

Turbine Impeller Mechanical Data

200.A.06

(Effective October 29, 2021)

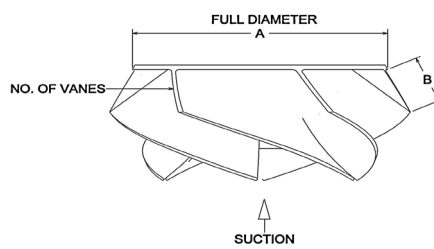


Figure 1 - Open Impeller

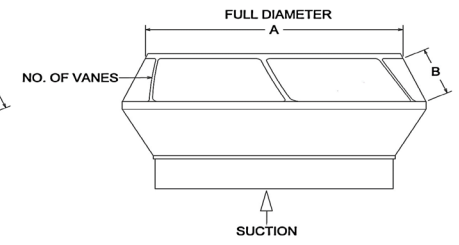


Figure 2 - Closed Impeller

MODEL	Allowable Lateral ¹ (in)		Allowable Sphere ² (in)	Impeller Identification									Impeller Weight (lbs.)	
	Bearing Type			A ⁵ = Inches			B ⁵ = Inches			No. of Vanes ⁵			Closed	Open
	Bronze	Rubber		L	M	H	L	M	H	L	M	H		
5A	0.50	NA	0.21	4.00	-	-	0.20	-	-	5	-	-	1.3	NA
5C	0.25	NA	0.41	3.72	-	3.72	0.43	-	0.43	5	-	8	1.6	NA
5T	0.25	NA	0.50	3.54	-	3.54	0.62	-	0.62	4	-	7	2.0	NA
5RWA	0.44	0.44	0.28	3.88	-	3.88	0.32	-	0.32	5	-	9	1.2	NA
6C	0.38	0.25	0.47	4.22	-	4.22	0.50	-	0.50	5	-	8	3.0	NA
6DH	0.44	0.44	0.50	3.75	-	3.75	1.00	-	1.06	4	-	7	2.6	2.2
6RA	0.37	NA	0.22	4.00	-	4.00	0.22	-	0.22	5	-	8	2.4	NA
7C	0.50	0.31	0.56	5.25	-	5.25	0.60	-	0.60	5	-	8	3.9	NA
7RA	0.25	NA	0.22	4.75	-	4.75	0.25	-	0.25	5	-	8	3.3	NA
7T	0.50	0.50	0.63	4.96	-	4.96	1.11	-	1.11	4	-	7	5.1	NA
7WA	0.50	0.31	0.38	5.40	-	5.40	0.45	-	0.45	5	-	8	3.0	NA
8FD	0.60	0.60	0.75	5.06	-	5.06	1.12	-	1.12	5	-	7	7.0	5.0
8RA	0.37	0.37	0.25	5.50	-	5.50	0.28	-	0.28	5	-	8	3.6	NA
8RJ	0.56	0.34	0.75	5.25	-	5.25	0.73	-	0.73	5	-	8	4.6	4.2
9WA	0.56	0.56	0.47	6.69	-	6.69	0.47	-	0.47	5	-	8	6.8	NA
9RC	0.88	0.88	0.75	6.88	-	6.88	0.78	-	0.78	5	-	8	7.8	NA
9T	0.75	0.75	0.78	6.44	-	6.44	1.44	-	1.44	4	-	7	8.6	NA
10DH	0.75	0.75	1.06	6.37	-	6.38	1.68	-	1.68	4	-	7	14.0	NA
10L	0.50	0.50	0.72	-	-	5.81	-	-	1.68	-	-	7	10.5	NA
10RA	0.50	0.50	0.47	6.69	-	6.69	0.47	-	0.47	5	-	8	6.8	NA
10RJ	0.75	0.75	0.75	6.62	6.62	6.63	0.95	0.95	0.95	5	6	8	9.0	6.5
10WA	0.75	0.75	0.50	7.31	-	7.31	0.60	-	0.60	5	-	8	7.4	NA
11C	0.88	0.88	0.88	8.13	8.13	8.13	0.90	0.90	0.90	5	7	8	14.0	10.0
11RA	0.50	0.50	0.53	8.00	-	8.00	0.55	-	0.55	5	-	8	13.0	NA
11WA	0.75	0.75	0.63	8.38	-	8.38	69.00	-	0.69	5	-	9	11.0	NA
12C	0.88	0.88	0.94	8.69	8.69	8.69	1.00	1.00	1.00	5	7	8	16.0	10.0
12FD	0.75	0.75	1.00	7.77	-	7.77	1.75	-	1.75	5	-	7	19.0	11.5
12FR	1.00	0.88	0.88	-	-	7.25	-	-	2.12	-	-	8	19.0	16
12WA	0.75	0.68	0.66	8.94	8.94	8.94	0.75	0.75	0.75	5	8	8	13.0	NA
12RJ	1.25	1.25	0.94	8.00	8.00	8.12	1.09	1.09	1.09	5	6	8	15.0	11.0
13C	0.88	0.88	0.94	9.20	9.20	9.20	1.01	1.01	1.01	5	7	8	22.0	NA
13RA	0.50	0.50	0.56	9.63	-	9.63	0.66	-	0.66	5	-	5	18	NA
14DH	0.75	0.75	0.87	9.06	-	9.06	2.33	-	2.33	4	-	7	NA	27
14F	1.00	1.00	1.75	-	-	9.88	-	-	1.96	-	-	7	29	NA
14RH	1.00	1.00	1.18	9.88	9.88	9.88	1.63	1.63	1.63	5	6	7	24	28
