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SP系列液下渣浆泵 SP SERIES VERTICAL TYPE OF SLURRY PUMPS



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上海同沐流体科技有限公司
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1、Description

SP-type pump is vertical centrifugal sump pump, which is put under water. It is applied in mines, coal mining, metallurgy, and electricity, etc. It can be used to transport abrasive, coarse granules and highly dense slurry.

This pump follows the standard of JB/T8090-1998 and GB/T5657-1995.

Code Identification

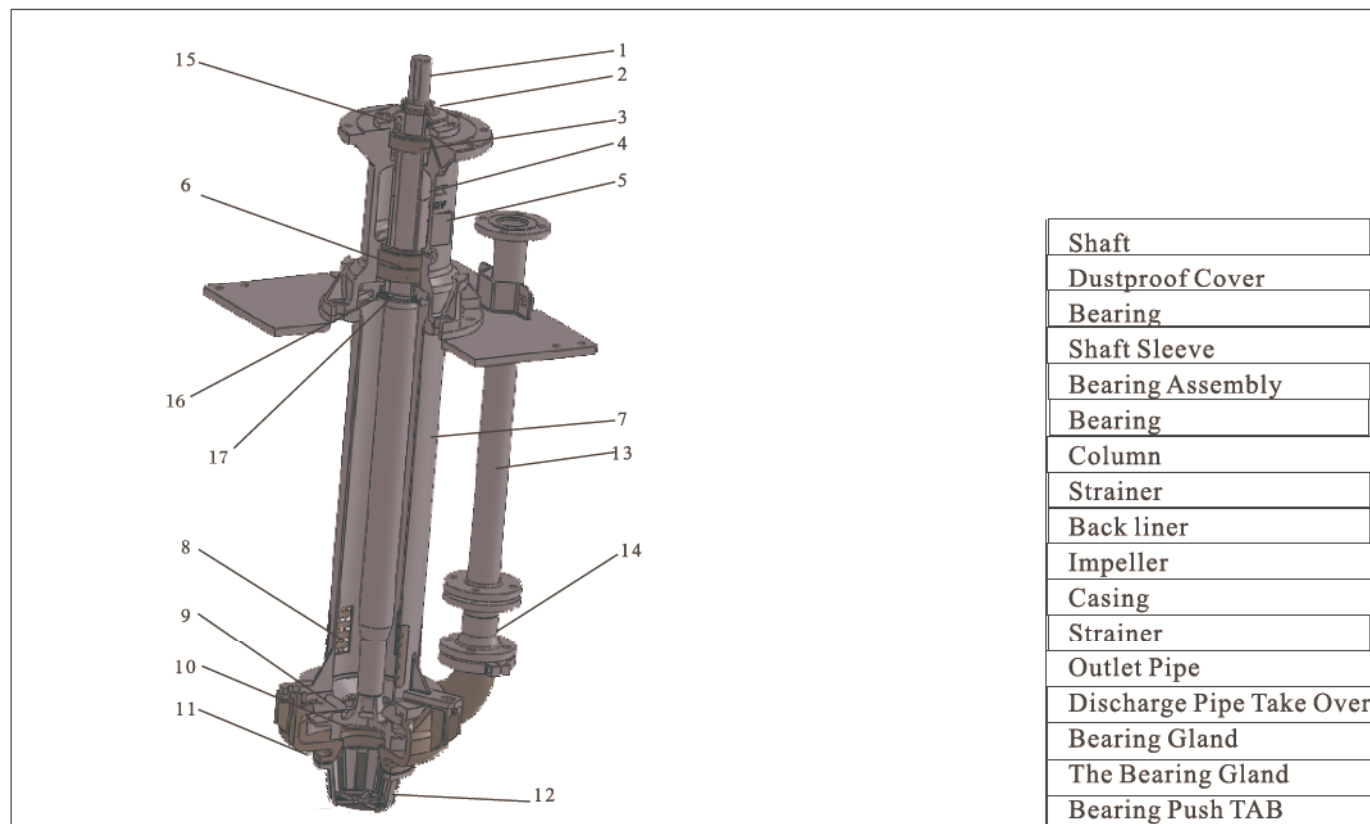
For example: 40 PV - SP

Liquid Modality
Slurry Pump
Pump Outlet
Diameter (mm)

2、Structural Illustration

SP-type pump is vertical centrifugal sump pump, the pump inlet is vertically downwards, and the outlet is vertically upwards at the other side. The pump is mainly made up of lower filter screen, pump casing, impeller, shaft, guard plate, bracket and so on. The upper part of pump is supported with bearing. The pump is mounted under water without need of any shaft seal. Wear-resistant material is applied for wet part.

