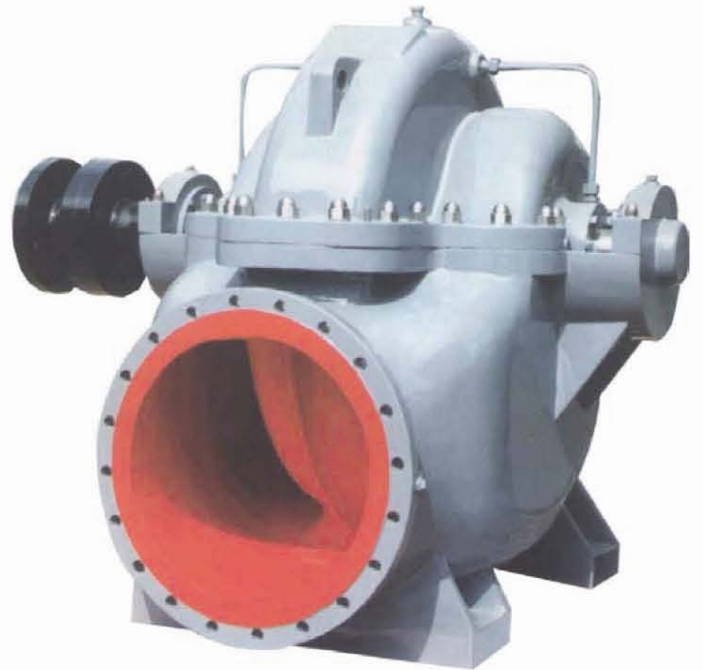


SA

Split Case Pump



SA Series pumps, are single-stage double suction split case centrifugal pumps designed for pumping of clean water or similar liquids without solids and within the temperature range of 0 ~ 80°C. Ideal for applications in water supply and drainage in municipal and industrial projects, mines, power stations, and water conservancy etc..

SA pumps, developed and structurally upgraded on the basis of S by introducing related new technologies from KSB and IR Co., are reliably optimized with improved hydraulic performance and high efficiency.

The horizontal installation constructed with the suction and discharge nozzles located in the lower part and in right angle to the pump shaft central line, makes it convenient to pull out the rotor after removing the pump cover when maintaining and repairing without disturbing the inlet and outlet piping. Medium contacted parts are selectable from ductile cast iron, cast steel and stainless steel upon request.

FEATURES

- Standardized design with generalized products series.
- Stable and safe operation.
- Applicable to sandy water, corrosive liquids and oils when materials are carefully selected.
- Easy and convenient servicing and maintenance.
- Oil and grease lubrication.

Performance Data

Flow Range: 72 ~ 13040m³/hr

Head Range: 6.8 ~ 143m

Fluid Temp.: 0 ~ 80°C

Model Nomenclature

- e.g. Model 10SA -6JA
- 10 – 1/25 of the Suction Dia. (mm)
- SA – Single-stage Double Suction Centrifugal Pump
- 6 – 1/10 of the Specific Speed

Variations

- J — Rated pump speed
(no indication when no change)
- A — Impeller Dia.
(no indication with Max. diameter)

Materials of Construction

Casing & Cover: Cast/ductile iron/Steel

Shaft: Carbon steel/SS

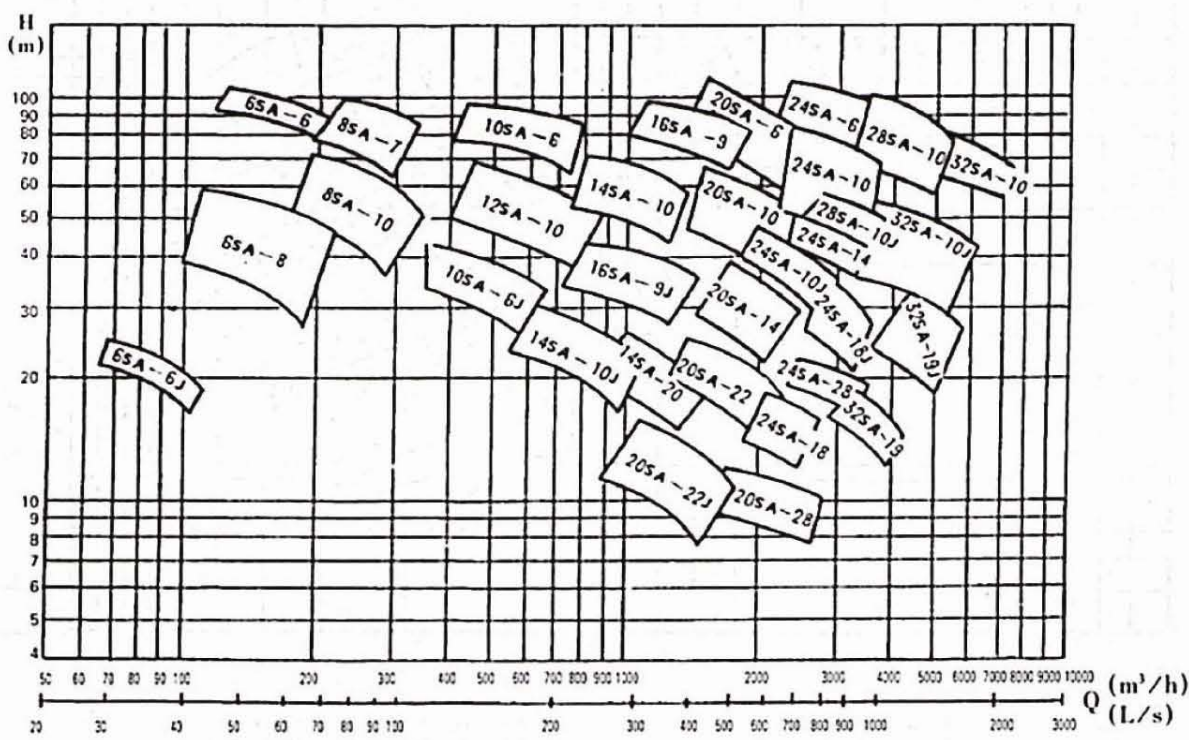
Impeller: Ductile cast iron, cast steel and St. St.

Sealing: Packing or mechanical

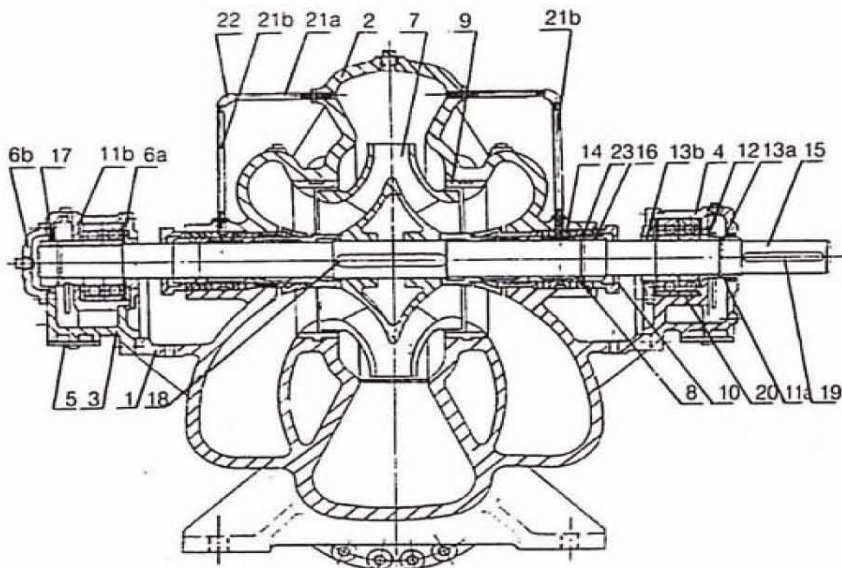
Shaft Sleeve: Cast iron/bronze

Seal Ring: Cast iron/bronze

SA Family Curves



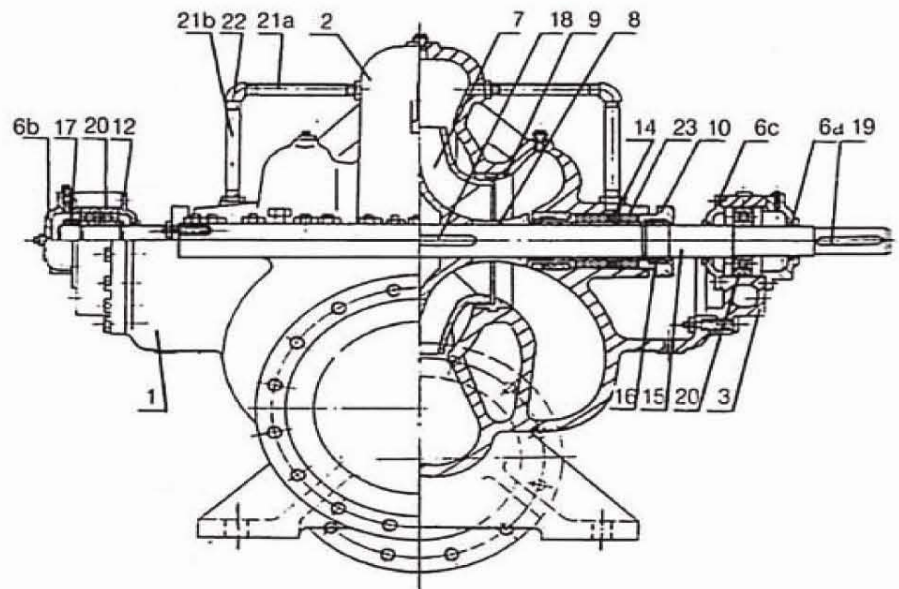
SA Configuration Drawing (A)



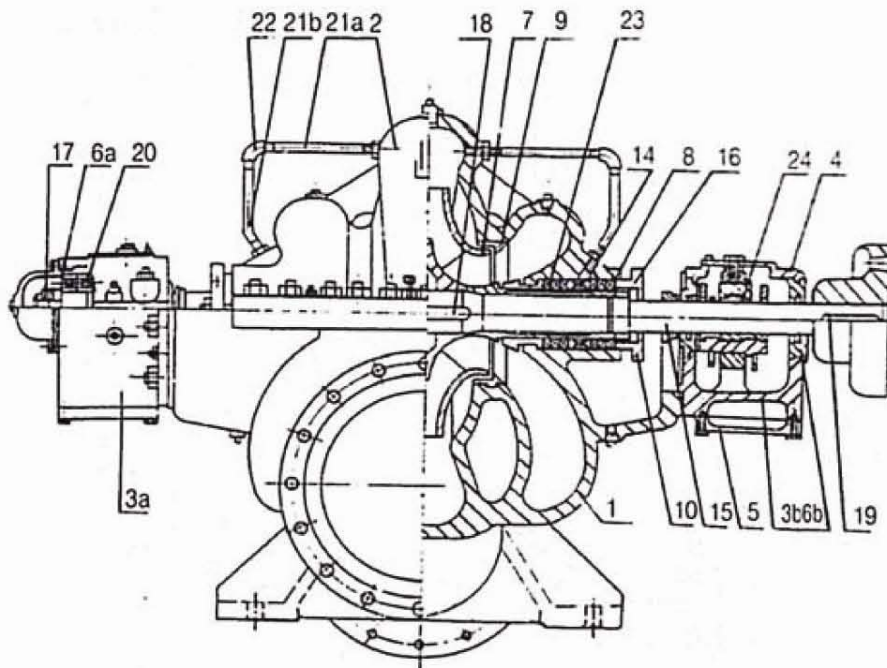
1. Casing
2. Pump Cover
3. Bearing Housing
4. Bearing Upper Cover
5. Bearing Lower Cover
6. Bearing End Covers
7. Impeller
8. Packing Sleeve
9. Wearing Ring
10. Packing Gland
11. Deflector
12. Inter-stage Sleeve
13. Oil Deflector
14. Packing Ring
15. Shaft
16. Sleeve Nut
17. Sleeve Nut
18. Impeller Key
19. Driving Key
20. Ball Bearing
21. Water Sealing Pipe
22. Elbow
23. Soft Packing

1. Casing
2. Pump Cover
3. Bearing Housing
4. Bearing Upper Cover
5. Bearing Lower Cover
6. Bearing End Covers
7. Impeller
8. Packing Sleeve
9. Wearing Ring
10. Packing Gland
11. Deflector
12. Inter-stage Sleeve
13. Oil Deflector
14. Packing Ring
15. Shaft
16. Sleeve Nut
17. Sleeve Nut
18. Impeller Key
19. Driving Key
20. Ball Bearing
21. Water Sealing Pipe
22. Elbow
23. Soft Packing

SA Configuration Drawing (B)



