DA_1 多级离心泵

DA_1 series multi-stage centrifugal pump

山东颜山泵业有限公司

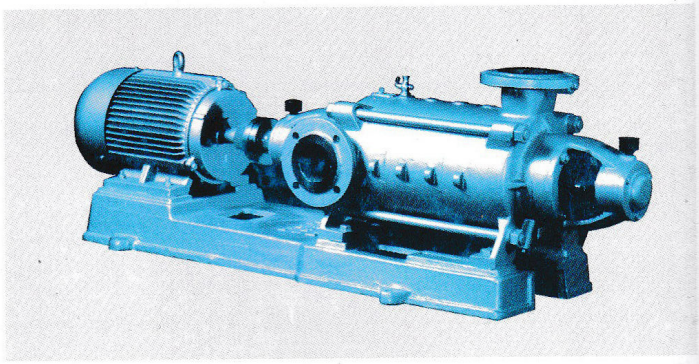
（SHANDONG YANSHAN PUMPS CO.,LTD）

Website: http://www.yanshanpump.com

Email: nathan_pump@163.com

Yanshan brand DA1 series multi-stage pump is single-suction multi-stage sectional centrifugal pump with high-efficiency and small volume. Pumps parts insist high-precision processing thchnic, and pump shaft adopts thermal refining. We always supply high quality pump .

DA1 series pump is suitable for delivering clear water without solids or liquids that their physical and chemical properties are samilar to clear water. It can also deliver corrosive liquid by changing the materials of impeller, sealing ring and sleeve etc. The liquid temperature not exceed 80 degree centigrade, it is used for mine drainage, factiry and urban water supply.



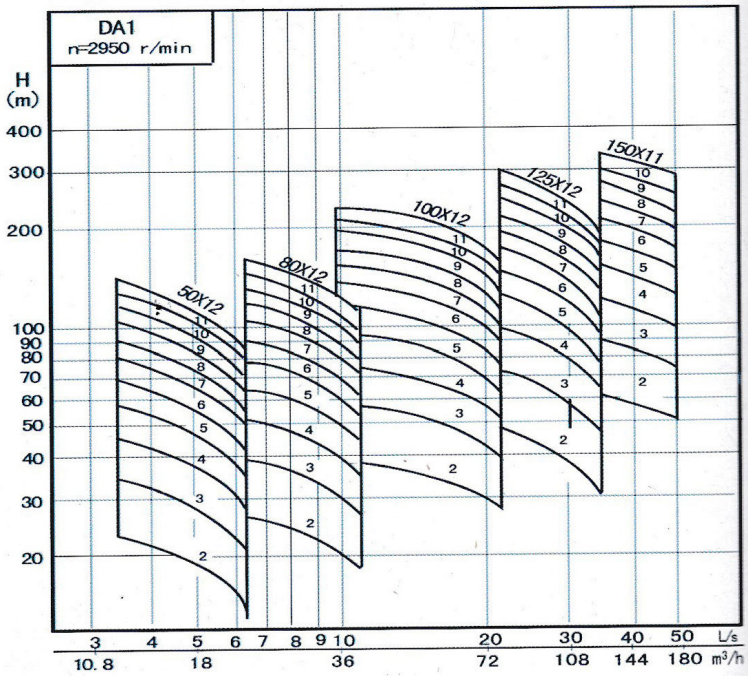
Model meaning:

DA1-80X5

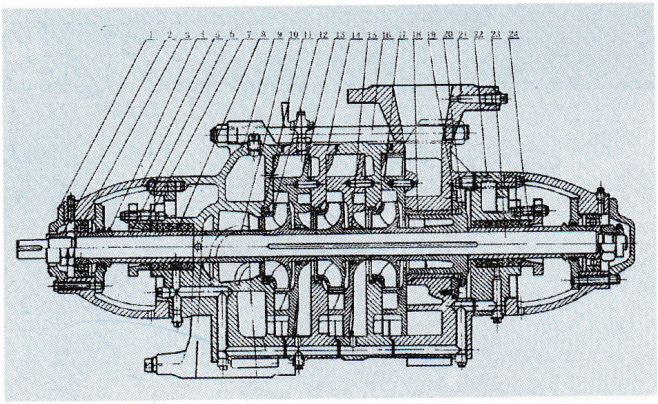
- Stage
- Dia. of discharge
- Single-suction multi-stage centrifugal pump

