



USA Headquarter:

5001 Spring Valley Road, Suite 400 East, Dallas, Texas 75244
Tel: +1 469 608 8815 Fax: +1 469 608 8816
Email: sales@vossche.com

Technical Data Is Subject To Change Without Notice, The First Printing In October, 2013



ISW SERIES END SUCTION PUMP

Summarize

ISW, ISWR, ISWH, ISWY, ISWD, ISWHD, ISWRD, ISWYD, ISWHYD series horizontal centrifugal pump, is the ideal, new generation, high efficiency, energy saved product, which is according to the performance parameter of the IS, IR type centrifugal pump and ISO standard, adopt excellent design of domestic hydraulic module.

Characteristic

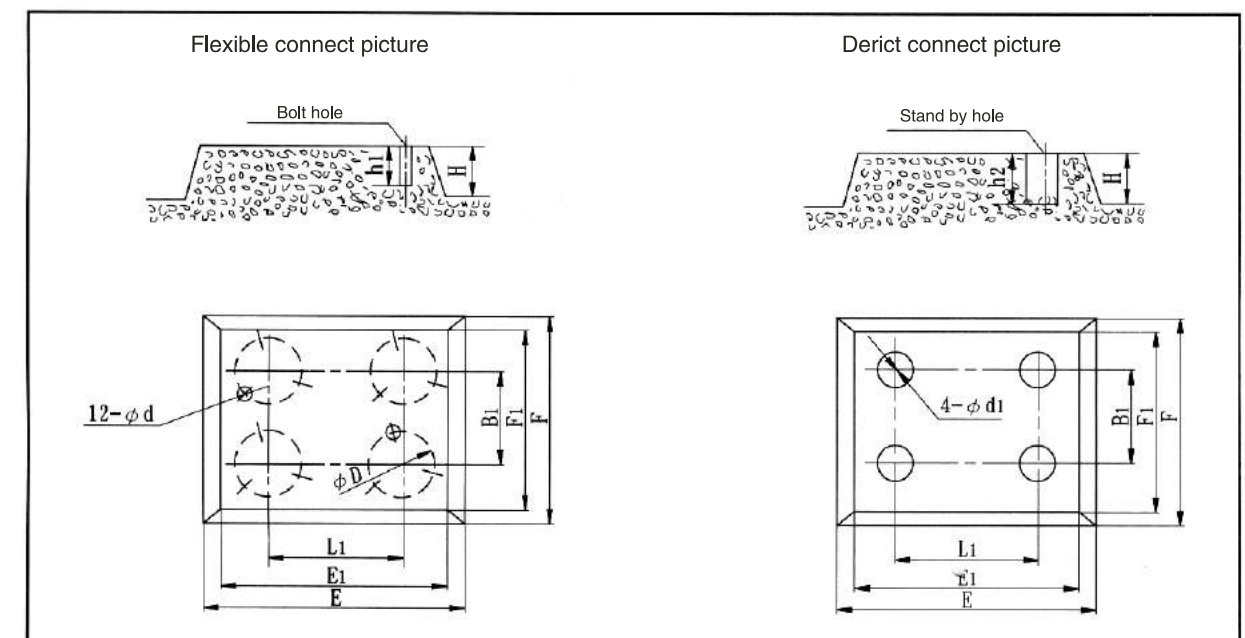
1. Compact structure, with motor, beautiful outline, take small place, about 30% reduce compare to common horizontal type. It can work in outdoor with IP54 outdoor motor.
2. Stably operated, low noise, direct coupling, the impeller has balance performance with non-vibration, low noise, which is related to the use life of the shaft bearing, and improve the working environment.
3. Seal adopt good mechanism seal, dynamic and static loop are made of hard alloy, anti-grind, non-leakage, long used.
4. Adopt advanced hydraulic module with high efficiency and good performance.
5. Particular structure. the pump bottom has a water discharge hole, and take pressure hole both in inlet and outlet flange, which is confirmed good performance and maintenance.
6. Level inlet, vertical outlet, that convenience to install the pipe.

Use

1. ISW series horizontal centrifugal pump, It is mainly used in water supply and liquid similar with water in physical and chemical quality, applicable to water supply and drain for factory and city, high building, boat, garden irrigation, firefight, long distance water supply, bathroom and other water circulation kit, the medium temperature is not exceed 85°C.
2. ISWR horizontal centrifugal hot water pump is applicable to energy, metallurgy, wood making, chemical, textile, paper making and restaurant, bathroom, hotel, increasing circulation pressure for boiler and house, the medium temperature is not exceed 120°C.

3. ISWH horizontal chemical centrifugal pump is applicable to oil, chemical, metallurgy, electricity, paper making, food, pharmacy, synthetic fibre, etc. transport the corrosive liquid with temperature between -20~105°C.
4. ISWY horizontal anti-explode oil pump is applicable to oil, textile, chemical, mechanism to transport the medium easy to lighted, exploded, with temperature below 120°C.
5. ISWHY horizontal stainless steel anti-explode chemical centrifugal pump, applicable to transport the chemical medium easy to lighted, exploded.
6. ISWD ISWRD ISWHD ISWYD ISWHYD horizontal low rotational speed centrifugal pump, applicable to the place that has high requirement about the noise of environment, especially applicable to increasing pressure of water circulation for air conditioning systems.

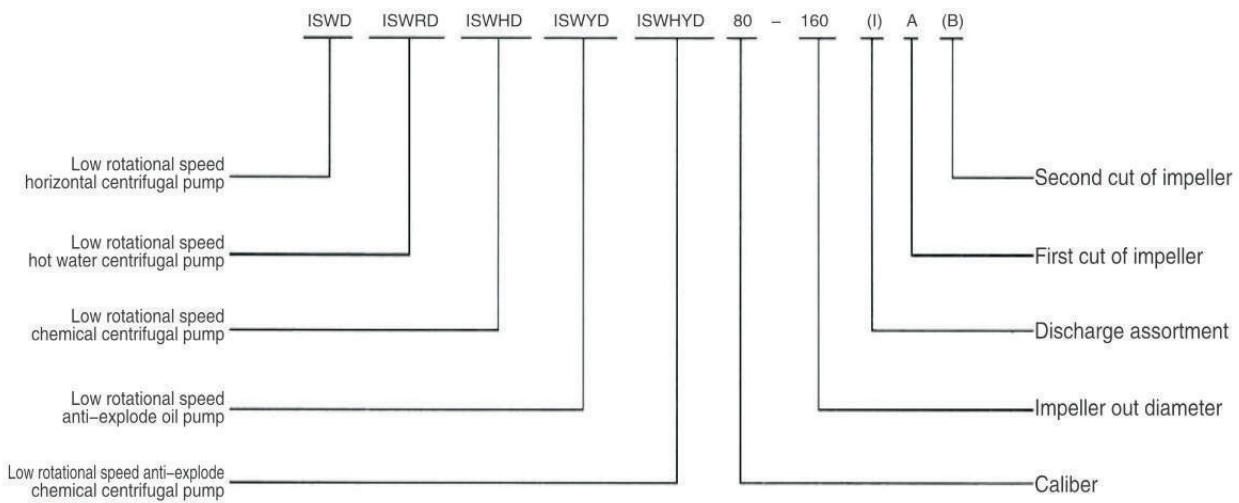
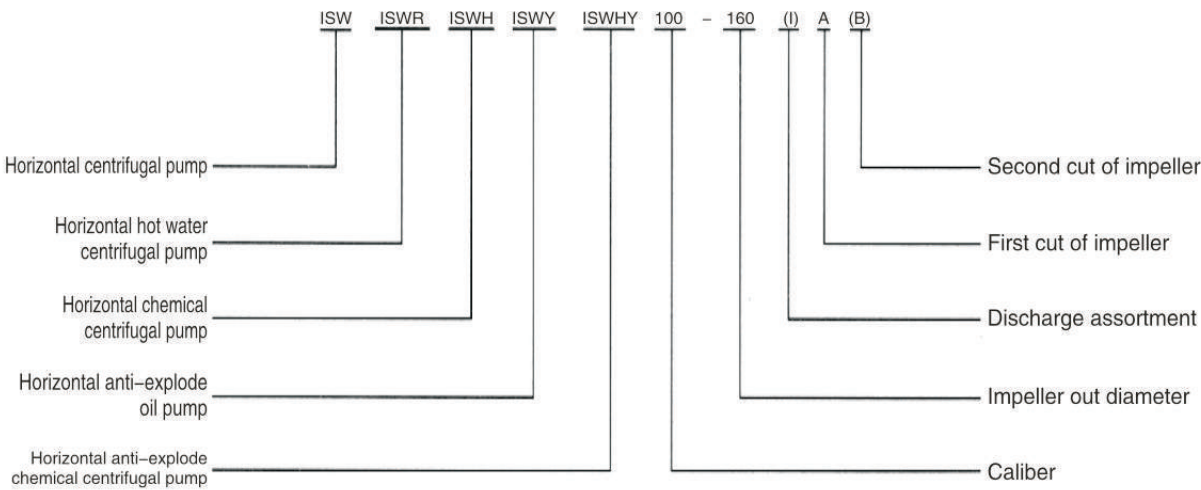
ISW, ISWR, ISWH, ISWY, ISWHY, ISWD, ISWRD, ISWHD, ISWYD, ISWHYD Type Pump Connect Picture