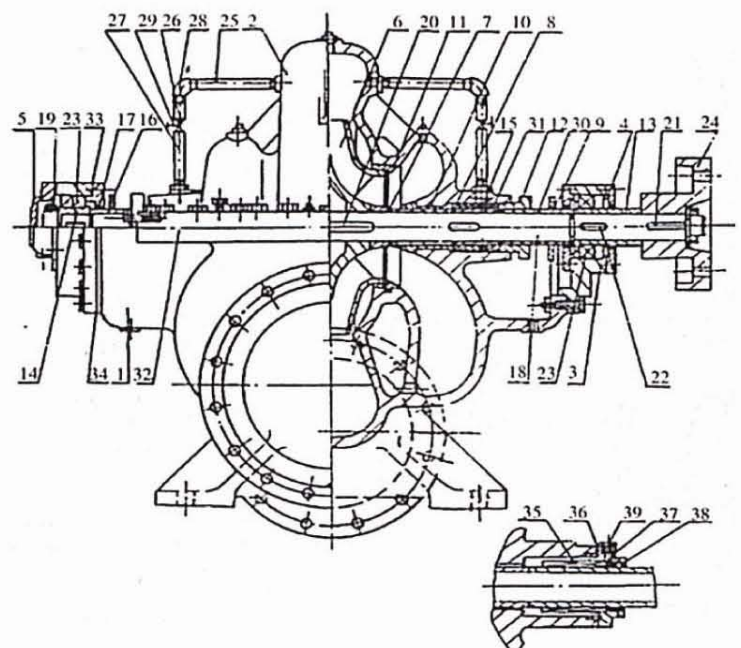
SA Configuration Drawing (C)



1. Casing
2. Pump Cover
3. Bearing Housing
4. Bearing Upper Cover
5. Bearing Lower Cover
6. Bearing End Covers
7. Impeller
8. Packing Sleeve
9. Wearing Ring
10. Packing Gland
11. Deflector
12. Inter-stage Sleeve
13. Oil Deflector
14. Packing Ring
15. Shaft
16. Sleeve Nut
17. Sleeve Nut
18. Impeller Key
19. Driving Key
20. Ball Bearing
21. Water Sealing Pipes
22. Elbow
23. Soft Packing
24. Sliding Bearing

SAP Configuration Drawing

- | | |
|----------------------|------------------------|
| 1. Casing | 21. Shaft Sleeve Key |
| 2. Pump Cover | 22. Bearing |
| 3. Bearing Housing | 23. Coupling |
| 4. Bearing End Cover | 24. Water Sealing Pipe |
| 5. Bearing End Cover | 25. Water Sealing Pipe |
| 6. Impeller | 26. Water Sealing Pipe |
| 7. Impeller Ring | 27. Elbow |
| 8. Shaft Sleeve A | 28. Gate Valve |
| 9. Shaft Sleeve B | 29. O-Ring |
| 10. Packing Jacket | 30. Soft Packing |
| 11. Wearing Ring | 31. Sealing Glue |
| 12. Packing Gland | 32. Washer |
| 13. Shaft Sleeve A | 33. Washer |
| 14. Shaft Sleeve B | 34. Mechanical Seal |
| 15. Packing Ring | 35. O-Ring |
| 16. Deflector | 36. Gland |
| 17. Shaft | 37. Seal Ring |
| 18. Tie Nut | 38. Plug |
| 19. Impeller Key | |
| 20. Driving Key | |



Performance Data Chart

Model	Capacity Q		Head H m	Speed n r/min	Shaft Power kw	Motor		Effi. η %	NPSHr m	Impeller Diameter mm	Pump Weight kg
	m ³ /h	L/s				Power kw	Model				
6SA-6	126	36	104	2980	48.8	75	Y280S-2	73	3.0	270	150 160
	180	50	97		59.5			80	3.8		
	216	60	87		64.8			79	5.3		
6SA-6	119	33	91	2980	42	75	Y280S-2	70	3.0	255	150 160
	170	47.2	84.5		50.1			78	3.7		
	204	56.6	76		54.8			77	4.7		
6SA-6J	72	20	24	1480	6.45	11	Y160M-4	73	2.6	270	150 160
	90	25	22.5		7.45			74	2.7		
	108	30	20		8.4			70	2.9		
6SA-8	108	30	58	2980	24.6	37	Y200L ₂ -2	69	2.9	205	110 120
	160	44.5	55		30.1			81	3.8		
	193	53.5	52		33.3			82	4.4		
6SA-8A	108	30	45	2980	18.2	30	Y200L ₁ -2	73	2.9	185	110 120
	144	40	43		21.1			80	3.6		
	174	48.3	39		23.1			80	4.1		
6SA-8B	108	30	40	2980	15.86	22	Y180M-2	74	2.7	170	110 120
	133	36.9	38		17.7			78	3.1		
	160	44.5	34		19.4			77	3.4		
8SA-7	216	60	99	2980	78.6	132	Y315M-2	74	4.0	272	215 255
	280	77.78	95		90.8			80	4.7		
	336	93.5	87		101			79	6.6		
8SA-7A	210	58.4	87	2980	68.1	110	Y315S-2	73	4.0	255	215 255
	262	72.78	83		76.9			77	4.5		
	314	87.2	74		83.3			76	5.7		
8SA-7B	196	55	76	2980	57	75	Y280S-2	72	4.0	240	215 255
	247	68.61	73		64.6			76	4.2		
	300	83.4	63		71.4			72	5.4		
8SA-10	194	54	71	2980	520	75	Y280S-2	72	2.8	235	235 275
	280	77.78	63		59.3			81	4.1		
	351	97.5	52		65.4			76	5.3		
8SA-10A	180	50	58	2980	40.6	55	Y250M-2	70	2.7	217	235 275
	259	71.94	52		46.5			79	3.8		
	324	90	41		50.2			72	4.9		
8SA-10B	173	48	48	2980	32.2	45	Y225M-2	70	2.6	200	235 275
	239	66.4	44		36.6			78	3.5		
	288	80	36		38.2			74	4.2		

Performance Data Chart

Model	Capacity Q		Head H m	Speed n r/min	Shaft Power kw	Motor		Effi. η %	NPSHr m	Impeller Diameter mm	Pump Weight kg
	m ³ /h	L/s				Power kw	Model				
10SA-6	432	120	96	1480	152.6	250	Y355-39-4	74	5.1	530	600
	540	150	94		177.2			78	6.3		660
	720	200	89		215			81	9.2		
10SA-6A	432	120	85.3	1480	129.3	250	Y355-39-4	77.6	5.1	500	600
	540	150	84		154.5			80	6.3		660
	720	200	76		186.3			80	9.2		
10SA-6B	432	120	76.4	1480	121.5	185	Y315M-4	74	5.1	470	600
	540	150	79		137.8			79	6.3		660
	720	200	67		164.3			80	9.2		
10SA-6J	400	111.1	42	980	58.7	90	Y315M ₁ -6	78	3.6	530	600
	500	138.8	39		65.6			81	4.7		660
	600	166.6	35		72.5			79	6.6		
10SA-6JA	300	83.3	36.8	980	39.4	75	Y315S-6	76.4	3.3	500	600
	400	111.1	36		49.7			79	3.6		660
	500	138.8	33		56.2			80	4.7		
10SA-6JB	300	83.3	33	980	34.8	55	Y280M-6	77.5	3.3	470	600
	400	111.1	32		44.1			79	3.6		660
	500	138.8	28		48.3			79	4.7		
10SA-6F	400	111.1	66.4	1480	95.2	160	Y315S-4	76	4.6	436	600
	500	138.8	65.6		113.1			79	5.7		660
	600	166.6	62.5		131			78	7.5		
12SA-10	610	169.4	59	1480	114	160	Y315L ₁ -4	86	4.1	418	1040
	790	219.4	54		132			88	4.6		1070
	900	250	47.8		138			85	5.1		
12SA-10A	570	158.3	52	1480	94	132	Y315M-4	86	4.0	392	1040
	740	205.6	47.5		109			87.9	4.4		1070
	846	235	42		114			84.9	4.8		
12SA-10B	530	147.2	44.3	1480	74	110	Y315S-4	86.5	3.9	362	1040
	686	190.6	40.5		86			88	4.3		1070
	780	216.7	36		90			85	4.6		
14SA-10	900	250	70	1480	206.5	315	Y355-43-4	83	4.1	466	1210
	1080	300	68		230			87	5.8		
	1260	350	64		250			88	6.5		
14SA-10A	900	250	60	1480	175	250	Y355-39-4	84	4.0	440	1210
	1080	300	58		196			87	5.5		
	1260	350	54		213			87	6.2		

Performance Data Chart

Model	Capacity		Head H	Speed n	Shaft Power	Motor		Effi. η	NPSHr	Impeller Diameter	Pump Weight
	Q					Power	Model				
	m ³ /h	L/s									
14SA-10B	900	250	51	1480	149	220	Y355-37-4	84	5.1	425	1210
	1080	300	48		162.2			87	6.3		1250
	1260	350	44		179.7			84	6.9		
14SA-10J	650	180.55	30	980	66.6	90	Y315M-6	79.7	4.0	466	1210
	800	222.22	28		72.6			84	4.1		1250
	1000	277.78	24		78.7			83	5.1		
14SA-10JA	600	166.6	27	980	54.9	75	Y315S-6	81	4.0	440	1210
	720	200	25		57.9			84.6	4.8		1250
	900	250	22		64.2			84.2	5.1		
14SA-10JB	600	166.6	23	980	44.2	75	Y315S-6	85	4.0	425	1210
	720	200	21		47.3			87	4.0		1250
	900	250	18		53.1			83	4.1		
14SA-10F	450	125	15.6	740	22.75	37	Y280S-8	84	5.8	440	1210
	547	152	14.5		25.1			86	5.8		1250
	684	190	12.7		27.8			85	5.8		
14SA-20	870	241.7	33	1480	101.5	132	Y315M-4	77	5.8	335	1290
	1320	366.7	26		110			85	7.8		1330
	1550	430.6	21.5		111			81.5	10.1		
14SA-20A	805	223.6	28.3	1480	80.1	110	Y315S-4	77.5	5.5	310	1290
	1221.5	339.3	22.3		88.4			84	7.0		1330
	1434	398.3	18.4		88			81.7	8.5		
16SA-9	1080	300	97.6	1480	400	630	Y450-4	71.6	5.2	535	1910
	1260	350	96		428			77	5.9		1980
	1620	450	90		473			84	7.9		
16SA-9A	1080	300	85.8	1480	346	450	Y400-4	73	5.2	510	1910
	1260	350	85		370			79	5.9		1980
	1620	450	78		410			84	7.9		
16SA-9B	1080	300	78	1480	298	450	Y400-4	77	5.2	480	1910
	1260	350	76		318			82	5.9		1980
	1620	450	68		349			86	7.9		
16SA-9J	900	250	40	980	124	185	Y315M-6	79	4.6	535	1910
	1080	300	40		140			84	4.9		1980
	1260	350	38		155.3			84	5.2		
16SA-9JA	900	250	37	980	112	160	Y315M-6	81	4.6	510	1910
	1080	300	35		123			84	4.9		1980
	1260	350	32		131			84	5.2		

Performance Data Chart

Model	Capacity		Head H m	Speed n r/min	Shaft Power kw	Motor		Effi. η %	NPSHr m	Impeller Diameter mm	Pump Weight kg
	Q					Power kw	Model				
	m³/h	L/s									
16SA-9JB	800	222	33	980	89.8	132	Y315M-6	80	4.6	480	1910 1980
	900	250	32		94			83	4.6		
	1080	300	30		102.6			86	4.6		
20SA-5	1500	417	143.3		724	1120	Y5601-6	80.9	2.8	975	3700 3750
	2000	555.6	125		866			78.6	4.2		
	2100	583	120		903			76	4.8		
20SA-5A	1405	390	125	980	594.5	800	Y5002-6	80.5	2.7	915	3700 3750
	1875	521	109		709.5			78.5	3.6		
	1960	544	104.5		734			76	4.0		
20SA-5B	1320	366.7	111	980	499	710	Y5001-6	80	2.6	858	3700 3750
	1760	489	96.8		595			78	3.2		
	1848	513	92.9		624			75	3.4		
20SA-6	1500	416.1	65.5	980	572	800	Y500-6	80	3.4	875	5250 5300
	2160	600	100		700			84	4.6		
	2500	694.4	55.5		740			80.5	5.6		
20SA-6A	1414	392.8	99.6	980	479	710	Y5001-6	80	3.4	825	5250 5300
	2036	565.6	88.9		584			84.5	4.4		
	2357	654.7	77.8		617			81	5.2		
20SA-6B	1320	367	86.7	980	390	560	Y4503-6	80	3.4	770	5250 5300
	1900	528	77.4		477			84	4.1		
	2200	611	67.7		507			80	4.8		
20SA-10	1500	416.7	65.5	980	339	500	Y450-6	79	6.6	690	4150 4200
	2160	600	60		400			88			
	2500	694.4	55.5		434			87			
20SA-10A	1410	391.6	58	980	282	400	Y4005-6	79	6.6	650	4150 4200
	2034	565	53.2		339			87			
	2355	654	49.3		368			86			
20SA-10B	1326	368	51.2	980	232.7	355	Y4004-6	79.5	6.6	610	4150 4200
	1910	531	47		284.4			86			
	2210	614	43.4		307.5			85			
20SA-14	1920	533.3	33	980	200.6	280	Y400-6	86	3.8	505	3700 3740
	2160	600	32		207			88	4.2		
	2400	666.7	28		210			87	5.0		
20SA-14A	1800	500	29.3	980	167	200	Y315M-6	86	3.6	485	3700 3740
	2030	564	28.3		178			88	3.8		
	2260	628	24.8		175			87	4.5		

