

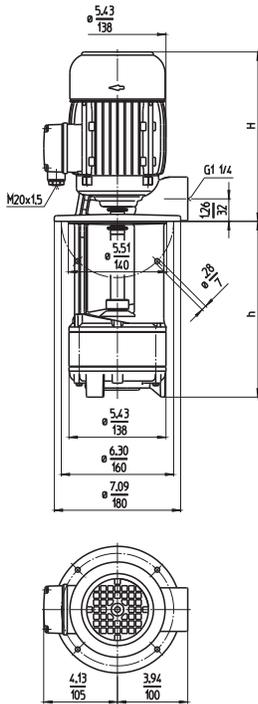
Immersion Pumps TA/STA301...306



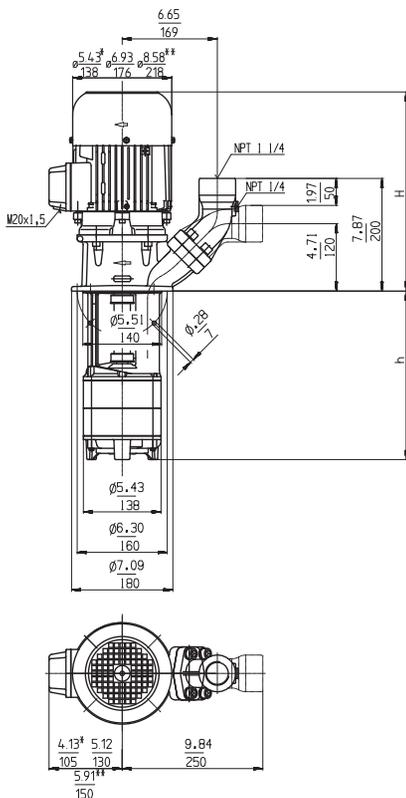
60 Hz

Semi-open impellers

TA302



STA301...306



Type	Flow at head	Height	Depth of immersion		Weight		Power	Voltage	Frequency	Current	Speed
	GPM /Feet	H inch	h inch	h mm	Lbs	kg	HP kW	V	Hz	AMPS	RPM
TA302S170	40/46	11.5	6.69	170	39.7	18	1.7	230	60	4.8	3440
	250		9.84	250	41.9	19	1.27	460	60	2.4	3440
	320		12.60	320	44.1	20					
	400		15.75	400	46.3	21					
	490		19.29	490	48.5	22					
	600		23.62	600	52.9	24					
STA301S120	40/30	13.1	4.72	120	45.2	20.5	1	208-230	60	3.02	3425
	200		7.87	200	47.4	21.5	0.725	460	60	1.46	3425
	270		10.63	270	49.6	22.5					
	350		13.78	350	51.8	23.5					
	440		17.32	440	55.1	25.0					
	550		21.65	550	58.4	26.5					
STA302S170	40/46	14.2	6.69	170	57.3	26	1.7	230	60	4.8	3440
	250		9.84	250	59.5	27	1.27	460	60	2.4	3440
	320		12.60	320	61.7	28					
	400		15.75	400	63.9	29					
	490		19.29	490	68.4	31					
	600		23.62	600	72.8	33					
STA303S220	40/76	15.0	8.66	220	79.4	36	2.3	230	60	6.2	3470
	300		11.81	300	81.6	37	1.75	460	60	3.1	3470
	370		14.57	370	83.8	38					
	450		17.72	450	86.0	39					
	540		21.26	540	88.2	40					
	650		25.59	650	92.6	42					
	850		33.46	850	105.8	48					
1000		39.37	1000	110.2	50						
STA304S270	40/105	17.3	10.63	270	99.2	45	2.9	230	60	7.8	3500
	350		13.78	350	101.4	46	2.18	460	60	3.9	3500
	420		16.54	420	103.6	47					
	500		19.69	500	108.0	49					
	590		23.23	590	110.2	50					
	700		27.56	700	114.7	52					
	900		35.43	900	127.9	58					
1050		41.34	1050	132.3	60						
STA305S320	40/135	17.3	12.60	320	110.2	50	3.9	230	60	10.2	3480
	400		15.75	400	112.5	51	2.94	460	60	5.1	3480
	470		18.50	470	114.7	52					
	550		21.65	550	116.9	53					
	640		25.20	640	119.1	54					
	750		29.53	750	123.5	56					
	950		37.40	950	138.9	63					
1100		43.31	1100	143.3	65						
STA306S370	40/165	18.8	14.57	370	138.9	63	5.1	230	60	12.8	3520
	450		17.72	450	141.1	64	3.8	460	60	6.4	3520
	520		20.47	520	143.3	65					
	600		23.62	600	145.5	66					
	690		27.17	690	147.7	67					
	800		31.50	800	152.1	69					
1000		39.37	1000	168	76						

Dimensions in Inches /mm
 *) Dimensions STA301, 302
 **) Dimensions STA306



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.



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 G 1 1/2 inlet
Impeller	cast steel
Other materials	on request
Noise level (Motor only; Tolerance +3 dBA)	
TA302...STA302	62 dBA
STA303...STA305	69 dBA
STA306	73 dBA