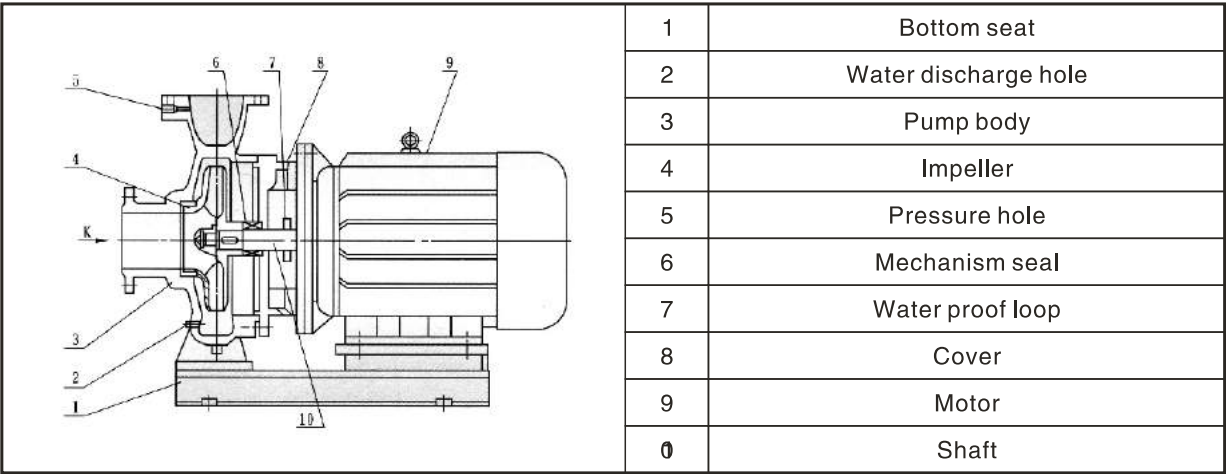
Model Meaning

- 1. The max working pressure (suction pressure +lift pressure) of pump system is not exceed 1.6Mpa,if higher than it,pls tell us ,we can make it with steel casing of liquid contact part and contact accessories.
- 2. Transport water and liquid similar with water in physical and chemical quality,if the medium contains granule,pls tell us ,so that we can installed grind proof mechanism seal.
- 3. Circumambience temperation is not exceed 40℃, altitude is below 1000m, relative humidity is below 95%.

Model Meaning



Structure Introduce



This pump is formed by pump body,motor,bottom seal,the structure include pump body,impeller,pump cover,mechanism seal,and other accessories.It is single suck single stage horizontal centrifugal pump,most impeller has seal loop both face and back,and balance hole on back surface to balance the rotator.Pump and motor adopt direct coupling,so it is no need to verify bottom seat with JG anti-vibration.

ISW, ISWR, ISWH, ISWY, ISWHY Performance Parameter Diagram

Model	Discharge		Lift H (m)	Efficiency η (%)	Motor P (kW)	Rotation n (r/min)	(NPSH) r (m)	Weight (kg)
	(m³/h)	(L/s)						
50-160 (I) B	15.0 21.5 28	4.17 6.0 7.78	26 24 20.6	51 58 56	3	2900	2.5	61
50-200 (I)	17.5 25 32.5	4.86 6.94 9.03	52.7 50 45.5	53 60 58	7.5	2900	2.5	113
50-200 (I) A	16.4 23.5 30.5	4.56 6.53 8.47	46.4 44 40	49 58 54	7.5	2900	2.5	111
50-200 (I) B	15.2 21.8 28.3	4.2 6.06 7.86	40 38 34.5	47 55 51	5.5	2900	2.5	104
50-250 (I)	17.5 25 32.5	4.86 6.94 9.03	82 80 76.2	49 52 50	15	2900	2.5	180
50-250 (I) A	16.4 23.4 30.5	4.56 6.53 8.47	71.5 70 67	45 51 47	11	2900	2.5	170
50-250 (I) B	15 21.6 28	4.17 6.0 7.78	61 60 57.4	38 54 49	11	2900	2.5	170
50-315 (I)	17.5 25 32.5	4.86 6.94 9.03	128 125 122	38 44 40	30	2900	2.5	313
50-315 (I) A	16.6 23.7 30	4.61 6.58 8.6	115 113 112	37 43 40	22	2900	2.5	247
50-315 (I) B	15.7 22.5 29.2	4.36 6.25 8.1	103 101 98	33 39 37	18.5	2900	2.5	217
65-100	17.5 25 32.5	4.86 6.94 9.03	13.7 12.5 10.5	67 69 68	1.5	2900	2.5	48
65-100A	15.6 22.3 29	4.3 6.19 8.1	11 10 8.4	65 68 67	1.1	2900	2.5	42
65-125	17.5 25 32.5	4.86 6.94 9.03	21.5 20 18	61 68 66	3	2900	2.5	60
65-125A	15.6 22.3 29	4.33 6.19 8.1	17 16 14.4	58 65 65	2.2	2900	2.5	51
65-160	17.5 25 32.5	4.86 6.94 9.03	34.4 32 27.5	54 60 63	4	2900	2.5	77
65-160A	16.4 23.4 30.4	4.56 6.5 8.44	30 28 24	54 62 59	4	2900	2.5	76
65-160B	15.0 21.6 28	4.17 6.0 7.78	26 24 20.6	51 58 56	3.0	2900	2.5	63
65-200	17.5 25 32.5	4.86 6.94 9.03	52.7 50 45.5	49 60 58	7.5	2900	2.5	110
65-200A	16.4 23.5 30.5	4.56 6.53 8.47	46.4 44 40	48 58 57	7.5	2900	2.5	109
65-200B	15.2 21.8 28.3	4.2 6.06 7.86	40 38 34.5	47 55 51	5.5	2900	2.5	101
65-250	17.5 25 32.5	4.86 6.94 9.03	82 80 76.5	39 52 50	15	2900	2.5	185
65-250A	16.4 23.5 30.5	4.56 6.5 8.47	75 70 67	47 51 48	11	2900	2.5	173
65-250B	15 21.6 28	4.17 6.0 7.78	61 60 57.4	43 50 46	11	2900	2.5	173
65-315	17.5 25 32.5	4.86 6.94 9.03	127 125 122	32 42 40	30	2900	2.5	325
65-315A	16.6 23.7 31	4.61 6.58 8.6	115 113 110	31 43 39	22	2900	2.5	258
65-315B	15.7 22.5 29.2	4.36 6.25 8.1	103 101 98	33 39 37	18.5	2900	2.5	229
65-100 (I)	35 50 65	9.72 13.9 18.1	13.8 12.5 10	67 73 70	3.0	2900	3.0	65
65-100 (I) A	31.3 44.7 58	8.7 12.4 16.1	11 10 8	66 72 68	2.2	2900	3.0	54
65-125 (I)	35 50 65	9.72 13.9 18.1	22 20 17	67 72.5 70	5.5	2900	3.0	100
65-125 (I) A	31.3 45 58	8.7 12.5 16.1	17.5 16 13.6	66 71 69	4	2900	3.0	79