SP Structural Diagram



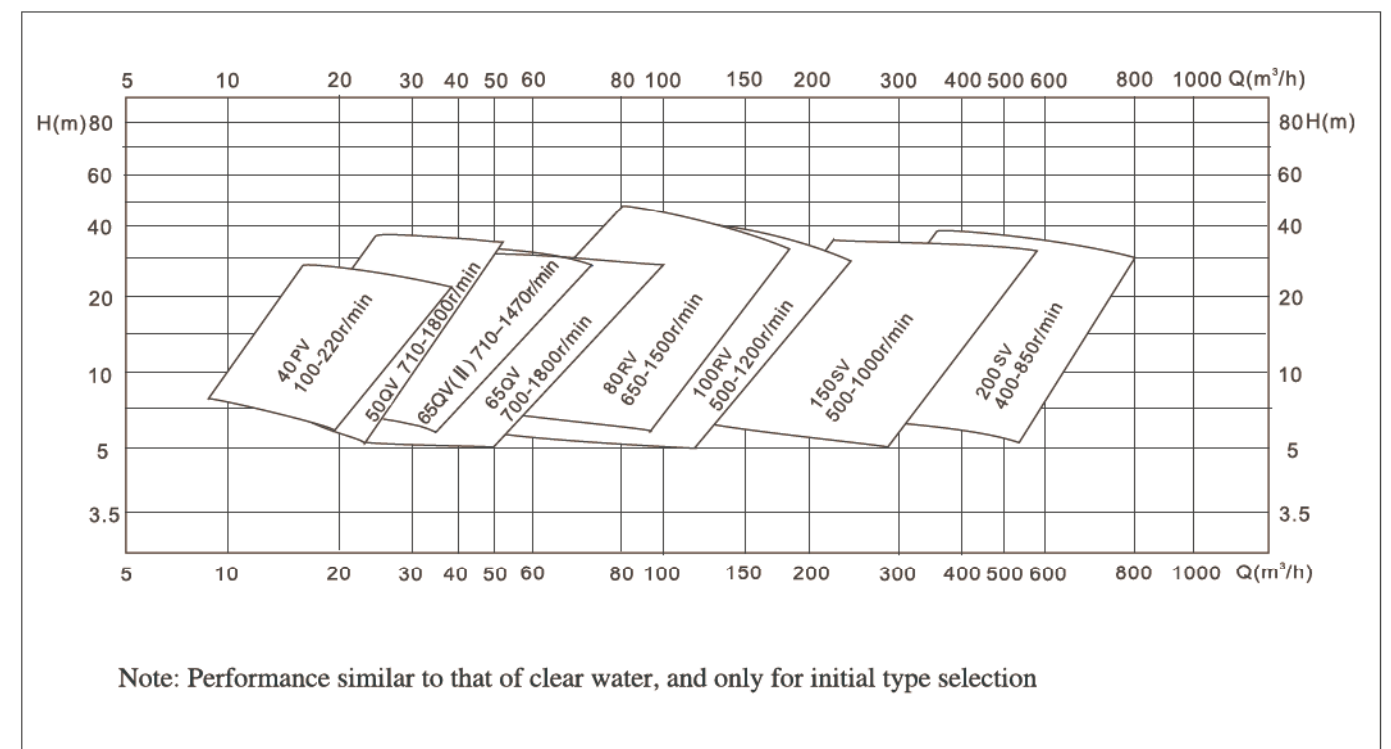
3、Notice

There are two drive modes for the pump: BD and DC, which, namely, are belt pulley drive and direct connection drive. The submerged depth can be fixed in accordance with the customers' actual need within the standard dimension range.

The pump rotates anticlockwise from the direction of pump inlet.

1. The assembly and disassembly should be carried out according to the overall installment diagram.
2. Have a good knowledge of rotation cycle. Have periodical replacement of equipment and bearing.
3. The indication for running direction is shown with arrow sign. It can not rotate in reverse direction.
4. Have a check on the flexibility of rotation of bearing. Proper lithium grease shall be fed into the oil hole at the upper part of bearing.
5. In order not for the solid particles inside slurry to subside, it shall be cleaned and maintained after the pump is turned off.

