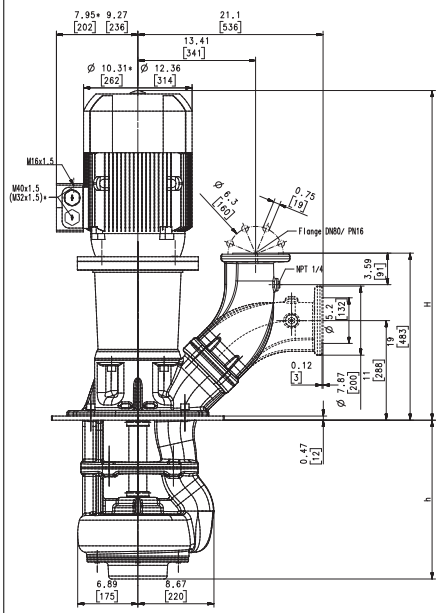


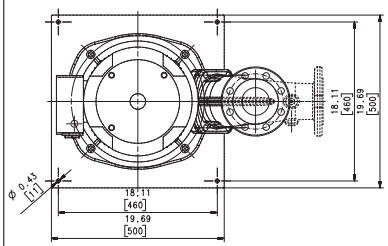
Vortex Pumps
SFT2254...3554

Semi-open impellers

60 Hz

SFT2254...3554





Dimensions in Inches / mm
*) Dimensions SFT2254

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*		Weight Lbs	*kg*	Power (4-pole) HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SFT2254S460	300/42 *1125/13*	33.5 *851*	18.11	*460*	481	*218*	11.5 *8.6*	460	60	13.8	1765
660			25.98	*660*	503	*228*					
860			33.86	*860*	525	*238*					
1210			47.64	*1210*	646	*293*					
1610			63.39	*1610*	690	*313*					
SFT3054S460	450/42 *1700/13*	38.0 *964*	18.11	*460*	520	*236*	17 *12.6*	460	60	20	1775
660			25.98	*660*	542	*246*					
860			33.86	*860*	564	*256*					
1210			47.64	*1210*	686	*311*					
1610			63.39	*1610*	730	*331*					
SFT3554S460	550/42 *2100/13*	39.5 *1004*	18.11	*460*	589	*267*	23 *17.3*	460	60	28	1775
660			25.98	*660*	611	*277*					
860			33.86	*860*	633	*287*					
1210			47.64	*1210*	754	*342*					
1610			63.39	*1610*	798	*362*					

BRINKMANN PUMPS

60 Hz

Vortex Pumps

series SFT are provided to **lift coolant** for filtering. **Coarse shreds** can be transported together with liquids.
The pump inlet and pump discharge port have the same dimensions.
Half speed.

The SFT pumps are equipped with the user-friendly 45 degree **flange** connection which allows for either vertical or horizontal pipe connection and the connection of a pressure gauge.

Applications

Types of fluid
- coolants
- cooling/cutting oils

Max. chip to coolant ratio by weight:
- 1.5 %

Chip material:
- Aluminium, steel, coloured steels

Chip geometry:
- Flow chips up until 3.15 inch (80 mm) long
- The max. ball diameter is 1.77 inch (45 mm)

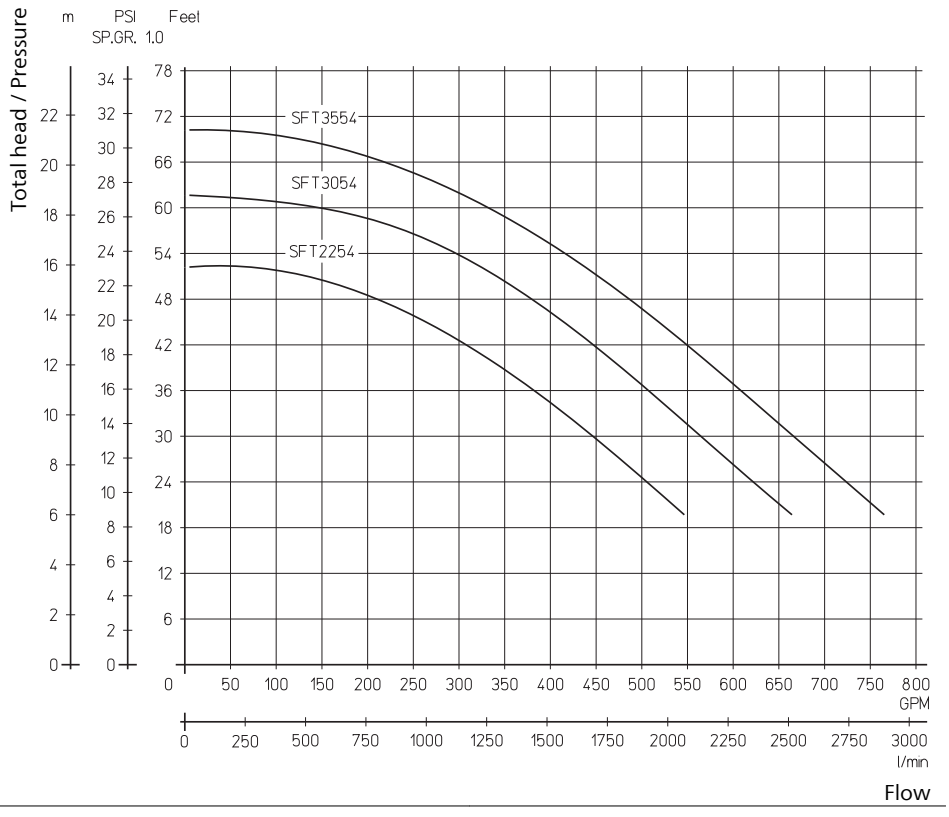
Kinematic viscosity
- ...66 SSU (...12 mm²/s)

Pumping temperature
- 30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller	cast steel
Shaft	steel
Optional:	
Impeller	CrMo-steel

For position of terminal box, see mechanical features within the technical information section.

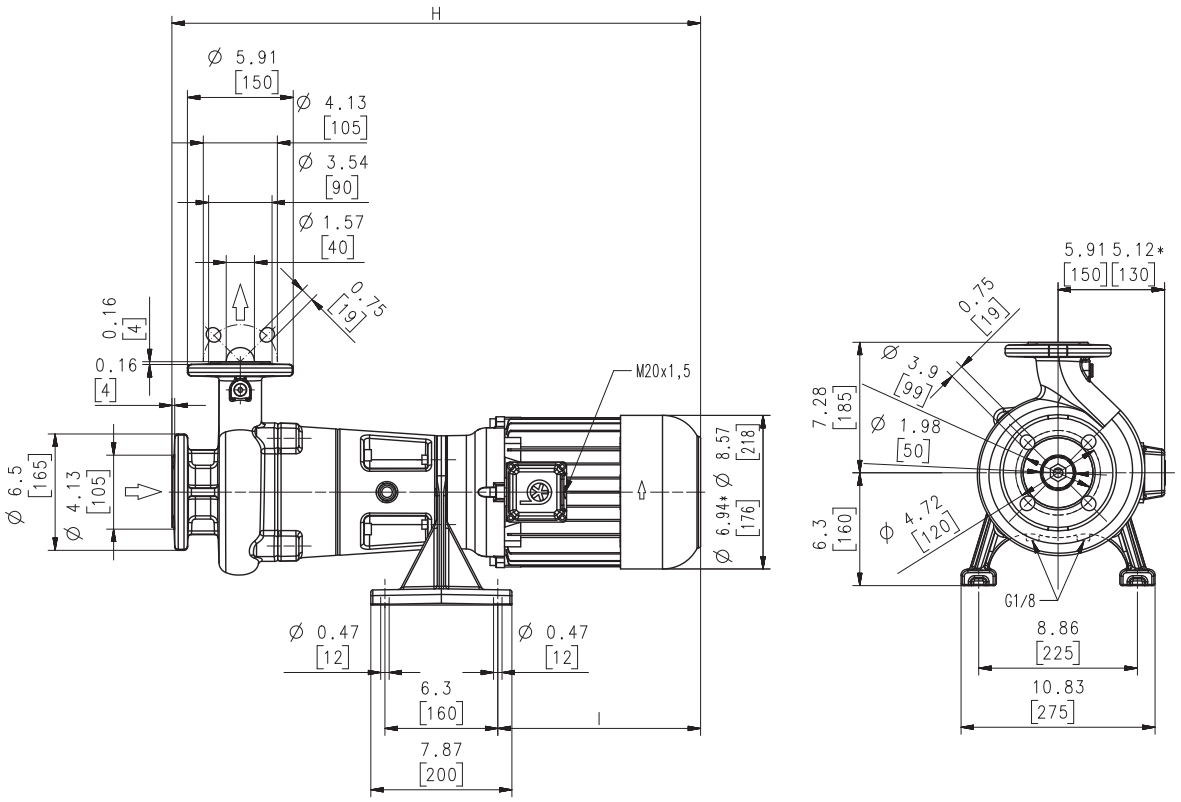


Horizontal End-Suction Pumps
BFT750S...1250S

Semi-open impellers

60 Hz

BFT750S...1250S



Dimensions in Inches / mm
*) Dimensions BFT750S

Type	Flow at head GPM /Feet *l/min /m*	Dimensions H inch	*H mm*	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Fre-quen-cy Hz	Current AMPS	Speed RPM
BFT750S	125/28	27.4	*697*	9.3	*235*	130.1	*59*	3.5	208-230	60	12.6	3400
	400/11							*2.6*	460	60	6.3	3400
BFT1250S	175/34	28.8	*731*	10.6	*269*	158.8	*72*	5.4	208-230	60	19.0	3450
	600/12							*4.0*	460	60	9.5	3450

60 Hz

Horizontal End-Suction Pumps

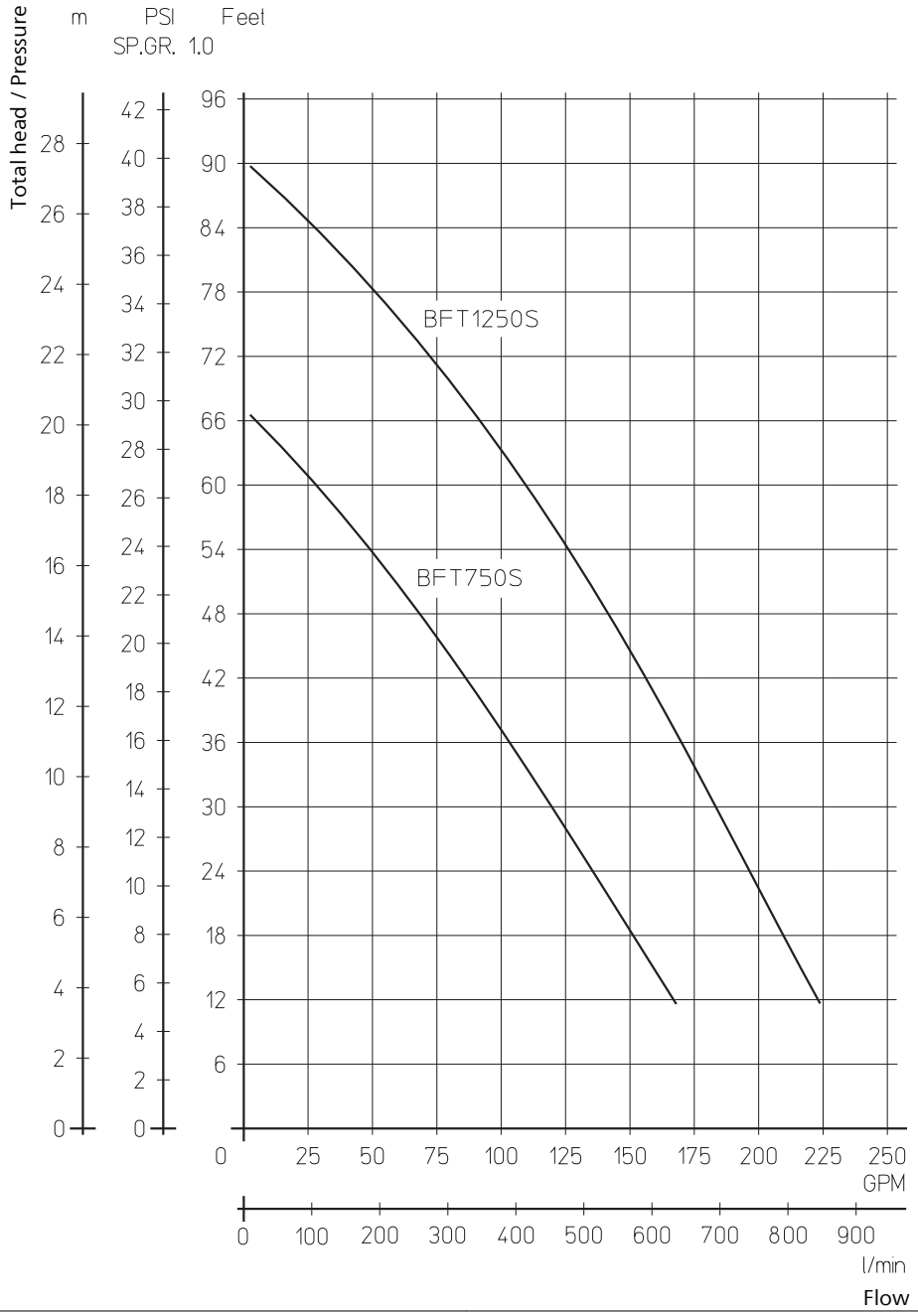
are centrifugal inline pumps with a compact design where the impeller is mounted onto the extended motor shaft.
These pumps are not self-priming and must be gravity fed. All pumps are equipped with a single mechanical seal.
Upon request a second mechanical seal is available to allow for dry-running (-GD).
This pump series is designed for horizontal installations next to a tank.
Series BFT are designed **to lift coolant** for filtering. **Coarse shreds** can be transported together with liquids..
For more information see lifting pumps features SFT/BFT within the technical information section.

Applications

Types of fluid
coolants
cooling/cutting oils
Max. chip to coolant ratio by weight:
1.5 %
Chip material:
Aluminium, steel, coloured steels
Chip geometry:
The max. ball diameter is 35 mm
Kinematic viscosity
...140 SSU (...30 mm²/s)
Pumping temperature
30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impeller	cast steel
Shaft	steel
Mechanical seal	SiC

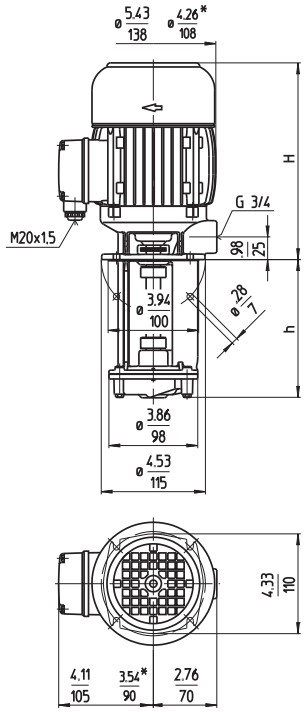


Immersion Pumps
TS12...24

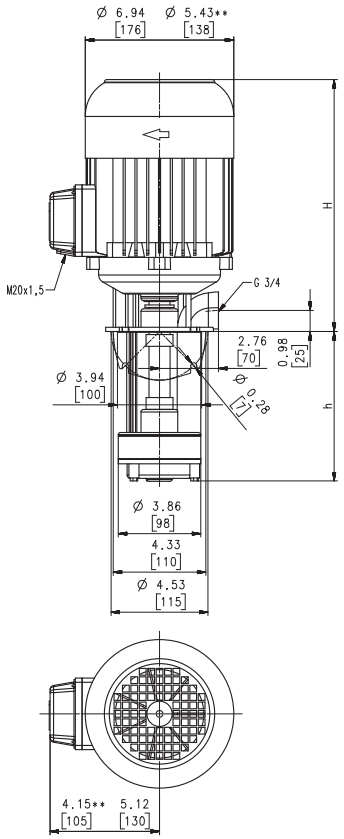
Peripheral impellers

60 Hz

TS12, 13, 21, 22



TS15, TS24



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch	*h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
TS12S110	5/45	7.0	4.33	*110*	11.9	*5.4*	0.36	208-230	60	1.26	3300
	20/14	*178*					*0.27*	460	60	0.63	3300
150			5.91	*150*	12.3	*5.6*					
190			7.48	*190*	12.8	*5.8*					
250			9.84	*250*	13.5	*6.1*					
300			11.81	*300*	14.3	*6.5*					
TS13S110	5/74	8.3	4.33	*110*	13.9	*6.3*	0.54	208-230	60	1.8	3200
	20/23	*211*					*0.4*	460	60	0.9	3200
150			5.91	*150*	14.3	*6.5*					
190			7.48	*190*	14.8	*6.7*					
250			9.84	*250*	15.4	*7.0*					
300			11.81	*300*	16.3	*7.4*					
TS15S190	5/125	10.0	7.48	*190*	26.9	*12.2*	1.5	208-230	60	5.8	3300
	20/35	*255*					*1.1*	460	60	2.9	3300
220			8.66	*220*	27.8	*12.6*					
TS21S110	5/90	8.5	4.33	*110*	17.2	*7.8*	0.85	208-230	60	3.0	3250
	20/27	*217*					*0.63*	460	60	1.5	3250
150			5.91	*150*	17.6	*8.0*					
190			7.48	*190*	18.1	*8.2*					
250			9.84	*250*	18.7	*8.5*					
300			11.81	*300*	19.6	*8.9*					
350			13.78	*350*	20.5	*9.3*					
TS22S110	5/125	9.3	4.33	*110*	21.4	*9.7*	1.25	208-230	60	5.4	3300
	20/38	*235*					*0.92*	460	60	2.7	3300
150			5.91	*150*	21.8	*9.9*					
190			7.48	*190*	22.3	*10.1*					
250			9.84	*250*	22.9	*10.4*					
300			11.81	*300*	23.8	*10.8*					
350			13.78	*350*	24.7	*11.2*					
TS24S140	10/124	11.8	5.51	*140*	44.1	*20*	2.3	208-230	60	8.2	3400
	40/36	*300*					*1.7*	460	60	4.1	3400
180			7.09	*180*	46.3	*21*					
220			8.66	*220*	48.5	*22*					

Dimensions in Inches / mm
*) Dimensions TS12, 13
**) Dimensions TS15

60 Hz

Immersion Pumps

models **TS12 to TS24** are suitable for **CNC machine tools** featuring coolant supply through the tool holder or driving spindle. The TS series is also used for machines equipped with internally cooled tools.
TS pumps are equipped with a peripheral impeller to achieve a compact high pressure unit.
Series TS are suitable for filtered coolant only.
To reduce pump pressure, model TS22 to TS24 is also available with an optional Y/YY (Dahlander) motor configuration for 4 pole operation at half speed.

Special versions of the pumps can be supplied for use with temperature controlling systems carrying thermal oils of up to 300 °F (150 °C) resp. 390 °F (200 °C).

For position of terminal box, see mechanical features within the technical information section.

Applications

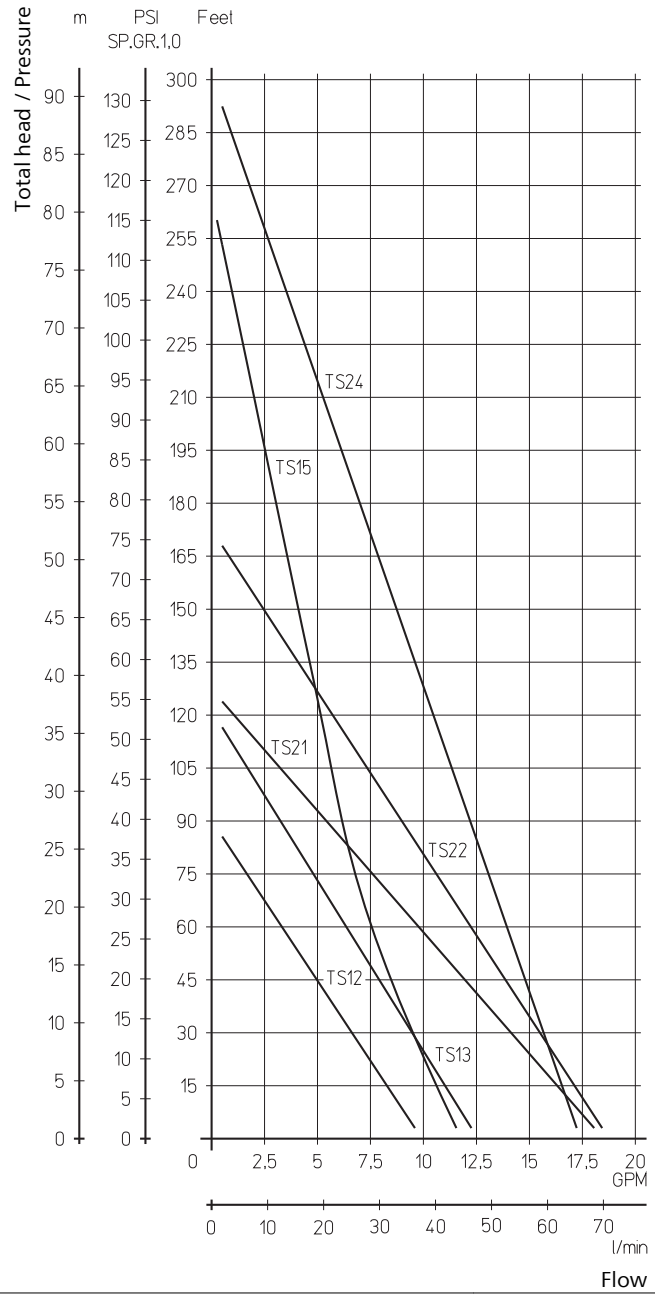
Types of fluid
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)
- 300 °F (150° C) as special make

Construction

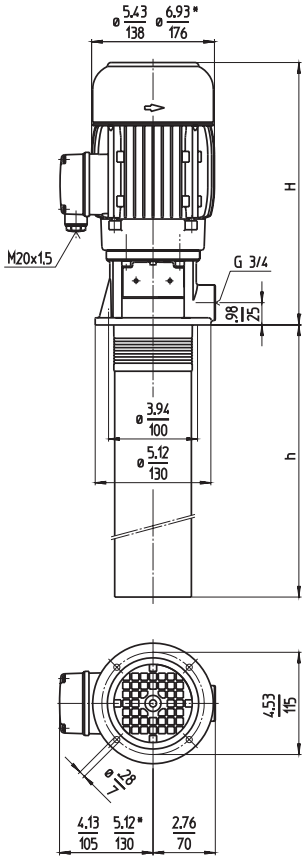
Pump body	cast iron
Cover	cast iron
Impellers	brass
Shaft	steel
Optional:	
Pump body	bronze (TS12...TS13, TS21...TS22)
Cover	bronze (TS12...TS13, TS21...TS22)
Impellers	CrNi-steel (TS12...TS22)
Noise level	
TS12...TS13	61 dBA
TS15...TS22	68 dBA
TS24	74 dBA



Immersion Pumps
(S)TC25
Closed impellers

BRINKMANN PUMPS

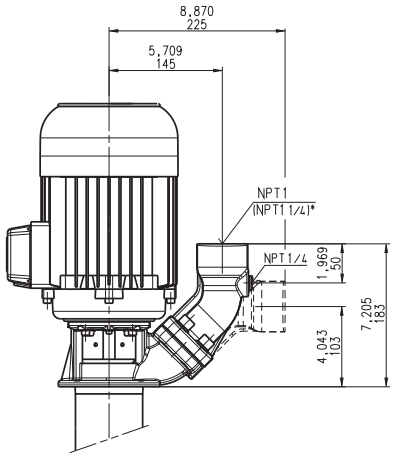
TC25



Dimensions in Inches / mm
*) Dimensions for TC25/810

Type	Flow at head GPM / Feet *l/min. / m*	Height H Inch *mm*	Depth of immersion h Inch	*mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 Phase V	Frq Hz	Rated current AMPS	Speed RPM
(S)TC25/260	2.5/95	10.9	10.24	*260*	20.9	*9.5*	0.5	220-240	50	1.75	2750
	10/28	*276*					*0.38*	380-420	50	1.0	2750
								460	60	1.0	3250
(S)TC25/340	2.5/150	10.9	13.19	*335*	25.4	*11.5*	0.67	220-240	50	2.42	2800
	10/45	*276*					*0.5*	380-420	50	1.4	2800
								460	60	1.4	3300
(S)TC25/430	2.5/210	10.9	16.93	*430*	27.6	*12.5*	0.85	220-240	50	2.6	2750
	10/63	*276*					*0.63*	380-420	50	1.5	2750
								460	60	1.5	3250
(S)TC25/550	2.5/285	12.36	22.24	*565*	34.2	*1 5.5*	1.5	220-240	50	5.0	2700
	10/85	***314***					*1.1*	380-420	50	2.9	2700
								460	60	2.9	3300
(S)TC25/805	2.5/375	12.36	31.89	*810*	40	*1 8*	1.5	220-240	50	5.0	2700
	10/110	***314***					***1.1***	380-420	50	2.9	2700
								460	60	2.9	3300
(S)TC25/810	2.5/470	13.3	31.89	*810*	50.7	*23*	1.75	220-240	50	5.2	2850
	10/140	*337*					*1.3*	380-420	50	3.0	2850
								460	60	3.0	3400

Longer pump lengths and **threaded inlets** are available upon request. Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.