Performance Data Chart

Model	Capacity		Head H	Speed n	Shaft Power	Motor		Effi. η	NPSHr	Impeller Diameter	Pump Weight
	Q					Power	Model				
	m ³ /h	L/s									
20SA-14B	1674	465	25	980	234	160	Y315M-6	85	3.4	450	3700 3740
	1880	522	24.3		143			87	3.6		
	2090	580.5	21.3		142			85	4.0		
20SA-22	1368	380	26.5	980	122	160	Y315M-6	80	4.4	466	1610 1660
	1980	550	21		133.2			85	5.2		
	2304	640	17.5		137.2			80	5.8		
20SA-22A	1260	350	21	980	90	1110	Y315L ₁ -6	80	4.3	425	1610 1660
	1800	500	16		92.3			85	4.9		
	2088	580	12.4		88.1			80	5.4		
20SA-22J	1080	300	16.3	740	61.5	90	Y315L ₁ -8	78	2.8	466	1610 1660
	1450	402.7	14		65			85	4.0		
	1800	500	10.7		66.8			78.5	7.1		
20SA-22JA	1080	300	10.3	740	37	55	Y315S-8	82	2.8	425	1610 1660
	1300	361	9.5		41			85	3.5		
	1627	452	6.8		38.6			78	5.6		
20SA-28	1585	440	16.4	980	86.2	110	Y315S1-6	82	4.7	385	1600
	2160	600	13		87.7			78			
	2340	650	12		87.3			87.5			
20SA-28A	1500	416.7	14.8	980	73.7	90	Y315M-6	82	4.7	365	1600
	2050	569.4	11.7		75.6			87			
	2220	616.7	10.8		76			86			
24SA-6	2880	800	102	980	931	1250	Y560-6	86	6.2	820	5000
	3240	900	100		1003			88	6.4		
	3960	1100	93		1134			88.5	7.2		
24SA-6A	2700	750	90	980	770	1000	Y5004-6	86	6.1	770	5000
	3040	844	88		828			88	6.2		
	3700	1028	82		934			88.5	6.6		
24SA-6B	2530	703	78.5	980	637	900	Y5003-6	85	6.1	720	5000
	2854	790	77		686			87	6.1		
	3480	967	71.5		770			88	6.5		
24SA-10	2592	720	78	980	643.9	900	Y500-6	85.5	5.6	725	4100
	3420	950	71		738.8			89.5	9.1		
	3600	1000	69		760			89	10.1		
24SA-10J	2160	600	43	740	290.7	400	Y450-6	87	5.6	725	4100
	2700	750	39		322.2			89	5.9		
	2970	825	36		334.6			87	8.2		

Performance Data Chart

Model	Capacity		Head	Speed	Shaft	Motor		Effi.	NPSHr	Impeller	Pump
	Q		H	n	Power	Power	Model	η		Diameter	Weight
	m ³ /h	L/s	m	r/min	kw	kw		%	m	mm	kg
24SA-10B	2338	649	63.5	980	472.8	630	Y450-6	85.5	4.6	655	4100
	3084	856.6	57.8		545.4			89	7.3		
	3248	902.2	56.2		558.5			89	8.2		
24SA-14	2520	700	54.5	985	460	630	Y450-6	81.5	5.3	624	4150 4200
	3200	888.9	50		513			85	6.6		
	3960	1100	42.7		549			84	11.2		
24SA-14A	2370	658	48	985	380	500	Y4502-6	81.5	5.0	586	4150 4200
	3000	833	44.2		425			85	5.5		
	3720	1033	37.7		455			84	8.5		
24SA-14B	2220	616.7	42.3	985	320	450	Y4501-6	80	5.0	550	4150 4200
	2820	783	38.8		355			84	5.4		
	3490	969	32.5		372			83	7.5		
24SA-18	2700	750	35.1	980	310.9	400	Y400-6	83.1	5.3	550	3300 3500
	3240	90	32.6		330.1			87	6.2		
	3600	1000	29.76		341.2			85.5	10.0		
24SA-18A	2520	700	25.5	980	206	250	Y355M-6	85	6.0	490	3300 3500
	3000	833.3	23		211			89	6.4		
	3165	879	19.2		204			84	8.1		
24SA-18J	2052	570	20.3	740	136.6	160	Y355M-8	83.1	2.8	550	3300 3500
	2466	685	18.9		145.6			87	3.2		
	2836	787	16.1		147.4			84.4	4.03		
24SA-18JA	1908	530	14.7	740	90	110	Y315M3-8	84.5	3.2	490	3300 3500
	2000	555.5	13.5		86.5			85	3.7		
	2520	700	11.2		88.3			87	4.4		
24SA-18K	2160	600	23.2	740	166	200	Y400-50-8	82	4.7	539	3300 3500
	3240	900	16		166			85	5.1		
	3450	958	14.2		163			81.6	5.5		
24SA-18F	1800	500	33.3	980	242.2	280	Y355L-6	67.4	3.6	510	3300 3500
	3000	833	26.6		263.3			82.7	4.0		
	3375	937	23.3		263.7			81.2	4.6		
28SA-10	4536	1260	94	980	1451	1800	Y630-6	80	8.0	840	5800 6000
	5292	1470	90		1544			84	10.4		
	6350	1764	77		1624			82	14.8		
28SA-10A	4185	1162	80	980	1169	1400	Y560-6	78	7.2	775	5800 6000
	4882.5	1356	76.6		1227			83	9.2		
	5859	1627	65.5		1275			82	13.2		

Performance Data Chart

Model	Capacity		Head	Speed	Shaft	Motor		Effi.	NPSHr	Impeller	Pump
	Q		H	n	Power	Power	Model	η		Diameter	Weight
	m ³ /h	L/s	m	r/min	kw	kw		%	m	mm	kg
28SA-10J	3362	933.9	51.6	740	590	710	Y500-8	80	5.8	840	5800 6000
	3922	1089	49.4		628			84	6.8		
	4707	1307	42.3		661			82	9.2		
28SA-10JA	3102	862	43.9	740	463	630	Y500-8	80	5.6	775	5800
	3618	1005	42		498			83	6.1		
	4343	1206	36		519			82	8.0		
28SA-10K	2736	760	53	740	556	710	Y500-8	71	4.0	848	5800
	3600	1000	51		617			81	5.0		
	4140	1150	47		646			82	6.0		
32SA-10	6300	1750	73.5	740	1510	2240	Y710-8	83.5	5.9	990	8300
	8280	2300	67.5		1720			88.5	7.0		
	9900	2750	57.5		1856			83.5	8.5		
32SA-10A	5940	1650	67.8	740	1321	1800	Y710-8	83	5.8	950	8300
	7920	2200	62.5		1523			88.5	6.7		
	9540	2650	52.5		1643			83	8.5		
32SA-10B	5760	1600	59	740	1128.6	1600	Y630-8	82	5.7	885	8300
	7200	2000	53.5		1213			86.5	6.3		
	8820	2450	46.5		1370			81.5	7.5		
32SA-10J 32SA-10JA	4860	1350	48.3	590	780	1120	Y630-10	82	3.7	990	8300
	6480	1800	44.2		881			88.5	4.2		
	8100	2250	35.5		960			81.5	4.30		
32SA-10JB (32SA-10D)	4680	1300	44	590	684	1000	Y630-10	82	3.6	950	8300
	6300	1750	40.5		785			88.5	4.0		
	7740	2150	33		848			82	5.0		
32SA-10JC	3960	1100	31.5	495	414	560	Y560-12	82	2.8	952	8300
	5400	1500	28.5		474			88.5	3.1		
	6480	1800	24		510			83	3.6		
32SA-12	3960	1100	72.5	980	930.8	1120	Y5601-6	84	5.0	740	5750
	5400	1500	63		1018			91	6.2		
	6300	1750	51		1029.4			85	7.9		
32SA-12A	3725	1035	64	980	773	900	Y5603-6	84	5.2	700	5750
	5075	1410	55.7		856			90	5.7		
	5920	1644	45		854			85	7.2		
32SA-12B	3485	968	56.1	980	642	800	Y5002-6	83	4.8	655	5750
	4750	1319	48.8		710			89	5.5		
	5544	1540	39.5		711			84	6.4		

Performance Data Chart

Model	Capacity		Head	Speed	Shaft	Motor		Eff.	NPSHr	Impeller	Pump
	Q		H	n	Power	Power	Model	η		Diameter	Weight
	m ³ /h	L/s	m	r/min	kw	kw		%	m	mm	kg
32SA-12J	2950	819	40.2	730	385	500	Y5001-8	84	2.7	740	5750
	4020	1117	35		421			91	3.2		
	4695	1304	28.1		423			85	4.3		
32SA-12JA	2775	771	35.5	730	320	400	Y4503-8	84	2.1	700	5750
	3780	1050	30.9		354			90	3.2		
	4410	1225	25		354			85	3.8		
32SA-12JB	2596	721	31	730	264	355	Y4502-8	83	2.7	655	5750
	3538	983	27		292			89	3.0		
	4130	1147	21.9		294			84	3.5		
32SA-19	4390	1219	33.3	740	470	560	Y500-8	84.6	6.3	708	6000
	5400	1500	29		473.8			90	9.0		
	5760	1600	26.3		485.3			85	11.0		
32SA-19A	4170	1158	29.3	740	391	500	Y500-46-8	85	6.1	670	6000
	5000	1388	26		393.3			90	7.2		
	5470	1519.4	23.7		415.3			85	9.3		
32SA-19B	3654	1015	23.7	740	275.8	355	Y450-54-8	85.5	6.0	616	6000
	4700	1305.5	20		284.5			90	6.3		
	5220	1450	17		282			85.5	8.2		
32SA-19E	4320	1200	36.8	740	512.3	630	Y500-59-8	84.5	5.9	730	6000
	5278	1466	33.8		545.8			89	6.4		
	6034	1676	29.6		559			87	9.40		
32SA-19J	3456	960	21.6	590	231.5	280	Y450-54-10	87.8	3.5	708	6000
	4320	1200	18.6		243.1			90	5.0		
	4615	1282	17		254			84.1	6.4		
32SA-19JA (32SA-19C)	3240	900	19.1	590	192.6	250	Y450-54-10	87.5	4.0	670	6000
	4000	1111	16.5		199.7			90	4.5		
	4320	1200	15.2		204.3			87.5	6.1		
32SA-19JB (32SA-19D)	2880	800	15.8	590	146.6	200	Y450-43-10	84.5	3.9	616	6000
	3800	1055	13		151.1			89	4.0		
	3960	1100	11.8		147.1			86.5	4.4		
32SA-19F	3726	1035	26.5	740	323.9	400	Y450-8	83	6.1	630	6000
	4705	1307	23		335			88	7.4		
	5407	1502	19		341.1			82	9.2		
36SA-28	7200	2000	32	730	760.5	900	Y5602-8	82.5	11.5	715	12800
	9180	2550	27.5		781			88	11.0		
	10800	3000	22.5		769.5			86	11.8		