4、Pump Chart





5、Performance data

Type	Capacity Q (m³/h)	Head H (m)	Efficiency η (%)	Shaft Power P (kw)	(NPSH) _r (m)	Speed n (r/min)	Matched Motor		Drive Mode	Weight (kg)
							Power (kw)	Type		
40PV—SP	7.2	5.5	30	0.36		1000	1.1	Y90S-4	BD	285
	12.6	5	36	0.48						
	18	4.3	36	0.59						
40PV—SP	9	8	30	0.65		1200	1.5	Y90L-4	BD	285
	15.12	7.4	36	0.85						
	21.6	6.4	36	1.04						
40PV—SP	10.08	10.9	30	1.0		1400	2.2	Y100L ₁ -4 Y100L ₂ -4	BD	285
	18	10	37	1.32						
	24.81	8.7	36	1.63						
40PV—SP	10.44	11.5	30	1.08		1420	2.2	Y100L ₁ -4 Y100L ₂ -4	DC	285
	18	10.5	37	1.39						
	25.2	9	36	1.72						
40PV—SP	10.8	12.7	30	1.25		1500	3	Y100L ₂ -4 Y112M-4	BD	285
	18.72	11.3	37	1.56						
	26.64	10	36	2.02						
40PV—SP	11.52	14.4	30	1.51		1600	3	Y100L ₂ -4 Y112M-4	BD	285
	19.8	13	37	1.89						
	28.08	11.2	36	2.38						
40PV—SP	12.24	16.4	30	1.82		1700	4	Y112M-4 Y132S-4	BD	285
	21.24	15	37	2.34						
	30.24	12.9	36	2.95						
40PV—SP	13.32	18.2	30	2.20		1800	4	Y112M-2 Y132S-2	BD	285
	22.68	16.8	37	2.80						
	32.04	14.5	36	3.51						
40PV—SP	14.04	20.5	30	2.61		1900	5.5	Y132S ₁ -2 Y132S ₂ -2	BD	285
	24.12	18.7	37	3.32						
	34.2	16	36	4.14						
40PV—SP	14.76	22.5	30	3.01		2000	5.5	Y132S ₁ -2 Y132S ₂ -2	BD	285
	25.2	20.6	37	3.82						
	36	17.6	36	4.79						
40PV—SP	15.48	24.9	30	3.50		2100	7.5	Y132S ₂ -2	BD	285
	26.64	22.5	37	4.41						
	37.8	19.5	36	5.58						
40PV—SP	16.2	27.4	30	4.03		2200	7.5	Y132S ₂ -2	BD	285
	28.8	24.6	37	5.36						
	39.6	21.4	36	6.41						
50QV—SP	8.81	6.74	32	0.51		710	2.2	Y132S-8	DC	390
	14.69	5.99	37	0.65						
	21.30	5.21	40	0.76						

Type	Capacity Q (m³/h)	Head H (m)	Efficiency η (%)	Shaft Power P (kw)	(NPSH) _r (m)	Speed n (r/min)	Matched Motor		Drive Mode	Weight (kg)
							Power (kw)	Type		
50QV—SP	9.93	8.56	32	0.72		800	2.2	Y112M-6	BD	390
	16.55	7.67	37	0.93						
	24.00	6.61	40	1.07						
50QV—SP	11.17	10.83	32	1.03		900	3	Y132S-6	BD	390
	18.62	9.63	37	1.32						
	27.00	8.37	40	1.54						
50QV—SP	11.92	12.33	32	1.25		900	3	Y132S-6 Y132M-6	DC	390
	19.86	10.96	37	1.60						
	28.80	9.52	40	1.87						
50QV—SP	13.66	16.18	32	1.88		1100	5.5	Y132S-4	BD	390
	22.76	14.39	37	2.41						
	33.00	12.50	40	2.81						
50QV—SP	14.90	19.26	32	2.44		1200	7.5	Y132M-4	BD	390
	24.83	17.12	37	3.13						
	36.00	14.88	40	3.65						
50QV—SP	16.44	22.60	32	3.16		1300	7.5	Y132M-4 Y160M-4	BD	390
	26.90	20.10	37	3.98						
	39.00	17.46	40	4.64						
50QV—SP	18.00	28.12	32	4.31		1450	11	Y160M-4	DC	390
	30.00	25.00	37	5.52						
	43.50	21.73	40	6.44						
50QV—SP	18.62	30.09	32	4.77		1500	11	Y160M-4 Y160L-4	BD	390
	31.03	26.75	37	6.11						
	45.00	23.25	40	7.13						
50QV—SP	19.86	34.24	32	5.79		1600	15	Y160L-4 Y180M-4	BD	390
	33.10	30.44	37	7.42						
	48.00	26.45	40	8.65						
50QV—SP	21.10	38.65	32	6.95		1700	18.5	Y180M-4	BD	390
	35.17	34.36	37	8.90						
	51.00	29.86	40	10.37						
50QV—SP	22.34	43.34	32	8.25		1800	22	Y180L-4	BD	390
	37.24	38.53	37	10.57						
	54.00	33.48	40	12.32						
65QV—SP	19.08	6.7	40	0.87		700	3	Y132S-6	BD	432
	34.2	6	50	1.12						
	48.6	5	50	1.32						
65QV—SP	20.16	7	40	0.96		710	2.2	Y132S-8 Y132M-8	BD	432
	34.92	6.4	50	1.22						
	49.3	5.4	50	0.57						