ISW, ISWR, ISWH, ISWY, ISWHY Performance Parameter Diagram

Model	Discharge		Lift H (m)	Efficiency η (%)	Motor P (kW)	Rotation n (r/min)	(NPSH) r (m)	Weight (kg)
	(m³/h)	(L/s)						
80-350A	30.8 44 52.8	8.56 12.2 14.7	148 142 135	45 51 50	45	2900	3.0	441
80-350B	28 40 46	7.78 11.1 12.8	142 135 128	39 48 46	37	2900	3.0	378
80-100 (I)	70 100 130	19.4 27.8 36.1	14.0 12.5 11	66 76 75	5.5	2900	4.5	110
80-100 (I) A	62.6 89 116	17.4 24.7 32.2	12 10 8.8	64 74 74	4	2900	4.5	88
80-125 (I)	70 100 130	19.4 27.8 36.1	23.5 20 14	70 76 72	11	2900	4.5	164
80-125 (I) A	62.6 89 116	17.4 24.7 32.2	19 16 11	68 74 65	7.5	2900	4.5	114
80-160 (I)	70 100 130	19.4 27.8 36.1	36.5 32 24	70 76 65	15	2900	4.5	187
80-160 (I) A	65.4 93.5 121	18.2 26.0 33.8	32 28 21	68 74 67	11	2900	4.5	175
80-160 (I) B	60.6 86.6 112	16.8 24.1 31.3	27 24 18	66 72 65	11	2900	4.5	175
80-200 (I)	70 100 130	19.4 27.8 36.1	54 50 42	65 74 73	22	2900	4.0	253
80-200 (I) A	65.4 93.5 121	18.2 26.0 33.8	47.5 44 37	64 73 72	18.5	2900	4.0	221
80-200 (I) B	61 87 113	16.9 24.2 31.4	41 38 32	62 71 70	15	2900	4.0	200
80-250 (I)	70 100 130	19.4 27.8 36.1	87 80 68	62 71 68	37	2900	4.0	333
80-250 (I) A	65.4 93.5 121	18.2 26.0 33.8	76 70 59.5	61 68 67	30	2900	4.0	315
80-250 (I) B	61 87 113	16.9 24.2 31.4	65 60 51	60 66 66	30	2900	4.0	271
80-315 (I)	70 100 130	19.4 27.8 36.1	132 125 114	55 67 66	75	2900	4.0	680
80-315 (I) A	66.5 95 123	18.5 26.4 34.3	119 113 103	59 65 64	55	2900	4.0	537
80-315 (I) B	63 90 117	17.5 25 32.5	106 101 92	58 65 63	45	2900	4.0	425
80-315 (I) C	58 82 107	16.1 22.8 29.7	85 76 61	63 63 61	37	2900	4.0	370
100-100	70 100 130	19.4 27.8 36.1	13.6 12.5 11	66 76 75	5.5	2900	4.5	115
100-100A	62.6 89 116	17.4 24.7 32.2	11 10 8.8	64 74 74	4	2900	4.5	92
100-125	70 100 130	19.4 27.8 36.1	23.5 20 14	70 76 65	11	2900	4.5	173
100-125A	62.6 89 116	17.4 24.7 32.2	19 16 11	68 74 63	7.5	2900	4.5	120
100-160	70 100 130	19.4 27.8 36.1	36.5 32 24	70 76 65	15	2900	4.5	194
100-160A	65.4 93.5 121	18.2 26.0 33.8	32 28 21	68 74 67	11	2900	4.5	182
100-160B	60.6 86.6 112	16.8 24.1 31.3	27 24 18	67 72 65	11	2900	4.5	182
100-200	70 100 130	19.4 27.8 36.1	54 50 42	65 75 73	22	2900	4.0	248
100-200A	65.4 93.5 121	18.2 26.0 33.8	47.5 44 37	64 73 72	18.5	2900	4.0	216
100-200B	61 87 113	16.9 24.2 31.4	41 38 32	63 71 70	15	2900	4.0	195
100-250	70 100 130	19.4 27.8 36.1	87 80 68	62 71 68	37	2900	4.0	348

Model	Discharge		Lift H (m)	Efficiency η (%)	Motor P (kW)	Rotation n (r/min)	(NPSH) r (m)	Weight (kg)	
	(m³/h)	(L/s)							
100-250A	65.4 93.5 121	18.2 26.0 33.8	76 70 59.5	61 68 67	30	2900	4.0	332	
100-250B	61 87 113	16.9 24.2 31.4	65 60 51	59 66 65	30	2900	4.0	332	
100-315	70 100 130	19.4 27.8 36.1	132 125 114	55 67 66	75	2900	4.0	695	
100-315A	66.5 95 123	18.5 26.4 34.3	119 113 103	55 65 64	55	2900	4.0	552	
100-315B	63 90 117	17.5 25 32.5	106 101 92	51 65 63	45	2900	4.0	442	
100-350	60 100 120	16.7 27.8 33.3	153.6 150 142	72 77 74	90	2900	4.0	777	
100-350A	61 87 113	16.9 24.2 31.4	145.6 142 134	75 75 74	75	2900	4.0	683	
100-350B	58 82 107	16.1 22.8 29.7	138.6 135 127	75 75 72	55	2900	4.0	536	
100-100 (I)	96 160 192	26.7 44.4 53.3	14 12.5 10	64 73 70	11	2900	4.0	110	
100-125 (I)	96 160 192	26.7 44.4 53.3	24 20 14	62 74 69	15	2900	4.0	168	
100-125 (I) A	84 140 168	23.3 39 46.7	20 17 12	64 72 68	11	2900	4.0	160	
100-160 (I)	96 160 192	26.7 44.4 53.3	36 32 27	69 79 75	22	2900	4.0	210	
100-160 (I) A	84 140 168	23.3 39 46.7	32 28 23.5	66 76 72	18.5	2900	4.0	205	
100-200 (I)	96 160 192	26.7 44.4 53.3	54 50 46	65 77 75	37	2900	4.0	348	
100-200 (I) A	84 140 168	23.3 39 46.7	47.5 44 40.5	64 76 74	30	2900	4.0	332	
100-200 (I) B	60 138 170	23.6 38.3 47.2	40 37 34	63 75 75	30	2900	4.0	331	
100-250 (I)	96 160 192	26.7 44.4 53.3	83 80 72	65 77 74	55	2900	4.0	560	
100-250 (I) A	84 140 168	23.3 39 46.7	75 72 65	60 72 69	45	2900	4.0	540	
100-250 (I) B	60 109 120	16.7 27.8 33.3	68 65 58	68 75 70	37	2900	4.0	520	
125-100	96 160 192	26.7 44.4 53.3	13 12.5 12	13 12 12	82	11	2900	4.0	185
125-100A	86 143 172	23.9 39.7 47.8	10.4 10 9.6	77 77 76	7.5	2900	4.0	130	
125-125	96 160 192	26.7 44.4 53.3	22.6 20 17	66 76 74	80	15	2900	4.0	227
125-125A	86 143 172	23.9 39.7 47.8	18 16 13.6	68 76 73	11	2900	4.0	215	
125-160	96 160 192	26.7 44.4 53.3	36 32 28	66 76 78	22	2900	4.0	272	
125-160A	90 150 180	25 41.7 50	31.5 28 24.5	76 76 76	18.5	2900	4.0	215	
125-160B	83 138 166	21.7 38.3 46.1	27 24 21	73 73 73	15	2900	4.0	182	
125-200	96 160 192	26.7 44.4 53.3	55 50 46	65 77 76	37	2900	4.0	386	
125-200A	90 150 180	25 41.7 50	48.4 44 40.5	76 76 76	30	2900	4.0	365	
125-200B	83 138 166	21.7 38.3 46.1	41.3 37.5 34.5	75 75 75	22	2900	4.0	302	
125-250	96 160 192	26.7 44.4 53.3	87 80 73	62 71 68	55	2900	4.0	562	