45 degree SAE Flanges for STC Pumps

Upon request all TC pumps are also available with an optional SAE flange. The flange allows for either vertical or horizontal pipe connection and includes a NPT 1/4 pressure gauge connection port.
A surcharge applies for pumps ordered with SAE flange.

*) Dimensions STC160

Our multistage pump models TC25...TC160 have been especially developed to supply **internally cooled tools** with coolant.
Closed impellers provide optimal hydraulic efficiencies while minimizing power consumption.
For alternating machining using **internally** and **externally cooled tools,** these models are available with Y/YY-configured **pole-changing motor** (Dahlander) for optional changeover to **half speed** operation.
A frequency alternator can be supplied for **special applications** or for matching the pump characteristic to a specific duty point. See page "Control/Regulation" in the Technical Information section of this catalog for further information.

For position of terminal box, see mechanical features within the technical information section.

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Applications

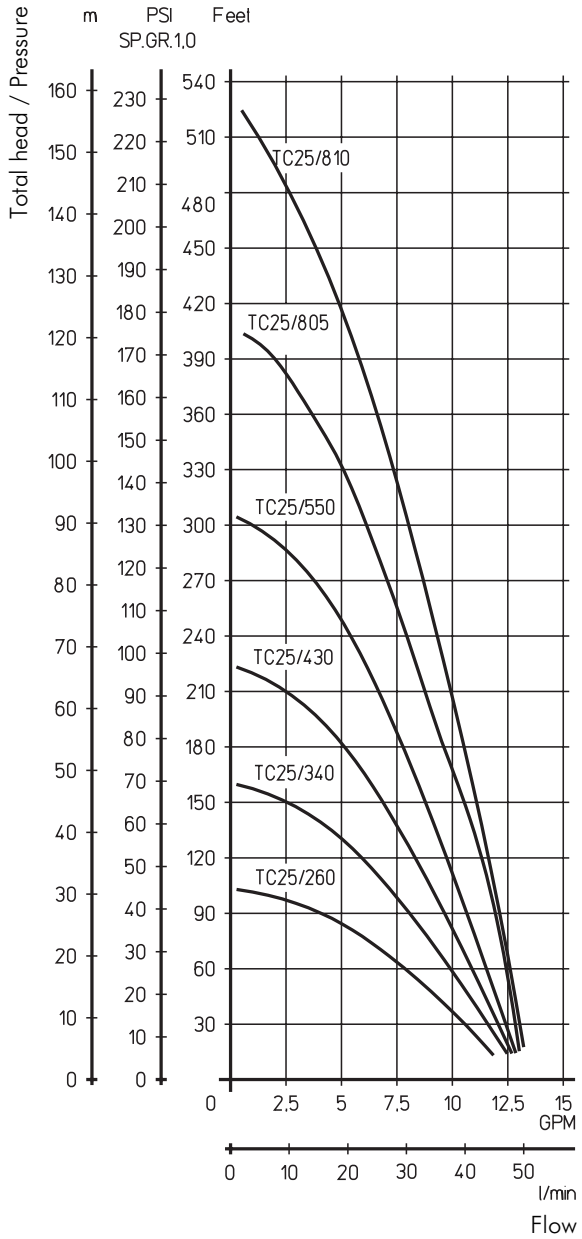
Types of fluid
- Industry water
- coolant
- cooling/cutting oils

Kinematical viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...140 °F (0...60 °C)

Materials of construction

Pump body	cast iron
Pump shell	steel
Shafts	steel
Impellers + covers	PBTP
Intake strainer	steel
Mechanical seal	SiC
O-rings	Viton®
Optional:	
Pole-changing motor	4 - 2 poles
Pump body	bronze CrNi-steel
Noise level	
TC25/260 - 805	58 dBA
TC25/810	63 dBA

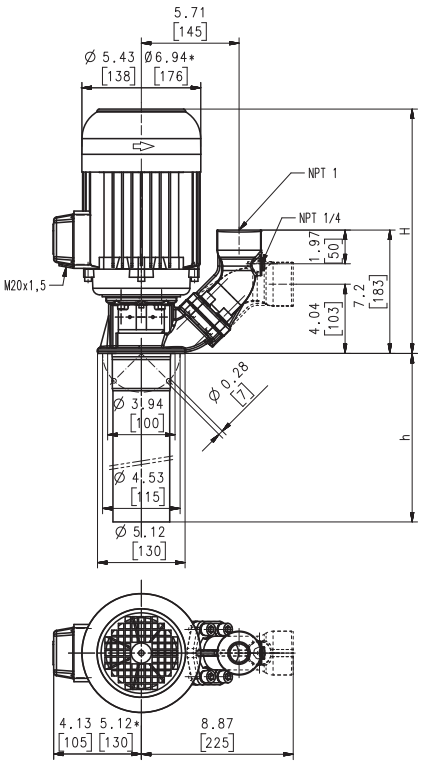


Immersion Pumps
(S)TC40

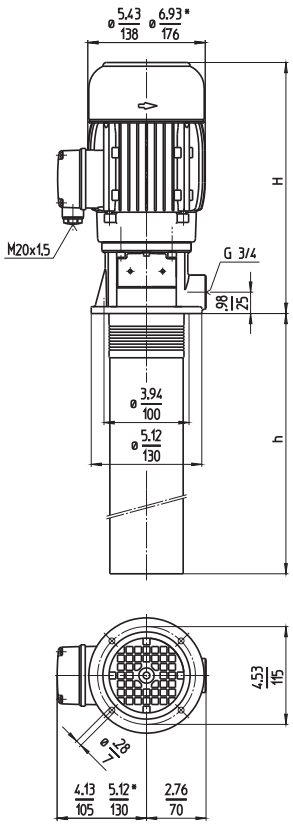
Closed impellers

60 Hz

STC40



TC40



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
(S)TC40S260	5/142	10.9	10.24 *260*	24.3	*11*	0.75	208-230	60	2.70	3250
	20/42	*276*				*0.55*	460	60	1.45	3250
(S)TC40S340	5/220	11.6	13.19 *335*	28.7	*13*	1.15	208-230	60	5.2	3300
	20/66	*294*				*0.85*	460	60	2.5	3300
(S)TC40S430	5/320	13.3	16.93 *430*	48.5	*22*	2	208-230	60	7.6	3400
	20/96	*337*				*1.5*	460	60	3.8	3400
(S)TC40S550	5/430	13.3	21.65 *550*	50.7	*23*	2.3	208-230	60	8.2	3400
	20/127	*337*				*1.7*	460	60	4.1	3400
(S)TC40S720	5/615	15.2	28.35 *720*	63.9	*29*	3.5	208-230	60	12.6	3400
	20/182	*387*				*2.6*	460	60	6.3	3400

Dimensions in Inches / mm
*) Dimensions for (S)TC40S430...720

60 Hz

Immersion Pumps

models (S)TC40...(S)TC160 have been especially developed to supply **internally cooled tools** with coolant.
Closed impellers provide optimal hydraulic efficiencies while minimizing power consumption.
For alternating machining using **internally** and **externally cooled tools,** these models are available with Y/YY-configured **pole-changing motor** (Dahlander) for optional changeover to **half speed** operation.
A frequency alternator can be supplied for **special applications** or for matching the pump characteristic to a specific duty point. See page "Control/Regulation" in the Technical Information section of this catalog for further information.

Longer pump lengths and **threaded inlets** are available upon request.
Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

Viton® is a registered trademark of Du Pont.

Applications

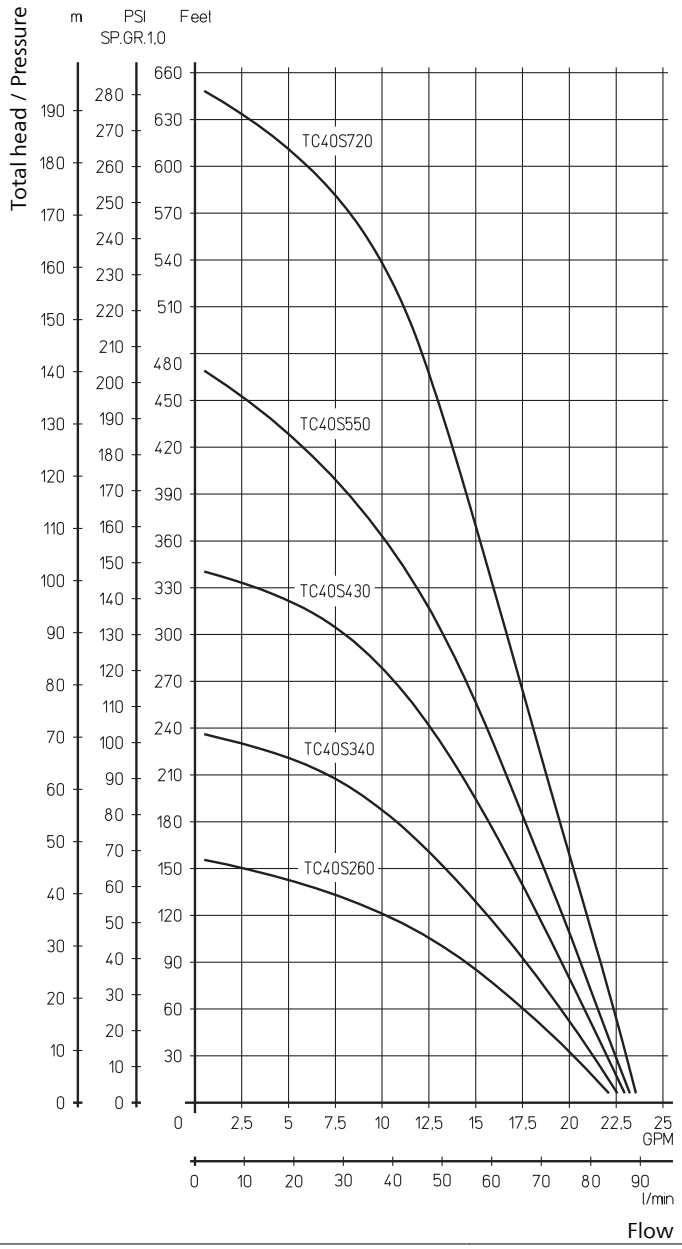
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Pump shell	steel
Cover	PBTP
Intake strainer	steel
Impellers	PBTP
Shaft	steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze CrNi-steel
Pole-changing motor	4 - 2 poles
Noise level	
(S)TC40S260...(S)TC40S340	61 dBA
(S)TC40S430...(S)TC40S720	68 dBA

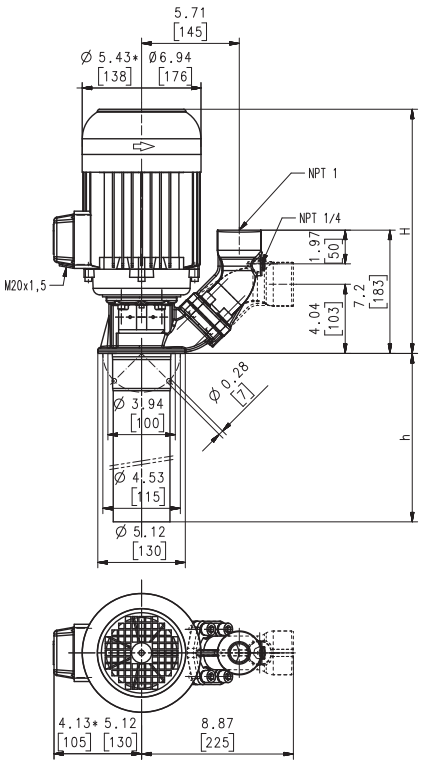


Immersion Pumps (S)TC63

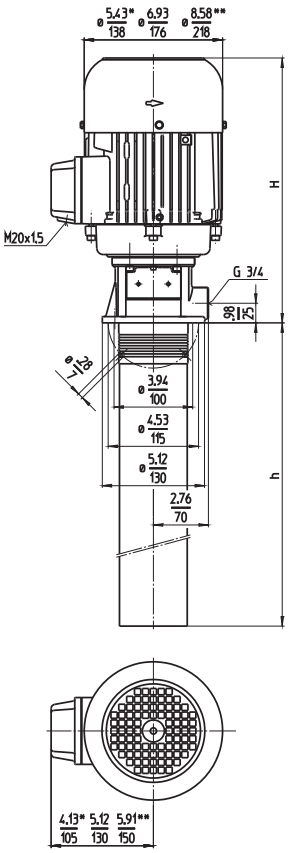
Closed impellers

60 Hz

STC63



TC63



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
(S)TC63S270	15/120	12.4	10.83 *275*	30.9	*14*	1.5	208-230	60	5.8	3300
	60/34	*314*				*1.1*	460	60	2.9	3300
(S)TC63S350	15/172	13.3	13.39 *340*	48.5	*22*	2	208-230	60	7.6	3400
	60/50	*337*				*1.5*	460	60	3.8	3400
(S)TC63S440	15/240	13.3	17.32 *440*	50.7	*23*	2.3	208-230	60	8.2	3400
	60/70	*337*				*1.7*	460	60	4.1	3400
(S)TC63S560	15/355	14.3	22.24 *565*	63.9	*29*	3	208-230	60	10.6	3400
	60/104	*362*				*2.2*	460	60	5.3	3400
TC63S750	15/500	16.8	29.72 *755*	90.4	*41*	4.4	208-230	60	16	3450
	60/145	*427*				*3.3*	460	60	8	3450

Dimensions in Inches / mm
*) Dimensions (S)TC63S270
**) Dimensions TC63S750

60 Hz

Immersion Pumps

models (S)TC40...(S)TC160 have been especially developed to supply **internally cooled tools** with coolant.
Closed impellers provide optimal hydraulic efficiencies while minimizing power consumption.
For alternating machining using **internally** and **externally cooled tools,** these models are available with Y/YY-configured **pole-changing motor** (Dahlander) for optional changeover to **half speed** operation.
A frequency alternator can be supplied for **special applications** or for matching the pump characteristic to a specific duty point. See page "Control/Regulation" in the Technical Information section of this catalog for further information.

Longer pump lengths and **threaded inlets** are available upon request.
Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

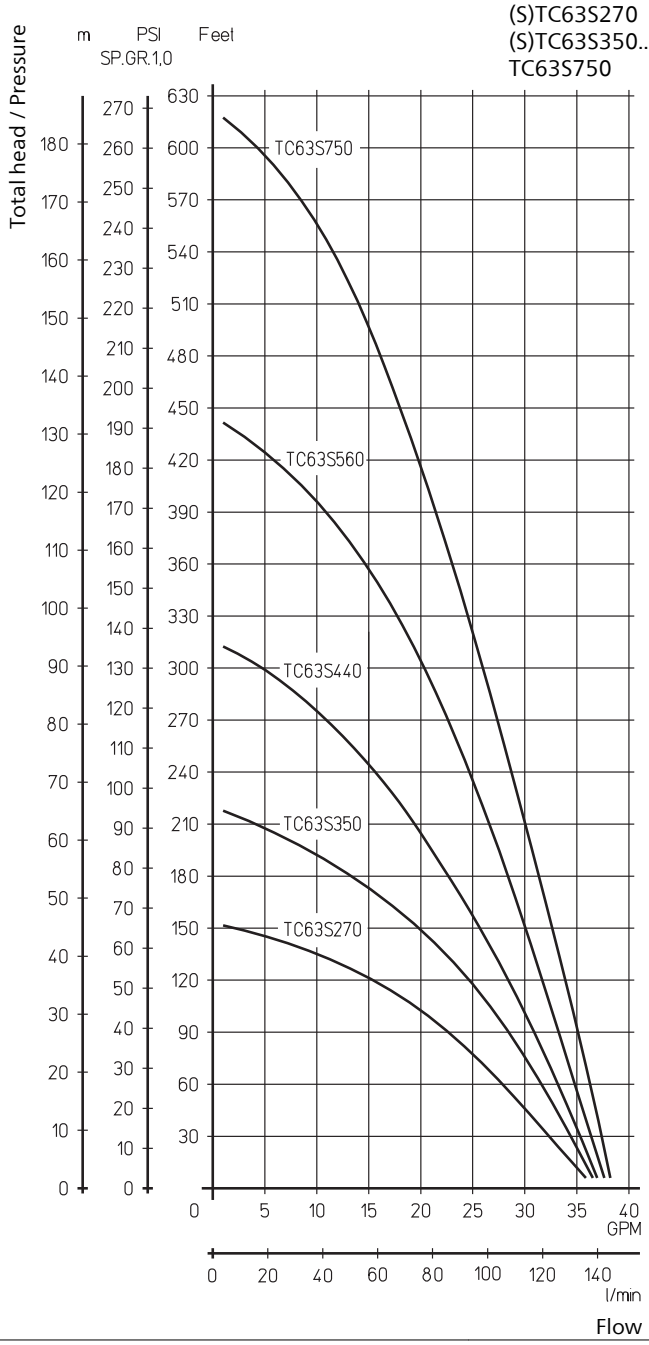
Viton® is a registered trademark of Du Pont.

Applications

Types of fluid	
	Industry water
	coolants
	cooling/cutting oils
Kinematic viscosity	
	...200 SSU (...45 mm²/s)
Pumping temperature	
	30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Pump shell	steel
Cover	PBTP
Intake strainer	steel
Impellers	PBTP
Shaft	steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze CrNi-steel
Pole-changing motor	4 - 2 poles
Noise level	
(S)TC63S270	61 dBA
(S)TC63S350...(S)TC63S560	68 dBA
TC63S750	72 dBA

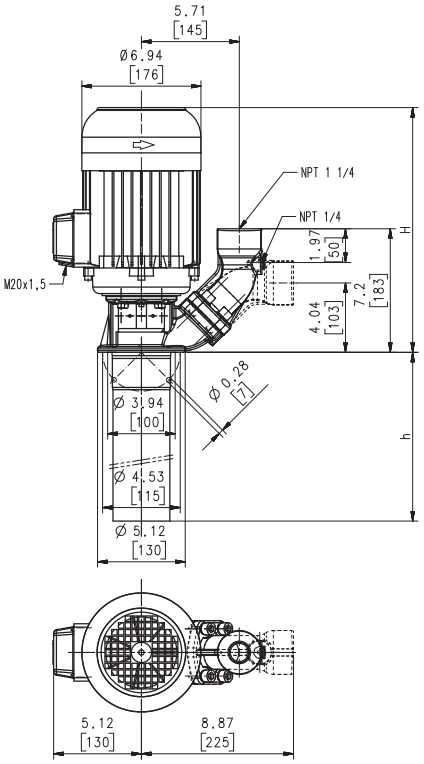


Immersion Pumps
(S)TC160

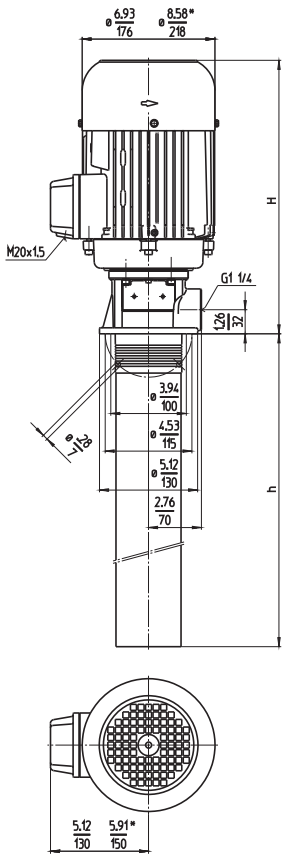
Closed impellers

60 Hz

STC160



TC160



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
(S)TC160S330	20/110	13.3	12.80 *325*	46.3	*21*	2	208-230	60	7.6	3400
	80/32	*337*				*1.5*	460	60	3.8	3400
(S)TC160S430	20/175	13.3	16.73 *425*	48.5	*22*	2.3	208-230	60	8.2	3400
	80/51	*337*				*1.7*	460	60	4.1	3400
(S)TC160S580	20/270	15.2	22.83 *580*	61.7	*28*	3.5	208-230	60	12.6	3400
	80/78	*387*				*2.6*	460	60	6.3	3400
TC160S740	20/365	16.8	28.94 *735*	88.2	*40*	4.4	208-230	60	16	3450
	80/108	*427*				*3.3*	460	60	8	3450

Dimensions in Inches / mm
*) Dimensions TC160S740

BRINKMANN PUMPS

60 Hz

Immersion Pumps

models (S)TC40...(S)TC160 have been especially developed to supply **internally cooled tools** with coolant.
Closed impellers provide optimal hydraulic efficiencies while minimizing power consumption.
For alternating machining using **internally** and **externally cooled tools,** these models are available with Y/YY-configured **pole-changing motor** (Dahlander) for optional changeover to **half speed** operation.
A frequency alternator can be supplied for **special applications** or for matching the pump characteristic to a specific duty point. See page "Control/Regulation" in the Technical Information section of this catalog for further information.

Longer pump lengths and **threaded inlets** are available upon request.
Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

Viton® is a registered trademark of Du Pont.

Applications

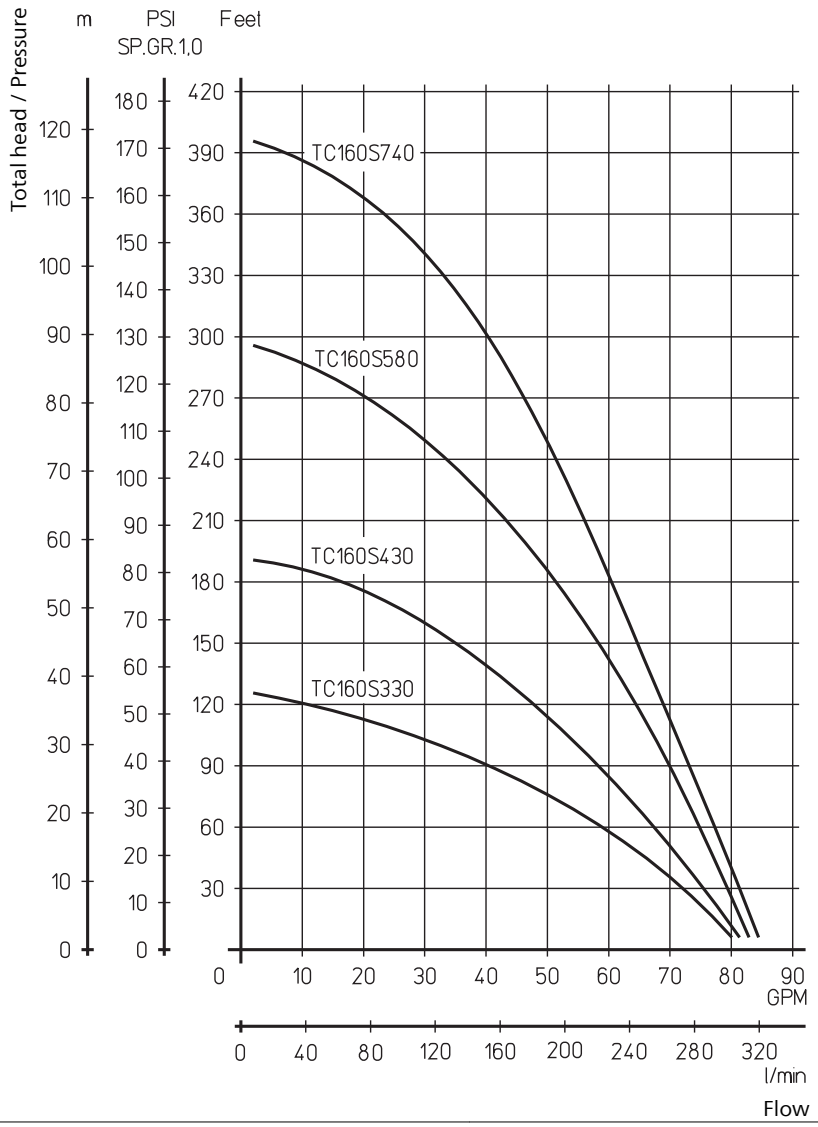
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...200 SSU (...45 mm²/s)

Pumping temperature
- 30...140 °F (0...60 °C)

Construction

Pump body	cast iron
Pump shell	steel
Cover	PBTP
Intake strainer	steel
Impellers	PBTP
Shaft	steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze CrNi-steel
Pole-changing motor	4 - 2 poles
Noise level	
(S)TC160S330...(S)TC160S580	68 dBA
TC160S740	72 dBA



Immersion Pumps TH
Pressure Boosting Pumps FH

Closed impellers

Series (S)TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies.
In addition, the (S)TH series offers high pressures at short immersion depths.
Inline pumps of the series FH can be used as boosting pumps if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 375 PSI (26 bar).
For alternating machining using **internally and externally cooled tools**, these models are available with Y/YY- configured **polechanging motors** (Dahlander) for optional changeover to half speed operation.
A **frequency converter** can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.
See page "Control/Regulation" in the Technical Information section of this catalog for further information.