Type	Capacity Q (m³/h)	Head H (m)	Efficiency η (%)	Shaft Power P (kw)	(NPSH)r (m)	Speed n (r/min)	Matched Motor		Drive Mode	Weight (kg)
							Power (kw)	Type		
65QV—SP	21.6	8.9	40	1.31		800			BD	432
	39.6	7.9	50	1.70			3	Y132S-6		
	55.08	6.8	50	2.04			4	Y132M1-6		
65QV—SP	24.48	11.1	40	1.85		900			DC	432
	43.2	9.9	50	2.33			4	Y132M1-6		
	61.2	8.5	50	2.83			5.5	Y132M2-6		
65QV—SP	26.28	12.8	40	2.29		960			BD	432
	46.08	11.4	50	1.32			5.5	Y132M2-6		
	65.88	9.8	50	3.52			7.5	Y160M-6		
65QV—SP	30.21	16.8	40	3.46		1100			BD	432
	51	14.8	50	4.11			7.5	Y132M-4		
	75.6	12.8	50	5.27			11	Y160M-4		
65QV—SP	32.4	19.6	40	4.32		1200			DC	432
	57.6	17.7	50	5.55			11	Y160M-4		
	81.72	15.2	50	6.77			15	Y160L-4		
65QV—SP	35.28	23.1	40	5.55		1300			BD	432
	61.2	20.8	50	6.93			11	Y160M-4		
	82.2	17.8	50	7.97			15	Y160L-4		
65QV—SP	37.8	26.7	40	6.87		1400			BD	432
	66.6	24	50	8.71			15	Y160L-4		
	95.4	20.5	50	10.65			18.5	Y180M-4		
65QV—SP	39.60	29.3	40	7.90		1470			DC	432
	70.20	26.1	50	9.98			18.5	Y180M-4		
	100.08	22.7	50	12.37			22	Y180L-4		
65QV—SP	40.3	30.8	40	8.45		1500			BD	432
	72	27.4	50	10.75			18.5	Y180M-4		
	102.6	23.5	50	13.13			22	Y180L-4		
65QV(Ⅱ)—SP	14.5	7.7	25	1.22		710			DC	390
	24.1	7.0	36	1.28			2.2	Y132S-8		
	35.0	6.3	38	1.58			3	Y132M-8		
65QV(Ⅱ)—SP	16.3	9.8	25	1.74		800			BD	390
	27.2	8.9	36	1.83			3	Y132S-6		
	39.5	8.0	38	2.26			4	Y132M1-6		
65QV(Ⅱ)—SP	18.4	12.4	25	2.48		900			BD	390
	30.6	11.2	36	2.61			4	Y132M1-6		
	44.4	10.1	38	3.22			5.5	Y132M2-6		
65QV(Ⅱ)—SP	19.6	14.1	25	3.01		960			DC	390
	32.7	12.8	36	3.16			5.5	Y132M2-6		
	47.3	11.5	38	3.91			7.5	Y160M-6		