The direction of rotation of pump is clockwise from driving end

Performance curves



Structure diagram



1. Bearing cap
2. Nut
3. Bearing
4. Shaft sleeve
5. Bearing frame
6. Sleeve
7. Packing gland
8. Packing ring
9. Suction casing
10. Sleeve
11. Sealing ring
12. Impeller
13. Guide vane
14. Stage casing
15. Guide vane sleeve
16. Draw-in bolt
17. The guide vane of Discharge casing
18. Balance sleeve
19. Balance ring
20. Balance disk
21. Discharge casing
22. End cover
23. Shaft
24. Shaft sleeve

DA1-50 Performance parameters

Stage	Capacity m³/h	Capacity L/S	Head(m)	Speed rpm	Power (kw) Shaft power	Power (kw) Motor power	Eff. %	NPSHr (m)
2	12.6 18 23.4	3.5 5 6.5	23 19 13	2980	1.43 1.5 1.48	2.2	50 55 50	2
3	12.6 18 23.4	3.5 5 6.5	34.5 28.5 19.5		2.15 2.25 2.22	3	50 55 50	
4	12.6 18 23.4	3.5 5 6.5	46 38 26		2.86 3 2.96	4	50 55 50	
5	12.6 18 23.4	3.5 5 6.5	57.5 47.5 32.5		3.58 3.75 9.7	5.5	55 62 56	
6	12.6 18 23.4	3.5 5 6.5	69 57 39		4.29 4.5 4.44	5.5	55 62 56	
7	12.6 18 23.4	3.5 5 6.5	80.5 66.5 45.5		5.01 5.25 5.18	7.5	55 62 56	
8	12.6 18 23.4	3.5 5 6.5	92 76 52		5.72 6 5.92	7.5	55 62 56	
9	12.6 18 23.4	3.5 5 6.5	103.5 85.5 58.5		6.44 6.75 6.66	7.5	55 62 56	
10	12.6 18 23.4	3.5 5 6.5	115 95 65		7.15 7.5 7.4	11	55 62 56	
11	12.6 18 23.4	3.5 5 6.5	127 105 71.5		7.87 8.25 8.14	11	55 62 56	
12	12.6 18 23.4	3.5 5 6.5	138 114 78		8.58 9 8.08	11	55 62 56	

DA1-80 Performance parameters

Stage	Capacity m³/h	Capacity L/s	Head (m)	Speed rpm	Power (kw) Shaft power	Power (kw) Motor power	Eff. (%)	NPSHr (m)
2	25.2 32.4 39.6	7 9 11	25.6 22.7 17.6	2980	2.52 2.68 2.72	3	64 72 67	2.5
3	25.2 32.4 39.6	7 9 11	38.4 34.1 26.4		3.78 4.02 4.08	5.5	64 72 67	
4	25.2 32.4 39.6	7 9 11	51.2 45.4 35.2		5.04 5.36 5.44	7.5	64 72 67	
5	25.2 32.4 39.6	7 9 11	64 56.8 44		6.3 6.7 6.8	7.5	65.5 75 70.5	
6	25.2 32.4 39.6	7 9 11	76.8 68.1 52.8		7.56 8.04 8.16	11	65.5 75 70.5	
7	25.2 32.4 39.6	7 9 11	89.6 79.5 61.6		8.82 9.4 9.52	15	65.5 75 70.5	
8	25.2 32.4 39.6	7 9 11	102 90.8 70.4		10.08 10.7 10.88	15	65.5 75 70.5	
9	25.2 32.4 39.6	7 9 11	115 102 79.2		11.34 12.1 12.24	15	65.5 75 70.5	
10	25.2 32.4 39.6	7 9 11	128 114 88		12.6 13.4 13.6	18.5	65.5 75 70.5	
11	25.2 32.4 39.6	7 9 11	141 125 96.8		13.86 14.7 14.96	18.5	65.5 75 70.5	
12	25.2 32.4 39.6	7 9 11	154 136 106		15.12 16.1 16.32	18.5	65.5 75 70.5	