(S)TH

FH

Applications

Types of fluid
- industrial water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s) TH/FH

Pumping temperature
- 30...175 °F (0...80° C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Diffusers	CrNi-steel
Shaft	CrNi-steel
Mechanical seal	SiC
O-rings	Viton

Optional

Pole-changing motor	4 - 2 poles
Pump body + cover	in bronze/ stainless steel

For position of terminal box, please see Mechanical/Hydraulic Features in the Technical information of this catalog.

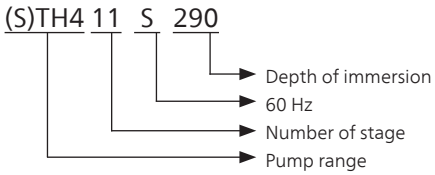
SAE Flange for TH Pumps

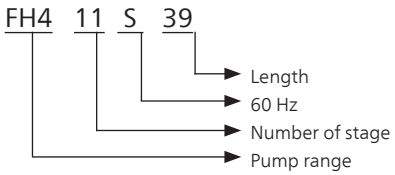
Upon request all (S)TH pumps are available with an SAE flange. The flange allows for either vertical or horizontal pipe connection and offers a NPT ¼ (G ¼) pressure gauge connection port. A surcharge applies for pumps ordered with SAE flange.

Pump Curves

One key feature of the (S)TH/FH series pumps is their non-overloading motors. These pumps can be operated across the entire pump curve without damaging the motor. This key advantage applies for all allowed fluids, including coolant oils.
For specific applications where only one working point is required, the pump/motor combinations can be reviewed and a smaller motor size might be applicable.

Type Designation





Number of Stages

(S)TH/FH pump curves are determined by the number of impeller used within the pump.

Within the range the immersion depth can be extend up to the maximum mentioned length.
Example: STH203S690 (3 impeller, 27.17 inch / 690 mm immersion depth)

Immersion Pumps TH
Pressure Boosting Pumps FH

Closed impellers

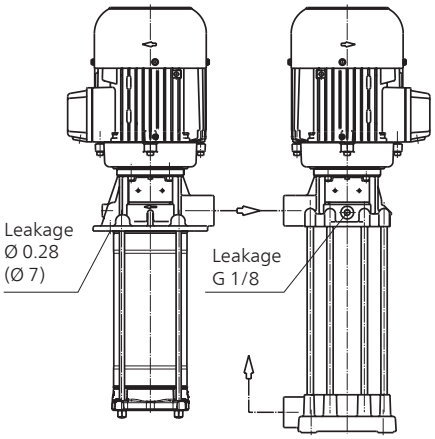
Applying (S)TH/FH pumps in grinding applications

Grinding versions (S)TH/FH pumps (-E). (S)TH/FH series pumps can be supplied upon request as a special grinding version for applications with heavy loads of abrasive particles (>50HRC).
Ordering description: e.g. TH224A590-E

In this version pumps are supplied without internal diffusor gaskets in order to prevent increased wear caused by the abrasive particles in the fluid. As a result, however, the internal losses of the pump increase and the pump curves are reduced.

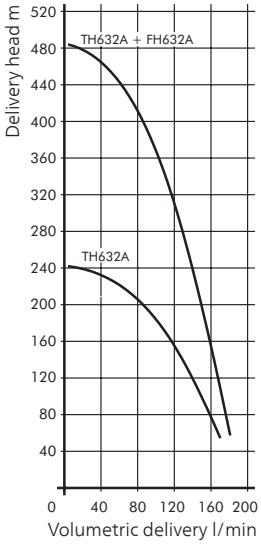
These curves are available upon request.

Examples for pressure boosting: TH632A890 + FH632A89 in tandem-arrangement

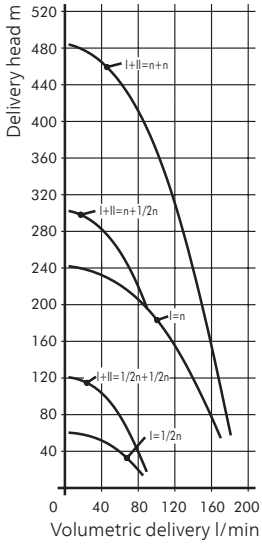


TH632A890 FH632A89

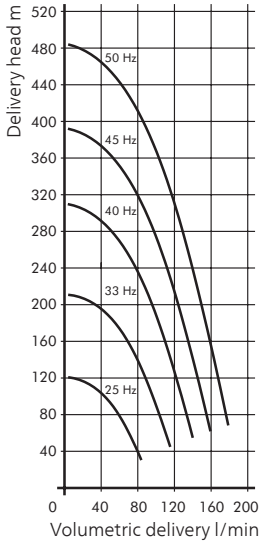
Dimensions in Inches / mm



Tandem-arrangement

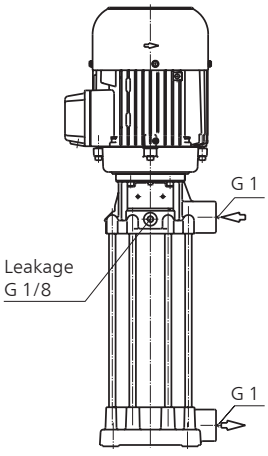


Tandem-arrangement
pole-changing motors
4 - 2 poles

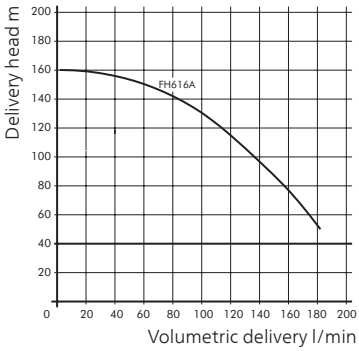


Tandem-arrangement
Both pumps controlled
by one variable
frequency converter

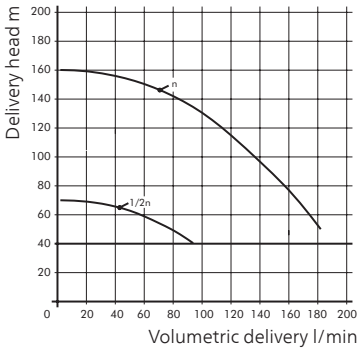
Examples for pressure boosting: FH616A49 + 4 bar of positive head from central coolant supply



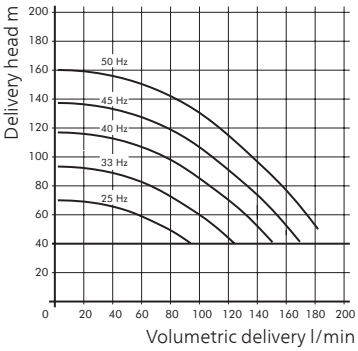
FH616A49



4 bar of positive head
+ pump



4 bar of positive head
+ pump with pole-changing
motor 4 - 2 poles



4 bar of positive head
+ pump controlled by
frequency converter

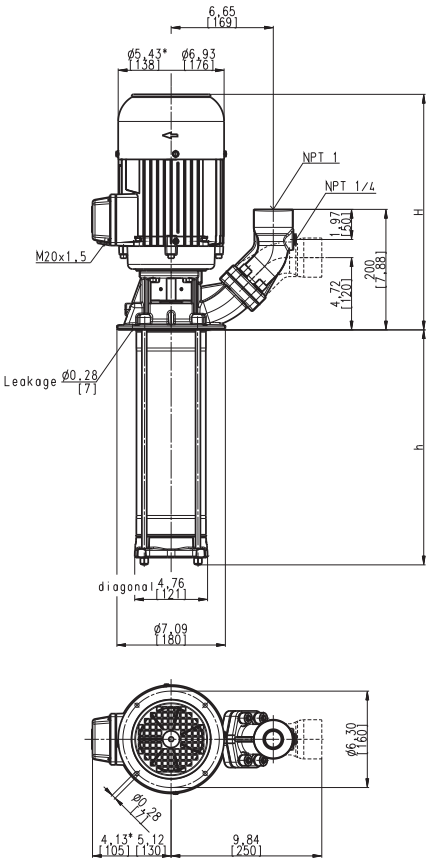
Immersion Pumps (S)TH2

Closed impellers

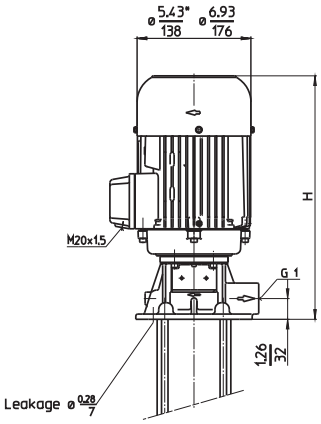
BRINKMANN PUMPS

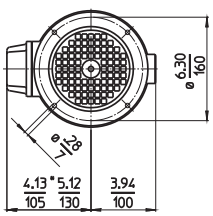
60 Hz

STH203...231



TH203...231





Type	Flow at head GPM /Feet	Height H inch	Depth of immersion h inch	h mm	Weight Lbs	kg	Power HP kW	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
(S)TH203S190	5/80	11.5	7.48	*190*	31.8	*14.4*	0.6	208-230	60	2.2	3200
(S)TH204S190	5/110				32.0	*14.5*	*0.45*	460	60	1.1	3200
(S)TH205S190	5/130	11.5	7.48	*190*	32.9	*14.9*	0.73	208-230	60	2.8	3300
(S)TH206S190	5/165				33.1	*15.0*	*0.54*	460	60	1.4	3300
(S)TH207S290	5/190	12.2	11.42	*290*	37.0	*16.8*	1	208-230	60	4.4	3300
(S)TH208S290	5/220				37.3	*16.9*	*0.75*	460	60	2.2	3300
(S)TH209S290	5/240				37.5	*17.0*					
(S)TH210S290	5/270				37.7	*17.1*					
(S)TH211S290	5/300	12.2	11.42	*290*	39.7	*18.0*	1.25	208-230	60	5.4	3300
							0.92	460	60	2.7	3300
(S)TH212S390	5/325		15.35	*390*	40.8	*18.5*					
(S)TH213S390	5/355				41.0	*18.6*					
(S)TH214S390	5/375	13.0	15.35	*390*	43.2	*19.6*	1.5	208-230	60	5.8	3300
(S)TH215S390	5/395				43.4	*19.7*	*1.1*	460	60	2.9	3300
(S)TH216S390	5/420	13.9	15.35	*390*	59.5	*27*	1.75	208-230	60	6	3400
							1.3	460	60	3	3400
(S)TH217S490	5/440	13.9	19.29	*490*	61.7	*28.0*	2	208-230	60	7.6	3400
(S)TH218S490	5/480				62.0	*28.1*	*1.5*	460	60	3.8	3400
(S)TH219S490	5/505				62.2	*28.2*					
(S)TH220S490	5/540	13.9	19.29	*490*	63.3	*28.7*	2.3	208-230	60	8.2	3400
(S)TH221S490	5/570				63.5	*28.8*	*1.7*	460	60	4.1	3400
(S)TH222S590	5/605	14.8	23.23	*590*	73.2	*33.2*	2.5	208-230	60	9.8	3400
(S)TH223S590	5/635				73.4	*33.3*	*1.9*	460	60	4.9	3400
(S)TH224S590	5/660	14.8	23.23	*590*	74.7	*33.9*	3	208-230	60	10.6	3400
(S)TH225S590	5/690				75.0	*34.0*	*2.2*	460	60	5.3	3400
(S)TH226S590	5/715				75.2	*34.1*					
(S)TH227S690	5/740		27.17	*690*	76.3	*34.6*					
(S)TH228S690	5/760	15.2	27.17	*690*	77.6	*35.2*	3.5	208-230	60	12.6	3400
(S)TH229S690	5/785				77.8	*35.3*	*2.6*				
(S)TH230S690	5/810				78.1	*35.4*					
(S)TH231S690	5/835				78.3	*35.5*					

Dimensions in Inches / mm
*) Dimensions (S)TH203...215

BRINKMANN PUMPS

60 Hz

Immersion Pumps

series TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths.
Inline pumps of the series FH can be used as boosting pumps if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 375 PSI (26 bar).
Longer pump lengths and **threaded inlets** are available upon request.
Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

For position of terminal box, see mechanical features within the technical information section.

Viton® is a registered trademark of Du Pont.

Applications

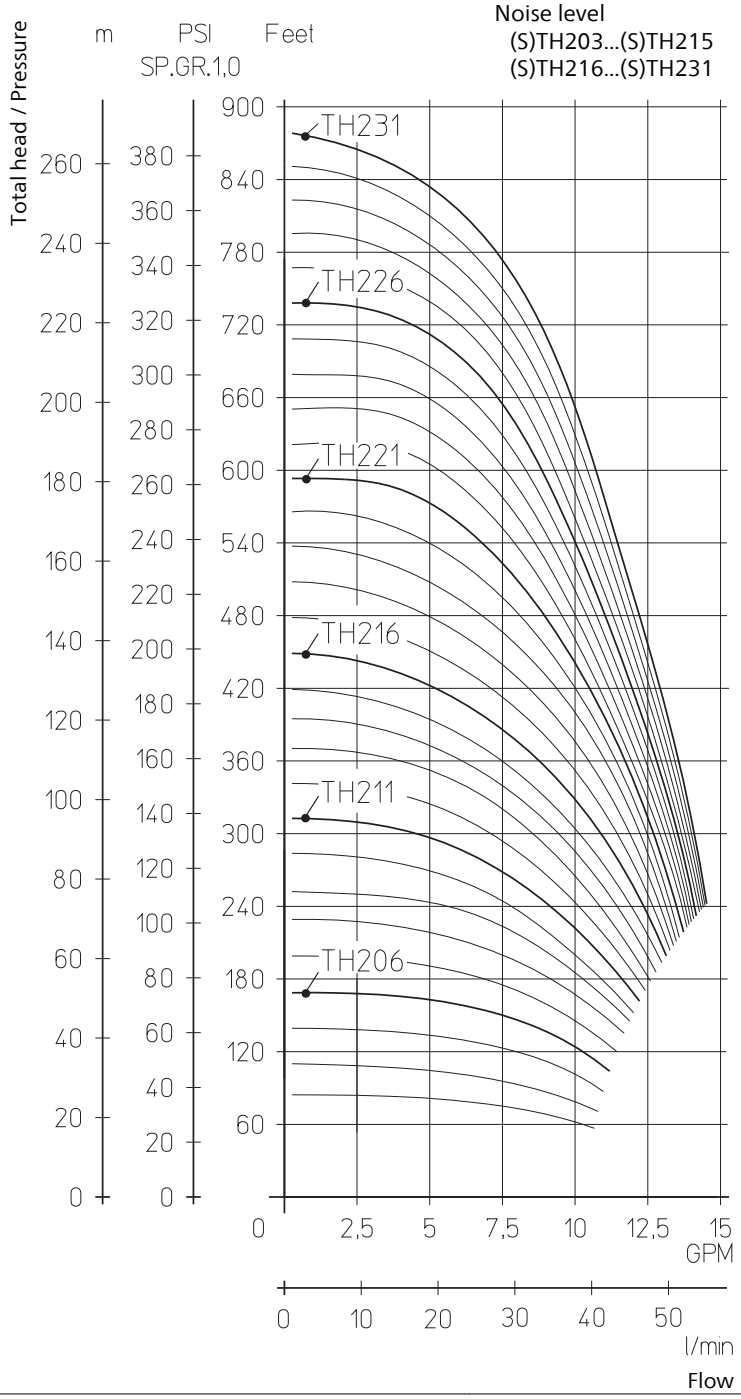
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze
Cover	bronze
Pole-changing motor	4 - 2 poles
Noise level	
(S)TH203...(S)TH215	61 dBA
(S)TH216...(S)TH231	66 dBA



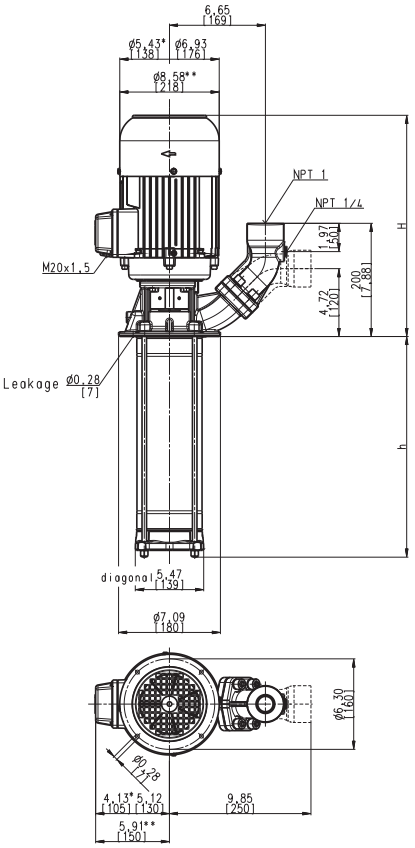
Immersion Pumps
(S)TH4

Closed impellers

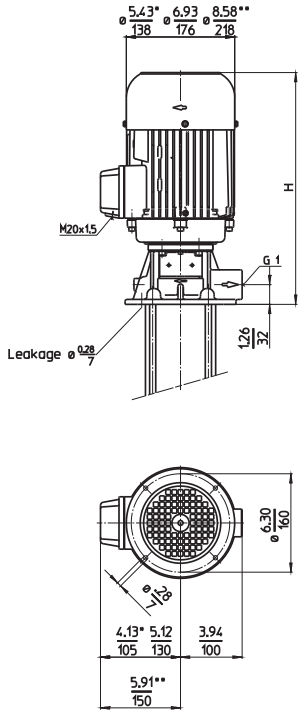
BRINKMANN PUMPS

60 Hz

STH403...424



TH403...424



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch	*h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
(S)TH403S190	10/90 *40/29*	11.5 *291*	7.48	*190*	32.4	*14.7*	0.73 *0.54*	208-230 460	60 60	2.8 1.4	3300 3300
(S)TH404S190	10/130 *40/39*	12.2 *309*	7.48	*190*	37.7	*17.1*	1 *0.75*	208-230 460	60 60	4.4 2.2	3300 3300
(S)TH405S190	10/170 *40/49*				37.9	*17.2*					
(S)TH406S190	10/195 *40/58*	12.2 *309*	7.48	*190*	40.1	*18.2*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300
(S)TH407S290	10/230 *40/68*	13.0 *329*	11.42	*290*	43.2	*19.6*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
(S)TH408S290	10/260 *40/78*				43.4	*19.7*					
(S)TH409S290	10/285 *40/88*	13.9 *352*	11.42	*290*	59.5	*27*	1.75 *1.3*	208-230 460	60 60	6 3	3400 3400
(S)TH410S290	10/330 *40/100*	13.9 *352*	11.42	*290*	60.9	*27.6*	2 *1.5*	208-230 460	60 60	7.6 3.8	3400 3400
(S)TH411S290	10/360 *40/110*	13.9 *352*	11.42	*290*	62.0	*28.1*	2.3 *1.7*	208-230 460	60 60	8.2 4.1	3400 3400
(S)TH412S390	10/395 *40/119*		15.35	*390*	63.1	*28.6*					
(S)TH413S390	10/425 *40/129*	14.8 *376*	15.35	*390*	71.9	*32.6*	2.5 *1.9*	208-230 460	60 60	9.8 4.9	3400 3400
(S)TH414S390	10/465 *40/139*	14.8 *376*	15.35	*390*	73.2	*33.2*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
(S)TH415S390	10/505 *40/150*				73.4	*33.3*					
(S)TH416S390	10/530 *40/159*	15.2 *386*	15.35	*390*	74.7	*33.9*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
(S)TH417S490	10/565 *40/170*		19.29	*490*	75.9	*34.4*					
(S)TH418S490	10/595 *40/179*				76.1	*34.5*					
(S)TH419S490	10/635 *40/192*	17.4 *441*	19.29	*490*	98.6	*44.7*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
(S)TH420S490	10/670 *40/202*				98.8	*44.8*					
(S)TH421S490	10/705 *40/214*				99.0	*44.9*					
(S)TH422S590	10/735 *40/224*		23.23	*590*	100.1	*45.4*					
(S)TH423S590	10/770 *40/233*				100.3	*45.5*					
(S)TH424S590	10/800 *40/242*	17.4 *441*	23.23	*590*	105.8	*48*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450

Dimensions in Inches / mm
*) Dimensions (S)TH403...408
**) Dimensions (S)TH419...424

60 Hz

Immersion Pumps

series TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths.
Inline pumps of the series FH can be used as boosting pumps if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 375 PSI (26 bar).
Longer pump lengths and **threaded inlets** are available upon request.
Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

For position of terminal box, see mechanical features within the technical information section.

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Applications

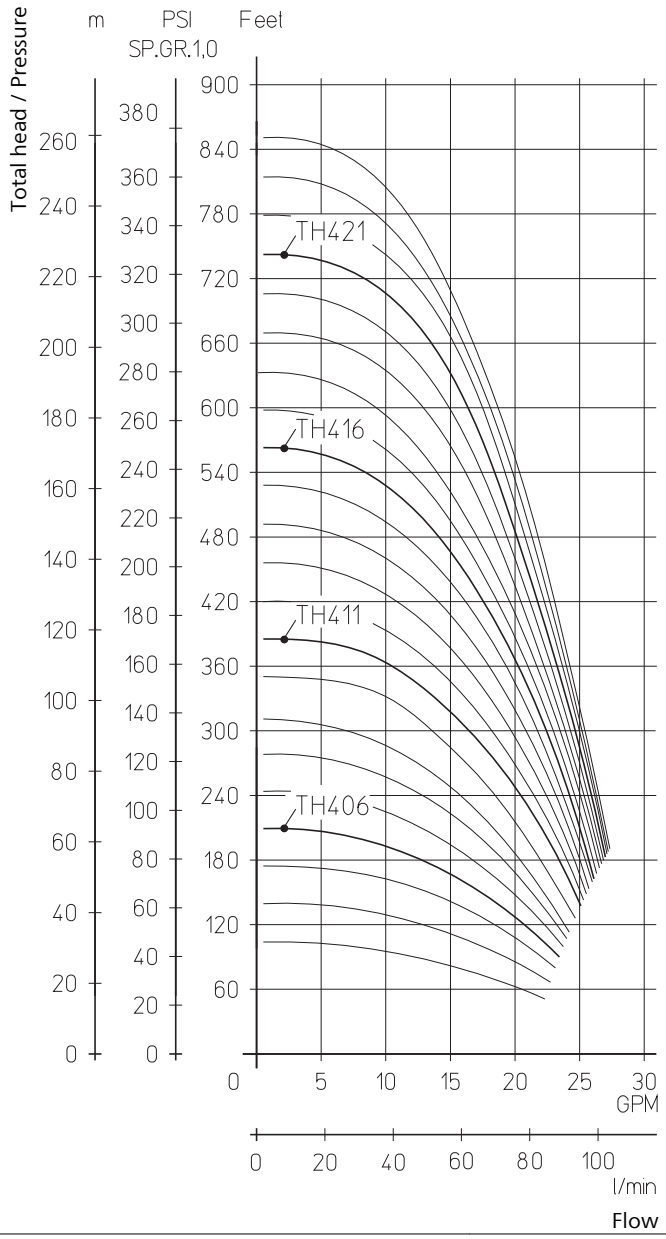
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze
Cover	bronze
Pole-changing motor	4 - 2 poles
Noise level	
(S)TH403...(S)TH408	61 dBA
(S)TH409...(S)TH418	66 dBA
(S)TH419...(S)TH424	75 dBA



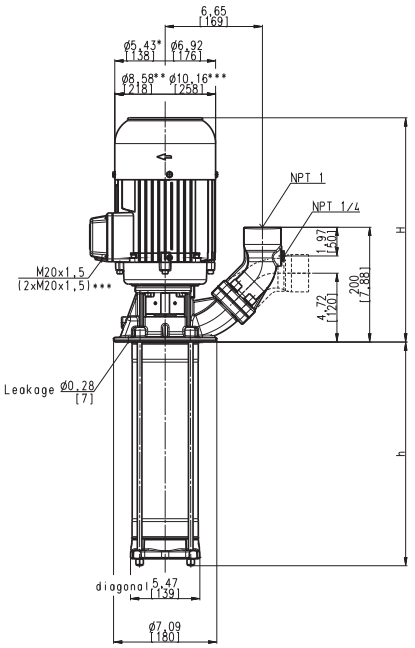
Immersion Pumps
(S)TH6

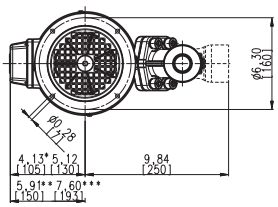
Closed impellers

BRINKMANN PUMPS

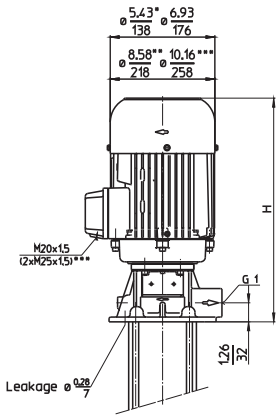
60 Hz

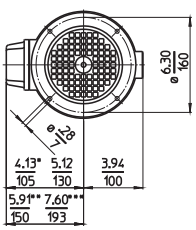
STH603...624





TH603...624





Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch	*h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
(S)TH603S190	20/95 *80/28*	11.5 *291*	7.48	*190*	36.2	*16.4*	1 *0.75*	208-230 460	60 60	4.4 2.2	3300 3300
(S)TH604S190	20/120 *80/38*	12.2 *309*	7.48	*190*	38.6	*17.5*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300
(S)TH605S240	20/150 *80/48*	13.0 *329*	9.45	*240*	40.4	*18.3*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
(S)TH606S240	20/185 *80/58*	13.9 *352*	9.45	*240*	56.0	*25.4*	2 *1.5*	208-230 460	60 60	7.6 3.8	3400 3400
(S)TH607S290	20/220 *80/68*	13.9 *352*	11.42	*290*	65.5	*29.7*	2.3 *1.7*	208-230 460	60 60	8.2 4.1	3400 3400
(S)TH608S290	20/255 *80/78*	14.8 *376*	11.42	*290*	74.5	*33.8*	2.5 *1.9*	208-230 460	60 60	9.8 4.9	3400 3400
(S)TH609S340	20/285 *80/88*	14.8 *376*	13.39	*340*	76.1	*34.5*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
(S)TH610S340	20/330 *80/98*	15.2 *386*	13.39	*340*	77.4	*35.1*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
(S)TH611S390	20/358 *80/108*		15.35	*390*	78.5	*35.6*					
(S)TH612S390	20/395 *80/118*				78.7	*35.7*					
(S)TH613S490	20/420 *80/128*	17.4 *441*	19.29	*490*	109.4	*49.6*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
(S)TH614S490	20/455 *80/139*				109.6	*49.7*					
(S)TH615S490	20/490 *80/149*				109.8	*49.8*					
(S)TH616S490	20/520 *80/159*	17.4 *441*	19.29	*490*	115.3	*52.3*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
(S)TH617S590	20/555 *80/168*		23.23	*590*	116.4	*52.8*					
(S)TH618S590	20/580 *80/178*	18.8 *477*	23.23	*590*	153.0	*69.4*	6.7 *5.0*	208-230 460	60 60	24 12	3450 3450
(S)TH619S590	20/615 *80/188*				153.2	*69.5*					
(S)TH620S590	20/645 *80/198*				153.5	*69.6*					
(S)TH621S690	20/675 *80/206*		27.17	*690*	154.6	*70.1*					
(S)TH622S690	20/705 *80/214*				154.8	*70.2*					
(S)TH623S690	20/735 *80/222*	18.8 *477*	27.17	*690*	157.0	*71.2*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
(S)TH624S690	20/765 *80/232*				157.2	*71.3*					

Dimensions in Inches / mm
*) Dimensions (S)TH603...605
**) Dimensions (S)TH613...617
***) Dimensions (S)TH618...624

60 Hz

Immersion Pumps

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Applications

Types of fluid
- Industry water
- coolants
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Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze
Cover	bronze
Pole-changing motor	4 - 2 poles
Noise level	
(S)TH603...(S)TH605	61 dBA
(S)TH606...(S)TH612	66 dBA
(S)TH613...(S)TH624	75 dBA

For position of terminal box, see mechanical features within the technical information section.