Type	Capacity Q (m³/h)	Head H (m)	Efficiency η (%)	Shaft Power P (kw)	(NPSH)r (m)	Speed n (r/min)	Matched Motor		Drive Mode	Weight (kg)
							Power (kw)	Type		
65QV(Ⅱ)—SP	22.4	18.5	25	4.52		1100			BD	390
	37.4	16.8	36	4.76			7.5	Y132M-4		
	54.3	15.1	38	5.88			11	Y160M-4		
65QV(Ⅱ)—SP	24.5	22.0	25	5.87		1200			BD	390
	40.8	20.0	36	6.18			11	Y160M-4		
	59.2	18.0	38	7.64			15	Y160L-4		
65QV(Ⅱ)—SP	26.5	25.8	25	7.46		1300			BD	390
	44.2	23.5	36	7.85			15	Y160M-4		
	64.1	21.1	38	9.71			15	Y160M-4		
65QV(Ⅱ)—SP	30.0	33.0	25	10.79		1470			DC	390
	50.0	30.0	36	11.35			18.5	Y180M-4		
	72.5	27.0	38	14.04			22	Y180L-4		
65QV(Ⅱ)—SP	30.6	34.4	25	11.46		1500			BD	390
	51.0	31.2	36	12.06			18.5	Y180M-4		
	74.0	28.1	38	14.91			22	Y180L-4		
80RV—SP	38.21	8.46	43	2.05		650			BD	810
	63.68	7.91	52	2.64			5.5	Y160M-8		
	92.34	7.02	56	3.16						
80RV—SP	42.91	10.67	43	2.90		730			DC	810
	71.52	9.97	52	3.71			7.5	Y160L-8		
	103.7	8.86	56	4.47			11	Y180L-8		
80RV—SP	47.03	12.81	43	3.82		800			BD	810
	78.38	11.98	52	4.92			11	Y160L-6		
	113.65	10.64	56	5.88			15	Y180L-6		
80RV—SP	52.91	16.22	43	5.44		900			BD	810
	88.18	15.16	52	7.01			15	Y180L-6		
	127.85	13.46	56	8.37			18.5	Y200L-6		
80RV—SP	57.61	19.23	43	7.02		980			DC	810
	96.01	17.98	52	9.04			18.5	Y200L-6		
	139.22	15.98	56	10.82			22	Y180L-4		
80RV—SP	64.68	24.22	43	9.93		1100			BD	810
	107.77	22.65	52	12.79			22	Y180L-4		
	156.27	20.13	56	15.31			30	Y200L-4		
80RV—SP	70.54	28.83	43	12.89		1200			BD	810
	117.57	26.95	52	16.61			30	Y200L-4		
	170.47	23.94	56	19.85			37	Y225S-4		
80RV—SP	76.42	34.38	43	16.65		1300			BD	810
	127.36	31.63	52	21.11			37	Y225S-4		
	184.68	27.49	56	24.70			45	Y225M-4		



SP系列渣浆泵

Type	Capacity Q (m³/h)	Head H (m)	Efficiency η (%)	Shaft Power P (kw)	(NPSH) _r (m)	Speed n (r/min)	Matched Motor		Drive Mode	Weight (kg)
							Power (kw)	Type		
80RV-SP	82.3 137.1 198.8	39.8 36.6 31.8	43 52 56	20.8 26.4 30.8		1400	45	Y225M-4	DC	810
80RV-SP	87.00 145.00 203.00	44.09 41.00 35.51	43 52 56	24.3 31.15 35.07		1480	45	Y225M-4	DC	810
100RV-SP	41.5 75.6 111.6	6.2 5.9 5.1	40 52 56	1.75 2.34 2.77		500	4 5.5	Y160M1-8 Y160M2-8	BD	876
100RV-SP	50.40 90.0 129.6	9.0 8.5 7.6	40 52 56	3.09 4.01 4.79		600	5.5 7.5 11	Y160M2-8 Y160L-8 Y180L-8	BD	867
100RV-SP	57.60 104.4 151.2	12.2 11.5 10.2	40 52 56	4.45 6.29 7.5		700	11 15	Y160L-6 Y180L-6	BD	867
100RV-SP	61.2 111.6 162.0	13.4 12.7 11.2	40 52 56	5.58 7.42 8.82		730	11 15	Y180L-8 Y200L-8	DC	867
100RV-SP	64.8 122.4 176.4	16.0 15 13.2	40 52 56	7.06 9.62 11.32		800	15 18.5	Y180L-6 Y200L1-6	BD	867
100RV-SP	68.40 129.6 187.2	18 17 15	40 52 56	8.38 11.54 13.66		850	15 18.5 22	Y180L-6 Y200L2-6 Y200L2-6	BD 、	867
100RV-SP	75.6 136.8 198	20.3 18.9 16.9	40 52 56	10.45 13.61 16.27		900	22 30 37	Y200L2-6 Y225M-6 Y250M-6	BD	876
100RV-SP	82.8 147.6 214.2	24 22.5 20	40 52 56	13.53 17.39 20.83		980 (970)	30 37 45	Y225M-6 Y250M-6 Y280S-6	DC	867
100RV-SP	84.5 151.2 219.6	25 23.4 20.8	40 52 56	14.39 18.53 22.21		1000	30 37	Y200L-4 Y225S-4	BD	867
100RV-SP	86.4 158.4 230.4	27.7 25.7 22.8	40 52 56	16.29 21.32 25.55		1050	30 37 45	Y200L-4 Y225S-4 Y225M-4	BD	867
100RV-SP	91.8 165.6 239.4	30.3 28.2 25.2	40 52 56	18.95 24.46 29.34		1100	37 45	Y225S-4 Y225M-4	BD	867

