

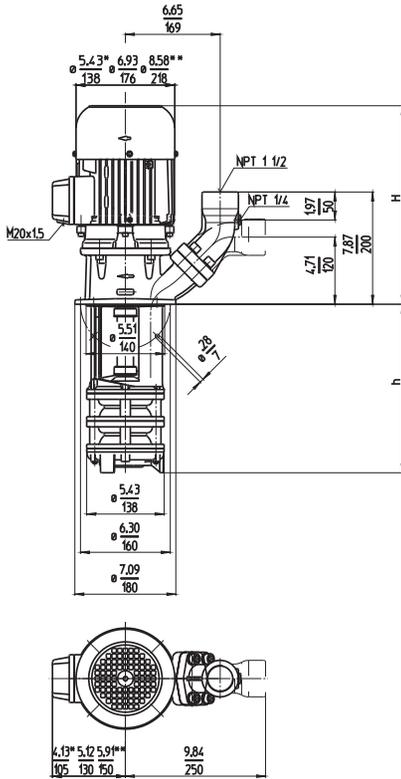
Immersion Pumps

STA401...407

Semi-open impellers



STA401...407



Dimensions in Inches / mm

*) Dimensions STA401

**) Dimensions STA405, 406, 407

Type	Flow at head	Height	Depth of im- mersion		Weight		Power	Voltage	Fre- quen- cy	Current	Speed
	GPM /Feet	H inch	h inch	h mm	Lbs	kg	HP kW	V	Hz	AMPS	RPM
STA401S120	60/24	13.1	4.72	120	47.4	21.5	1.3	230	60	4	3450
	200		7.87	200	49.6	22.5	0.98	460	60	2	3450
	270		10.63	270	51.8	23.5					
	350		13.78	350	54.0	24.5					
	440		17.32	440	56.2	25.5					
	550		21.65	550	60.6	27.5					
	750		29.53	750	75.0	34.0					
900		35.43	900	79.4	36.0						
STA402S170	60/45	15.0	6.69	170	68.4	31.0	2	230	60	5.4	3500
	250		9.84	250	71.7	32.5	1.49	460	60	2.7	3500
	320		12.60	320	73.9	33.5					
	400		15.75	400	76.1	34.5					
	490		19.29	490	78.3	35.5					
	600		23.62	600	81.6	37.0					
	800		31.50	800	97.0	44.0					
950		37.40	950	101.4	46.0						
STA403S220	60/70	17.3	8.66	220	88.2	40	2.9	230	60	7.8	3500
	300		11.81	300	90.4	41	2.18	460	60	3.9	3500
	370		14.57	370	92.6	42					
	450		17.72	450	94.8	43					
	540		21.26	540	97.0	44					
	650		25.59	650	101.4	46					
	850		33.46	850	114.7	52					
1000		39.37	1000	121.3	55						
STA404S270	60/92	17.3	10.63	270	97.0	44	3.9	230	60	10.2	3480
	350		13.78	350	99.2	45	2.94	460	60	5.1	3480
	420		16.54	420	101.4	46					
	500		19.69	500	105.8	48					
	590		23.23	590	108.0	49					
	700		27.56	700	112.5	51					
	900		35.43	900	125.7	57					
1050		41.34	1050	130.1	59						
STA405S320	60/120	18.8	12.60	320	125.7	57	5.1	230	60	12.8	3520
	400		15.75	400	127.9	58	3.8	460	60	6.4	3520
	470		18.50	470	130.1	59					
	550		21.65	550	132.3	60					
	640		25.20	640	134.5	61					
	750		29.53	750	141.1	64					
	950		37.40	950	154.4	70					
1100		43.31	1100	158.8	72						
STA406S370	60/145	18.8	14.57	370	130.1	59	6.1	230	60	15.8	3520
	450		17.72	450	134.5	61	4.55	460	60	7.9	3520
	520		20.47	520	136.7	62					
	600		23.62	600	138.9	63					
	690		27.17	690	141.1	64					
	800		31.50	800	145.5	66					
	1000		39.37	1000	161.0	73					
STA407S420	60/170	20.0	16.54	420	156.6	71	7.7	230	60	19.0	3520
	500		19.69	500	158.8	72	5.75	460	60	9.5	3520
	570		22.44	570	161.0	73					
	650		25.59	650	165	75					
	740		29.13	740	168	76					
	850		33.46	850	172	78					



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.



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 G 2 inlet
Impellers	cast steel
Noise level (Motor only; Tolerance +3 dBA)	
STA401	65 dBA
STA402...STA404	69 dBA
STA405...STA407	73 dBA