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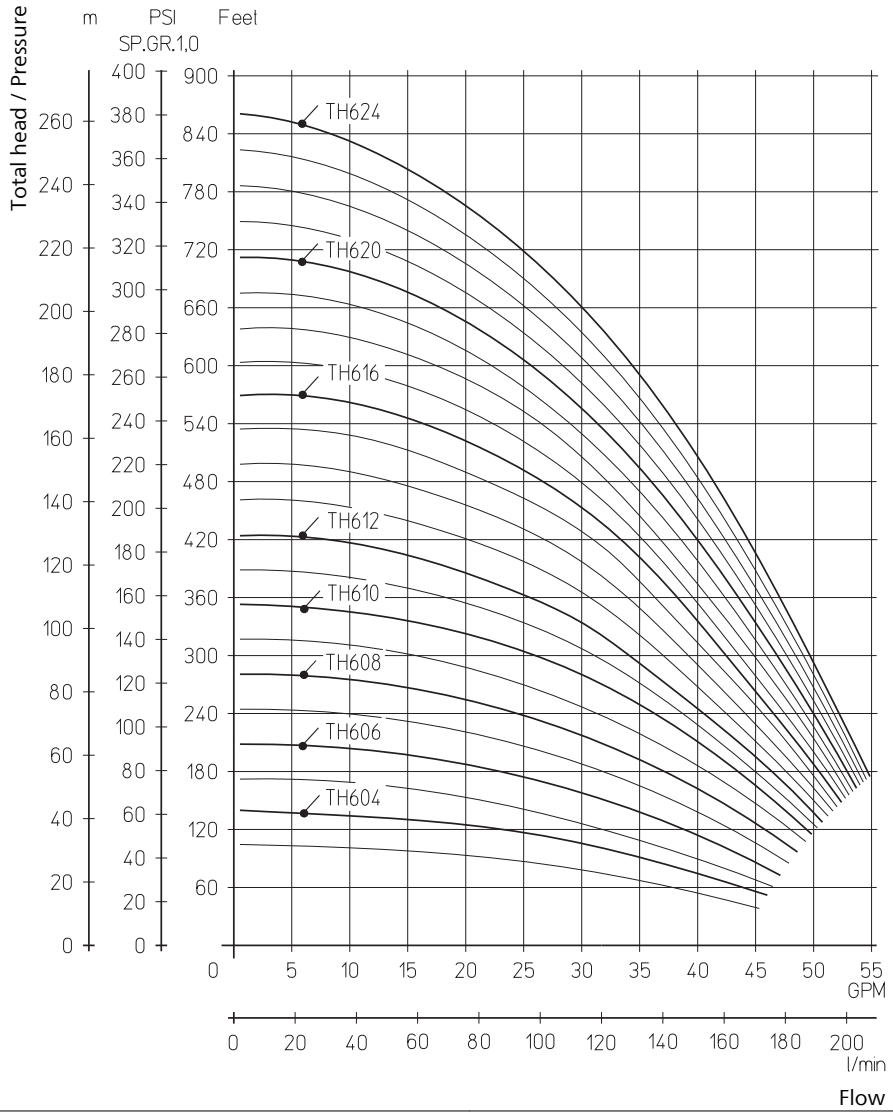
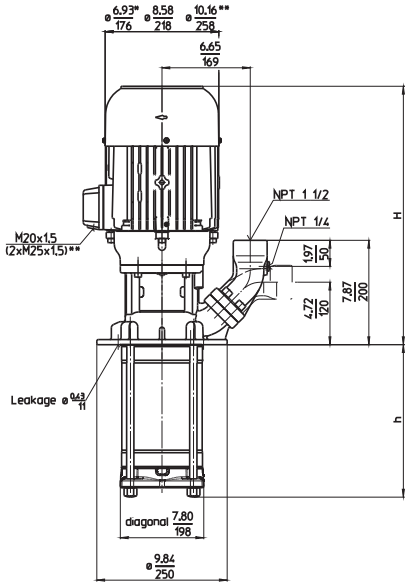


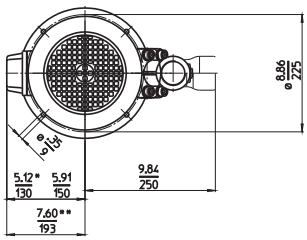
Immersion Pumps
(S)TH11

Closed impellers

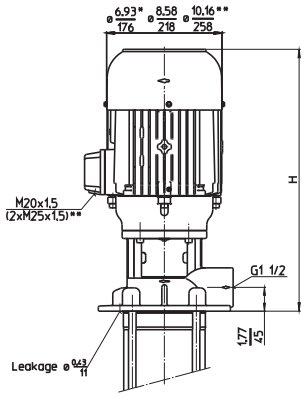
60 Hz

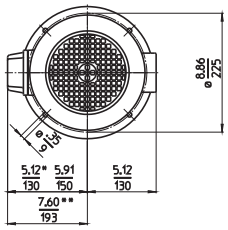
STH1102...1115





TH1102...1115





Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
(S)TH1102S180	37.5/100 *150/30*	16.0 *406*	7.17 *182*	75.0 *34*	1.75 *1.3*	208-230 460	60 60	6 3	3400 3400
(S)TH1103S180	37.5/150 *150/45*	17.0 *431*	7.17 *182*	83.8 *38*	2.5 *1.9*	208-230 460	60 60	9.8 4.9	3400 3400
(S)TH1104S280	37.5/200 *150/59*	17.4 *441*	10.94 *278*	90.4 *41*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
(S)TH1105S280	37.5/250 *150/77*	19.5 *496*	10.94 *278*	114.7 *52*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
(S)TH1106S280	37.5/300 *150/90*	19.5 *496*	10.94 *278*	121.3 *55*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
(S)TH1107S310	37.5/355 *150/106*	20.9 *532*	12.20 *310*	158.8 *72*	6.7 *5.0*	208-230 460	60 60	24 12	3450 3450
(S)TH1108S380	37.5/400 *150/121*		14.72 *374*	163 *74*					
(S)TH1109S380	37.5/455 *150/138*	20.9 *532*	14.72 *374*	165 *75*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
(S)TH1110S470	37.5/510 *150/152*	25.2 *640*	18.50 *470*	214 *97*	11.5 *8.6*	460	60	14.2	3550
(S)TH1111S470	37.5/550 *150/166*			216 *98*					
(S)TH1112S470	37.5/600 *150/180*			218 *99*					
(S)TH1113S500	37.5/655 *150/198*	25.2 *640*	19.76 *502*	260 *118*	13.8 *10.3*	460	60	16.9	3550
(S)TH1114S570	37.5/705 *150/212*		22.28 *566*	262 *119*					
(S)TH1115S570	37.5/755 *150/230*			265 *120*					

Dimensions in Inches / mm
*) Dimensions (S)TH1102...1104
**) Dimensions (S)TH1107...1115

BRINKMANN PUMPS

60 Hz

Immersion Pumps

series TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths.
Inline pumps of the series FH can be used as boosting pumps if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 375 PSI (26 bar).
Longer pump lengths and **threaded inlets** are available upon request.
Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

Applications

Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pole-changing motor	4 - 2 poles
Noise level	
(S)TH1102...(S)TH1104	66 dBA
(S)TH1105...(S)TH1109	74 dBA
(S)TH1110...(S)TH1115	77 dBA

For position of terminal box, see mechanical features within the technical information section.

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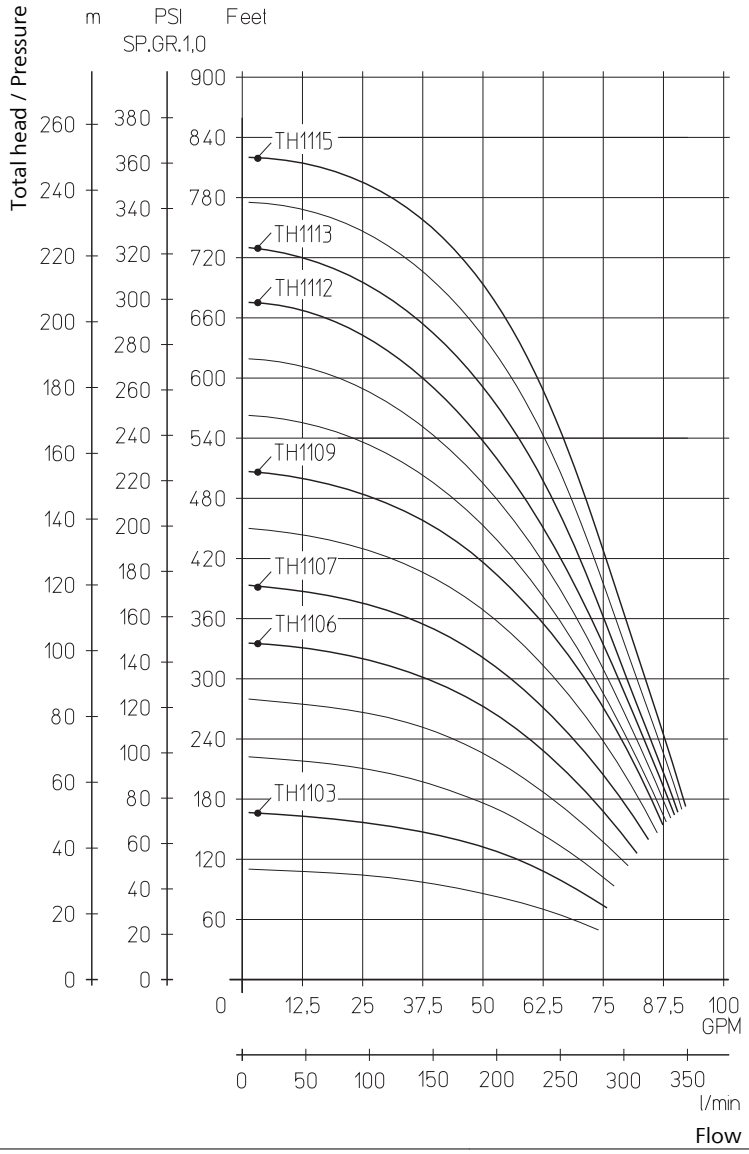


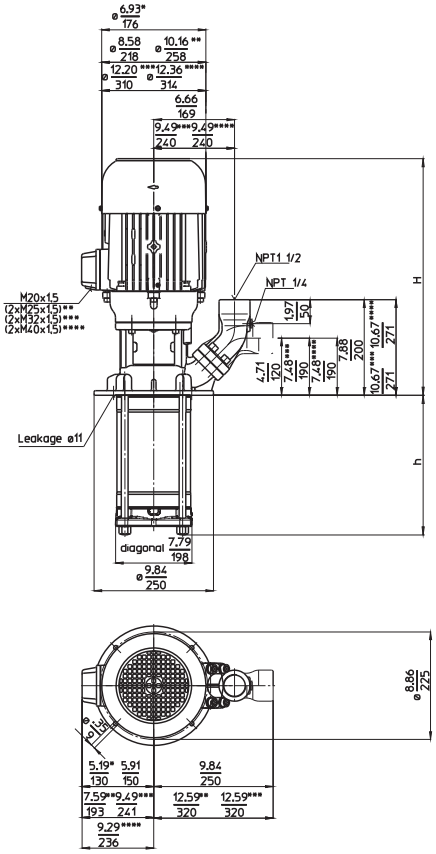
Immersion Pumps
(S)TH14

Closed impellers

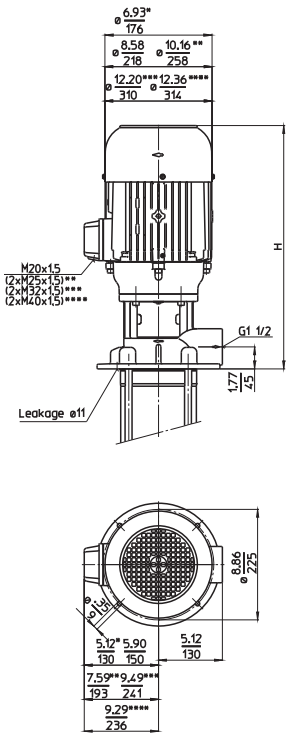
BRINKMANN PUMPS

60 Hz

STH1402...1412



TH1402...1412



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~	Frequency Hz	Current AMPS	Speed RPM
(S)TH1402S180	62.5/115 *250/38*	17.4 *441*	7.17 *182*	86.0 *39*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
(S)TH1403S280	62.5/180 *250/58*	19.5 *496*	10.94 *278*	119.1 *54*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
(S)TH1404S280	62.5/240 *250/77*	20.9 *532*	10.94 *278*	158.8 *72*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
(S)TH1405S380	62.5/305 *250/96*	25.2 *640*	14.72 *374*	207 *94*	11.5 *8.6*	460	60	14.2	3550
(S)TH1406S380	62.5/370 *250/111*			209 *95*					
(S)TH1407S470	62.5/430 *250/128*	25.2 *640*	18.50 *470*	254 *115*	13.8 *10.3*	460	60	16.9	3550
(S)TH1408S470	62.5/490 *250/147*	25.5 *647*	18.50 *470*	271 *123*	17 *12.6*	460	60	21.5	3560
(S)TH1409S570	62.5/560 *250/165*	37.5 *952*	22.28 *566*	284 *129*	23 *17.3*	460	60	27	3555
(S)TH1410S570	62.5/620 *250/184*			289 *131*					
(S)TH1411S660	62.5/685 *250/203*		26.06 *662*	291 *132*					
(S)TH1412S660	62.5/730 *250/222*			293 *133*					

Dimensions in Inches / mm
*) Dimensions (S)TH1402
**) Dimensions (S)TH1404...1407
***) Dimensions (S)TH1408
****) Dimensions (S)TH1409...1412

60 Hz

Immersion Pumps

series TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths.
Inline pumps of the series FH can be used as boosting pumps if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 375 PSI (26 bar).
Longer pump lengths and **threaded inlets** are available upon request.
Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

Applications

Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pole-changing motor	4 - 2 poles
Noise level	
(S)TH1402	66 dBA
(S)TH1403...(S)TH1404	74 dBA
(S)TH1405...(S)TH1407	77 dBA
(S)TH1408	79 dBA
(S)TH1409...(S)TH1412	81 dBA

For position of terminal box, see mechanical features within the technical information section.

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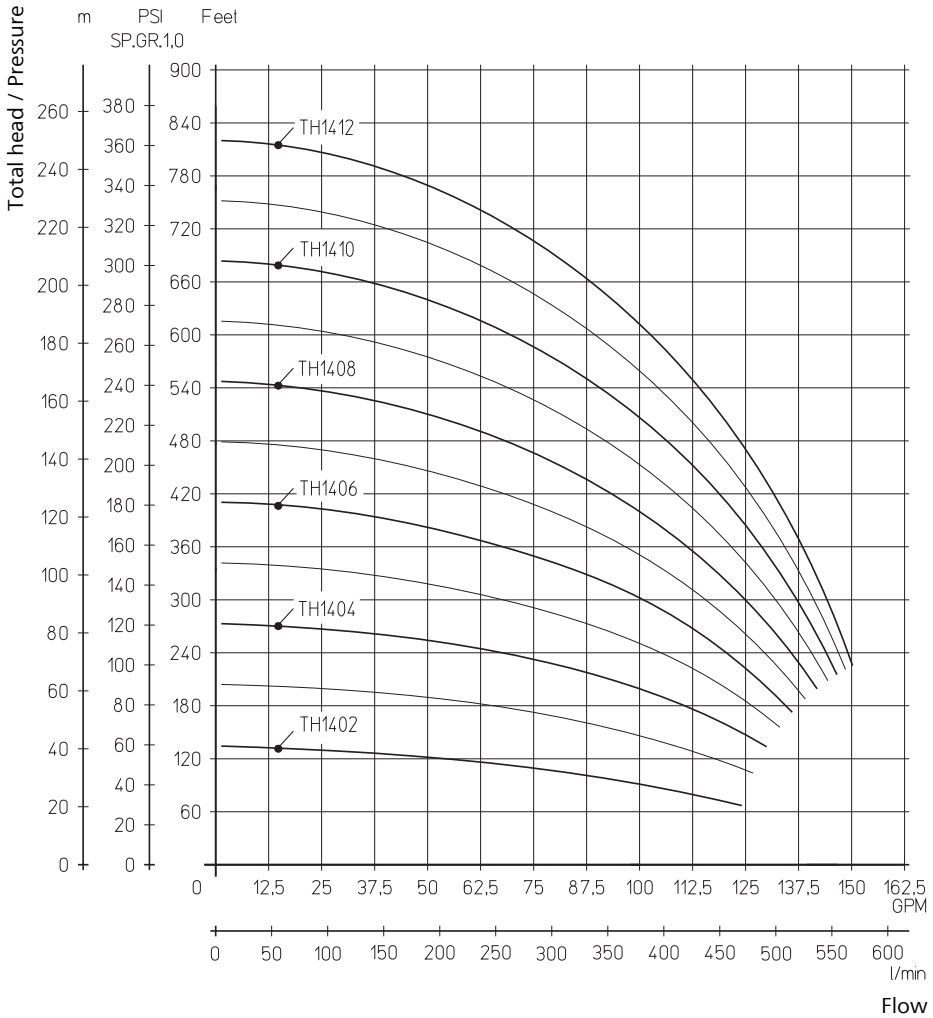
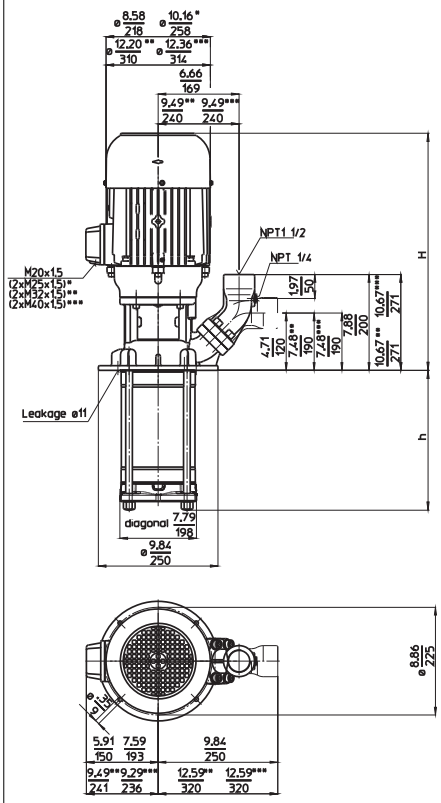


Immersion Pumps
(S)TH17

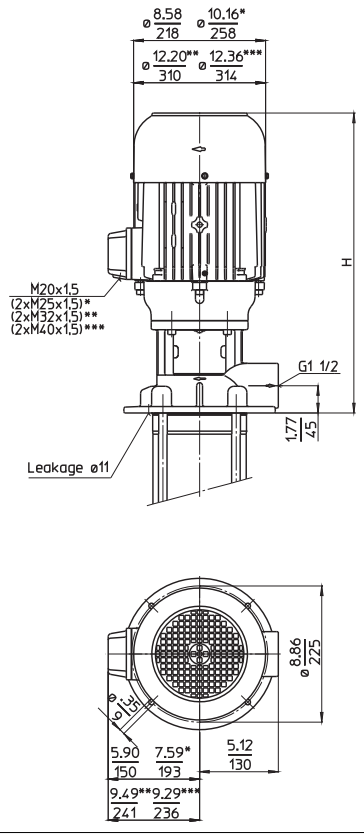
Closed impellers

60 Hz

STH1702...1711



TH1702...1711



Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs *kg*	Power HP *kW*	Voltage 3 ~	Frequency Hz	Current AMPS	Speed RPM
(S)TH1702S180	75/120	19.5	7.17 *182*	110.2 *50*	4.4	208-230	60	16	3450
	300/37	*496*			*3.3*	460	60	8	3450
(S)TH1703S280	75/180	20.9	10.94 *278*	155.5 *70.5*	6.7	208-230	60	24	3450
	300/58	*532*			*5.0*	460	60	12	3450
(S)TH1704S280	75/260	25.2	10.94 *278*	205 *93*	11.5	460	60	14.2	3550
	300/80	*640*			*8.6*				
(S)TH1705S380	75/330	25.2	14.72 *374*	247 *112*	13.8	460	60	16.9	3550
	300/99	*640*			*10.3*				
(S)TH1706S380	75/410	25.5	14.72 *374*	265 *120*	17	460	60	21.5	3560
	300/118	*647*			*12.6*				
(S)TH1707S470	75/470	37.5	18.50 *470*	311 *141*	23	460	60	27	3555
	300/140	*952*			*17.3*				
(S)TH1708S470	75/530			313 *142*					
	300/160								
(S)TH1709S570	75/600		22.28 *566*	318 *144*					
	300/180								
(S)TH1710S570	75/660	39.4	22.28 *566*	342 *155*	29	460	60	32	3555
	300/200	*1002*			*21.3*				
(S)TH1711S660	75/730		26.06 *662*	346 *157*					
	300/219								

Dimensions in Inches / mm
*) Dimensions for (S)TH1703...1705
**) Dimensions for (S)TH1706
***) Dimensions for (S)TH1707...1711

BRINKMANN PUMPS

60 Hz

Immersion Pumps

series TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths.
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Longer pump lengths and **threaded inlets** are available upon request.
Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

Applications

Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

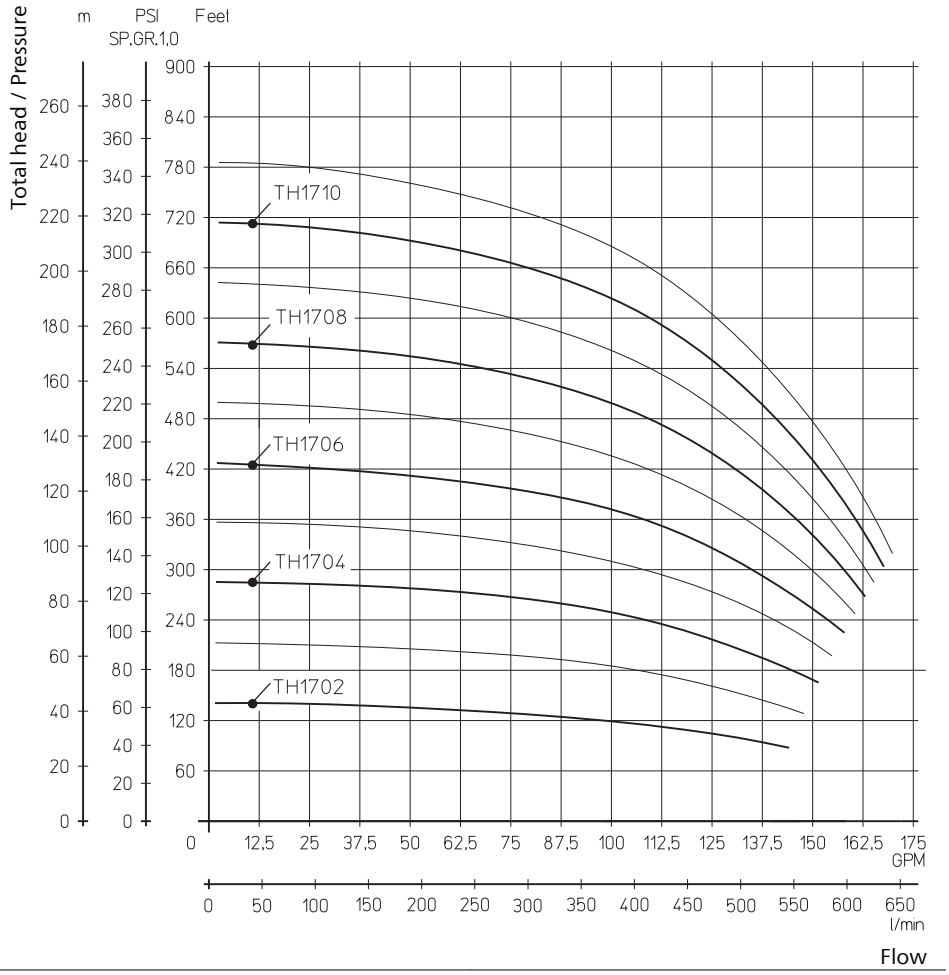
Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pole-changing motor	4 - 2 poles
Noise level	
(S)TH1702	72 dBA
(S)TH1703	74 dBA
(S)TH1704...(S)TH1705	77 dBA
(S)TH1706	79 dBA
(S)TH1707...(S)TH1711	81 dBA

For position of terminal box, see mechanical features within the technical information section.