SP Series Slurry Pump

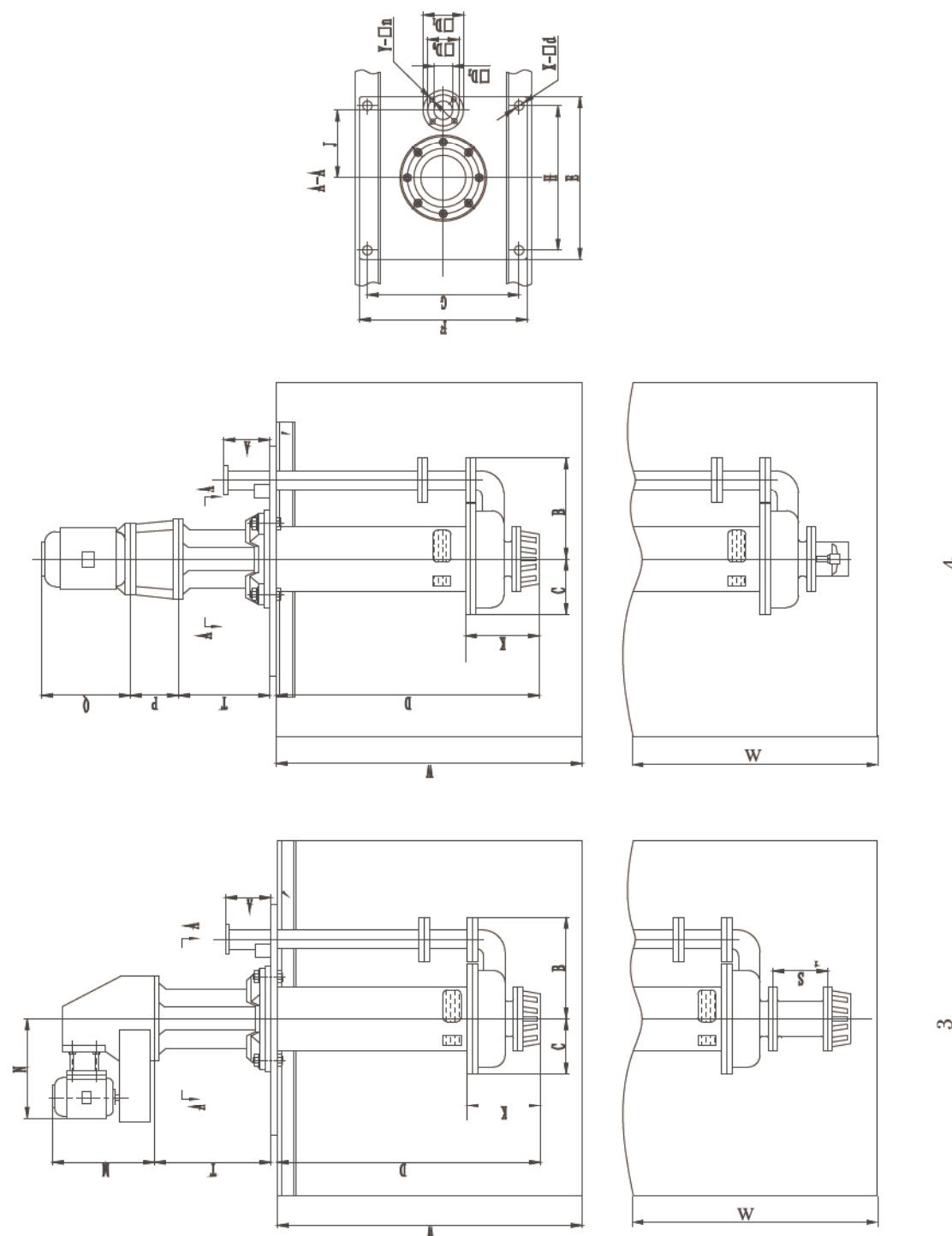
同沐流体

Type	Capacity Q (m³/h)	Head H (m)	Efficiency η (%)	Shaft Power P (kw)	(NPSH) _r (m)	Speed n (r/min)	Matched Motor		Drive Mode	Weight (kg)
							Power (kw)	Type		
100RV-SP	95.4 172.8 252	33 31 27.5	40 52 56	21.43 28.05 33.7		1150	37 45	Y225S-4 Y225M-4	BD	867
100RV-SP	100.8 180 259.2	36 33.8 30	45 53 53	24.71 31.86 37.82		1200	45	Y225M-4	BD	867
150SV-SP	115.2 201.6 288	9 8 6.7	45 53 53	6.27 8.29 9.91		500	11 15	Y180L-8 Y200L-8	BD	1737
150SV-SP	129.6 223.2 316.8	10.8 9.7 8	45 53 53	8.47 11.12 13.02		550	15 18.5 22	Y200L-8 Y225S-8 Y225M-8	BD	1737
150SV-SP	140.4 244.8 345.6	12.9 11.4 9.6	45 53 53	10.96 14.34 17.05		600	22 30	Y225M-8 Y225M-8	BD	1737
150SV-SP	154.2 262.8 374.4	15.2 13.5 11.4	45 53 53	14.19 18.23 21.93		650	30 37	Y250M-8 Y280S-8	BD	1737