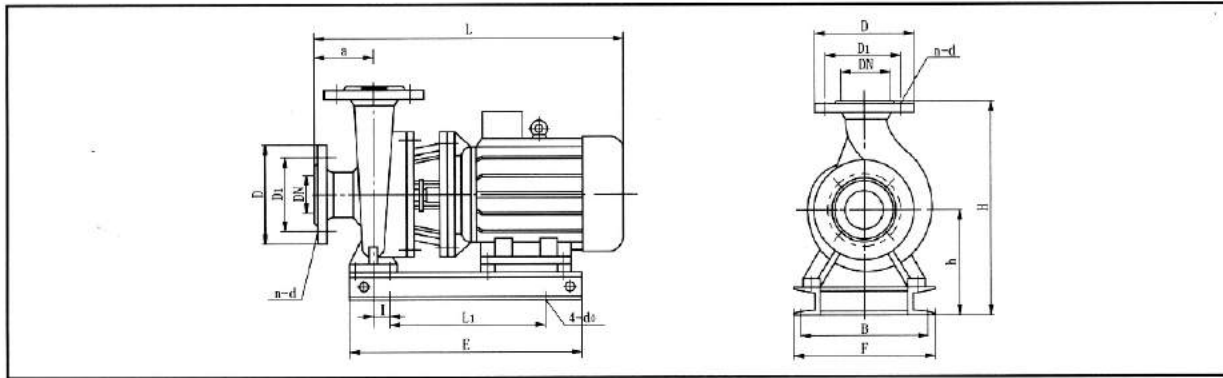
ISW, ISWR, ISWH, ISWY, ISWHY Performance Parameter Diagram

Model	Discharge		Lift H (m)	Efficiency η (%)	Motor P (kW)	Rotation n (r/min)	(NPSH) _r (m)	Weight (kg)
	(m ³ /h)	(L/s)						
125-250A	90 150 180	25 41.7 50	76 70 64	74	45	2900	4.0	457
125-250B	83 138 166	23.7 38.3 46.1	65 60 55	73	37	2900	4.0	404
125-315	96 160 192	26.7 44.4 53.3	133 125 119	70	90	2900	4.0	756
125-315A	90 150 180	25 41.7 50	117 110 104	70	75	2900	4.0	651
125-315B	86 143 172	23.9 39.7 47.8	106 100 95.2	69	75	2900	4.0	646
150-125	96 150 192	26.7 41.7 53.3	22.6 24 17	66 76 76	15	2900	4.0	236
150-125A	90 150 180	25 41.7 50	18 16 13.6	77	11	2900	4.0	226
150-160	96 160 192	26.7 44.4 53.3	35 32 28	72 78 76	22	2900	4.0	294
150-160A	90 150 180	25 41.7 50	31.5 28 24.5	71 76 73	18.5	2900	4.0	252
150-160B	84 140 168	23.3 38.9 46.7	27 24 21	67 73 72	15	2900	4.0	231
150-200	96 150 192	26.7 41.7 53.3	55 50 46	77	37	2900	4.0	410
150-200A	90 150 180	25 41.7 50	48.4 44 40.5	76	30	2900	4.0	385
150-200B	83 138 166	21.7 33.3 46.1	41.3 37.5 34.5	75	22	2900	4.0	315
150-250(I)	120 200 240	33.3 55.6 66.7	87 80 72	65 76 74	75	2900	4.0	761
150-250(I)A	112 187 224	31.1 51.9 62.2	76 70 63	64 75 73	55	2900	4.0	614
150-250(I)B	104 173 208	28.9 48.1 57.8	65 60 54	63 74 72	45	2900	4.0	509
150-315(I)	120 200 240	33.3 55.6 66.7	133 125 120	58 75 73	110	2900	4.5	1029
150-315(I)A	112 187 224	31.1 51.9 62.2	116 110 105	57 72 72	90	2900	4.5	767
150-315(I)B	104 173 208	28.9 48.1 57.8	100 95 91	55 72 70	75	2900	4.5	746
150-350	96 150 192	26.7 41.7 53.3	153.6 150 138	69 80 87	110	2900	4.5	1040
150-350A	105 180 216	29.2 50 60	152 142 130	68 89 85	90	2900	4.5	777
150-350B	98 140 168	27.2 38.9 46.7	110 101 90	63 67 60	75	2900	4.5	756
150-200(I)	140 200 260	38.9 55.6 72.2	13.8 12.5 10.6	68 78 78	15	1450	3.0	278
150-200(I)A	125 176 232	34.7 49.7 64.6	11.5 10 8.5	66 76 76	11	1450	3.0	263
150-250(I)	140 200 260	38.9 55.6 72.2	21.8 20 17	73 80 77	18.5	1450	3.0	355
150-250(I)A	129 184 240	35.8 51.2 66.7	18.5 17 14.4	72 78 76	15	1450	3.0	315
150-250(I)B	117 167 217	32.5 46.4 60.4	15.2 14 12	70 76 74	11	1450	3.0	294
150-315(I)	140 200 260	38.9 55.6 72.2	33.8 32 28	70 78 73	30	1450	3.5	462
150-315(I)A	131 187 243	36.4 51.9 67.5	29.5 28 24.5	69 77 77	22	1450	3.5	378
150-315(I)B	121 173 225	33.6 48.1 62.5	25.5 24 20.5	69 76 75	18.5	1450	3.5	368
150-400(I)	140 200 260	38.9 55.6 72.2	38.9 36.4 33.3	73 70 69	30	1450	4.0	578
150-400(I)A	121 173 225	33.6 48.1 62.5	25.5 24 20.5	69 76 75	18.5	1450	3.5	462
150-400(I)B	117 167 217	32.5 46.4 60.4	15.2 14 12	70 76 75	11	1450	3.0	294
150-400A	120 187 243	33.3 51.9 67.5	87 80 72	65 76 74	75	2900	4.0	761
150-400B	122 174 226	33.9 48.3 62.2	40 38 33	64 73 70	30	1450	3.5	546
150-400C	112 160 208	31.3 44.4 57.8	34 32 28	64 71 69	22	1450	3.5	515
150-200(I)	280 400 520	77.8 111 144	13.4 12.5 10.5	70 80 79	22	1450	4.0	452
150-200(I)A	250 358 465	69.4 99.4 129	11.2 10 8.5	68 78 77	18.5	1450	4.0	452
150-200(I)B	280 400 520	77.8 111 144	22.2 20 14	75 80 72	30	1450	4.0	525
150-250(I)A	250 358 465	69.4 99.4 129	18 16 11.2	73 78 70	22	1450	4.0	431
150-250(I)B	226 322 419	62.8 89.4 116	14.4 13 9.3	70 75 67	18.5	1450	4.0	420
150-315(I)	280 400 520	77.8 111 144	36 32 26	73 80 75	55	1450	4.0	756
150-315(I)A	262 374 486	72.8 103 135	31.5 28 23	72 79 74	45	1450	4.0	651
150-315(I)B	242 346 450	67.2 96.1 125	27 24 19.5	71 78 73	37	1450	4.0	599
150-400(I)	280 400 520	77.8 111 144	54.5 51 39	75 81 77	75	1450	4.0	1008
150-400(I)A	262 374 486	72.8 103 135	48 44 34	74 80 76	75	1450	4.0	893
150-400(I)B	242 346 450	67.2 96.1 125	41.4 38 29.6	72 78 74	55	1450	5.0	746
150-400(I)C	234 320 416	62.2 88.9 115	34.9 32 25	70 76 72	45	1450	5.0	635
150-500(I)	280 400 520	77.8 111 144	85 80 70	76 78 76	132	1450	4.0	1254
150-500(I)A	262 374 486	72.8 103 135	74.4 70 61.2	75 77 75	110	1450	4.0	1184