DA1-100 Performance parameters

Stage	Capacity m³/h	Capacity L/s	Head (m)	Speed rpm	Power (kw) Shaft power	Power (kw) Mctor power	Eff. (%)	NPSHr (m)
2	36 54 72	10 15 20	38.8 35.4 28.4	2980	6.57 7.2 7.65	11	58 71.5 73.5	3
3	36 54 72	10 15 20	58.2 52.8 42.6		9.89 10.8 11.5	15	58 71.5 73.5	
4	36 54 72	10 15 20	77.6 70.4 56.8		13.2 14.4 15.3	18.5	58 71.5 73.5	
5	36 54 72	10 15 20	97 88 71		16.5 18 19.1	22	58 71.5 73.5	
6	36 54 72	10 15 20	116 106 85.6		19.8 21.6 22.9	30	58 71.5 73.5	
7	36 54 72	10 15 20	136 123 99.4		23.1 25.2 26.7	37	58 71.5 73.5	
8	36 54 72	10 15 20	155 141 114		26.4 28.0 30.5	37	58 71.5 73.5	
9	36 54 72	10 15 20	175 158 128		29.7 32.4 34.4	45	58 71.5 73.5	
10	36 54 72	10 15 20	194 176 142		33 36 38.2	45	58 71.5 73.5	
11	36 54 72	10 15 20	213 194 156		36.3 39.6 43.7	55	58 71.5 73.5	
12	36 54 72	10 15 20	233 211 170		39.5 43.2 45.9	55	58 71.5 73.5	

DA1-125 Performance parameters

Stage	Capacity m³/h	Capacity L/s	Head(m)	Speed rpm	Power (kw) Shaft power	Power (kw) Motor power	Eff. %	NPSHr (m)
2	90 108 126	25 30 35	46 40 30	2980	15.2 15.6 15.4	22	75 76 73	2.8 3.2 4.5
3	90 108 126	25 30 35	69 60 45		22.8 23.4 23.1	30	75 76 73	2.8 3.2 4.5
4	90 108 126	25 30 35	92 80 62		30.4 31.2 30.8	37	75 76 73	2.8 3.2 4.5
5	90 108 126	25 30 35	116 100 75		38 39 38.5	45	75 76 73	2.8 3.2 4.5
6	90 108 126	25 30 35	138 120 90		45.6 46.8 46.2	55	75 76 73	2.8 3.2 4.5
7	90 108 126	25 30 35	161 140 105		53.2 54.6 53.9	75	75 76 73	2.8 3.2 4.5
8	90 108 126	25 30 35	184 160 120		60.8 62.4 61.6	75	75 76 73	2.8 3.2 4.5
9	90 108 126	25 30 35	207 180 135		68.4 70.2 69.3	90	75 76 73	2.8 3.2 4.5
10	90 108 126	25 30 35	230 200 165		76 78 77	90	75 76 73	2.8 3.2 4.5
11	90 108 126	25 30 35	253 220 165		83.6 85.8 84.7	110	75 76 73	2.8 3.2 4.5
12	90 108 126	25 30 35	276 240 180		91.2 93.6 92.4	110	75 76 73	2.8 3.2 4.5

DA1-150 Performance parameters

Stage	Capacity m³/h	Capacity L/s	Head (m)	Speed rpm	POWER (KW) Shaft power	POWER (KW) Motor power	Eff. %	NPSHr (m)
2	126 162 180	35 45 50	60.6 54.6 49.2	2980	30.4 31.5 31.4	37	68.6 76.6 76.8	3 3.3 3.5
3	126 162 180	35 45 50	90.9 81.9 73.8		45.6 47.2 47.2	55	68.6 76.6 76.8	3 3.3 3.5
4	126 162 180	35 45 50	121 109 98.4		60.8 62.9 62.9	75	68.6 76.6 76.8	3 3.3 3.5
5	126 162 180	35 45 50	152 137 123		76 78.7 78.6	90	68.6 76.6 76.8	3 3.3 3.5
6	126 162 180	35 45 50	182 164 148		91.2 94.4 94.3	110	68.6 76.6 76.8	3 3.3 3.5
7	126 162 180	35 45 50	212 191 172		106 110 110	132	68.6 76.6 76.8	3 3.3 3.5
8	126 162 180	35 45 50	242 218 197		122 126 126	160	68.6 76.6 76.8	3 3.3 3.5
9	126 162 180	35 45 50	273 246 221		137 142 142	160	68.6 76.6 76.8	3 3.3 3.5
10	126 162 180	35 45 50	303 273 246		152 158 158	200	68.6 76.6 76.8	3 3.3 3.5
11	126 162 180	35 45 50	333 300 270		167 173 173	200	68.6 78.6 78.8	3 3.3 3.5