Viton® is a registered trademark of Du Pont.

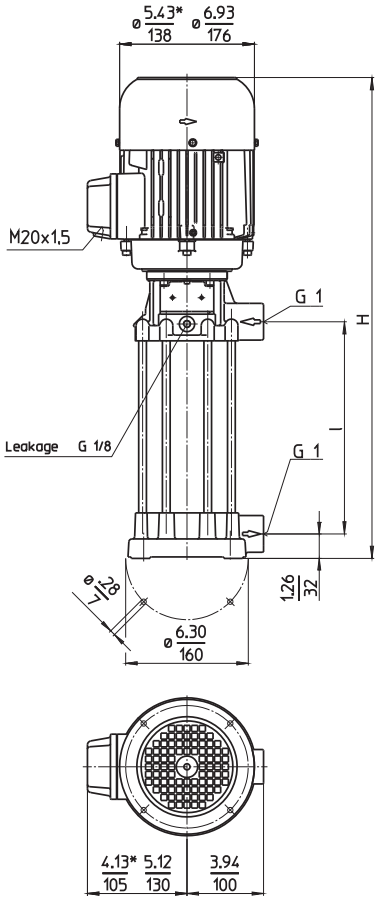


Pressure Boosting Pumps
FH2

Closed impellers

60 Hz

FH203...230



Dimensions in Inches / mm
*) Dimensions FH203...FH215

Type	Flow at head GPM /Feet	Height H inch	Length l Inch	Length *l mm*	Weight Lbs	Weight *kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
FH203S19	5/80	19.2	7.8	*197*	37.3	*16.9*	0.6	208-230	60	2.2	3200
FH204S19	5/110				37.5	*17.0*	*0.45*	460	60	1.1	3200
FH205S19	5/130	19.2	7.8	*197*	38.4	*17.4*	0.73	208-230	60	2.8	3300
							0.54	460	60	1.4	3300
FH206S29	5/165	23.1	11.7	*297*	39.5	*17.9*					
FH207S29	5/190	23.9	11.7	*297*	42.6	*19.3*	1	208-230	60	4.4	3300
FH208S29	5/220				42.8	*19.4*	*0.75*	460	60	2.2	3300
FH209S29	5/240				43.0	*19.5*					
FH210S29	5/270				43.2	*19.6*					
FH211S39	5/300	27.8	15.6	*397*	46.1	*20.9*	1.25	208-230	60	5.4	3300
FH212S39	5/325				46.3	*21.0*	*0.92*	460	60	2.7	3300
FH213S39	5/375				46.5	*21.1*					
FH214S39	5/395	28.6	15.6	*397*	48.7	*22.1*	1.5	208-230	60	5.8	3300
FH215S39	5/420				49.0	*22.2*	*1.1*	460	60	2.9	3300
FH216S49	5/440	33.4	19.6	*497*	65.9	*29.9*	1.75	208-230	60	6	3400
							1.3	460	60	3	3400
FH217S49	5/480	33.4	19.6	*497*	67.3	*30.5*	2	208-230	60	7.6	3400
FH218S49	5/505				67.5	*30.6*	*1.5*	460	60	3.8	3400
FH219S49	5/540				67.7	*30.7*					
FH220S49	5/570	33.4	19.6	*497*	68.8	*31.2*	2.3	208-230	60	8.2	3400
							1.7	460	60	4.1	3400
FH221S59	5/605	37.4	23.5	*597*	69.9	*31.7*					
FH222S59	5/635	38.3	23.5	*597*	78.7	*35.7*	2.5	208-230	60	9.8	3400
FH223S59	5/660				78.9	*35.8*	*1.9*	460	60	4.9	3400
FH224S59	5/690	38.3	23.5	*597*	80.3	*36.4*	3	208-230	60	10.6	3400
FH225S59	5/715				80.5	*36.5*	*2.2*	460	60	5.3	3400
FH226S69	5/740	42.2	27.4	*697*	81.6	*37.0*					
FH227S69	5/760				81.8	*37.1*					
FH228S69	5/785	42.6	27.4	*697*	82.7	*37.5*	3.5	208-230	60	12.6	3400
FH229S69	5/810				83.3	*37.8*	*2.6*	460	60	6.3	3400
FH230S69	5/835				83.6	*37.9*					

BRINKMANN PUMPS

60 Hz

Pressure Boosting Pumps

series TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths.
Inline pumps of the series FH can be used as boosting pumps if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 375 PSI (26 bar).
For alternating machining using **internally** and **externally cooled tools,** these models are available with Y/YY-configured **pole-changing motor** (Dahlander) for optional changeover to **half speed** operation.
A frequency alternator can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.
See page "Control/Regulation" in the Technical Information section of this catalog for further information.

For position of terminal box, see mechanical features within the technical information section.

Viton® is a registered trademark of Du Pont.

Applications

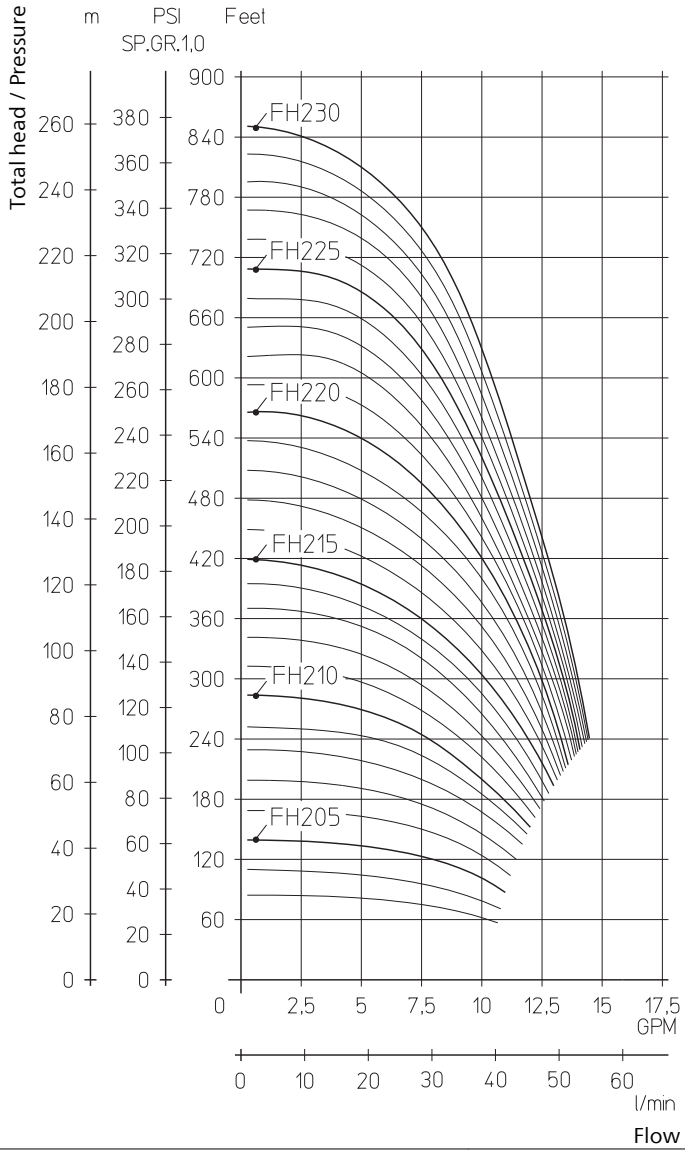
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze
Cover	bronze
Pole-changing motor	4 - 2 poles
Noise level	
FH203...FH215	61 dBA
FH216...FH230	66 dBA

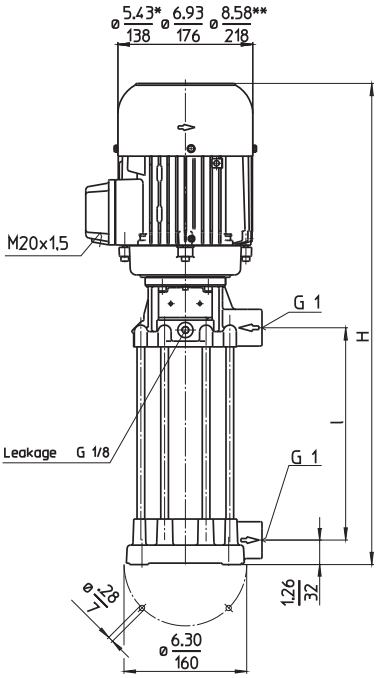


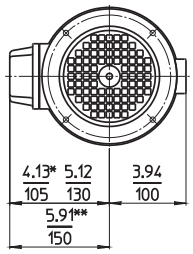
Pressure Boosting Pumps
FH4

Closed impellers

60 Hz

FH403...423





Dimensions in Inches / mm
*) Dimensions FH403...FH408
**) Dimensions FH419...FH423

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
FH403S19	10/90	19.2	7.8	*197*	37.9	*17.2*	0.73	208-230	60	2.8	3300
	40/29	*488*					*0.54*	460	60	1.4	3300
FH404S19	10/130	19.9	7.8	*197*	43.2	*19.6*	1	208-230	60	4.4	3300
	40/39	*506*					*0.75*	460	60	2.2	3300
FH405S19	10/170				43.4	*19.7*					
	40/49										
FH406S29	10/195	23.9	11.7	*297*	46.5	*21.1*	1.25	208-230	60	5.4	3300
	40/58	*606*					*0.92*	460	60	2.7	3300
FH407S29	10/230	24.6	11.7	*297*	48.7	*22.1*	1.5	208-230	60	5.8	3300
	40/68	*626*					*1.1*	460	60	2.9	3300
FH408S29	10/260				49.0	*22.2*					
	40/78										
FH409S29	10/285	25.6	11.7	*297*	65.0	*29.5*	1.75	208-230	60	6	3400
	40/88	*649*					*1.3*	460	60	3	3400
FH410S29	10/330	25.6	11.7	*297*	66.4	*30.1*	2	208-230	60	7.6	3400
	40/100	*649*					*1.5*	460	60	3.8	3400
FH411S39	10/360	29.5	15.6	*397*	67.5	*30.6*	2.3	208-230	60	8.2	3400
	40/110	*749*					*1.7*	460	60	4.1	3400
FH412S39	10/395				68.6	*31.1*					
	40/119										
FH413S39	10/425	30.4	15.6	*397*	77.4	*35.1*	2.5	208-230	60	9.8	3400
	40/129	*773*					*1.9*	460	60	4.9	3400
FH414S39	10/465	30.4	15.6	*397*	78.7	*35.7*	3	208-230	60	10.6	3400
	40/139	*773*					*2.2*	460	60	5.3	3400
FH415S39	10/505				78.9	*35.8*					
	40/150										
FH416S49	10/530	34.8	19.6	*497*	81.1	*36.8*	3.5	208-230	60	12.6	3400
	40/159	*883*					*2.6*	460	60	6.3	3400
FH417S49	10/565				81.4	*36.9*					
	40/170										
FH418S49	10/595				81.6	*37.0*					
	40/179										
FH419S49	10/635	36.9	19.6	*497*	104.1	*47.2*	4.4	208-230	60	16	3450
	40/192	*938*					*3.3*	460	60	8	3450
FH420S49	10/670				104.3	*47.3*					
	40/202										
FH421S59	10/705	40.9	23.5	*597*	105.4	*47.8*					
	40/214	*1038*									
FH422S59	10/735				105.6	*47.9*					
	40/224										
FH423S59	10/770				105.8	*48.0*					
	40/233										

BRINKMANN PUMPS

60 Hz

Pressure Boosting Pumps

series TH and FH use closed impellers in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths.
Inline pumps of the series FH can be used as boosting pumps if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 375 PSI (26 bar).
For alternating machining using **internally** and **externally cooled tools,** these models are available with Y/YY-configured **pole-changing motor** (Dahlander) for optional changeover to **half speed** operation.
A frequency alternator can be supplied for **special applications** or for matching the pump characteristic to a specific duty point.
See page "Control/Regulation" in the Technical Information section of this catalog for further information.

For position of terminal box, see mechanical features within the technical information section.

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Applications

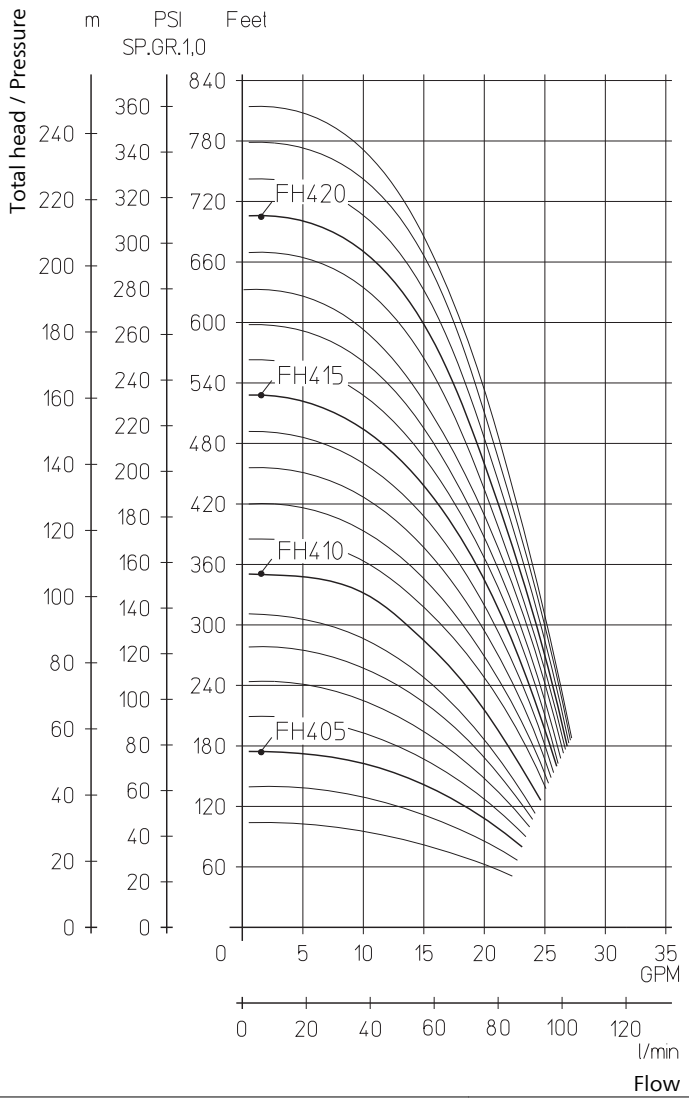
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze
Cover	bronze
Pole-changing motor	4 - 2 poles
Noise level	
FH403...FH408	61 dBA
FH409...FH418	66 dBA
FH419...FH423	75 dBA

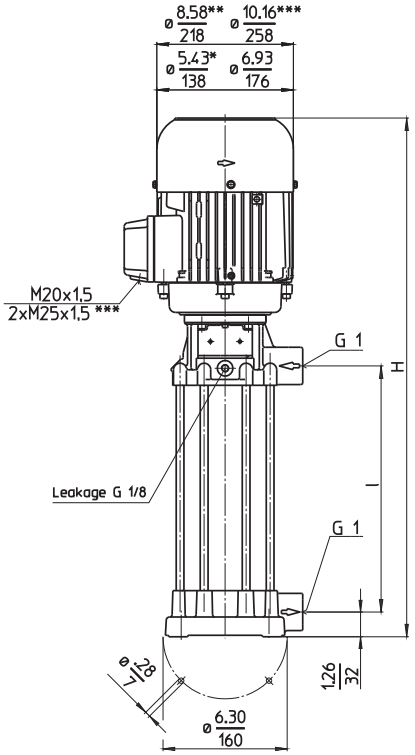


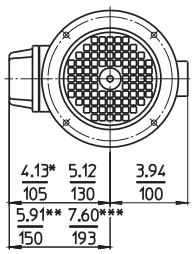
Pressure Boosting Pumps
FH6

Closed impellers

60 Hz

FH603...624





Dimensions in Inches / mm
*) Dimensions FH603...FH605
**) Dimensions FH613...FH617
***) Dimensions FH618...FH624

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
FH603S19	20/95 *80/28*	19.9 *506*	7.8	*197*	41.7	*18.9*	1 *0.75*	208-230 460	60 60	4.4 2.2	3300 3300
FH604S19	20/120 *80/38*	19.9 *506*	7.8	*197*	44.1	*20*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300
FH605S24	20/150 *80/48*	22.7 *576*	9.7	*247*	45.9	*20.8*	1.5 *1.1*	208-230	60	5.8	3300
FH606S24	20/185 *80/58*	23.6 *599*	9.7	*247*	61.5	*27.9*	2 *1.5*	208-230 460	60 60	7.6 3.8	3400 3400
FH607S29	20/220 *80/68*	25.6 *649*	11.7	*297*	71.0	*32.2*	2.3 *1.7*	208-230 460	60 60	8.2 4.1	3400 3400
FH608S29	20/255 *80/78*	26.5 *673*	11.7	*297*	80.0	*36.3*	2.5 *1.9*	208-230 460	60 60	9.8 4.9	3400 3400
FH609S34	20/285 *80/88*	28.5 *723*	13.7	*347*	81.6	*37*	3 *2.2*	208-230 460	60 60	10.6 5.3	3400 3400
FH610S34	20/330 *80/98*	28.9 *733*	13.7	*347*	82.9	*37.6*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
FH611S39	20/358 *80/108*	30.8 *783*	15.6	*397*	84.0	*38.1*					
FH612S39	20/395 *80/118*				84.2	*38.2*					
FH613S49	20/420 *80/128*	36.9 *938*	19.6	*497*	114.9	*52.1*	4.4 *3.3*	208-230 460	60 60	16 8	3450 3450
FH614S49	20/455 *80/139*				115.1	*52.2*					
FH615S49	20/490 *80/149*				115.3	*52.3*					
FH616S49	20/520 *80/159*	36.9 *938*	19.6	*497*	120.8	*54.8*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
FH617S59	20/555 *80/168*	40.9 *1038*	23.5	*597*	121.9	*55.3*					
FH618S59	20/580 *80/178*	42.3 *1074*	23.5	*597*	158.5	*71.9*	6.7 *5.0*	208-230 460	60 60	24 12	3450 3450
FH619S59	20/615 *80/188*				158.8	*72.0*					
FH620S59	20/645 *80/198*				159.0	*72.1*					
FH621S69	20/675 *80/206*	46.2 *1174*	27.4	*697*	160.1	*72.6*					
FH622S69	20/705 *80/214*				160.3	*72.7*					
FH623S69	20/735 *80/222*	46.2 *1174*	27.4	*697*	163	*73.7*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
FH624S69	20/765 *80/232*				163	*73.8*					

BRINKMANN PUMPS

60 Hz

Pressure Boosting Pumps

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Applications

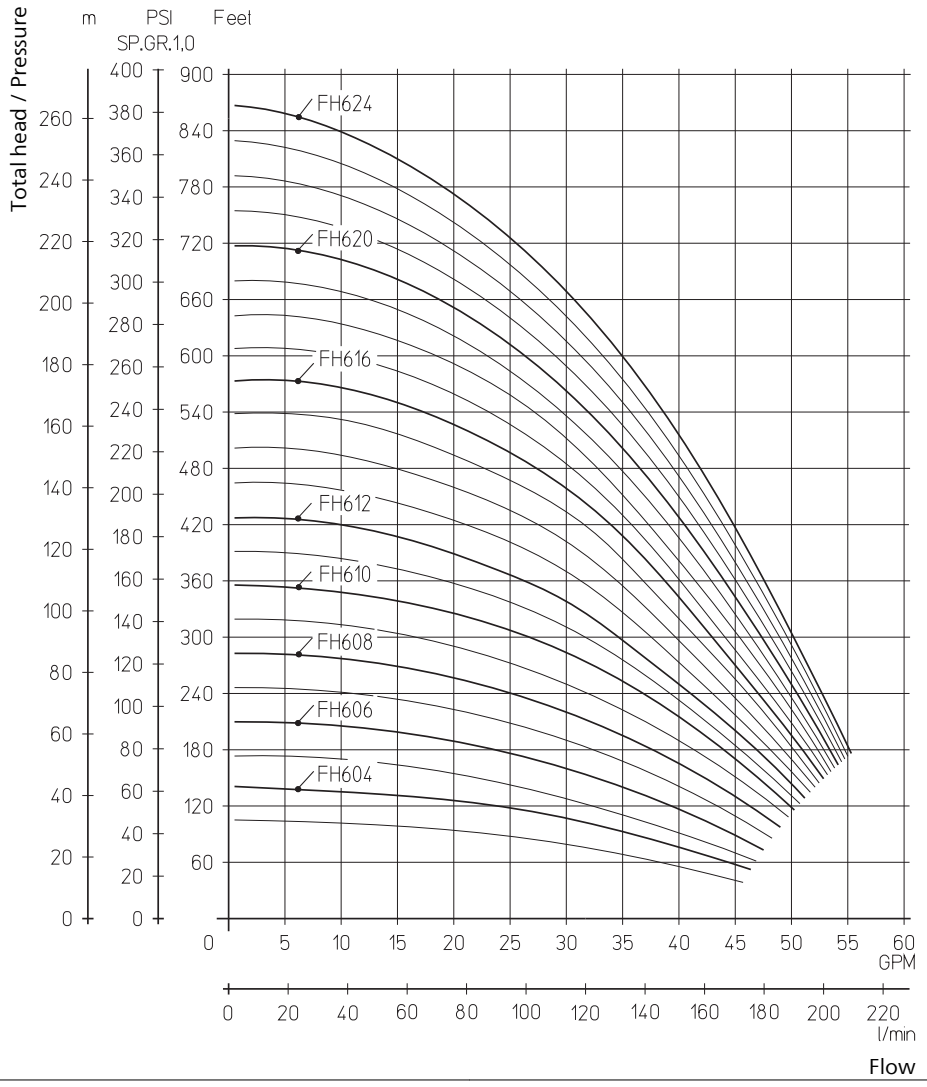
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