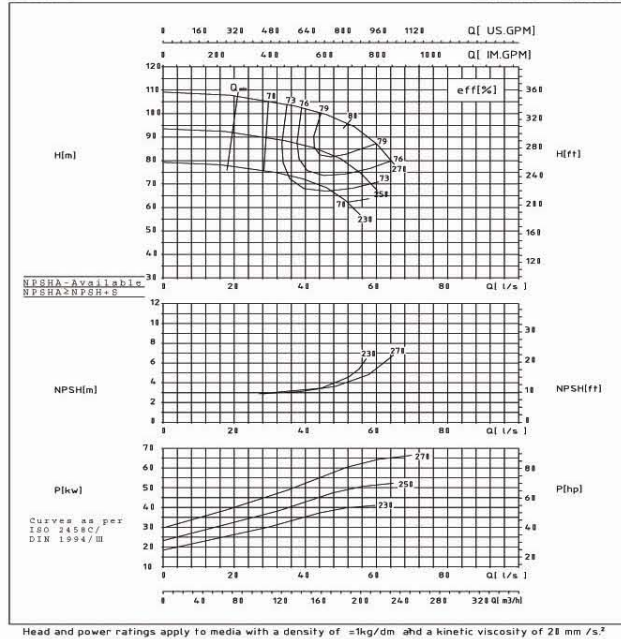
Performance Data Chart

Model	Capacity Q		Head H m	Speed n r/min	Shaft Power kw	Motor		Effi. η %	NPSHr m	Impeller Diameter mm	Pump Weight kg
	m ³ /h	L/s				Power kw	Model				
36SA-28A	7560	2100	27.5	730	655.3	710	Y5004-8	86.4	11.0	700	12800
	9180	2550	24		663			90.5	10.2		
	10620	2950	20		662			87.4	11.4		
36SA-28B	7070	1964	24	730	544	630	Y5003-8	85	11.0	660	12800
	8583	2384	21		552			89	10.2		
	9930	2758	17.5		551			86	10.4		
44SA-14	6626	1840	32	425	688	900	Y630-14	83.9	2.7	1110	17800
	9000	2500	28.5		794			88	3.5		
	9350	2597	27.6		800			87.9	3.8		
44SA-14A	6195	1721	28	425	569	710	Y710-14	83	2.5	1050	17800
	8415	2338	24.9		656			87	3.2		
	8742	2428	24		657			87	3.4		
44SA-25	10278	2855	18.5	425	582	710	Y710-14	89	4.9	994	16500
	11855	3293	16		574			90	5.4		
	13040	3622	13.7		556			87.5	5.7		
44SA-25A	9660	2683	16.3	425	487.5	630	Y630-14	88	5.1	935	16500
	11142	3095	14.1		481			89	5.2		
	12258	3405	12.1		464.5			87	5.4		

Performance Curves

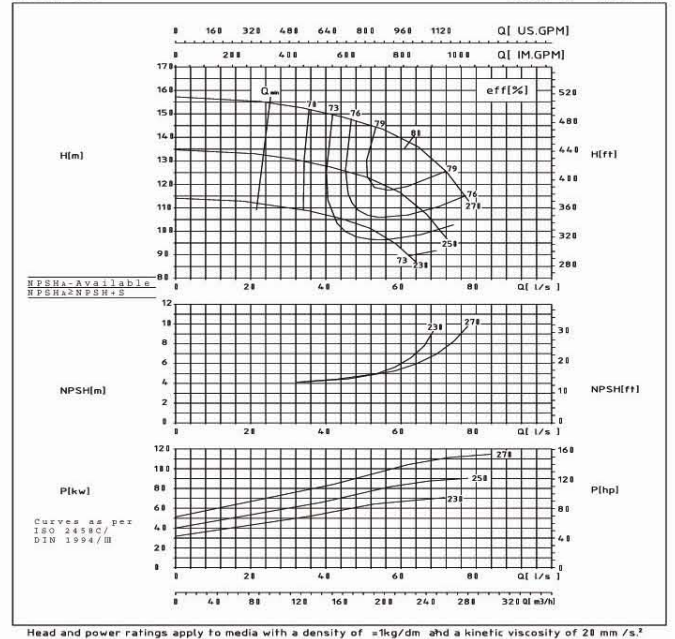
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6SA-6 2900 1/min