ISW, ISWR, ISWH, ISWY, ISWHY Performance Parameter Diagram

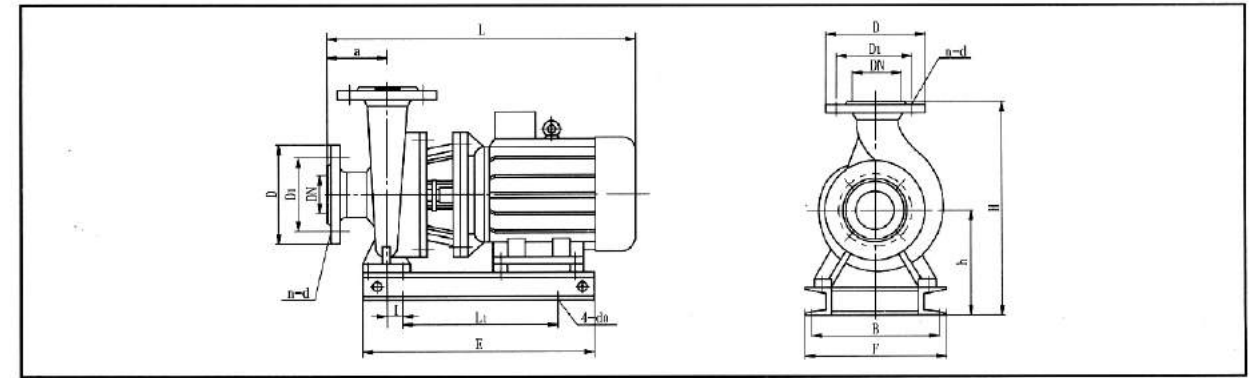
Model	Discharge		Lift H (m)	Efficiency η (%)	Motor P (kW)	Rotation n (r/min)	(NPSH) _r (m)	Weight (kg)
	(m ³ /h)	(L/s)						
200-500 (I) B	242	67.2	63.8	74	90	1450	4.0	1088
	346	96.1	60	76				
	450	125	52.5	73				
200-500 (I) C	224	62.2	53.2	73	75	1450	4.0	980
	320	88.9	50	75				
	416	115.6	43.8	73				
250-250	350	97.2	22	78	45	1450	5.0	620
	550	152.8	20	82				
	650	180.5	16	81				
250-250A	300	83.3	18.3	76	37	1450	5.0	550
	500	139	17	80				
	600	166.7	14	80				
250-315	350	97.2	34	76	75	1450	5.0	915
	550	152.8	32	80				
	650	180.5	28	79				
250-315A	300	83.3	29.5	74	55	1450	5.0	840
	500	139	28	78				
	600	166.7	24	78				
250-315B	260	72.2	25	70	45	1450	5.0	695
	450	125	24	74				
	520	144.4	20	72				
250-400	400	111.1	54.5	75	110	1450	5.0	1557
	550	152.8	50	78				
	670	186.7	39	80				
250-400A	365	101.4	47	74	90	1450	5.0	1055
	500	138.9	44	77				
	600	166.7	35	78				
250-400B	325	90.3	41.2	73	75	1450	5.0	910
	450	125	38	76				
	530	147.2	34.2	78				
250-480	400	111.1	76	75	160	1450	5.0	1545
	550	152.8	70	76				
	670	186.7	63	78				
250-480A	365	101.4	65	74	132	1450	5.0	1355
	500	138.9	60	75				
	600	166.7	54	77				
250-480B	325	90.3	55	73	90	1450	5.0	1055
	450	125	50	74				
	530	147.2	42	74				
250-500	400	111.1	84	68	200	1450	5.5	1880
	550	152.8	80	74				
	660	183.3	70	71				
250-500A	368	102.2	75	67	160	1450	5.5	1680
	506	140.6	71	75				
	607	168.6	62.3	70				
250-500B	339	94.2	66.5	65	132	1450	5.5	1452
	466	129.4	63.5	73				
	559	155.2	55.5	68				
300-235	540	150	20.5	77	55	1450	5.0	1135
	720	200	18	81				
	900	250	15.0	74				
300-235A	450	125	17.2	74	45	1450	5.0	1040
	600	166	15	79				
	720	200	12.5	77				
300-235B	420	116.7	14.3	73	37	1450	5.0	900
	540	150	12.8	78				
	650	181	10.5	70				
300-250	540	150	22.5	80	55	1450	5.0	1370
	720	200	20	83				
	900	250	17	84				
300-250A	450	125	19.5	81	45	1450	5.0	1190
	600	166	17	84				
	720	200	14	80				
300-300	540	150	32	77	75	1480	5.0	1930
	720	200	28	82				
	900	250	23	75				
300-300A	450	125	27.5	80	75	1480	5.0	1725
	600	166	24	84				
	720	200	20	80				
300-300B	420	116.7	24	78	55	1480	5.0	1550
	540	150	21	81				
	650	181	17	77				
300-235	480	133.3	20	77	55	980	5.0	1135
	720	200	18	81				
	900	250	15.5	74				
300-235A	438	121.7	16.5	75	45	980	5.0	1040
	607	182.5	15	79				
	821	228.1	13	72				
300-300	480	133.3	31	77	75	980	5.0	1370
	720	200	28	81				
	900	250	25	77				
300-300A	444	123.3	26.5	76	75	980	5.0	1370
	666	185	24	80				
	833	231.4	21.5	76				
300-300B	415	115.3	23	79	55	980	5.0	1190
	623	173.1	21	81				
	729	204.4	18.5	77				
300-380	480	133.3	48	76	132	980	5.0	1930
	720	200	44	84				
	900	250	34	82				
300-380A	444	123.3	41.4	76	110	980	5.0	1725
	666	185	38	81				
	833	231.4	30	77				
300-380B	400	113.6	35	80	90	980	5.0	1550
	614	170.6	32	80				
	767	213.1	25	77				
300-315	540	150	35	76	90	1450	5.0	1418
	720	200	32	80				
	900	250	26	80				
300-315A	460	127.8	31.5	72	75	1450	5.5	1302
	650	180	28	80				
	800	222	23.5	77				
300-315B	420	116.7	27	71	55	1450	5.0	1155
	580	161	24	78				
	700	194	20	76				
300-400	500	138.9	54.5	80	132	1450	5.5	1760
	720	200	50	80				
	900	250	42	78				
300-400A	420	127.8	47	78	110	1450	5.5	1550
	600	180.6	44	80				
	780	233.3	37	77				
300-460	480	133.3	71	75	185	1450	5.5	2250
	720	200	65	81				
	900	250	58	82				
300-460A	444	123.3	60	74	160	1450	5.5	1780
	666	185	55	80				
	833	231.4	49	81				
300-460B	409	113.6	49	73	110	1450	5.5	1680
	614	170.6	45	79				
	767	213.1	35	80				
300-500	540	150	85	78	250	1450	5.5	1680
	720	200	80	80				
	900	250	70	78				
300-500A	506	140.6	74.4	77	200	1450	5.5	1665
	675	187.5	70	79				
	720	200	61.2	77				
300-500B	468	130	63.8	76	160	1450	5.5	1472
	625	173.6	60	78				
	900	185.3	52.5	76				
300-500C	425	118	53.2	75	110	1450	5.5	1345
	570	158.3	50	77				
	605	168	43.8	75				
300-235 (I)	718	199.4	44.6	82	160	1450	5.5	1680
	1080	300	40	80				
	1345	373.6	34.6	77				
300-235 (I) A	642	178.3	35.7	80	132	1450	5.5	1450
	965	268.1	32	80				
	1203	334.2	27.7	73				
350-250	480	133.3	23	79	75	1450	5.0	1292
	800	222	20	82				
	960	267	17.5	81				
350-250A	430	119.4	18.5	81	55	1450	5.0	1230
	715	198.6	16	80				
	860	238.9	13	76				
350-315	480	133.3	35	75	90	1450	5.0	1733
	800	222	32	81				
	960	267	27	80				
350-315A	450	125	30.5	80	75	1450	5.0	1350
	748	207.8	28	80				
	900	250	23.5	77				
350-315B	415	115.6	26	78	75	1450	5.0	1350
	630	173.6	24	80				
	832	231.1	20	77				
350-400	480	133.3	55	76	160	1450	5.0	2048
	800	222	50	82				
	960	267	45.5	80				
350-400A	450	125	48	80	132	1450	5.0	1950
	748	207.8	44	80				
	900	250	40	77				
350-400B	418	116.1	42	78	110	1450	5.0	1920
	697	193.6	38	80				
	835	232.2	34.5	77				
350-460	1000	277.8	55	74	250	1450	6.0	2350
	1200	333.3	50	75				
	1450	402.8	43	73				
350-460A	900	250	47	72	200	1450	6.0	2100
	1000	280	44	75				
	1300	360	39	70				
350-480	610	169.4	71	75	220	1450	5.5	2100
	850	236.1	65	81				
	1020	283.3	58	79				
350-480A	574	159.4	65	75	200	1450	5.5	2350
	800	222.2	60	80				
	960	266.7	53	79				
350-480B	516	143.3	60	72	160	1450	5.5	2250
	730	200	55	75				
	864	240	45	75				
400-250	820	228	23	72	90	1450	5.5	1649
	1080	300	20	78				
	1300	361	16	75				
400-315	820	228	36.5	71	132	1450	5.5	1974
	1080	300	32	76				
	1300	361	27	71				
500-250	1000	277.8	23	76	110	1450	5.5	1890
	1200	333	20	80				
	1450	403	16	75				
500-315	1000	278	31.5	76	160	1450	5.5	2174
	1200	333	32	78				
	1450	403	27	77				

ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram



Model	Outline size				Installation size					Inlet and outlet flange size									
	L	H	E	F	a	h	L1	B	I	4-d0	DN	D	D1	n-d					
25-110	450	334	440	450	80	194	250	310	8	φ 16	φ 25	φ 115	φ 85	4-φ 14					
25-125	450	334	440	450	80	194	250	310	8										
25-125A	450	334	440	450	80	194	250	310	8										
25-160	480	355	490	390	85	210	270	340	8										
25-160A	460	355	440	450	85	210	250	310	8										
32-100	420	336	440	450	90	194	250	310	8	φ 16	φ 32	φ 140	φ 100	4-φ 14					
32-125	445	336	440	450	90	194	250	310	8										
32-125A	445	336	440	450	90	194	250	310	8										
32-160	470	370	490	390	95	210	270	340	8										
32-160A	470	370	490	390	95	210	270	340	8										
32-160(I)	470	336	490	390	85	194	270	340	8										
32-200	540	412	500	390	90	242	285	340	8										
32-200A	455	412	490	390	90	242	270	340	8										
32-200(I)	540	412	490	390	90	285	270	340	8										
40-100	442	306	440	450	80	181	250	310	11						φ 16	φ 40	φ 150	φ 110	4-φ 18
40-100A	442	306	440	450	80	181	250	310	11										
40-125	442	332	440	450	80	192	250	310	11										
40-125A	442	332	440	450	80	192	250	310	11										
40-160	490	374	490	390	85	214	270	340	7										
40-160A	470	374	490	390	85	214	270	340	15										
40-160B	440	374	440	450	85	214	250	310	11										
40-200	560	414	500	390	90	242	285	340	19										
40-200A	530	414	500	390	90	242	285	340	15										
40-200B	510	414	490	390	90	242	270	340	7										
40-250	610	486	500	450	90	280	350	390	12										
40-250A	610	486	500	450	90	280	350	390	12										
40-250B	550	472	500	450	90	260	350	390	5										
40-100(I)	450	322	440	450	80	180	250	310	10	φ 16	φ 40	φ 150	φ 110	4-φ 18					
40-100(I)A	450	322	440	450	80	180	250	310	10										
40-125(I)	470	345	450	360	80	190	250	310	16										
40-125(I)A	445	345	440	450	80	190	250	310	16										
40-160(I)	540	375	490	390	85	210	270	340	15										
40-160(I)A	540	375	490	390	85	210	270	340	7	φ 18	φ 40	φ 150	φ 110	4-φ 18					
40-160(I)B	525	375	490	390	85	210	270	340	7										
40-200(I)	610	440	590	450	85	260	350	390	26										
40-200(I)A	550	420	500	390	85	240	285	340	21										
40-200(I)B	530	420	500	390	85	240	285	340	17										
40-250(I)	750	505	670	460	100	280	400	410	15	φ 18	φ 40	φ 150	φ 110	4-φ 18					
40-250(I)A	650	505	590	450	100	280	350	390	18										
40-250(I)B	505	505	590	450	100	280	350	390	18										
50-100	440	332	440	450	80	192	250	310	10	φ 16	φ 50	φ 165	φ 125	4-φ 18					
50-100A	440	332	440	450	80	192	250	310	10										

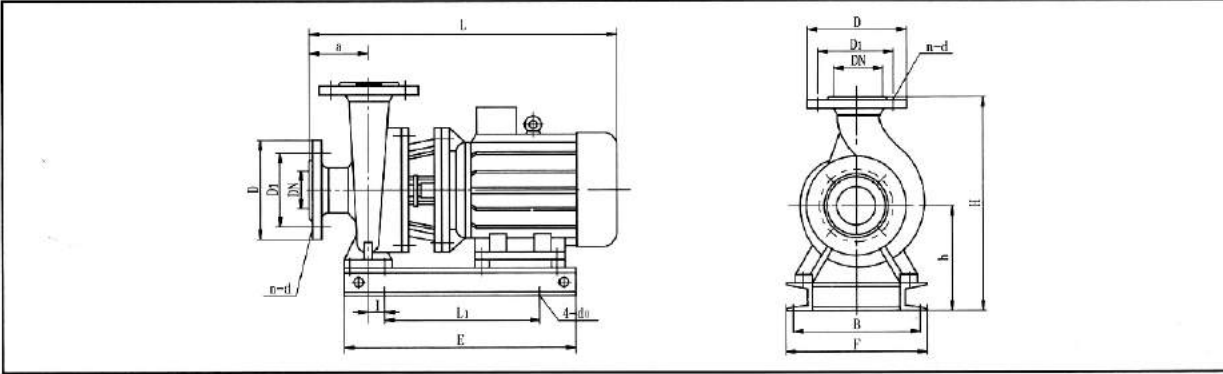
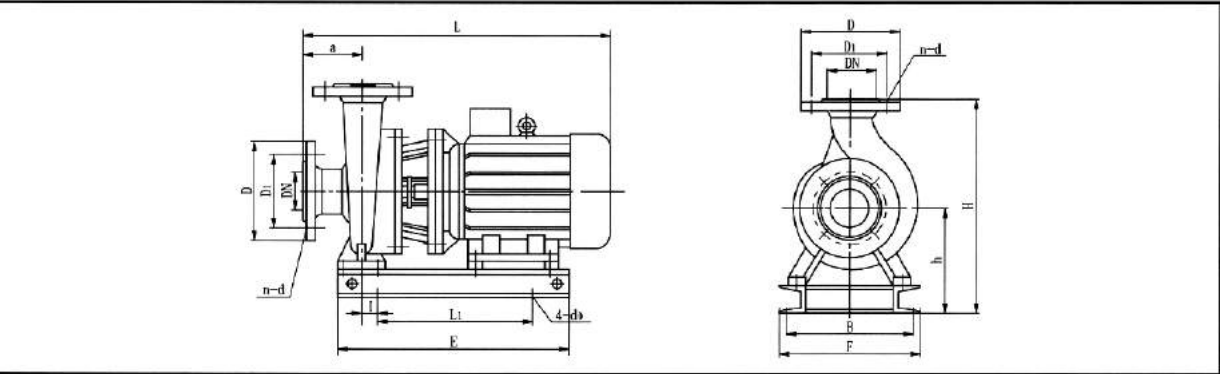
ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram



Model	Outline size				Installation size					Inlet and outlet flange size				
	L	H	E	F	a	h	L1	B	I	4-d0	DN	D	D1	n-d
50-125	470	340	450	360	80	190	250	310	16	φ 18	φ 50	φ 165	φ 125	4-φ 18
50-125A	455	340	440	450	80	190	250	310	16					
50-160	525	377	490	390	80	210	270	340	15					
50-160A	485	377	490	390	80	210	270	340	7					
50-160B	460	377	490	390	80	210	270	340	5					
50-200	610	446	550	390	80	265	340	350	26					
50-200A	550	422	500	390	80	245	285	340	21					
50-200B	532	422	500	390	80	245	285	340	17					
50-250	760	501	670	490	100	280	400	430	15					
50-250A	650	501	550	400	100	280	340	350	18					
50-250B	650	501	550	400	100	280	340	350	18					
50-100 (I)	470	352	450	360	80	195	250	310	15					
50-100 (I) A	450	352	440	450	80	195	250	310	11					
50-125 (I)	540	356	480	360	90	188	290	300	18					
50-125 (I) A	513	362	450	360	90	195	250	310	11					
50-160 (I)	552	400	500	390	100	215	285	340	22					
50-160 (I) A	532	400	500	390	100	215	285	340	17					
50-160 (I) B	502	400	490	390	100	265	270	340	14					
50-200 (I)	630	456	550	390	100	265	340	350	0					
50-200 (I) A	630	456	550	390	100	265	340	350	0					
50-200 (I) B	630	456	550	390	100	265	340	350	0					
50-250 (I)	745	526	670	490	100	286	410	430	14					
50-250 (I) A	745	526	670	490	100	286	410	430	14					
50-250 (I) B	745	526	670	490	100	286	410	430	14					
50-315 (I)	950	592	680	410	105	325	500	370	12					
50-315 (I) A	845	592	610	410	105	325	500	370	12					
50-315 (I) B	825	592	610	410	105	325	500	370	12					
65-100	465	352	450	360	85	195	250	310	15	φ 18	φ 65	φ 185	φ 145	4-φ 18
65-100A	440	352	440	450	85	195	250	310	11					
65-125	523	356	480	360	85	188	290	300	18					
65-125A	493	372	490	390	85	195	270	340	11					
65-160	552	395	500	390	100	214	285	340	22					
65-160A	552	395	500	390	100	214	285	340	17					
65-160B	532	395	490	390	100	214	270	340	14					
65-200	630	456	550	390	100	265	340	350	0					
65-200A	630	456	550	390	100	265	340	350	0					
65-200B	630	456	550	390	100	265	340	350	0					
65-250	745	526	670	490	100	296	400	430	14					
65-250A	745	526	670	490	100	296	400	430	14					
65-250B	745	526	670	490	100	296	400	430	14					
65-315	950	596	700	410	105	325	500	370	12					

ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram

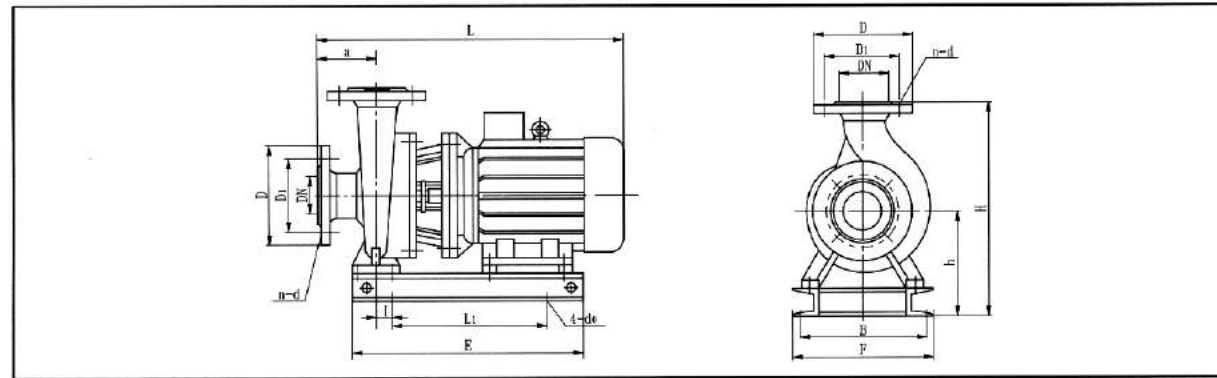
ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram



Model	Outline size				Installation size					Inlet and outlet flange size				
	L	H	E	F	a	h	L ₁	B	I	4-d ₀	DN	D	D ₁	n-d
65-315A	845	582	610	410	105	325	500	370	12	φ 18	φ 65	φ 185	φ 145	4-φ 18
65-315B	825	582	610	410	105	325	500	370	12					
65-100 (I)	545	376	490	390	100	216	270	340	18					
65-100 (I) A	505	376	490	390	100	216	270	340	11					
65-125 (I)	630	436	550	400	105	232	340	350	27					
65-125 (I) A	570	422	500	390	105	212	285	340	22					
65-160 (I)	640	465	550	400	100	265	270	340	10					
65-160 (I) A	640	465	550	400	100	265	270	340	10					
65-160 (I) B	640	465	550	400	100	265	340	350	10					
65-200 (I)	748	486	670	460	100	276	400	410	24					
65-200 (I) A	748	486	670	460	100	276	400	410	24					
65-200 (I) B	638	486	550	400	100	276	340	350	25					
65-250 (I)	830	546	670	490	125	296	400	430	21					
65-250 (I) A	810	546	670	490	125	296	400	430	19					
65-250 (I) B	765	546	670	490	125	296	400	430	19					
65-315 (I)	1040	560	720	350	125	325	600	310	30					
65-315 (I) A	935	560	700	350	125	325	600	310	30					
65-315 (I) B	890	560	650	350	125	325	500	310	30					
80-100	545	412	480	360	100	212	290	300	18	φ 18	φ 80	φ 200	φ 160	8-φ 18
80-100A	505	412	490	390	100	212	270	340	11					
80-125	630	446	550	400	95	242	340	350	27					
80-125A	567	422	500	390	95	224	270	340	22					
80-160	640	466	550	400	100	260	340	350	10					
80-160A	640	466	550	400	100	260	340	350	10					
80-160B	640	466	550	400	100	260	340	350	10					
80-200	748	486	670	490	100	276	400	410	24					
80-200A	748	486	670	490	100	276	400	410	24					
80-200B	638	486	550	400	100	276	340	350	25					
80-250	830	546	730	560	125	296	450	470	21					
80-250A	810	546	670	490	125	296	400	430	19					
80-250B	765	546	670	460	125	296	400	410	19					
80-315	957	640	720	410	135	345	540	370	5					
80-315A	957	640	720	410	135	345	540	370	5					
80-315B	957	640	720	410	135	325	540	370	5					
80-315C	852	640	600	410	135	340	460	370	6					
80-350	957	686	720	410	135	370	540	370	5					
80-350A	957	686	720	410	135	370	540	370	5					
80-350B	957	686	720	410	135	370	540	370	5					
80-100 (I)	640	491	500	400	105	266	340	350	20					
80-100 (I) A	580	491	500	390	105	266	285	340	20					
80-125 (I)	760	481	670	490	105	276	400	410	15					
80-125 (I) A	660	491	550	400	105	276	340	350	20					
80-160 (I)	750	524	670	490	110	276	400	410	17					
80-160 (I) A	750	524	670	490	110	276	400	410	17					

