

Suction Immersion Pumps

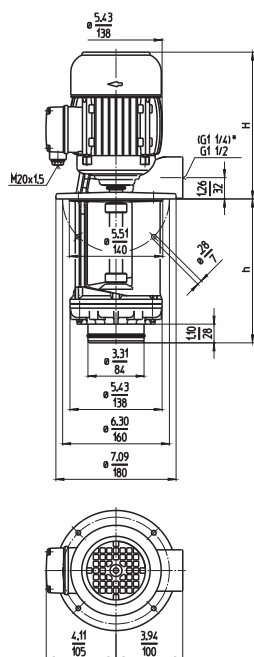
TAS/STS301...2000

Axial/semi-open impellers

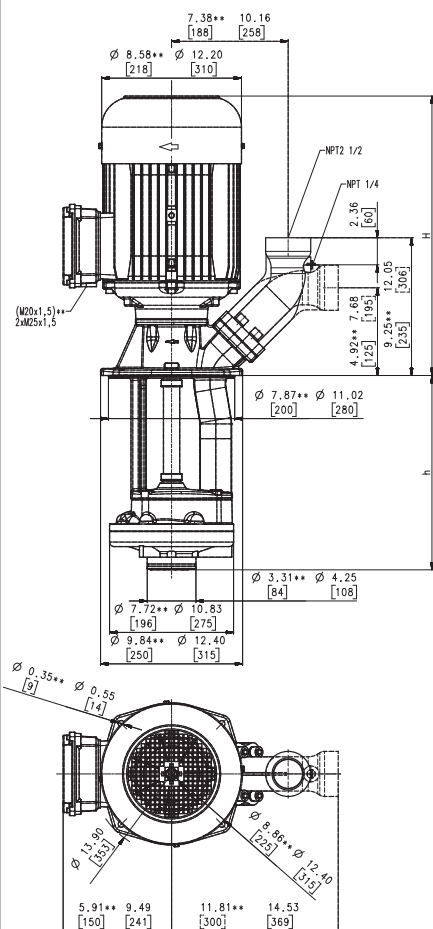


60 Hz

TAS301...601



STS1001, 2000



Type	Flow at head	Height	Depth of im- mersion		Weight		Power	Voltage	Fre- quen- cy	Current	Speed
	GPM /Feet l/min /m	H inch mm	h inch	h mm	Lbs	kg	HP kW	V	Hz	AMPS	RPM
TAS301S140	50/12	8.8	5.35	136	29.8	13.5	0.75	208-230	60	2.70	3250
	200/3	223					0.55	460	60	1.45	3250
	220		8.50	216	30.9	14.0					
	290		11.26	286	32.0	14.5					
	370		14.41	366	33.1	15.0					
	460		17.95	456	37.5	17.0					
TAS401S140	75/16	10.4	5.35	136	32.0	14.5	1.3	230	60	4	3450
	250/5	264					0.98	460	60	2	3450
	220		8.50	216	34.2	15.5					
	290		11.26	286	36.4	16.5					
	370		14.41	366	38.6	17.5					
	460		17.95	456	40.8	18.5					
TAS601S150	100/18	11.5	5.67	144	38.6	17.5	1.7	230	60	4.8	3440
	400/4	291					1.27	460	60	2.4	3440
	230		8.82	224	39.7	18.0					
	300		11.57	294	41.9	19.0					
	380		14.72	374	44.1	20.0					
	470		18.27	464	47.4	21.5					
STS1001S230	175/45	19.8	8.50	216	143.3	65	5.1	230	60	12.8	3520
	600/14	503					3.8	460	60	6.4	3520
	330		12.44	316	147.7	67					
	460		17.56	446	154.4	70					
	580		22.28	566	163	74					
	780		30.16	766	190	86					
STS2000S310	400/75	24.4	11.81	300	348	158	16.9	230	60	39.2	3560
	1600/21	620					12.6	460	60	19.6	3560
	440		16.93	430	353	160					
	560		21.65	550	368	167					
	810		31.50	800	406	184					
	1060		41.34	1050	419	190					

Dimensions in Inches / mm

*) Dimensions TAS301
Discharge port with NPT 2 inches available
upon request.

**) Dimensions STS1001

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

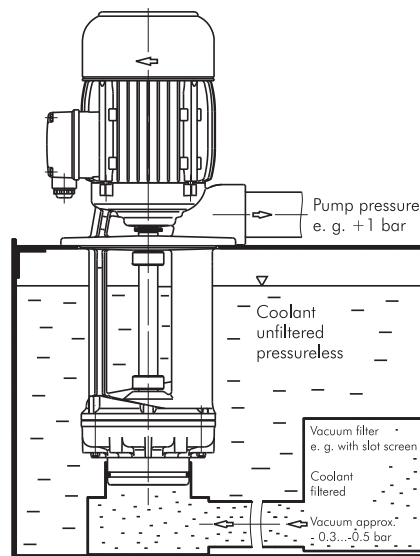
coolants
cooling/cutting oils

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	73 dBA
STS2000	79 dBA

Suction connection

Intake cover with O-Ring	cast iron 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	