150SV-SP	165.6 280.8 396	17.5 15.7 13.2	45 53 53	17.54 22.65 26.86		700	30 37 45	Y225M-8 Y250M-6 Y280S-6	BD	1737
150SV-SP	169.2 295.2 417.6	19 17 14.5	45 53 53	19.46 25.79 31.11		730 (740)	37 45	Y280S-8 Y280M-8	DC	1737
150SV-SP	187.2 324 457.2	22.9 20.4 17.1	45 53 53	25.94 30.96 40.17		800	45 55	Y280S-6 Y280M-6	BD	1737
150SV-SP	201.6 345.6 486	25.5 22.9 19.3	45 53 53	31.11 40.67 48.2		850	55 75	Y280M-6 Y315S-6	BD	1737
150SV-SP	212.4 367.0 518.4	28.9 25.7 21.7	45 53 53	37.15 48.49 57.8		900	75 90	Y315S-6 Y315M-6	BD	1737
150SV-SP	223.2 381.6 540.0	31.4 28 23.5	45 53 53	42.41 54.9 65.21		940	75 90	Y315S-6 Y315M-6	BD	1737
150SV-SP	230.4 396 561.6	33.5 30.2 25.4	45 53 53	47.13 61.45 73.3		980	75 90	Y315S-6 Y315M-6	DC	1737