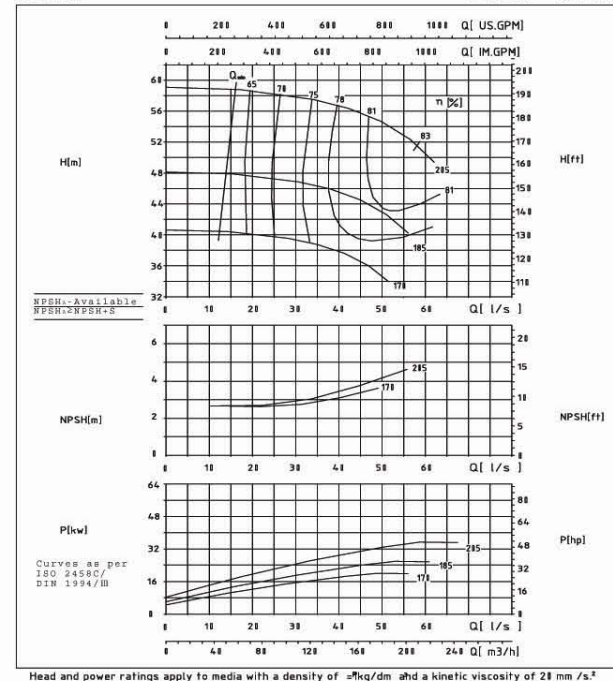
6SA-6J

6SA-6J 3500 1/min



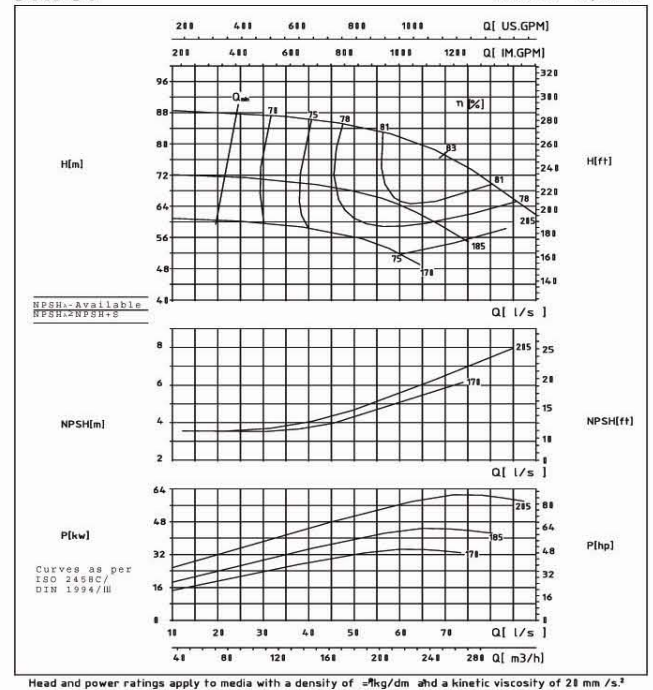
6SA-8

6SA-8 2900 1/min



6SA-8J

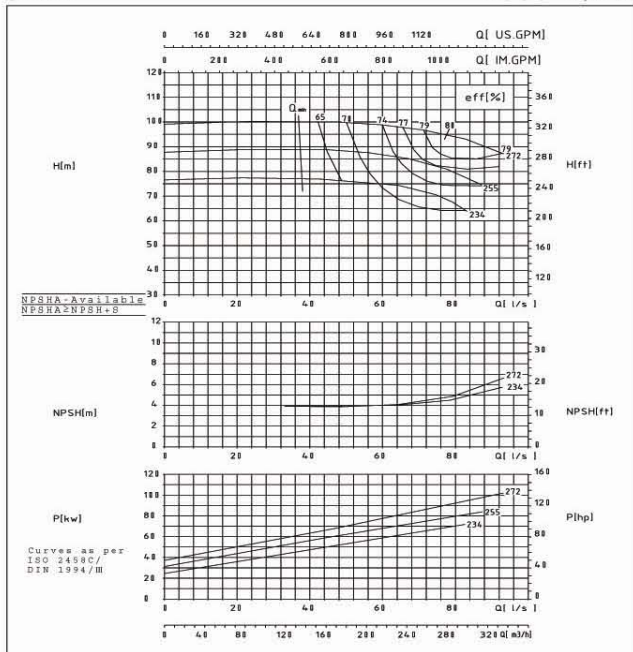
6SA-8J 3500 1/min



Performance Curves

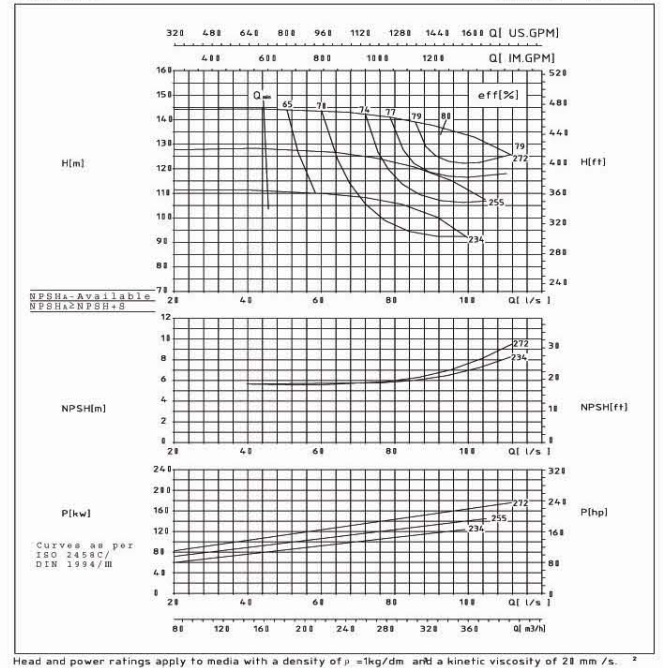
8SA-7

8SA-7 2900 1/m in



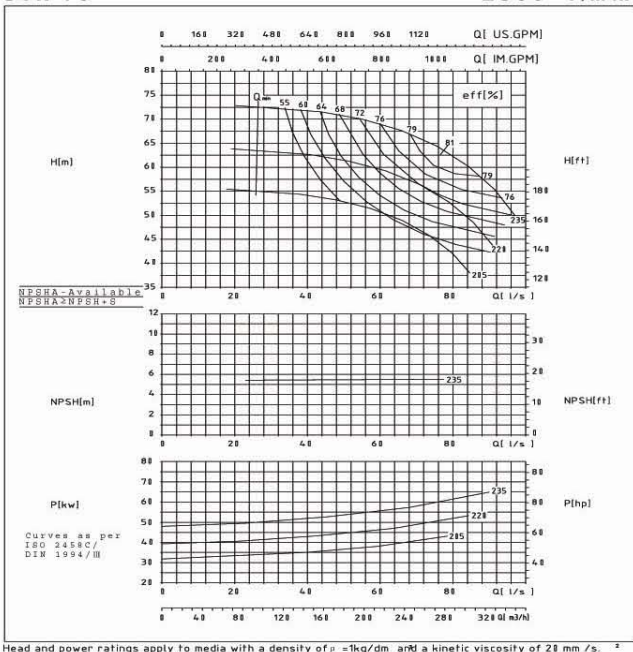
8SA-7J

8SA-7J 3500 1/m in



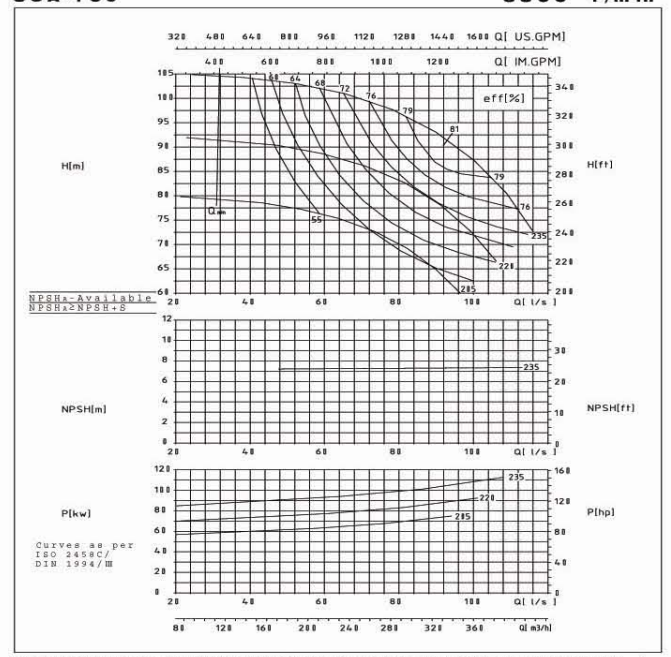
8SA-10

8SA-10 2900 1/m in



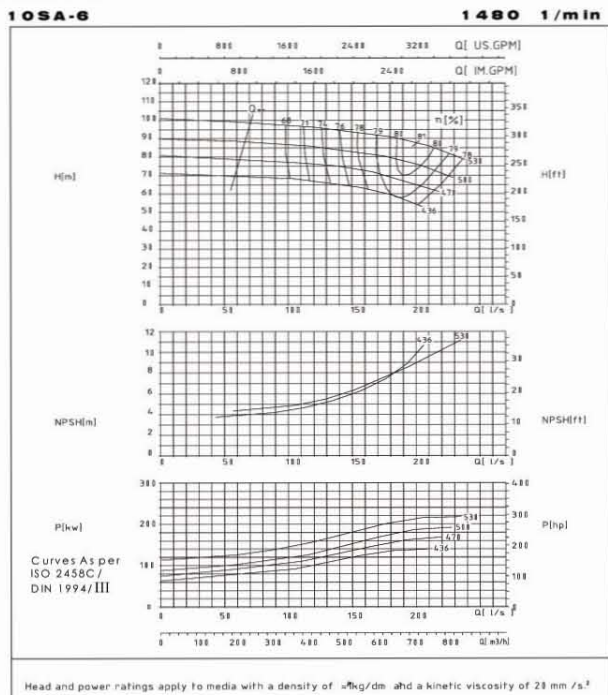
8SA-10J

8SA-10J 3500 1/m in

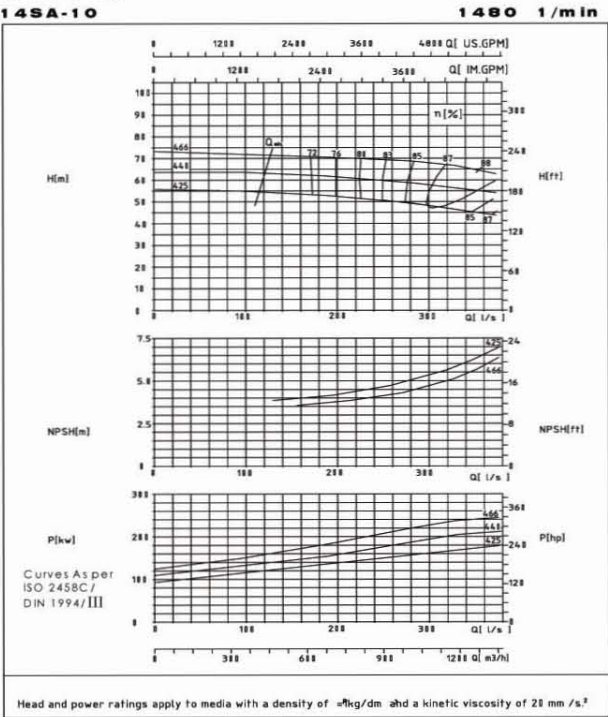


Performance Curves

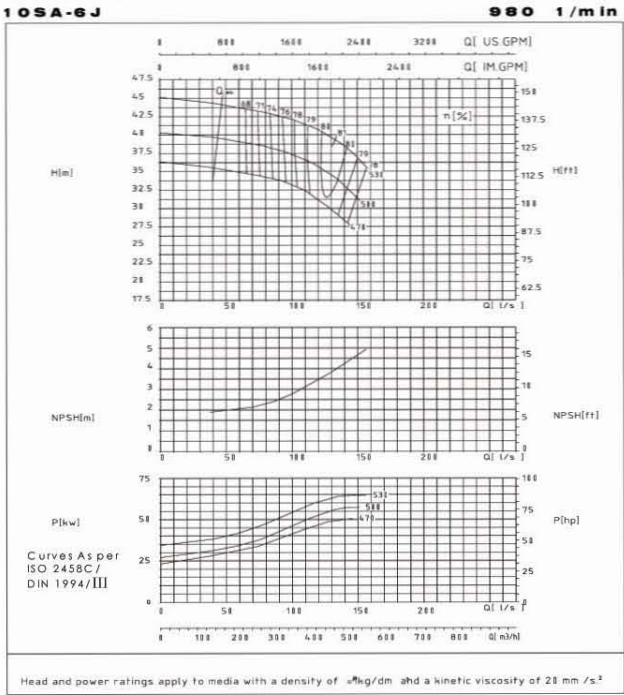
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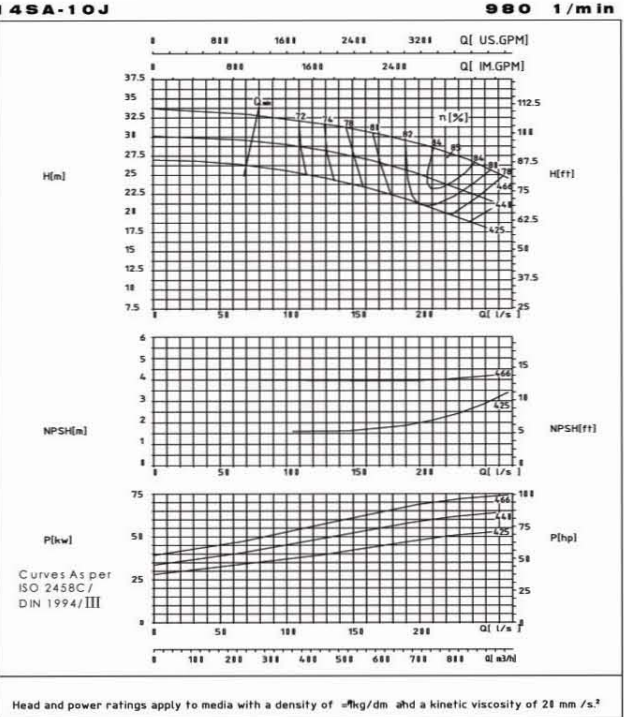
14SA-10