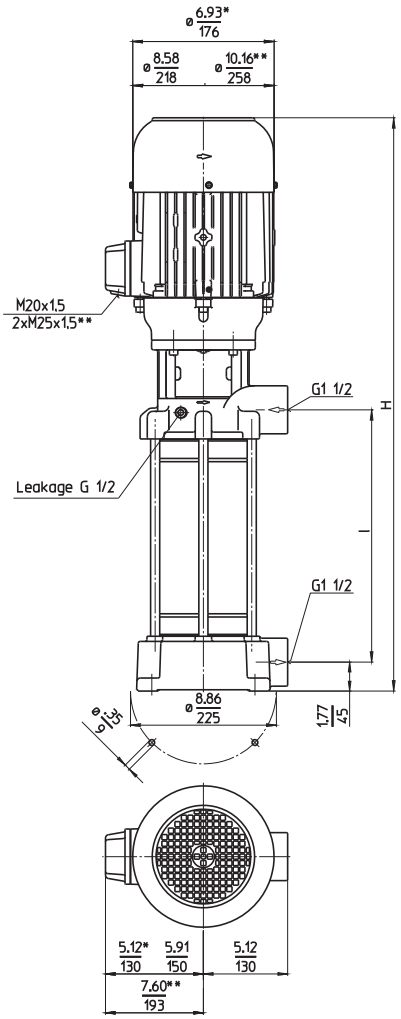
Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pump body	bronze
Cover	bronze
Pole-changing motor	4 - 2 poles
Noise level	
FH603...FH605	61 dBA
FH606...FH612	66 dBA
FH613...FH624	75 dBA



Pressure Boosting Pumps
FH11
Closed impellers

60 Hz

FH1102...1115



Dimensions in Inches / mm
*) Dimensions FH1102...FH1104
**) Dimensions FH1107...FH1115

Type	Flow at head GPM / Feet *l/min / m*	Height H inch *mm*	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
FH1102S18	37.5/100	24.2	8.3	*212*	86.0	*39*	1.75	208-230	60	6	3400
	150/30	*615*					*1.3*	460	60	3	3400
FH1103S18	37.5/150	25.2	8.3	*212*	94.8	*43*	2.5	208-230	60	9.8	3400
	150/45	*641*					*1.9*	460	60	4.9	3400
FH1104S28	37.5/200	29.4	12.1	*308*	103.6	*47*	3.5	208-230	60	12.6	3400
	150/59	*747*					*2.6*	460	60	6.3	3400
FH1105S28	37.5/250	31.5	12.1	*308*	125.7	*57*	4.4	208-230	60	16	3450
	150/77	*801*					*3.3*	460	60	8	3450
FH1106S28	37.5/300	31.5	12.1	*308*	132.3	*60*	5.4	208-230	60	19.0	3450
	150/90	*801*					*4.0*	460	60	9.5	3450
FH1107S31	37.5/355	34.2	13.4	*340*	172	*78*	6.7	208-230	60	24	3450
	150/106	*869*					*5.0*	460	60	12	3450
FH1108S38	37.5/400	36.7	15.9	*404*	176	*80*					
	150/121	*933*									
FH1109S38	37.5/455	36.7	15.9	*404*	179	*81*	7.4	208-230	60	25.0	3450
	150/138	*933*					*5.5*	460	60	12.5	3450
FH1110S47	37.5/510	44.7	19.7	*500*	229	*104*	11.5	460	60	14.2	3550
	150/152	*1136*					*8.6*				
FH1111S47	37.5/550				232	*105*					
	150/166										
FH1112S47	37.5/600				234	*106*					
	150/180										
FH1113S50	37.5/655	46.0	20.9	*532*	245	*111*	13.8	460	60	16.9	3550
	150/198	*1168*					*10.3*				
FH1114S57	37.5/705	48.5	23.5	*596*	249	*113*					
	150/212	*1232*									
FH1115S57	37.5/755				251	*114*					
	150/230										

BRINKMANN PUMPS

60 Hz

Pressure Boosting Pumps

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Applications

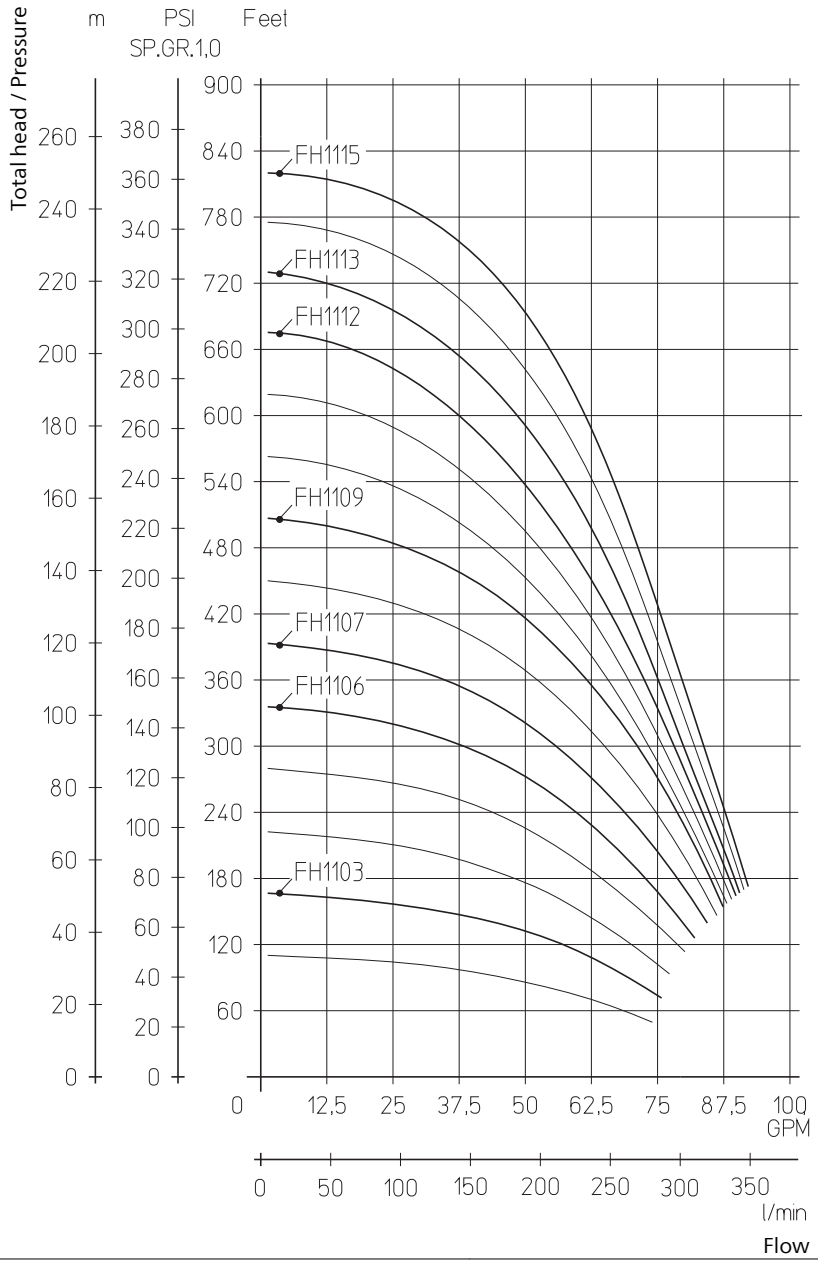
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pole-changing motor	4 - 2 poles
Noise level	
FH1102...FH1104	66 dBA
FH1105...FH1109	74 dBA
FH1110...FH1115	77 dBA

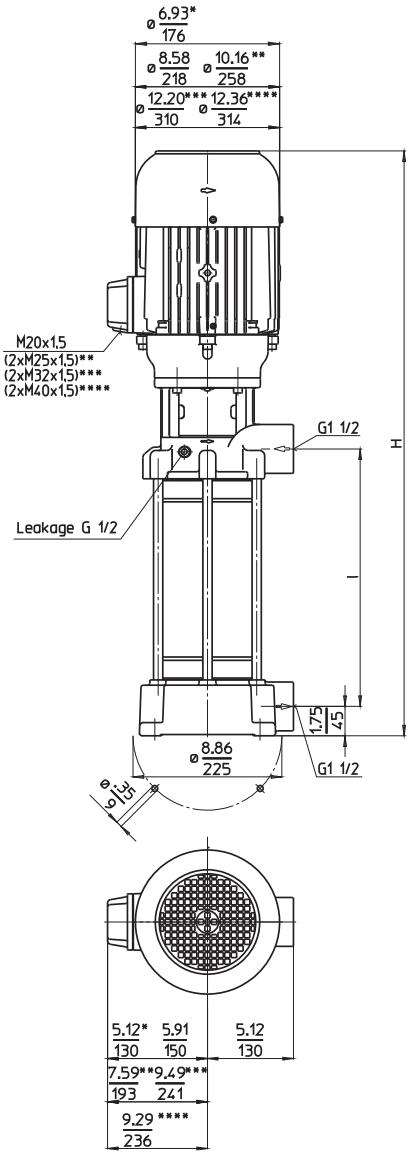


Pressure Boosting Pumps
FH14

Closed impellers

60 Hz

FH1402...1412



Dimensions in Inches / mm
*) Dimensions FH1402
**) Dimensions FH1404...FH1407
***) Dimensions FH1408
****) Dimensions FH1409...FH1412

Type	Flow at head GPM / Feet *l/min / m*	Height H inch *mm*	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
FH1402S18	62.5/115 *250/38*	25.6 *651*	8.3	*212*	97.0	*44*	3.5 *2.6*	208-230 460	60 60	12.6 6.3	3400 3400
FH1403S28	62.5/180 *250/58*	31.5 *801*	12.1	*308*	132.3	*60*	5.4 *4.0*	208-230 460	60 60	19.0 9.5	3450 3450
FH1404S28	62.5/240 *250/77*	33.0 *837*	12.1	*308*	170	*77*	7.4 *5.5*	208-230 460	60 60	25.0 12.5	3450 3450
FH1405S38	62.5/305 *250/96*	40.9 *1040*	15.9	*404*	220	*100*	11.5 *8.6*	460	60	14.2	3550
FH1406S38	62.5/370 *250/111*				223	*101*					
FH1407S47	62.5/430 *250/128*	44.7 *1136*	19.7	*500*	269	*122*	13.8 *10.3*	460	60	16.9	3550
FH1408S47	62.5/490 *250/147*	45.0 *1144*	19.7	*500*	287	*130*	17 *12.6*	460	60	21.5	3560
FH1409S57	62.5/560 *250/165*	60.8 *1545*	23.5	*596*	298	*135*	23 *17.3*	460	60	27	3555
FH1410S57	62.5/620 *250/184*				300	*136*					
FH1411S66	62.5/685 *250/203*	64.6 *1641*	27.2	*692*	306	*139*					
FH1412S66	62.5/730 *250/222*				309	*140*					

BRINKMANN PUMPS

60 Hz

Pressure Boosting Pumps

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Applications

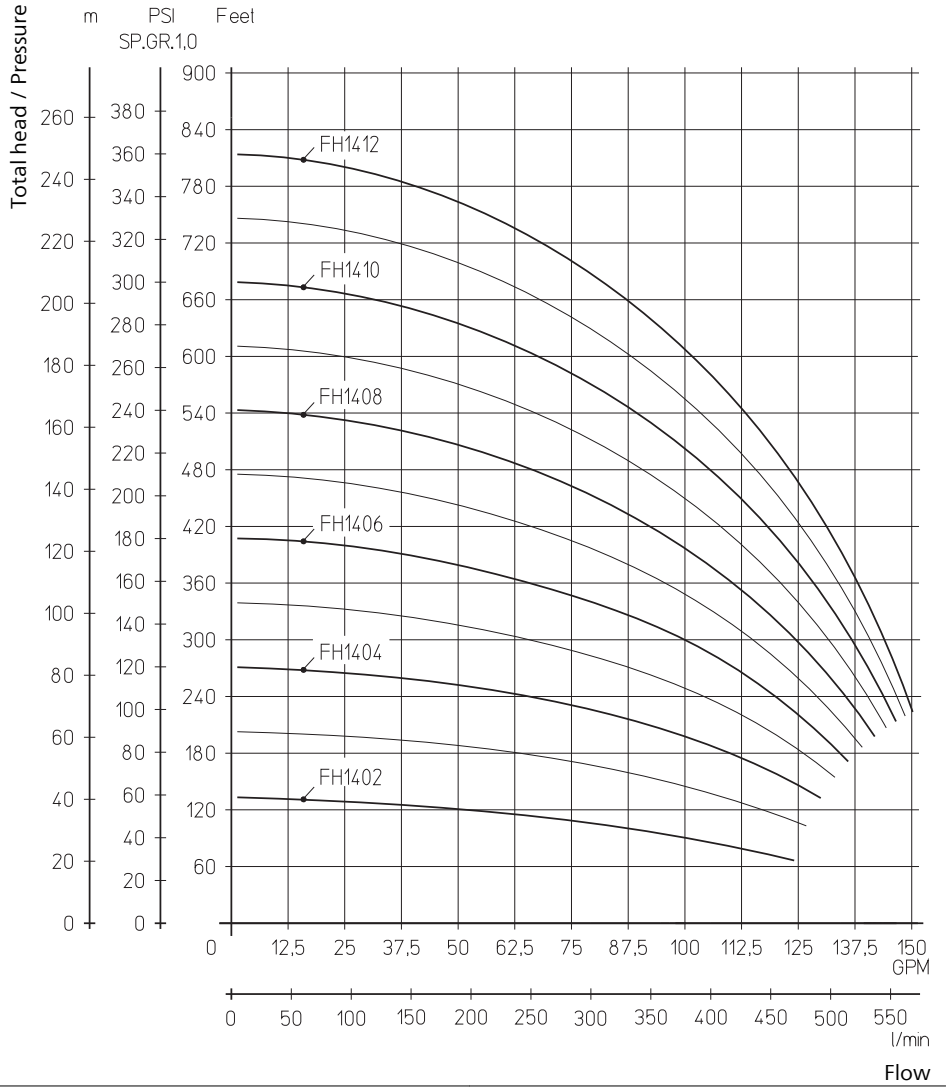
Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pole-changing motor	4 - 2 poles
Noise level	
FH1402	66 dBA
FH1403...FH1404	74 dBA
FH1405...FH1407	77 dBA
FH1408	79 dBA
FH1409...FH1412	81 dBA

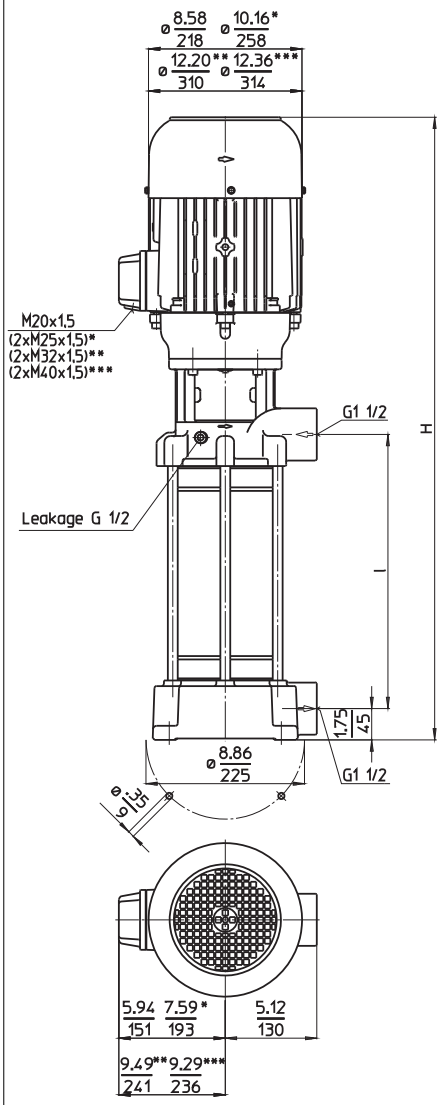


Pressure Boosting Pumps
FH17

Closed impellers

60 Hz

FH1702...1711



Dimensions in Inches / mm
*) Dimensions for FH1703...1705
**) Dimensions for FH1706
***) Dimensions for FH1707...1711

Type	Flow at head GPM / Feet *l/min / m*	Height H inch *mm*	Length l Inch	*l mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
FH1702S18	75/120	27.8	8.3	*212*	120.2	*54.5*	4.4	208-230	60	16	3450
	300/37	*705*					*3.3*	460	60	8	3450
FH1703S28	75/180	33.0	12.1	*308*	169	*76.5*	6.7	208-230	60	24	3450
	300/58	*837*					*5.0*	460	60	12	3450
FH1704S28	75/260	37.1	12.1	*308*	216	*98*	11.5	460	60	14.2	3550
	300/80	*943*					*8.6*				
FH1705S38	75/330	40.9	15.9	*404*	262	*119*	13.8	460	60	16.9	3550
	300/99	*1040*					*10.3*				
FH1706S38	75/410	41.3	15.9	*404*	278	*126*	17	460	60	21.5	3560
	300/118	*1048*					*12.6*				
FH1707S47	75/470	57.0	19.7	*500*	326	*148*	23	460	60	27	3555
	300/140	*1449*					*17.3*				
FH1708S47	75/530				329	*149*					
	300/160										
FH1709S57	75/600	60.8	23.5	*596*	331	*150*					
	300/180	*1545*									
FH1710S57	75/660	62.8	23.5	*596*	355	*161*	29	460	60	32	3555
	300/200	*1594*					*21.3*				
FH1711S66	75/730	66.5	27.2	*692*	362	*164*					
	300/219	*1690*									

BRINKMANN PUMPS

60 Hz

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Types of fluid
- Industry water
- coolants
- cooling/cutting oils

Kinematic viscosity
- ...115 SSU (...25 mm²/s)

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- 30...175 °F (0...80 °C)

Construction

Pump body	cast iron
Cover	cast iron
Impellers	CrNi-steel
Shaft	CrNi-steel
Diffusers	CrNi-steel
Mechanical seal	SiC
O-rings	Viton ®
Optional:	
Pole-changing motor	4 - 2 poles
Noise level	
FH1702	72 dBA
FH1703	74 dBA
FH1704...FH1705	77 dBA
FH1706	79 dBA
FH1707...FH1711	81 dBA

For position of terminal box, see mechanical features within the technical information section.

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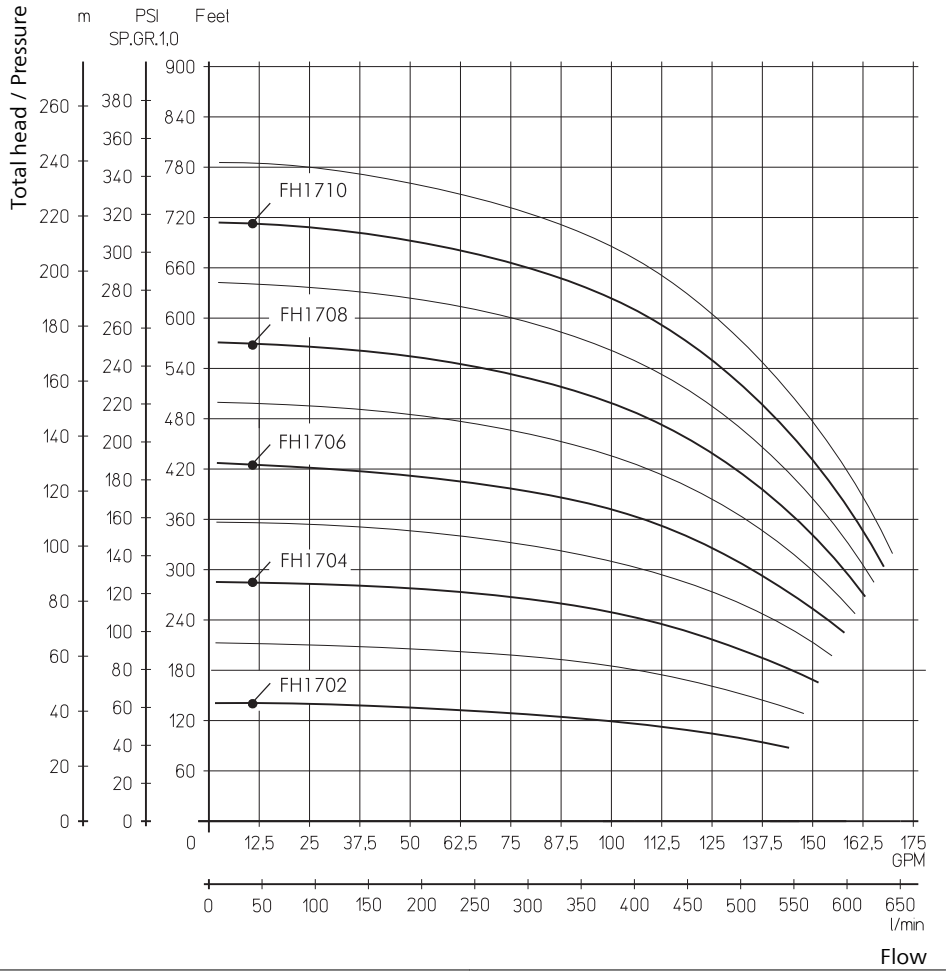
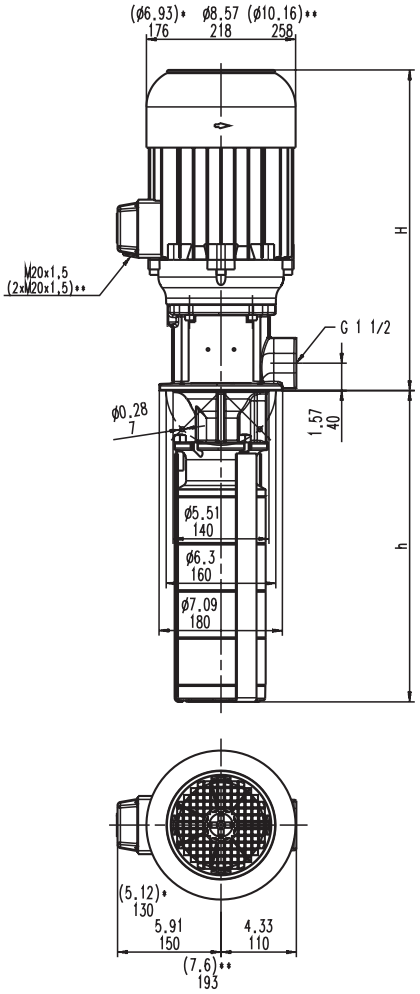


Immersion Pumps
(S)TC260...TC460
Closed impellers

TC260/460...1150
TC460/320... 870



Dimensions in Inches / mm
*) Dimensions TC260/460, TC460/320
**) Dimensions TC260/920 - 1150, TC450/740 - 870

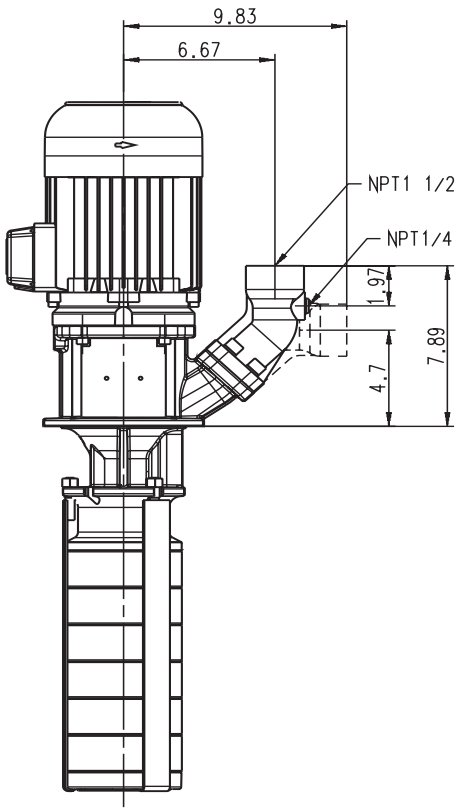
Type	Flow at head GPM / Feet *l/min. / m*	Height H Inch *mm*	Depth of immersion h Inch	*mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 Phase V	Frq Hz	Rated current AMPS	Speed RPM
(S)TC260/460	65/110 *250/30*	15.9 *405*	17.91	*455*	84	*38*	3.5 *2.6*	220-240 380-420 460	50 50 60	10.9 6.3 6.3	2850 2850 3400
(S)TC260/600	65/175 *250/50*	18.4 *468*	23.35	*593*	112	*51*	5.4 *4.0*	220-240 380-420 460	50 50 60	16.5 9.5 9.5	2900 2900 3450
(S)TC260/690	65/230 *250/65*	18.4 *468*	26.97	*685*	123	*56*	7.4 *5.5*	220-240 380-420 460	50 50 60	22 12.5 12.5	2900 2900 3450
(S)TC260/920	65/340 *250/95*	Òôì *613*	36.02	*915*	Ò4Š	*109*	1ÒQ *9.0* 13.8 *10.3*	380-420 460	50 60	16.9 16.9	2955 3550
(S)TC260/1150	65/490 *250/130*	24.4 *621*	45.08	*1145*	273	*124*	15.0 *11* 17.0 *12.6*	380-420 460	50 60	21.5 21.5	2960 3560
(S)TC460/320	120/50 *450/15*	15.9 *405*	12.48	*317*	71	*32*	3.0 *2.2*	220-240 380-420 460	50 50 60	9.2 5.3 5.3	2850 2850 3400
(S)TC460/390	120/80 *450/24*	18.4 *468*	15.20	*386*	93	*42*	4.4 *3.3*	220-240 380-420 460	50 50 60	13.8 8.0 8.0	2900 2900 3450
(S)TC460/460	120/115 *450/34*	18.4 *468*	17.91	*455*	106	*48*	5.4 *4.0*	220-240 380-420 460	50 50 60	16.5 9.5 9.5	2900 2900 3450
(S)TC460/530	120/140 *450/42*	18.4 *468*	20.63	*524*	115	*52*	7.4 *5.5*	220-240 380-420 460	50 50 60	22 12.5 12.5	2900 2900 3450
(S)TC460/740	120/230 *450/69*	24.1 *613*	28.78	*731*	229	*104*	12.0 *9.0* 13.8 *10.3*	380-420 460	50 60	16.9 16.9	2955 3550
(S)TC460/870	120/295 *450/90*	24.4 *621*	34.21	*869*	278	*126*	17.5 *13*	380-420	50	24.8	2960

Longer pump lengths and **threaded inlets** are available upon request. Please see mechanical/hydraulic features in the Technical Information section of this catalog or call 248-926-9400 for details.