6、Outline Diagram & Dimension

Diagram 1 shows Outline

Type	Capacity Q (m³/h)	Head H (m)	Efficiency η (%)	Shaft Power P (kw)	(NPSH) _r (m)	Speed n (r/min)	Matched Motor		Drive Mode	Weight (kg)
							Power (kw)	Type		
150SV-SP	234 403.2 576	35.7 31.9 26.8	45 53 53	55.56 60.09 79.32		1000	90	Y315M-6	BD	1737
200SV-SP	183.6 327.6 471.6	8.2 7.1 5.9	50 62 64	8.2 10.21 11.83		400	15 18.5	Y200L-8 Y225S-8	BD	2800
200SV-SP	198 356.4 511.2	10.4 9.2 7.8	50 62 64	11.21 14.41 16.96		450	18.5 22 30	Y225S-8 Y225M-8 Y250M-8	BD	2800
200SV-SP	215.2 377.5 536.3	12.4 10.9 9.4	50 62 64	14.52 18.08 21.44		490	30 37	Y250M-8 Y280S-8	BD	2800
200SV-SP	219.6 385.2 547.2	12.9 11.4 9.8	50 61.5 64	15.42 19.43 22.80		500	30 37	Y250M-8 Y280S-8	BD	2800
200SV-SP	244.8 410.4 586.8	15.5 13.9 11.9	50 61.5 64	20.65 25.25 29.70		550	37 45	Y280S-8 Y315S-10	BD	2800
200SV-SP	262 435.4 616	17.9 16.1 14.0	50 61.5 64	25.53 31.02 36.68		590	45 55	Y315S-10 Y315M-10	DC	2800
200SV-SP	266.4 442.8 626.4	18.5 16.7 14.5	50 61.5 64	26.83 32.73 38.63		600	45 55	Y315S-10 Y315M2-10	BD	2800
200SV-SP	291.6 475.2 666	21.8 19.7 17.1	50 61.5 64	34.6 41.43 48.44		650	55 75	Y315S-8 Y315M1-8	BD	2800
200SV-SP	316.8 504 705.6	25.2 22.9 20	50 61 64	43.36 51.5 60.02		700	75 90	Y315M1-8 Y315L-8	BD	2800
200SV-SP	330.3 529.2 735.3	28.2 25.6 22.6	50 61 64	50.71 60.45 70.68		740	90 110	Y315L-8 Y315L-8	DC	2800
200SV-SP	334.8 536.4 745.2	29 26.3 23.2	50 61 64	52.86 62.95 73.53		750	90 110	Y315L-8 Y315L-8	BD	2800
200SV-SP	360 568.8 784.8	33 30 26.7	50 61 64	64.68 76.15 89.12		800	110 132	Y315L-6 Y315L-6	BD	2800
200SV-SP	381.6 597.6 824.4	37.2 34 30.2	50 61 64	77.28 90.67 105.89		850	132 160	Y315L-6 Y355M-6	BD	2800



SP外型尺寸

PUMP TYPE	A	B	C	D		E	F	G	H	J	T	K
				STANDARD	WITH SUCTION PIPE (S)							
40PV-SP	137	285	153	900	ON INQUIRY	500	500	450	450	205	340	174
				1200								
50QV-SP	227	399	231	900	ON INQUIRY	680	680	620	620	285	392	265
				1200								
				1500								
65QV-SP	227	399	231	900	ON INQUIRY	680	680	620	620	285	455	265
				1200								
				1500								
65QV-SP(Ⅱ)	227	399	231	900	ON INQUIRY	680	680	620	620	285	455	265
				1200								
				1500								
80RV-SP	260	533	317	1200	ON INQUIRY	1000	870	800	930	386	614	393
				1500								
				1800								
100RV-SP	260	533	317	1200	ON INQUIRY	1000	870	800	930	400	614	393
				1500								
				1800								
150SV-SP	390	670	365	1500	ON INQUIRY	1100	1100	1030	1030	500	818	475
				1800								
				2100								
200SV-SP	450	805	440	1500	ON INQUIRY	1300	1200	1100	1200	600	818	550
				1800								
				2100								

PUMP TYPE	W	X-φ d	M	N	P	Q	OUT FLANGE SIZE			
			FOLLOW THE MOTOR SIZE				Φ D1	Φ D2	Φ D0	Y-φ n
40PV-SP	D+200~400	4-φ 18	733	675	248	629	127	40	98	4-φ 16
50QV-SP	D+200~400	4-φ 18	898	794	290	681	165	50	125	4-φ 19
65QV-SP	D+200~400	4-φ 18	898	794	290	681	180	65	140	4-φ 19
65QV-SP(Ⅱ)	D+200~400	4-φ 18	898	794	290	681	180	65	140	4-φ 18
80RV-SP	D+300~500	4-φ 23	1141	1020	416	960	195	80	160	8-φ 19
100RV-SP	D+300~500	4-φ 22	1141	1020	416	960	229	100	191	8-φ 19
150SV-SP	D+300~500	4-φ 27	1311	1200	476	1011	280	150	241	8-φ 22
200SV-SP	D+300~500	4-φ 27	1313	1300	476	1011	340	200	295	8-φ 22

Commitment to Quality Guarantee and After-sale Service

1. The whole process of our products' design,manufacture,test are under control of the ISO9001 puality management system.
2. The product warranty:Qur company has three-guarantee service and permanent maintenance policy.The three-guarantee service is guarantee for repair,refund and change of goods sold to customers during 12 months after acceptance test
3. Associating clients to design and dispatching our technicians to engineering site assisting installation
4. Offering clients technical training for operation and maintenance of the products.

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