10SA-6J



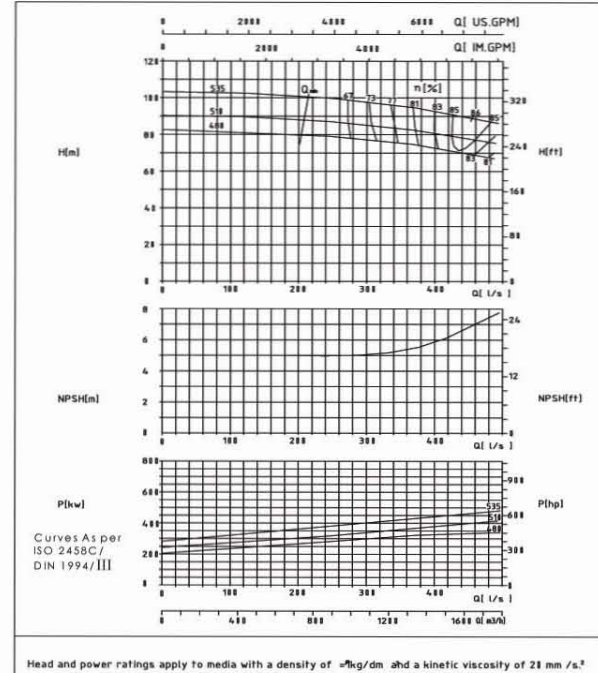
14SA-10J



Performance Curves

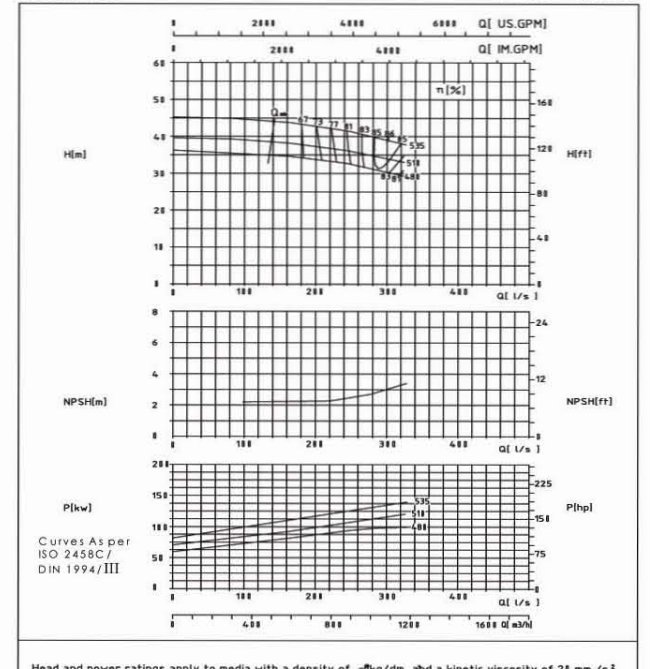
16SA-9

16SA-9 1480 1/min



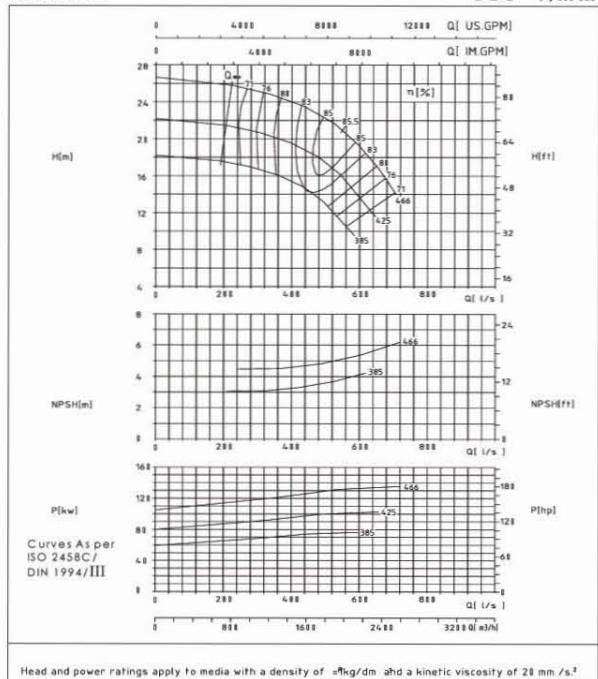
16SA-9J

16SA-9J 980 1/min



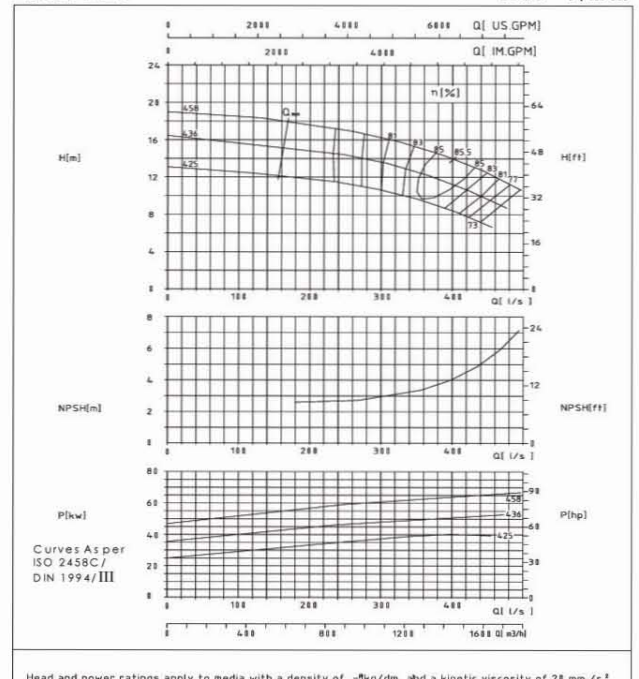
20SA-22

20SA-22 980 1/min



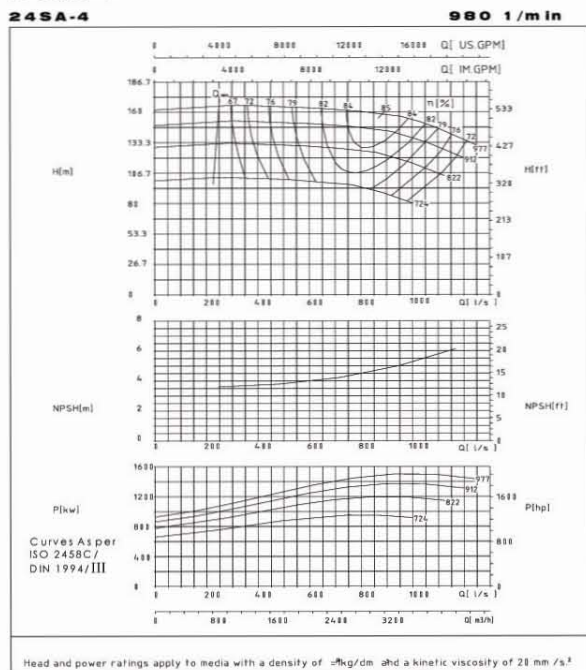
20SA-22J

20SA-22J 742 1/min

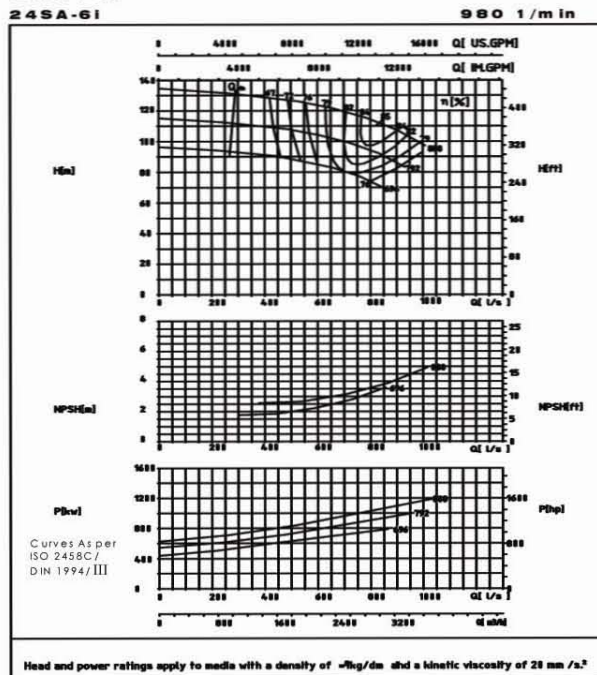


Performance Curves

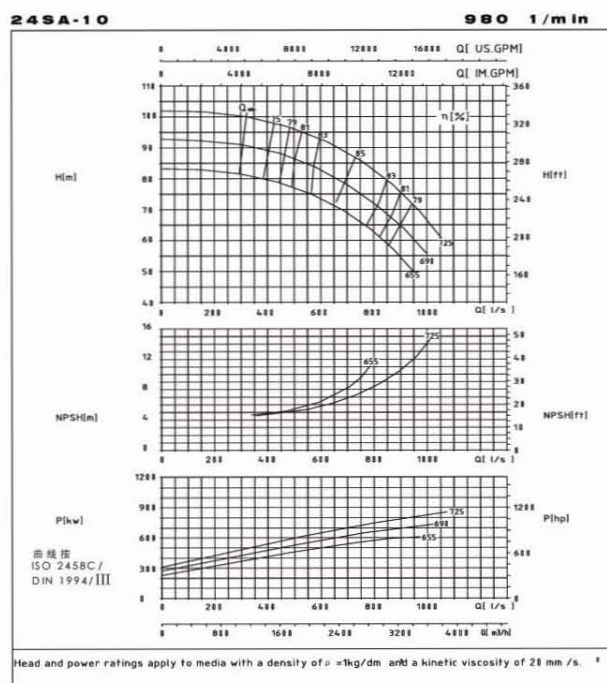
24SA-4



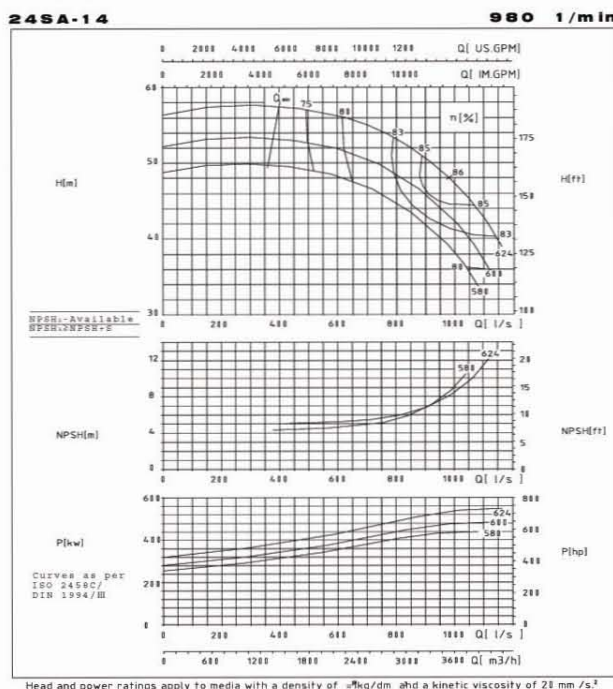
24SA-6J



24SA-10



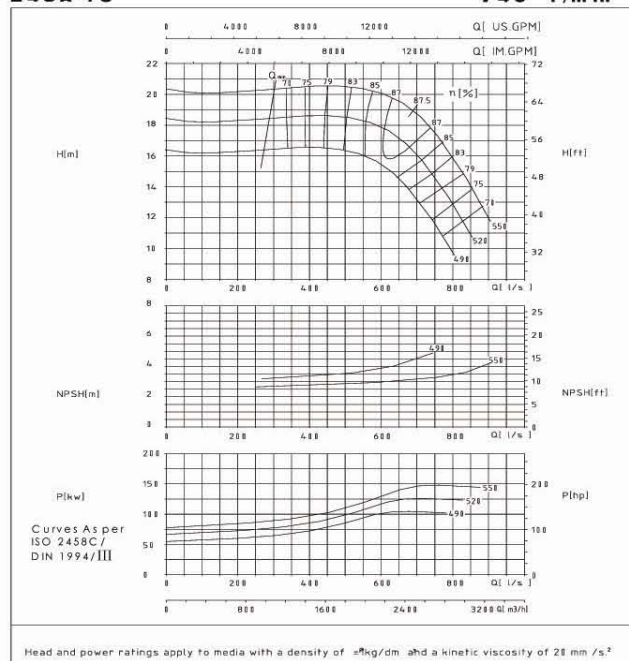
24SA-14



Performance Curves

24SA-18

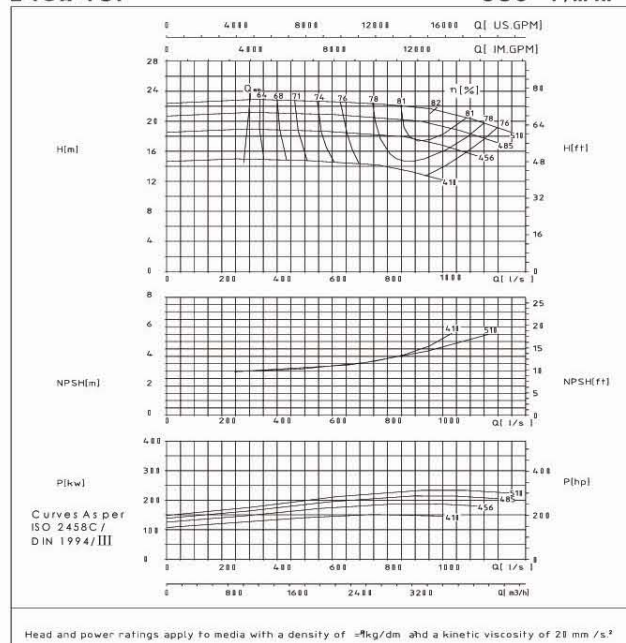
740 1/min



24SA-18F

24SA-18F

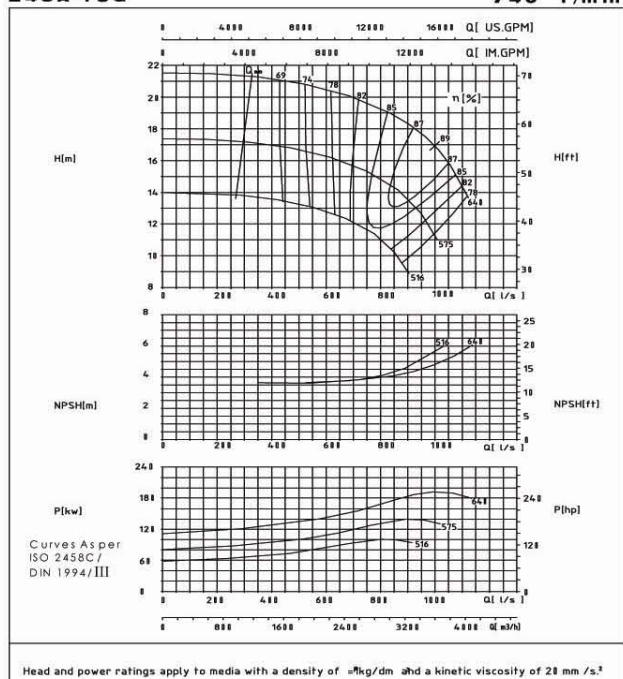
980 1/min



24SA-18GA

24SA-18G

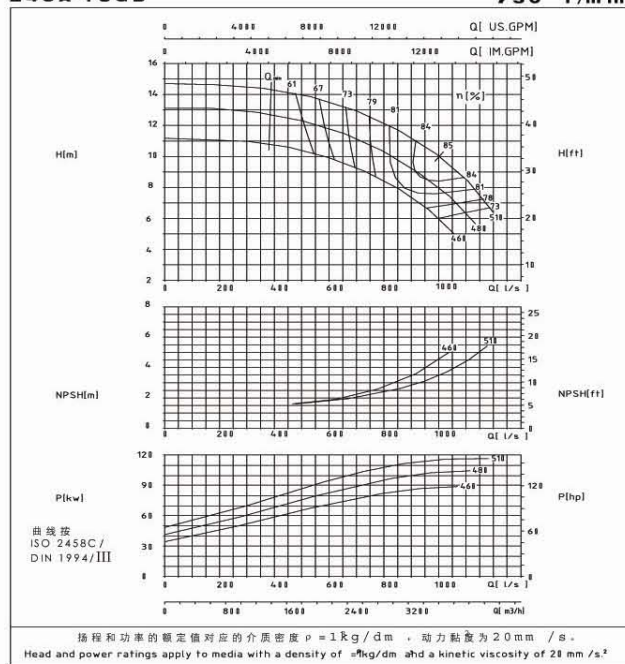
740 1/min



24SA-18GB

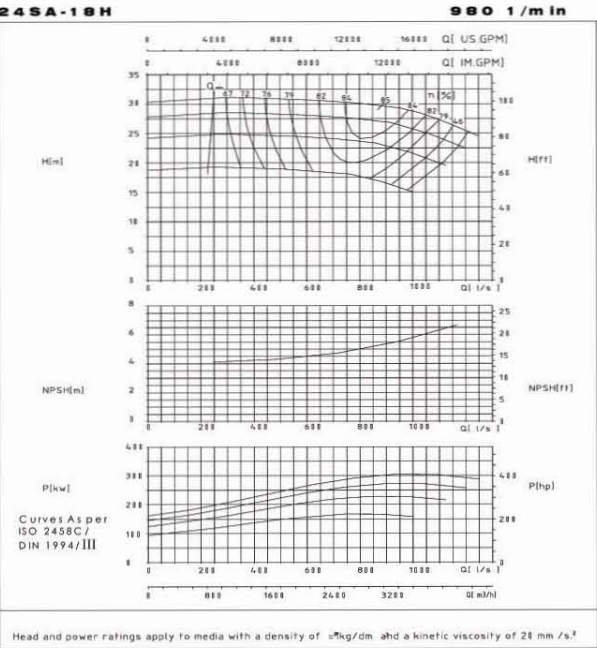
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730 1/min

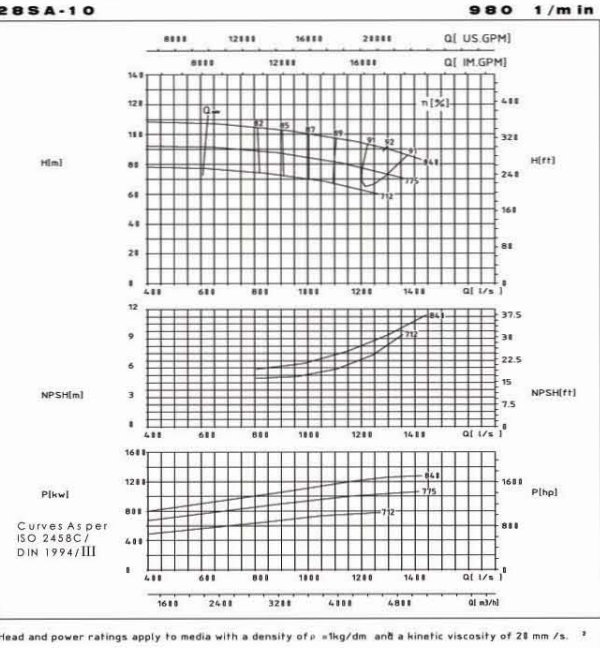


Performance Curves

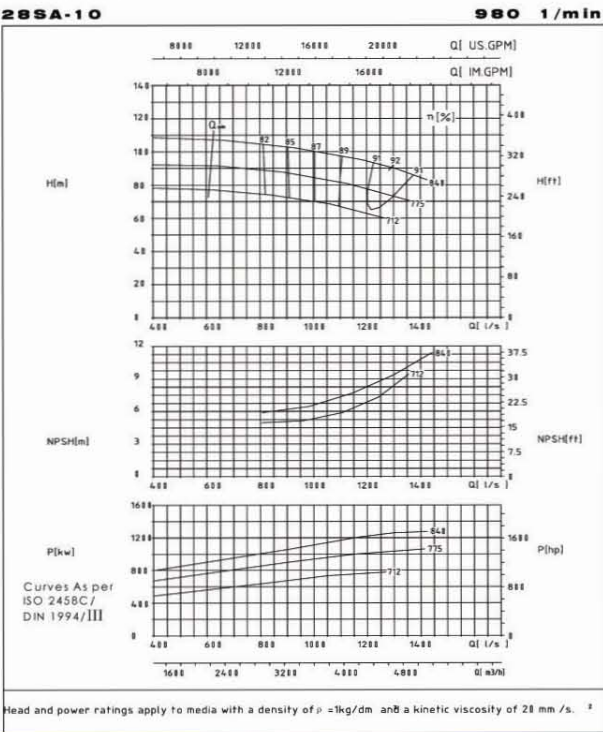
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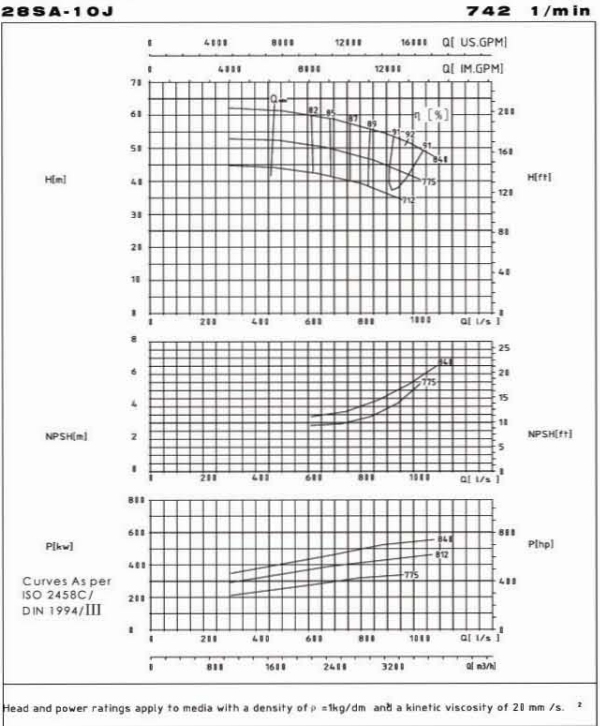
24SA-18L