14RJ	1.31	1.31	1.06	9.83	9.83	9.83	1.40	1.40	1.40	5	6	8	24	27
15F	1.18	1.18	1.44	-	-	9.75	-	-	3.00	-	-	7	30	NA
16B	0.75	0.75	0.75	12.25	-	12.25	1.08	-	1.08	5	-	7	60	NA
16DH	0.88	0.88	1.06	10.44	-	10.44	2.68	-	2.68	4	-	7	49	49
16DM	0.88	0.88	1.19	-	11.62	-	-	1.41	-	-	7	-	62	NA
16RG	1.00	1.00	1.50	10.45	-	10.45	2.22	-	2.22	5	-	6	48	NA
18B	0.75	0.75	1.19	12.94	-	12.94	1.28	-	1.28	7	-	7	88	NA
18C	0.88	0.88	1.00	-	-	13.31	-	-	1.38	-	-	7	58	NA
18D	0.75	0.75	1.00	-	12.75	12.69	-	1.55	1.75	-	7	-	61	NA
18GX	1.00	1.00	1.37	-	-	12.12	-	-	2.52	-	-	5	63	NA
18H	0.56	0.56	1.88	-	12.62	-	-	2.50	-	-	5	-	65	NA
18L	1.00	1.00	1.88	-	-	10.41	-	-	2.78	-	-	6	88	NA
20B	0.81	0.81	1.19	-	-	14.25	-	-	1.26	-	-	7	95	NA
20RC	1.25	1.25	1.56	15.63	-	15.63	1.82	-	1.82	5	-	7	85	NA
20E	0.75	0.75	2.00	13.31	-	13.31	1.97	-	1.97	5	-	6	68	NA
20G	1.13	1.13	1.56	13.50	-	13.50	3.00	-	3.00	5	-	6	77	NA
24C	1.00	1.00	1.62	19.00	-	19.00	1.94	-	1.94	5	-	7	138	NA
24D	1.18	1.18	1.62	-	17.38	-	-	2.09	-	-	7	-	158	NA
24E	0.63	0.63	2.00	15.56	-	15.56	2.29	-	2.29	5	-	6	83	NA
24F	1.37	1.37	2.50	-	-	16.11	-	-	3	-	-	6	116	NA
24G	1.50	1.50	2.50	15.81	-	15.50	3.38	-	3.45	5	-	6	150	NA
26G	1.00	1.00	2.75	-	-	17.62	-	-	3.54	-	-	6	249	249
28B	1.13	1.13	1.50	19.44	-	19.44	2.46	-	2.46	5	-	7	174	NA
28G	1.50	1.50	3.00	-	-	18.26	-	-	3.67	-	-	6	193	238
30B	0.88	0.88	1.87	20.12	-	20.12	3.5	-	3.5	7	-	7	220	NA
30G	2.32	-	2.08	19.50	-	19.50	4.2	-	4.2	5	-	6	241	NA
32G	2.13	-	2.30	21.31	-	21.31	4.6	-	4.6	5	-	6	282	NA
34G	1.85	-	2.42	24.00	-	24.00	4.8	-	4.8	5	-	6	422	NA
36G	2.80	-	2.66	26.00	-	26.00	5.3	-	5.3	5	-	6	530	NA
40G	3.18	-	2.93	27.50	-	27.50	5.9	-	5.9	5	-	6	653	NA
44G	3.73	-	3.22	30.25	-	30.25	6.5	-	6.4	5	-	6	874	NA
48G	4	-	3.52	33.00	-	33.00	7	-	7	5	-	6	1090	NA

1: Lateral is the distance the impellers are allowed to travel within the bowl. The lateral is "set" during pump installation. Setting impellers too low results in impellers rubbing against the bowl seats and rapid pump failure. Setting impellers too high avoids the rubbing but could result in slight reduction of pump performance. The actual value to set the impellers depends on many factors.

2: Allowable Sphere is the approximate diameter of a solid that can pass thru the pump. Use a suction strainer to avoid these objects entering the pump.

5: Dimensions "A", "B", and the Number of Vanes are the same, whether an impeller is open or closed.