The immersed parts of types TC260 to TC460 are made of stainless steel. They are designed for use on **central coolant supplies** and CNC machining centers with **internally cooled tools**.

45 degree SAE Flanges for STC Pumps

Upon request all TC pumps are also available with an optional SAE flange. The flange allows for either vertical or horizontal pipe connection and includes a NPT 1/4 pressure gauge connection port.
A surcharge applies for pumps ordered with SAE flange.



For position of terminal box, see mechanical features within the technical information section.

Motors of 10 HP and more are supplied in Δ connection.
e.g. Δ 3 x 380 - 420 V, 50 Hz.
See electrical features within the technical information section.

Applications

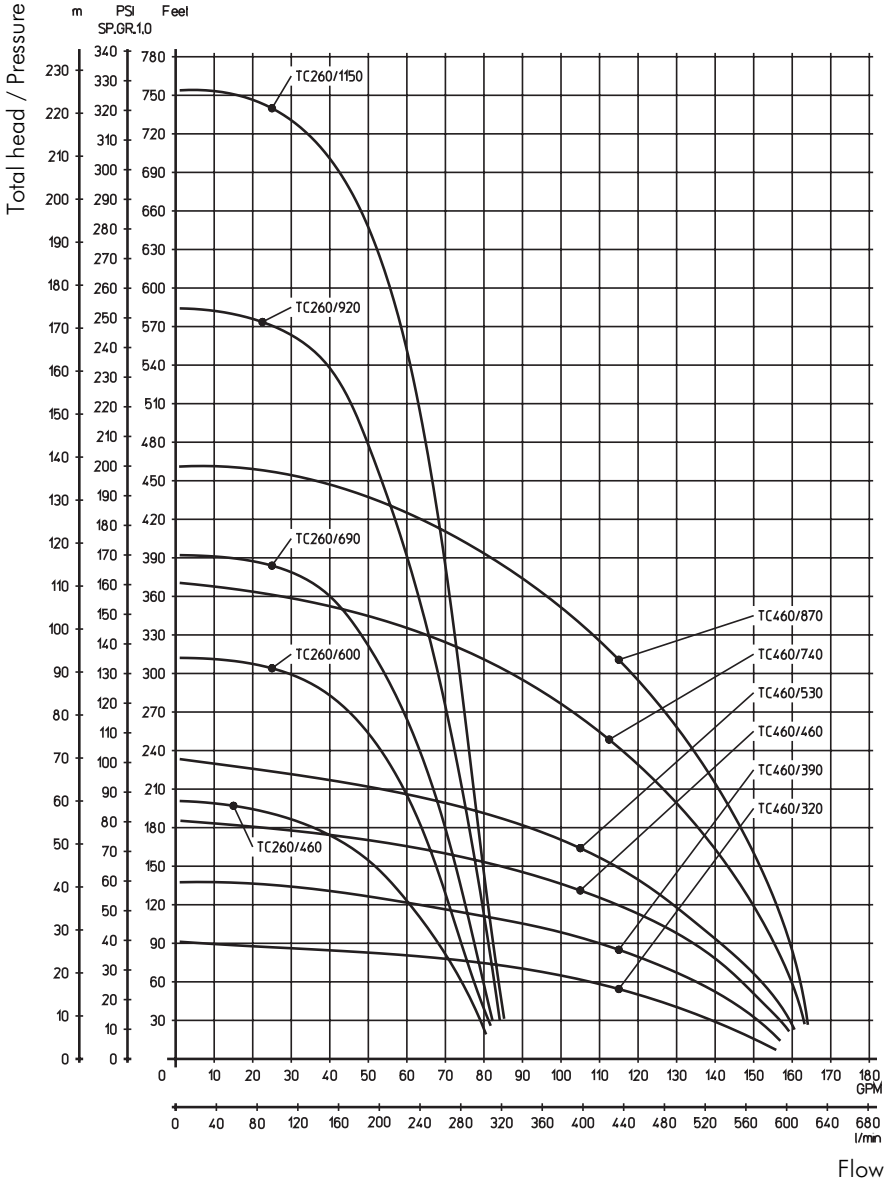
Types of fluid
- Industry water
- coolant
- cooling/cutting oils

Kinematical viscosity
- ...140 SSU (...30 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Materials of construction

Pump body	cast iron
Shafts	Cr-steel
Impellers	CrNi-steel
Diffusers	CrNi-steel
Intake strainer	CrNi-steel
Mechanical seal	SiC
Optional:	
Pole-changing motor	4 - 2 poles
Pump body	bronze
Noise level/50 Hz	
TC260/460	63 dBA
TC260/600- 690	70 dBA
TC260/920-1150	74 dBA
TC460/320	63 dBA
TC460/390-530	70 dBA
TC460/740-870	74 dBA

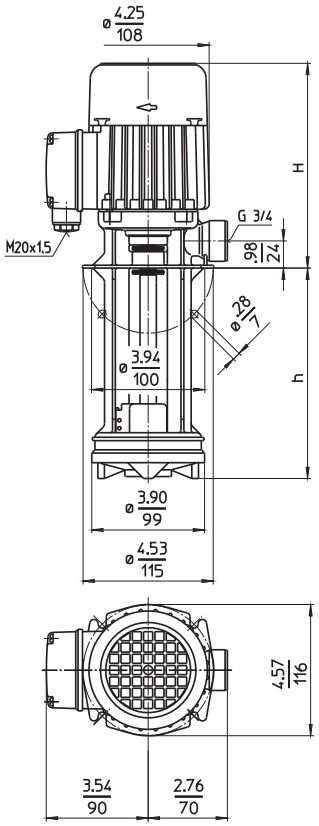


Immersion Pumps in Plastics
KTF61...KTF63

Semi-open impellers

60 Hz

KTF61, 62, 63



Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*		Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~	Frequency Hz	Current AMPS	Speed RPM
KTF61S120	7.5/25 *25/8*	7.1 *181*	4.65 *118*		6.4	*2.9*	0.19 *0.14*	208-230 460	60 60	0.82 0.41	3200 3200
170			6.61 *168*		6.6	*3.0*					
220			8.58 *218*		6.8	*3.1*					
270			10.55 *268*		7.3	*3.3*					
KTF62S150	7.5/50 *25/15*	7.1 *181*	5.94 *151*		7.9	*3.6*	0.3 *0.22*	208-230 460	60 60	0.95 0.55	3200 3200
200			7.91 *201*		8.2	*3.7*					
250			9.88 *251*		8.4	*3.8*					
300			11.85 *301*		8.8	*4.0*					
KTF63S190	7.5/68 *25/22*	8.4 *214*	7.24 *184*		10.1	*4.6*	0.38 *0.28*	208-230 460	60 60	1.6 0.8	3200 3200
240			9.21 *234*		10.6	*4.8*					
290			11.18 *284*		11.0	*5.0*					
340			13.15 *334*		11.5	*5.2*					

60 Hz

Immersion Pumps in Plastics

series KTF are suitable for various **water supply applications.**
These pumps are also suitable for a wide range of **chemical liquids.**
No shaft seal is required, due to the construction.

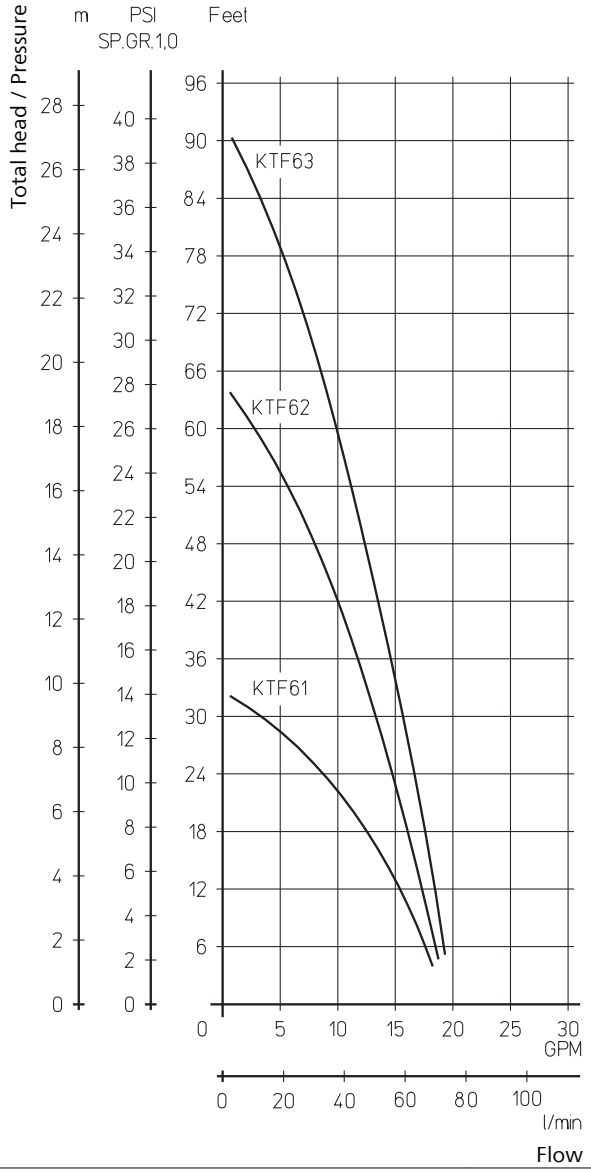
Applications

Types of fluid
Industry water; warm, cold, with and without chemical admixtures, distilled, de-ionnized
Kinematic viscosity
...66 SSU (...12 mm²/s)
Pumping temperature
15...140 °F (-10...+60 °C)

Construction

Pump body	PPS
Cover	PPS
Impellers	PPS
Shaft	Cr-steel
Noise level	
KTF61...KTF63	55 dBA

For position of terminal box, see mechanical features within the technical information section.

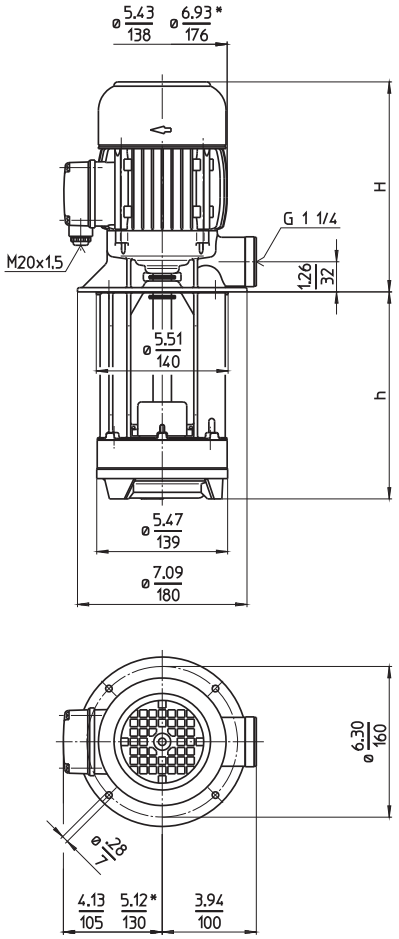


Immersion Pumps in Plastics
KTF151...KTF153

Semi-open impellers

60 Hz

KTF151...153



Dimensions in Inches / mm
*) Dimensions KTF153

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
KTF151S140	35/30 *120/10*	8.8 *223*	5.51 *140*	15.4	*7.0*	0.7 *0.53*	208-230 460	60 60	2.6 1.3	3350 3350
220			8.66 *220*	16.3	*7.4*					
290			11.42 *290*	17.2	*7.8*					
370			14.57 *370*	18.1	*8.2*					
KTF152S180	35/60 *120/18*	10.3 *261*	7.09 *180*	20.7	*9.4*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
260			10.24 *260*	21.6	*9.8*					
330			12.99 *330*	22.5	*10.2*					
410			16.14 *410*	23.4	*10.6*					
KTF153S220	35/95 *120/28*	12.5 *318*	8.66 *220*	43.0	*19.5*	2 *1.5*	208-230 460	60 60	7.6 3.8	3400 3400
300			11.81 *300*	44.1	*20.0*					
370			14.57 *370*	45.2	*20.5*					
450			17.72 *450*	46.3	*21.0*					

60 Hz

Immersion Pumps in Plastics

series KTF are suitable for various **water supply applications.**
These pumps are also suitable for a wide range of **chemical liquids.**
No shaft seal is required, due to the construction.

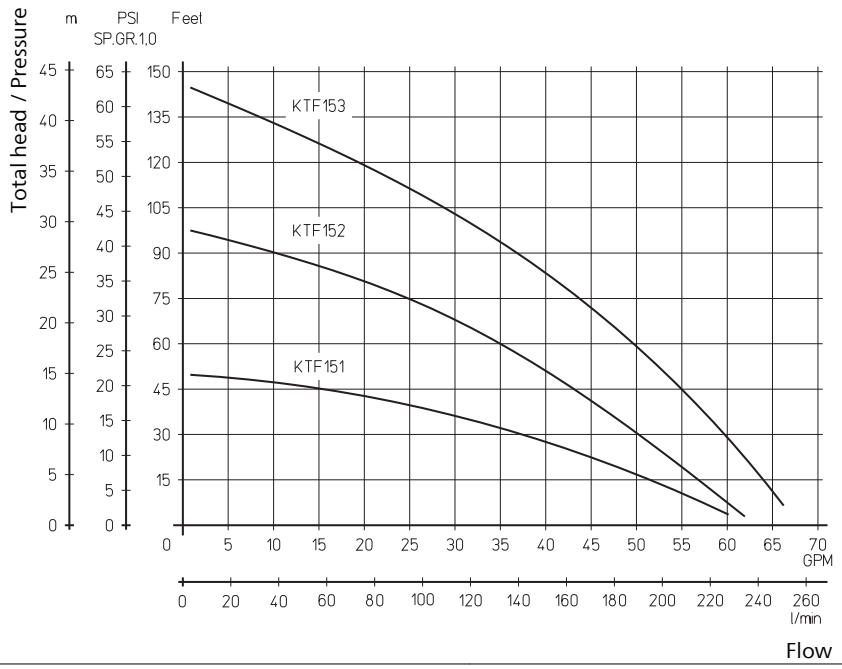
Applications

Types of fluid
Industry water; warm, cold, with and without chemical admixtures, distilled, de-ionnized
Kinematic viscosity
...66 SSU (...12 mm²/s)
Pumping temperature
15...140 °F (-10...+60 °C)

Construction

Pump body	POM
Cover	PPS
Impellers	PPS
Shaft	Cr-steel
Optional:	
Shaft	CrMo
Noise level	
KTF151...KTF152	61 dBA
KTF153	68 dBA

For position of terminal box, see mechanical features within the technical information section.

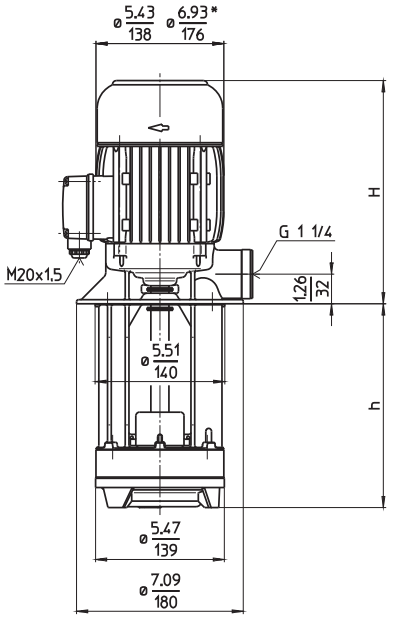


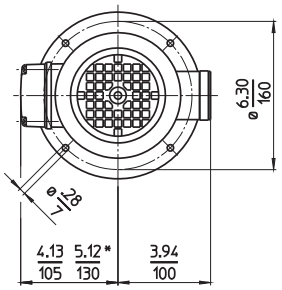
Immersion Pumps in Plastics
KTF301...KTF303

Semi-open impellers

60 Hz

KTF301...303





Dimensions in Inches / mm
*) Dimensions KTF302, 303

Type	Flow at head GPM /Feet *l/min /m*	Height H inch *mm*	Depth of immersion h inch *h mm*		Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~	Frequency Hz	Current AMPS	Speed RPM
KTF301S140	60/30 *220/10*	10.3 *261*	5.51 *140*		21.6	*9.8*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300
220			8.66 *220*		22.3	*10.1*					
290			11.42 *290*		23.2	*10.5*					
370			14.57 *370*		24.0	*10.9*					
KTF302S180	60/65 *220/20*	12.5 *318*	7.09 *180*		41.9	*19.0*	2 *1.5*	208-230 460	60 60	7.6 3.8	3400 3400
260			10.24 *260*		43.0	*19.5*					
330			12.99 *330*		44.1	*20.0*					
410			16.14 *410*		45.2	*20.5*					
KTF303S220	60/100 *220/32*	13.5 *343*	8.66 *220*		50.7	*23.0*	2.5 *1.9*	208-230 460	60 60	9.8 4.9	3400 3400
300			11.81 *300*		51.8	*23.5*					
370			14.57 *370*		52.9	*24.0*					
450			17.72 *450*		54.0	*24.5*					

BRINKMANN PUMPS

60 Hz

Immersion Pumps in Plastics

series KTF are suitable for various **water supply applications.**
These pumps are also suitable for a wide range of **chemical liquids.**
No shaft seal is required, due to the construction.

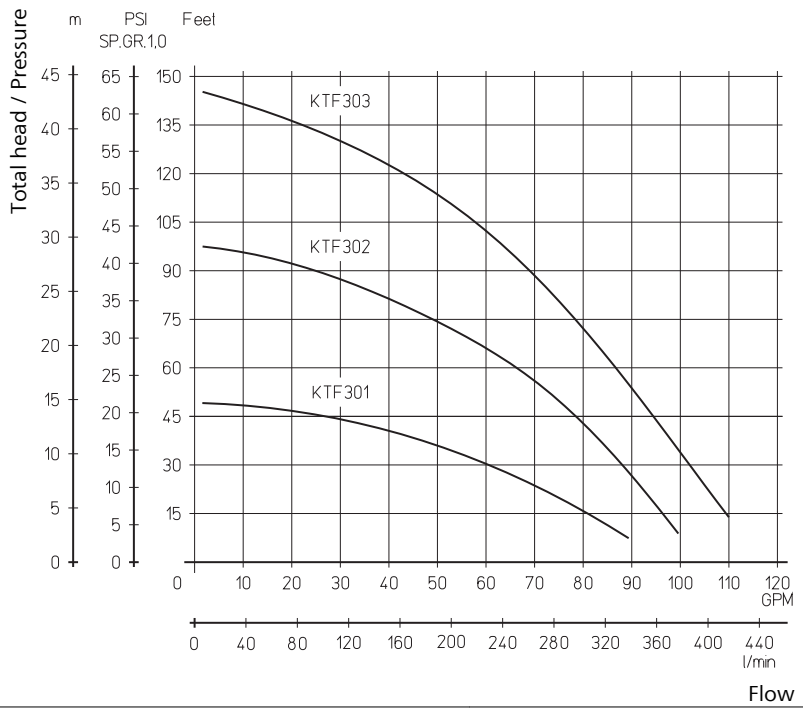
Applications

Types of fluid
Industry water; warm, cold, with and without chemical admixtures, distilled, de-ionnized
Kinematic viscosity
...66 SSU (...12 mm²/s)
Pumping temperature
15...140 °F (-10...+60 °C)

Construction

Pump body	POM
Cover	PPS
Impellers	PPS
Shaft	Cr-steel
Optional:	
Shaft	CrMo
Noise level	
KTF301	61 dBA
KTF302...KTF303	68 dBA

For position of terminal box, see mechanical features within the technical information section.

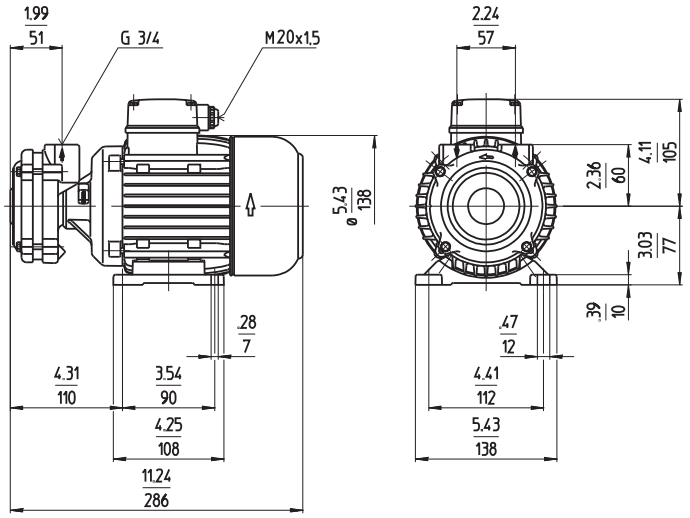


Miniature Centrifugal Pumps
KC60S

Peripheral impellers

60 Hz

KC60S self-priming



Dimensions in Inches / mm

Type	Flow at head GPM / Feet *l/min / m*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
KC60S	7.5/75 *30/20*	23.2	*10.5*	1.5 *1.1*	208-230 460	60 60	5.8 2.9	3300 3300

60 Hz

Miniature Centrifugal Pumps

series KC60 are suitable for pumping thin-bodied fluids.
They operate according to the bypass duct principle and are self-priming after initial priming.

Applications

Types of fluid
- Industry water
- coolants
- fuel oil

Kinematic viscosity
- ...66 SSU (...12 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Suction height
- 6.6 feet (2 m) without foot-located valve
- 20 feet (6 m) with foot-located valve

Construction

Cover	bronze
Impeller	brass
Shaft	Cr-steel
Gasket	Viton ®
Noise level	
KC60S	68 dBA

Terminal box position
Standard pos. 3

See mechanical features within the technical information section.

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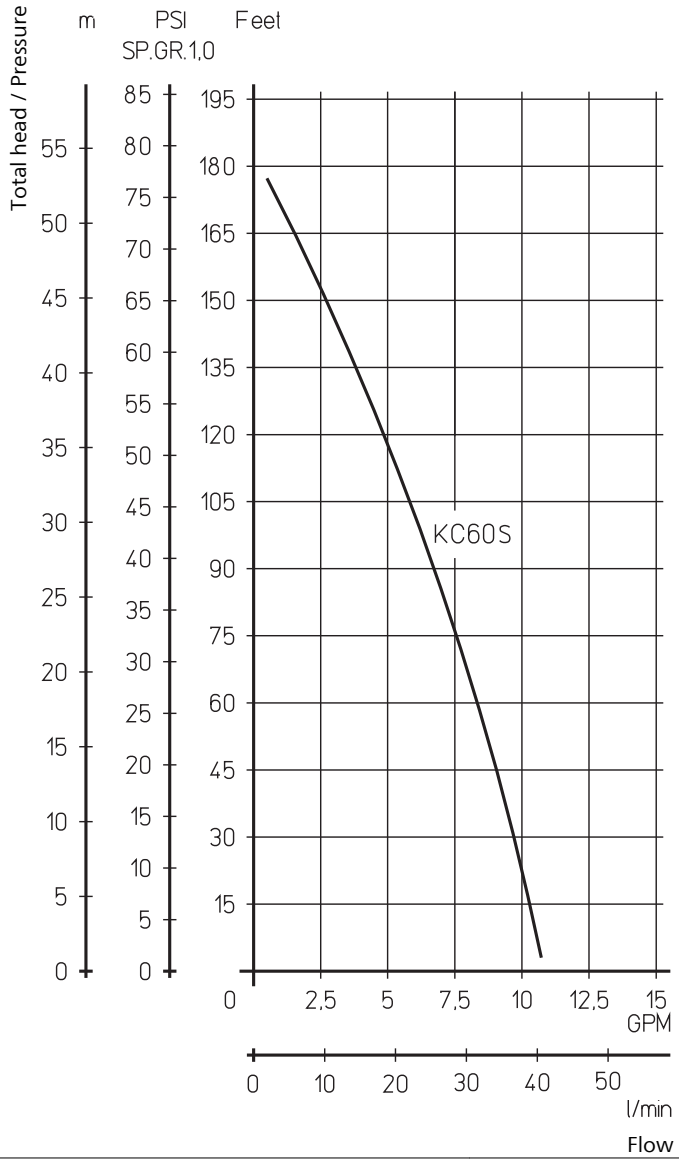
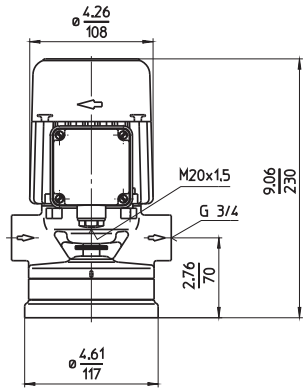


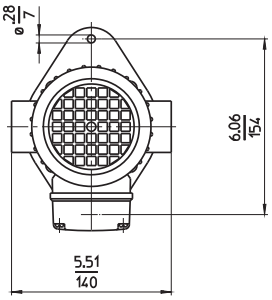
Suction Pumps
SB20S...60S

Open impellers

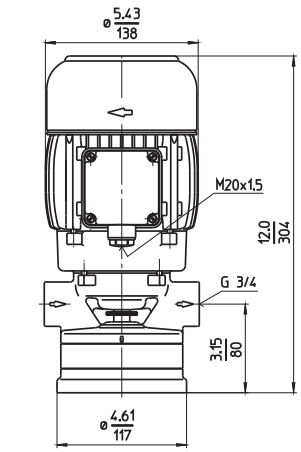
60 Hz

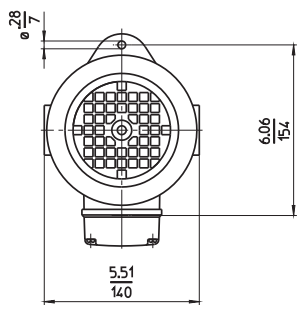
SB20S, SB40S





SB60S





Type	Flow at head GPM /Feet *l/min /m*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
SB20S	5/10 *20/2*	12.8	*5.8*	0.19 *0.14*	208-230 460	60 60	0.82 0.41	3200 3200
SB40S	10/12 *40/3*	14.1	*6.4*	0.3 *0.22*	208-230 460	60 60	0.95 0.55	3200 3200
SB60S	10/30 *60/2*	21.8	*9.9*	0.85 *0.63*	208-230 460	60 60	3.0 1.5	3250 3250

Dimensions in Inches / mm

BRINKMANN PUMPS

60 Hz

Suction Pumps

are self-priming after initial priming and operate according to the bypass duct principle. We recommend pump models featuring bronze body elements for pumping water without anticorrosion additives.
The dimensions are based on standard specification **EN 12157**.