28SA-10

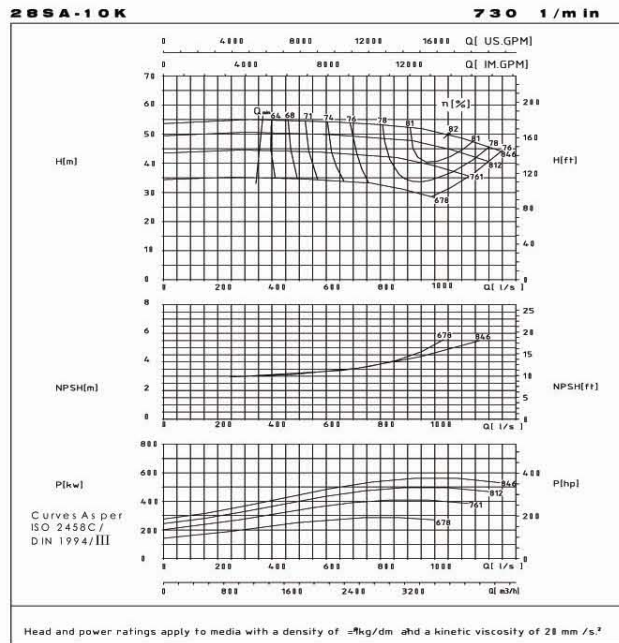


28SA-10J

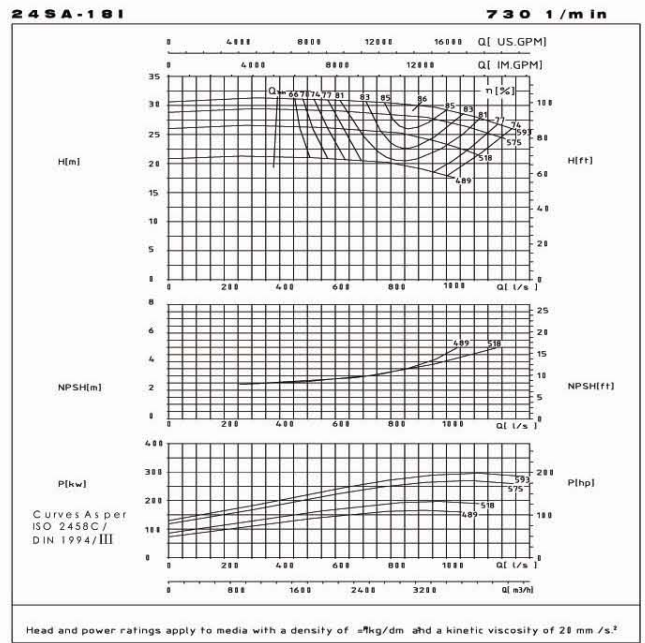


Performance Curves

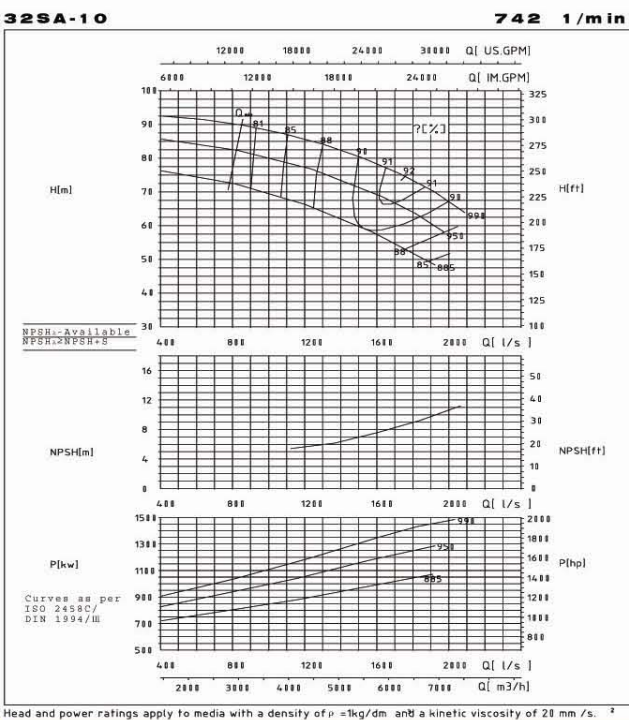
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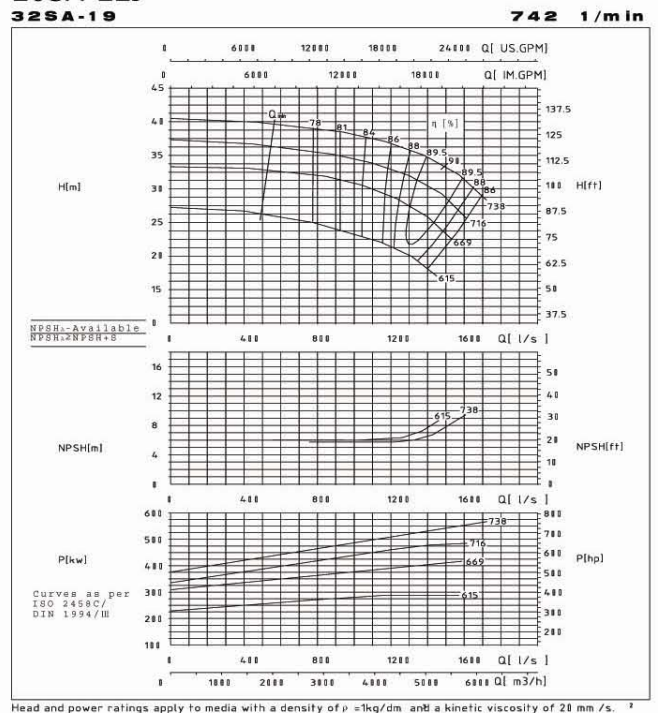
24SA-18I



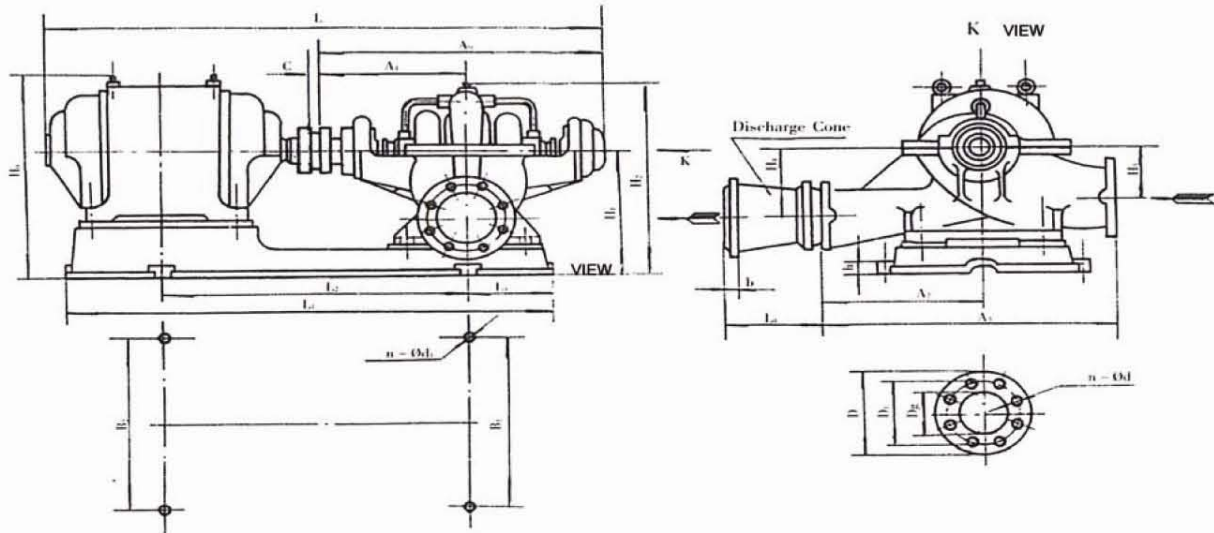
32SA-10



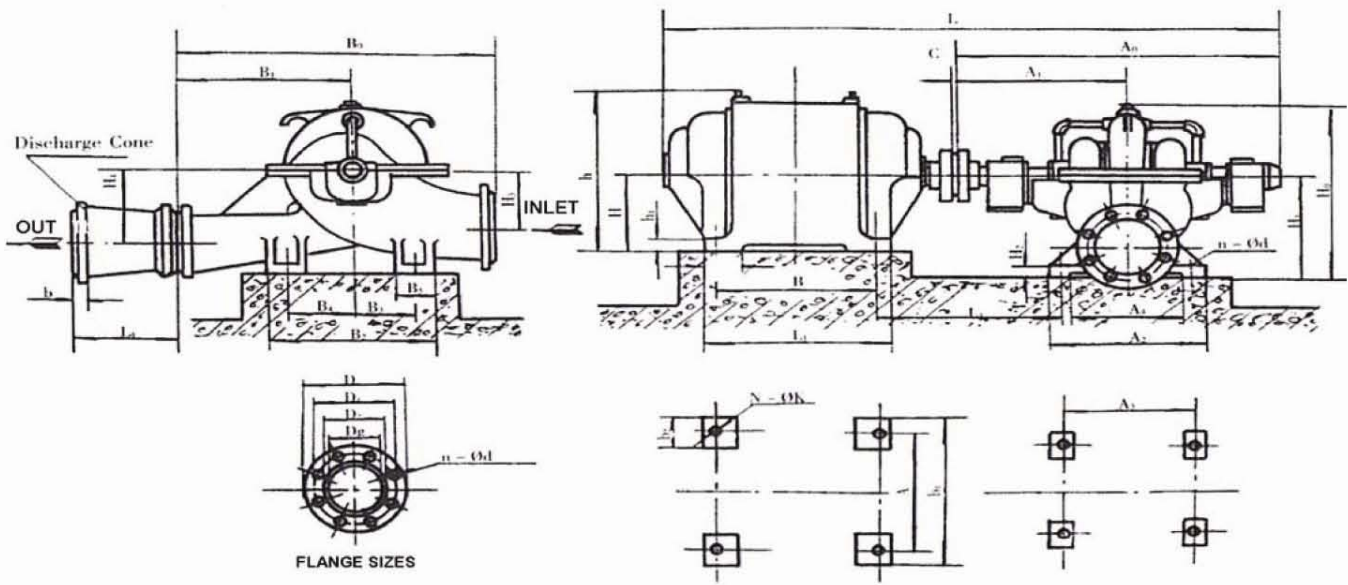
20SA-22J



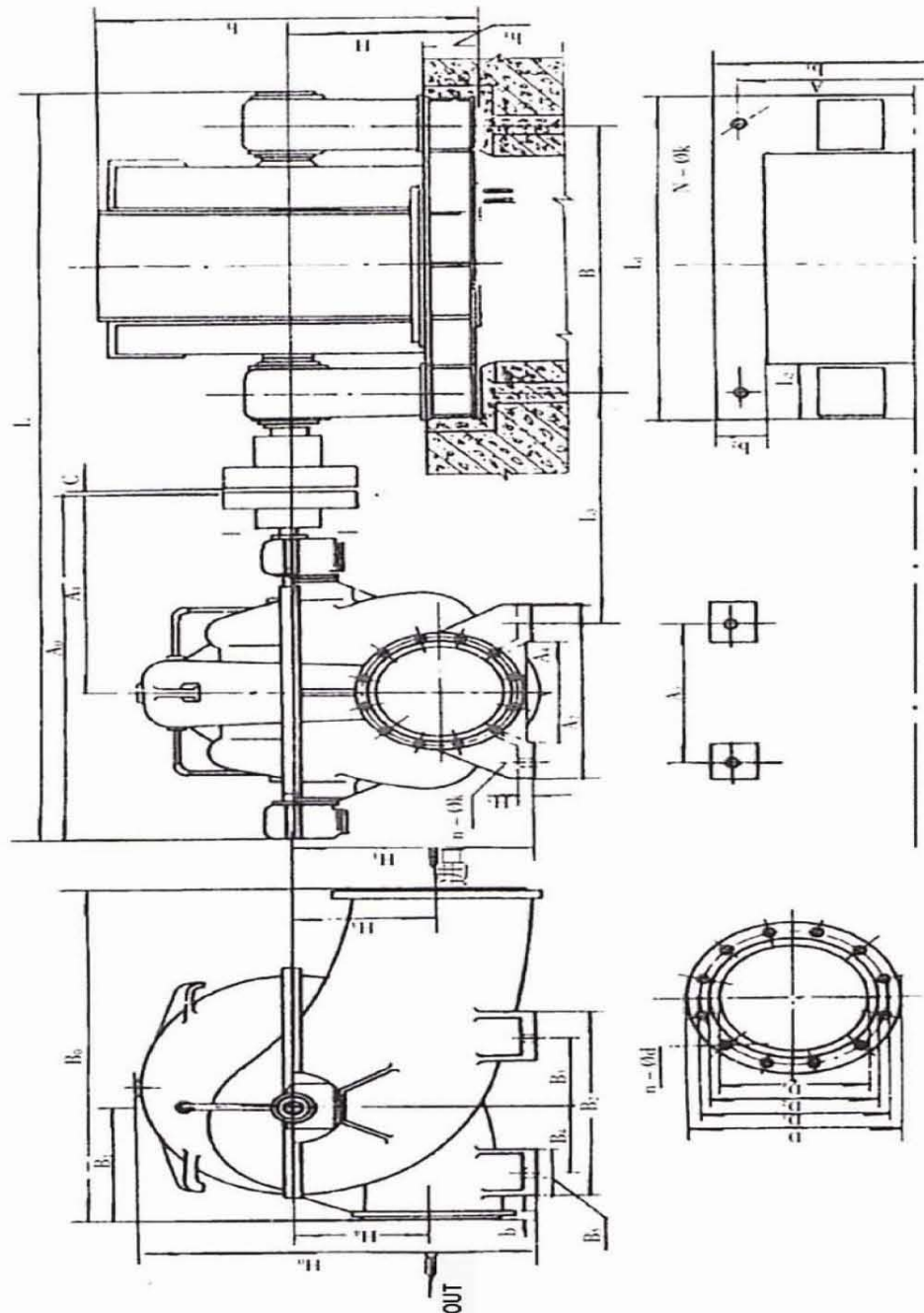
SA Installation Drawing With Common Baseplate



SA Drawing Without Common Baseplate



SA Installation Drawing With Common Baseplate



Dimensions & Weight With Common Baseplate

Pump Model	Installation Dimensions																		Pump Weight Wt (kg)	Motor			Discharge Flange Dimensions					
	L	L1	L2	L3	L4	A0	A1	A2	A3	C	B1	B2	H0	H1	H2	H3	H4	h		n- Φd1	Model	HP (kw)	Wt (kg)	D	D1	Dg	b	n- Φd1
6SA-6	1718	1415	850	265	300	699	378	250	550	2	410	640	760	400	620	130	172	50	4 Φ25	150	Y280S-2	75		280	240	150	28	8 Φ23
6SA-6A	1718	1415	850	265							410	640	760	400	620						Y280S-2	75						
6SA-6I	1306	1105	710	205							689	368	450	625	625						400	620	Y160M4					
6SA-8	1435	1165	750	180	300	641	350	200	450	2	390	500	655	380	555	135	140	40	4 Φ25	110	Y200L-2	37		280	240	150	24	8 Φ23
6SA-8A	1435	1165	750	180							480	500	655	380	555						Y200L-2	30						
6SA-8B	1318	1077	670	207							631	340	455	480	630						380	555	Y180M2					
8SA-7	2030	1590	1000	250	375	792	429	300	650	4	455	730	1000	450	676	170	185	50	4 Φ25	215	Y315M2	132		335	295	200	30	12- Φ23
8SA-7A	1988	1590	1000	250							455	730	1000	450	676						Y315S-2	110						
8SA-7B	1798	1456	850	306							455	655	810	450	676						Y280S-2	75						
8SA-10	1798	1456	850	306	375	699	378	300	600	2	455	655	810	450	652	170	170	50	4 Φ25	160	Y250M2	75		335	295	200	26	8 Φ23
8SA-10A	1648	1352	800	272							455	600	775	450	652						Y250M2	55						
8SA-10B	1533	1256	800	206							550	550	755	450	652						Y250M2	45						

Dimensions & Weight Without Common Baseplate

Model	Installation Dimensions													Motor Overall Dimensions													Pump Weight W _p (kg)	L ₃	L	Motor												
	A ₀	A ₁	A ₂	A ₃	A ₄	B ₀	B ₁	B ₂	B ₃	B ₄	B ₅	H ₀	H ₁	H ₂	H ₃	H ₄	H ₅	H ₆	H ₇	H ₈	H ₉	N-ØK	L ₄	C	B	L ₁					L ₂	A	b ₁	b ₂	H	h	h ₁					
10SA-6																										900	1380	435	630	800	250	355	1255	30	4-Ø28	3039	989		255	Y355-39-4	1990	
10SA-6A																										5	900	1380	435	630	800	250	355	1255	30	4-Ø28	3039	989		220	Y355-37-4	1950
10SA-6B																										457	670	/	508	680	125	315	928	50	4-Ø28	2442	848		185	Y315M-4	950	
10SA-6I	1165	645	500	380	230	1258	648	850	325	325	200	890	500	35	243	335	4-Ø27									457	670	/	508	680	125	315	865	50	4-Ø28	300	2511	847	600	90	Y315M1-6	900
10SA-6IA																										5	406	610	/	508	680	120	315	865	45	4-Ø28	2441	847		75	Y315S-6	885
10SA-6IB																										419	581	/	457	550	85	280	640	35	4-Ø28	2221	791		55	Y280M-6	555	
10SA-6F																										406	600	/	508	680	125	315	928	50	4-Ø28	2333	848		160	Y315S-4	850	
14SA-10																										900	1380	435	630	800	250	355	1255	30	4-Ø28	300	3283	992		315	Y355-43-4	1860
14SA-10A																										900	1380	435	630	800	250	355	1255	30	4-Ø28	3283	992		250	Y355-39-4	1990	
14SA-10B																										900	1380	435	630	800	250	355	1255	30	4-Ø28	3283	992		220	Y355-37-4	1950	
14SA-10I	1391	758	720	600	400	1392	770	790	300	300	190	1017	600	35	335	435	4-Ø35	5	457	670	/	508	680	125	315	865	50	4-Ø28	2738	850	1210	90	Y315M-6	900	2738	850		75	Y315S-6	885		
14SA-10IA																										406	610	/	508	680	125	315	865	50	4-Ø28	2738	850		75	Y315S-6	885	
14SA-10IB																										406	610	/	508	680	125	315	865	50	4-Ø28	2738	850		75	Y315S-6	885	
14SA-10F																										388	530	/	457	550	85	280	640	35	4-Ø28	2397	795		37	Y280S-8	500	
16SA-9																										1120	1660	575	800	1000	305	450	1595	30	4-Ø28	300	3790	1130		630	Y450-4	3140
16SA-9A																										1000	1510	500	710	900	275	400	1445	30	4-Ø28	3780	1110		450	Y400-50-4	2770	
16SA-9B																										1000	1510	500	710	900	275	400	1455	30	4-Ø28	3780	1110		450	Y400-50-4	2770	
16SA-9I	1747	907	820	700	480	1645	900	900	350	350	200	1130	670	40	372	482	4-Ø35	6									457	670	/	508	680	125	315	928	50	4-Ø28	3575	951	1910	185	Y315M-6	1200
16SA-9IA																										457	670	/	508	680	125	315	928	50	4-Ø28	3575	951		160	Y315M-6	1100	
16SA-9IB																										457	670	/	508	680	125	315	760	50	4-Ø28	3095	951		110	Y315M2-6	980	

[illegible]

Dimensions & Weight Without Common Baseplate

Model	Installation Dimensions																	C	Motor Overall Dimensions										L ₄	L	L ₃	Pump Weight W _p (kg)	Motor		
	A ₀	A ₁	A ₂	A ₃	A ₄	B ₀	B ₁	B ₂	B ₃	B ₄	B ₅	H ₀	H ₁	H ₂	H ₃	H ₄	n-Φ d ₁		B	L ₁	L ₂	A	b ₁	b ₂	H	h	h ₁	N-ΦK					Powerr (HP) (kw)	Model	Weight W ₂ (kg)
32SA-10J	2750 3050																	4-Φ58 8	1600	/	/	1120	/	/	630	1900	30	4-Φ48	/	5860	1800		1120	Y630-10	8120
32SA-10JB	1510	1300	1000	700	2285	1000	1700	675	675	350	2105	1250	70	700	850		4-Φ58 8	1600	/	/	1120	/	/	630	1900	30	4-Φ48	/	5860	1800	8300	1000	Y630-10	7830	
24SA-10JC																	4-Φ58 8	1400	/	/	1000	/	/	560	1700	30	4-Φ42		5660	1820		560	Y560-12	5850	
32SA-19																	4-Φ42 7	1250	1820	655	900	1120	335	500	1895	30	4-Φ42	/	4574	1402		560	Y500-8	4090	
32SA-19A																	4-Φ42 7	1250	1820	655	900	1120	335	500	1895	30	4-Φ42	/	4574	1402		500	Y500-8	4720	
32SA-19B																	4-Φ42 7	1120	1600	575	800	1000	305	450	1350	30	4-Φ35		4598	1282		355	Y450-8	3280	
32SA-19J																	4-Φ42 7	1120	1600	575	800	1000	305	450	1350	30	4-Φ35		4598	1282		280	Y450-10	3170	
32SA-19JA	2345	1168	1200	1000	700	2150	750	1200	450	450	300	1895	1150	60	690	600	4-Φ42 7	1120	1600	575	800	1000	305	450	1350	30	4-Φ35	/	4598	1282	6000	250	Y450-10	3080	
32SA-19JB																	4-Φ42 7	1120	1600	575	800	1000	305	450	1350	30	4-Φ35		4598	1282		200	Y450-43-10	3460	
32SA-19E																	4-Φ42 7	1250	1820	655	900	1120	335	500	1895	30	4-Φ42		4574	1402		630	Y500-8	4860	
32SA-19F																	4-Φ42 7	1120	1600	575	800	1000	305	450	1350	30	4-Φ35		4598	1282		400	Y450-8	3400	

Pump Model	Inlet Flange						Outlet Flange						Discharge Cone Flange					
	Dg	D	D1	D2	b	n-ød	Dg	D	D1	D2	b	n-ød	Dg	D	D1	D2	b	n-ød
6SA-6(S150-97)	150	260	225	200	20	8—ø18	100	215	180	155	24	8—ø18	150	280	240	210	28	8—ø23
6SA-8(S150-50)	150	260	225	200	20	8—ø18	100	205	170	145	18	4—ø18	150	280	240	210	24	8—ø23
8SA-7(S200-95)	200	315	280	255	22	8—ø18	125	245	210	185	26	8—ø18	200	335	295	265	30	12—ø23
8SA-10(S200-63)	200	315	280	255	22	8—ø18	150	280	240	210	24	8—ø23	200	335	295	265	28	8—ø23
10SA-6	250	390	350	320	28	12—ø23	200	335	295	265	26	8—ø23	250	390	350	320	28	12—ø23
14SA-10	350	520	470	435	38	16—ø25	300	460	375	375	34	12—ø25	350	500	460	428	30	16—ø23
16SA-9	400	580	525	485	40	16—ø30	350	520	435	435	38	16—ø25	400	565	515	482	32	16—ø25
20SA-22	500	640	600	568	30	16—ø23	400	535	462	462	28	16—ø23	500	670	620	585	34	20—ø25
24SA-10	600	840	770	710	54	20—ø41	500	705	608	608	46	20—ø34	—	—	—	—	—	—
24SA-18	600	780	725	685	36	20—ø30	500	670	585	585	34	20—ø25	—	—	—	—	—	—
28SA-10	700	895	840	800	40	24—ø30	500	705	608	608	46	20—ø34	—	—	—	—	—	—
32SA-10	800	1015	950	905	44	24—ø34	600	780	685	685	36	20—ø30	—	—	—	—	—	—
32SA-19	800	1015Z	950	905	44	24—ø34	600	780	685	685	36	20—ø30	—	—	—	—	—	—