Applications

Types of fluid
- coolants
- cooling/cutting oils
- fuel oil
- water (with anticorrosive additive)

Kinematic viscosity
- ...280 SSU (...60 mm²/s)

Pumping temperature
- 30...175 °F (0...80 °C)

Suction height
- 6.6 feet (2 m) without foot-located valve
- 20 feet (6 m) with foot-located valve

Construction

Pump body	cast iron
Cover	cast iron
Impeller	brass
Shaft	steel
Mechanical seal	graphite based
O-rings	Viton ®
Optional:	
Pump body	bronze
Cover	bronze
Impeller	CrNi-steel
Noise level	
SB20S...SB40S	64 dBA
SB60S	67 dBA

Terminal box position
Standard pos. 2

See mechanical features within the technical information section.

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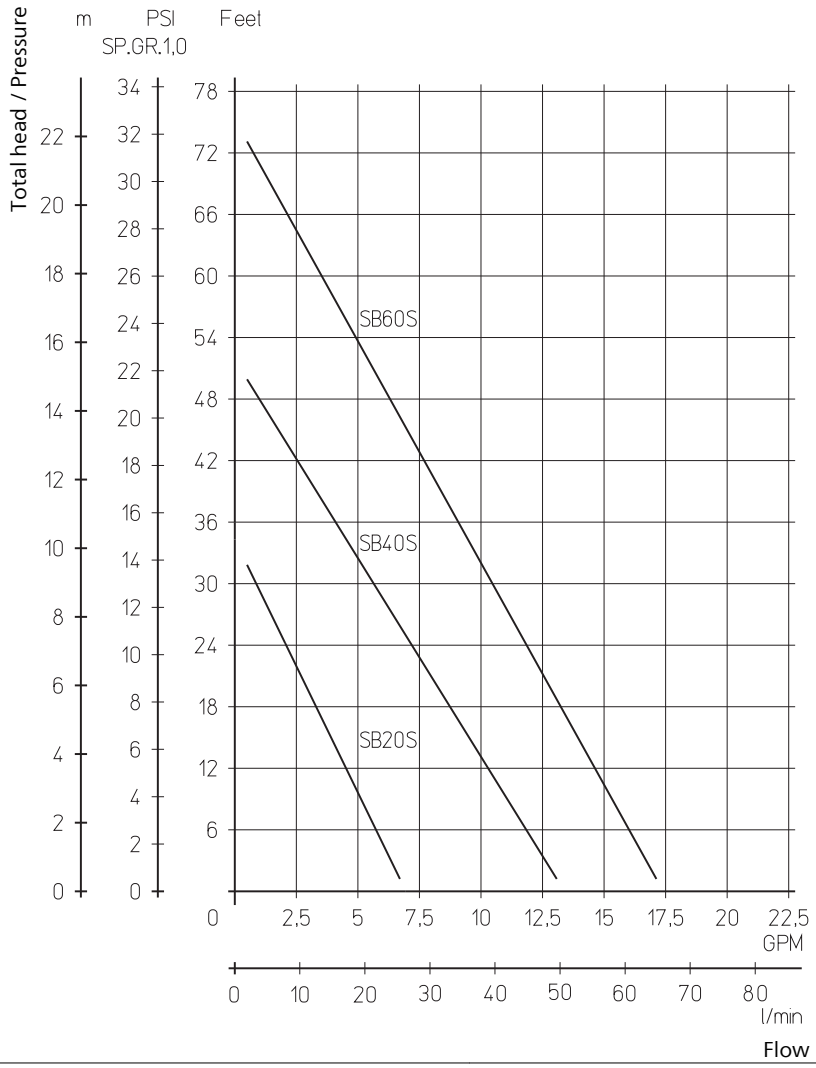
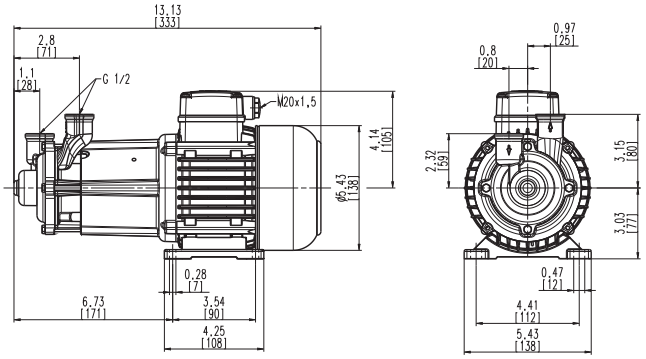


Miniature Centrifugal Pumps
BMK3...BMK4

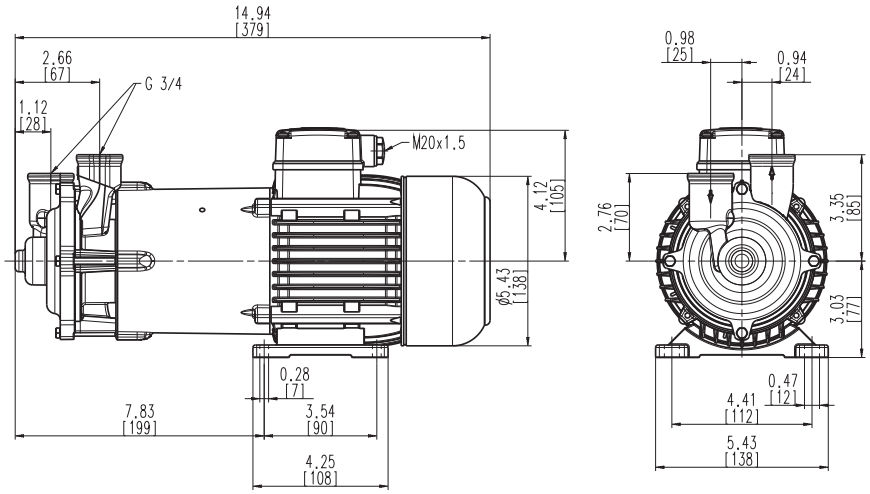
Peripheral impellers

60 Hz

BMK3



BMK4



Dimensions in Inches / mm

Type	Flow at head GPM /Feet *l/min /m*	Weight Lbs	*kg*	Power HP *kW*	Voltage 3 ~ V	Frequency Hz	Current AMPS	Speed RPM
BMK3	5/120 *20/31*	19.8	*9*	0.69 *0.52*	208-230 460	60 60	2.80 1.34	3400 3400
BMK4	5/135 *20/42*	25.4	*11.5*	1.25 *0.92*	208-230 460	60 60	5.4 2.7	3300 3300

60 Hz

Miniature Centrifugal Pumps

of the **BMK series** have been desined for **clean water circuits** of up to 320° F (160° C) fluid temperature and up to **100 psi (7 bar)** of system pressure.

The pumps are equipped with a magnetic coupling. The pumps can be mounted vertically or horizontally. The specific design allows the pumps to operate without wear poor.

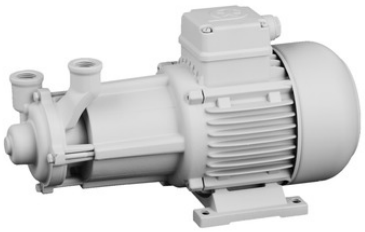
Applications

Types of fluid

Industry water up to 320 °F (160° C) with a system pressure of 100 psi (7 bar)

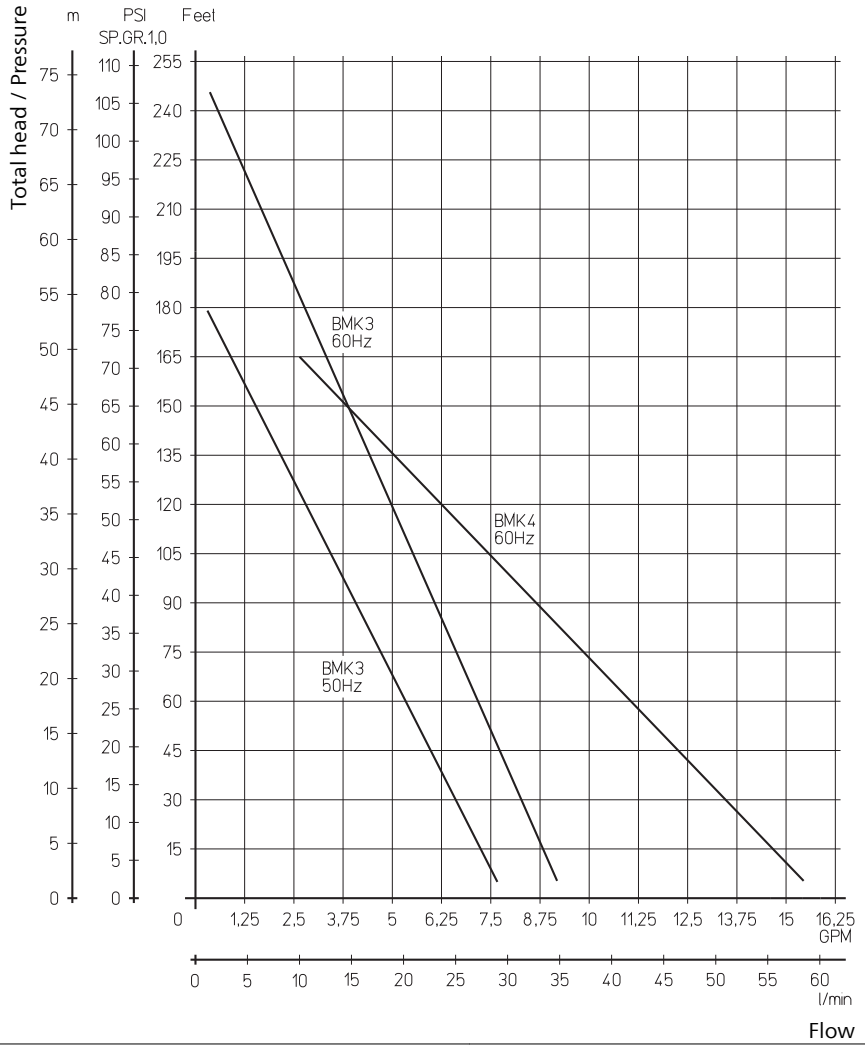
Construction

Pump body	CrNi-steel
Cover	CrNi-steel
Impeller	CrNi-steel
Shaft	Ceramic
Gasket	Split-case
Noise level	
BMK3	68 dBA
BMK4	69 dBA



Terminal box position
Standard pos. 3

See mechanical features within the technical information section.



Brinkmann Pumps Inc.
Terms and Conditions

The following terms and conditions govern all quotations made by Brinkmann Pumps Inc. („Brinkmann") and any orders based upon these quotations. No contract term or condition shall be amended, deleted or added without the express written consent of Brinkmann, and Brinkmann hereby rejects any terms set forth in any other writing which are in addition to or different from the terms in this quotation.

These items and conditions and any other terms and conditions delivered in writing by an authorized agent of Brinkmann contemporaneously herewith constitute the complete agreement between Brinkmann and the buyer and supersede all prior oral, written or printed statements of any kind (including any terms and conditions submitted by the buyer and performance or production data from any source whatsoever, including references to accuracy, capacity, and capability of products, all of which are estimates only) made by Brinkmann or the buyer or their respective representatives. No statement, recommendation or assistance given by Brinkmann or its representatives to buyer or its representatives, in connection with the use of any products by buyer, shall constitute a waiver by Brinkmann of any of the provisions hereof or affect Brinkmann's liability, as defined herein. All transactions covered hereby and all terms and conditions of sale shall be governed by the laws of the state of Michigan.

Prices
The products offered in this proposal and the prices quoted are based on our understanding of buyer's requirements; any change in requirements will necessitate a revision in prices quoted. Prices are F.O.B. our dock, Wixom, Michigan, or other location as specified on proposal. Brinkmann's prices do not include sales, use, excise, or similar tax, applicable to the sale or use of the equipment proposed. These taxes shall be paid by the buyer, or in lieu thereof, the buyer shall provide Brinkmann with a tax exemption certificate acceptable to the taxing authorities.

Delays or failure to deliver
Brinkmann shall not be responsible for delay or failure to deliver due to acts of God, or to government action (civil or military), or to prior orders, or to fire, embargo, strike or other labor problems, wrecks, delays in transportation, unusually severe weather or inability to obtain necessary labor or materials from the usual source of supply, or any other circumstances beyond Brinkmann's control. Brinkmann shall have the right to furnish suitable substitutes for materials which cannot be obtained because of such force majeure.

Installation
Buyer shall install at its own expense, all products covered hereby in accordance with the operating instructions to be furnished to buyer upon request. Unless otherwise stated, no installation services are included in the price indicated.

Limited warranty
Brinkmann warrants to the buyer (but not to any others) for a period of one year from date of shipment that all new parts are free from defects in material and workmanship.
Brinkmann's said warranty shall exist only if buyer gives written notice to Brinkmann within ten days after the first determination that the part is defective and within the aforesaid one year period from the date of shipment and includes in said notice consent to Brinkmann to inspect, at any reasonable time, said part and the machine in which it may be embodied, and if, and only if, Brinkmann determines to its reasonable satisfaction upon said inspection that said part and the machine in which it may be embodied are, and have been, used in accordance with all Brinkmann's instructions as to maintenance and operation set forth in the operating instructions relating to the machine. Brinkmann's warranty is limited to shipping to buyer replacement of any part which is so proven to be defective and in any event shall have **no liability whatsoever for incidental or consequential damage or loss of profit**, including damages resulting from personal injury or death, or damage to, or loss of use of, any property. Brinkmann is not responsible for shipping costs or labor, extends no warranty of any kind for gasket, seals and wear and tear materials. Notwithstanding any provisions of these terms and conditions, **this warranty is the only warranty extended by Brinkmann in connection with any sales of products and is in lieu of all other warranties, express or implied, including warranties of merchantability or fitness for purpose**. No agent, employee or representative of Brinkmann has any authority to bind Brinkmann to any affirmation, representation, or warranty concerning the products that are the subject of this quotation beyond that specifically included in the written quotation. Brinkmann shall have no obligation to install or provide improvements or changes in design adapted by Brinkmann for similar equipment subsequent to acceptance of buyer's order.

Warranties have been discussed and understood by both parties.

Buyer's use and O.S.H.A.
Buyer shall use and require all persons operating the equipment to use all proper and safe operating procedures set forth in operating instructions relating to the equipment and observe all occupational safety health and standards act (O.S.H.A.), American National Standard Institute (ANSI), and state regulations as required and all available, feasible and practical point of operation safety devices consistent with buyer's use of the equipment. Buyer shall not remove or modify, any device, warning sign, operating instructions or work handling tools installed on or attached to the equipment. Buyer shall notify Brinkmann promptly, in writing, and in all events within ten (10) days after its occurrence, of any accident or malfunction involving any equipment which results in injury to or death of persons or damage to property, or the loss of use thereof and buyer shall cooperate fully with Brinkmann in investigation and determining the cause of any such occurrence of malfunction. At Brinkmann's request made at any time, buyer will either at its or Brinkmann's place of business, permit to redesign, remodel or revise the equipment and buyer waives any claims against Brinkmann for buyer's inability to use the equipment during the time that same is out of service for such revision, modification or redesign.

Brinkmann shall not be responsible for any failure to comply which results from the location, operation, design, use or maintenance of the equipment from alternation of the equipment by persons or firms other than Brinkmann, or from an option or accessory to the equipment by persons or firms other than Brinkmann, which was available to the buyer but omitted at the buyer's direction, or from design or instructions furnished by the buyer or its agents. In view of the above, Brinkmann does not make any warranties with respect to O.S.H.A. requirements, including noise; and will not be responsible for fines, penalties, or consequential damages.

Payment terms
Net payment in full of all invoices is due thirty (30) days net, unless stated otherwise in quotation. Any unpaid balance thereafter shall be subject to a service charge of 1.75 % per month or, if illegal, at the highest rate allowed by law. There shall be no extension or change in the time for payment due to delay in instal-

lation and/or delays in operation of the equipment caused by damage, warranty service or warranty replacement of parts. If after Brinkmann's acceptance of buyer's purchase order, buyer requests Brinkmann to delay shipment of the equipment, the purchase price shall become due and owing thirty (30) days after the equipment is ready for shipment.

If buyer fails to pay the purchase price as provided herein and Brinkmann institutes a lawsuit for the collection of said price, buyer agrees to pay Brinkmann's reasonable attorney fees incurred in connection therewith.

Acceptance of orders
Quotations are offered for written acceptance within thirty (30) days from date (unless otherwise stated) but are subject to change without notice at any time before acceptance. If any order contains printed, stamped or other provisions inconsistent or in conflict with the terms and conditions hereof, the terms and conditions hereof shall control, unless otherwise specifically stated by Brinkmann in writing. All clerical errors are subject to correction in favor of either party upon notice of either party. All orders are subject to the credit approval of Brinkmann. An order containing subject matter not within the contemplation of the proposal shall be subject to a further quotation as to price or delivery or both. Modifications, changes, deferred shipments, cancellations or additions will be effective only if accepted by Brinkmann in writing and then only upon terms that will indemnify Brinkmann against all costs and losses.

Title and security agreement
Delivery to carrier shall constitute transfer to the buyer, and all risk of loss or damage in transit shall be borne by the buyer.

By execution of a purchase order, buyer hereby grants to Brinkmann a security interest in the equipment covered by the proposal, and its products and/or proceeds in order to secure the payment of the purchase price thereof and buyer authorizes to file financing statements reflecting this security interest without buyer's signature. Buyer will cooperate with Brinkmann in preparing documents necessary to perfect this security interest.

Proprietary and other materials
This quotation and all drawings, specifications, materials, patterns, and special purpose manufacturing aids which are supplied to buyer by Brinkmann shall be kept in confidence and shall be listed and maintained in suitable condition at the expense of buyer and are to be considered the property of Brinkmann held on consignment by buyer and to be insured while in buyer's possession. Such articles and all copies thereof from any source shall be returned to Brinkmann at any time upon request and shall not be used for or by any third parties without the express written permission of Brinkmann.

Performance in event of default
In addition to the rights and remedies conferred upon Brinkmann by law, Brinkmann will not be required to proceed with the performance of any order or contract if buyer is in default in the performance of any order or contract with Brinkmann and in case of doubt as to buyer's financial condition, shipments under an order may be suspended or sent sight draft with bill of lading attached and Brinkmann may decline further shipments except for cash before shipment.

Hold harmless/indemnity
Except to the extent of the limited warranty set forth above and Brinkmann's own gross negligence or willful misconduct, buyer hereby:
(1) waives, releases and discharges any and all claims of any and every kind (including but not limited to injury or death of any person or damage to property), which it may have at any time against Brinkmann, its agents or employees, by reason of or arising out of any claimed improper design, specification or manufacture of the equipment sold hereunder, or of any claimed inadequate or insufficient safeguards or safety devices; and (2) covenants to indemnify and hold harmless Brinkmann, its agents and employees of, from and against any and all loss, damage, expense (including attorney's fees), claims, suits or liability which Brinkmann or any of its employees may sustain or incur at any time for or by reason of any injury or death of any person or persons or damage to any property, arising out of any claimed improper design or manufacture of the equipment sold hereunder, or of any claimed inadequate or insufficient safeguards or safety devices.

Electrical equipment
Motors, electrical equipment and wiring on the equipment quoted will be supplied in accordance with the manufacturer's standards. Unless specifically quoted they are not guaranteed to meet ordinances of any local governing body and the responsibility of conforming to any local ordinance is assumed by the buyer.

Inspection and testing, production estimates and performance
All working drawings or other materials provided by Brinkmann are for general information purposes only and may or may not relate to buyer's order or other equipment. Any specifications contained therein are not binding on Brinkmann except as expressly so stated. Brinkmann reserves the right to make, at any time, such changes in detail of design or construction as shall in the sole judgment of Brinkmann constitute an improvement over former practice. Production data, where given, are based on Brinkmann's careful analysis and understanding of the limits of accuracy, machinability of materials, amount of material to be removed, handling facilities provided, and location points but are nonetheless an estimate only and not guaranteed or warranted. In no event shall Brinkmann be responsible for performance figures supplied by other parties. If by written agreement the equipment is to be subject to acceptance tests before shipment, rejection under this clause must take place prior to shipment.

Returned equipment
In no case is equipment to be returned without first obtaining written permission from Brinkmann. Unless otherwise expressly agreed an order for equivalent value must accompany returned equipment and all such returned equipment will be accepted for credit only after inspection. Equipment returned without good cause and for which no credit is given shall be subject to a restocking charge. Buyer returning equipment must pay transportation charges and bear risks of loss or damage to goods while in transit. Acceptance of returned products by Brinkmann's receiving department shall not bind Brinkmann nor have any force or effect unless acceptance is made by Brinkmann in writing.

Application Questionnaire

BRINKMANN PUMPS

Fax	USA +248-926-9405	Date	
E-Mail	sales@brinkmannpumps.com		

Contact details	
Company	
Address	
Contact partner	
Telephone	
E-Mail	

Pump	
Application	
Requirement per year (each)	

Required performance data	
Flow rate (gpm / l/min.)	
Pressure (psi / bar)	
Delivery head (feet / m)	

Dimensions	
Immersion depth	

Medium to be pumped	
Type	
Temperature (°F / °C)	
Viscosity at pumping temperature (SSU / mm^2/s, cSt)	
Specific weight (kg/l)	
Percentage of solids by weight	
Size of solids (inch/inch / mm/mm)	
pH value	
Percentage of air in medium	

Pump materials	
Pump body	
Cover	
Impeller	
Shaft	
Seals	

Power Supply			
laid out for line power	☐ 3 x 400 V, 50 Hz	☐ 3 x 440 V, 60 Hz	☐ 3 x 208-230 V, 60 Hz
	☐ 3 x 415 V, 50 Hz	☐ 3 x 460 V, 60 Hz	☐ 3 x 200-220 V, 60 Hz
	☐ 3 x 380 V, 50 Hz	☐ 3 x 480 V, 60 Hz	☐ 1 x 115 V, 60 Hz
	☐ 3 x 200 V, 50 Hz	☐ 3 x 380 V, 60 Hz	☐ other:
	☐ 1 x 230 V, 50 Hz	☐ 3 x 400 V, 60 Hz	

Motor		
Protective system IP55		
Insulation class (F)		
Ambient temperature (°F / °C)		
Variable frequency drive (Hz)	from	to
on/off Cyles (per min)		
Motor connection plug HAN	☐ yes	

Other

The Brinkmann Pumps network – This is the way to find us.

BRINKMANN PUMPS has a global presence and direct representation throughout North America, Europe, and Asia. This ensures quick response times, competent consulting personnel and the highest level of service, which Brinkmann Pumps is known for, anytime and anywhere. Visit our website – where you will find all the contact details for our representative offices. Visit us and convince yourself of our capabilities.

Welcome to BRINKMANN PUMPS.

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