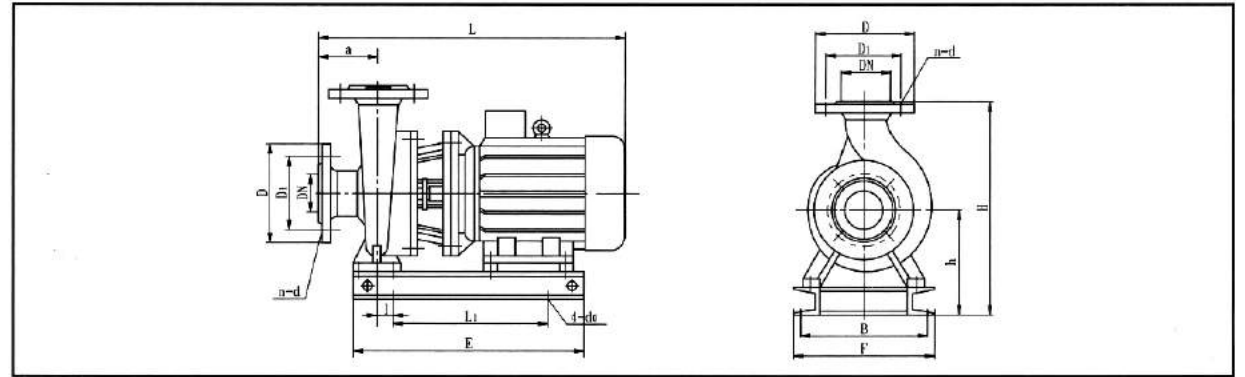
Model	Outline size				Installation size						Inlet and outlet flange size			
	L	H	E	F	a	h	L ₁	B	I	4-d ₀	DN	D	D ₁	n-d
80-160 (I) B	750	524	550	400	110	276	340	350	17	φ 18	φ 80	φ 200	φ 160	8-φ 18
80-200 (I)	820	506	730	560	100	286	450	470	23					
80-200 (I) A	800	506	670	530	100	265	400	430	23					
80-200 (I) B	760	506	670	490	100	265	400	430	19					
80-250 (I)	940	600	715	410	125	321	520	370	12	φ 22				
80-250 (I) A	940	600	715	410	125	321	520	370	12					
80-250 (I) B	940	600	715	410	125	321	520	370	12					
80-315 (I)	1149	746	910	410	130	450	660	370	30					
80-315 (I) A	1149	760	840	410	130	375	640	370	5					
80-315 (I) B	1149	676	770	410	130	350	560	370	11					
80-315 (I) C	1109	676	735	410	130	350	540	370	0					
100-100	650	491	500	400	105	266	340	350	20	φ 18				
100-100A	650	491	500	390	105	266	285	340	20					
100-125	760	491	670	490	105	276	400	410	15					
100-125A	660	491	550	400	105	276	340	350	20					
100-160	750	524	670	490	110	276	400	410	17					
100-160A	750	524	670	490	110	276	400	410	17					
100-160B	750	524	670	490	110	276	400	410	17					
100-200	820	526	730	560	100	296	450	470	23					
100-200A	800	526	670	530	100	296	400	430	23					
100-200B	760	526	670	490	100	296	400	410	19					
100-250	940	600	715	410	125	321	520	370	12					
100-250A	940	600	715	410	125	346	520	370	12					
100-250B	940	600	715	410	125	346	520	370	12					
100-315	1149	746	910	560	125	450	660	520	30	φ 22				
100-315A	1149	700	840	450	125	375	640	410	5					
100-315B	1149	676	770	450	125	360	560	410	11					
100-350	1210	790	960	500	130	420	700	460	30					
100-350A	1665	790	900	500	130	420	660	460	30	φ 18				
100-350B	1090	765	830	450	130	396	600	410	30					
100-100 (I)	740	491	560	335	105	276	400	295	20					
100-125 (I)	740	491	560	335	105	276	400	295	20					
100-125 (I) A	740	491	560	335	105	276	400	295	20					
100-160 (I)	850	546	620	360	105	296	440	320	23					
100-160 (I) A	830	546	620	360	105	296	440	285	23					
100-200 (I)	940	576	715	410	125	326	520	370	12					
100-200 (I) A	940	576	715	410	125	326	520	370	12					
100-200 (I) B	875	616	700	360	125	326	500	320	12		φ 22			
100-250 (I)	1140	690	850	490	125	390	660	450	15					
100-250 (I) A	1070	666	770	450	125	366	660	410	15					
100-250 (I) B	1000	620	750	410	125	320	660	370	15					
125-100	783	526	575	330	125	266	420	295	7	φ 22	φ 125	φ 250	φ 210	8-φ 18
125-100A	683	526	485	330	125	266	320	295	12					

ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram



Model	Outline size				Installation size					Inlet and outlet flange size				
	L	H	E	F	a	h	L1	B	I	4-d0	DN	D	D1	n-d
125-125	783	554	575	330	125	266	420	295	7	φ 19	φ 125	φ 250	φ 210	8-φ 18
125-125A	783	554	575	330	125	266	420	295	7					
125-160	848	554	620	360	125	296	440	320	21					
125-160A	828	554	620	360	125	296	440	320	19					
125-160B	783	554	575	360	125	296	420	320	7					
125-200	936	600	720	410	125	320	500	370	6					
125-200A	936	600	720	410	125	320	500	370	6					
125-200B	831	586	645	370	125	306	500	330	7					
125-250	1143	670	815	490	155	370	500	450	5					
125-250A	1070	660	740	440	150	345	500	400	10					
125-250B	1000	620	740	410	150	320	500	370	7					
125-315	1205	746	960	500	145	420	600	460	25	φ 22	φ 150	φ 285	φ 240	8-φ 22
125-315A	1155	746	900	500	145	420	600	460	30					
125-315B	1155	746	900	450	145	420	600	410	30					
150-125	783	525	575	330	125	266	420	295	7					
150-125A	783	525	575	330	125	266	420	295	7					
150-160	848	554	620	360	125	296	440	320	21					
150-160A	828	554	620	330	125	296	440	295	19					
150-160B	783	554	575	330	125	296	420	295	7					
150-200	936	690	740	410	115	346	540	370	6					
150-200A	936	690	740	410	115	346	540	370	6					
150-200B	831	586	645	410	115	316	460	370	7					
150-250 (I)	1175	750	890	560	145	396	680	520	20					
150-250 (I) A	1095	720	820	510	145	396	640	470	5					
150-250 (I) B	1010	695	750	450	145	396	540	410	21					
150-315 (I)	965	778	750	630	145	400	600	590	15					
150-315 (I) A	935	778	750	550	140	426	600	510	15					
150-315 (I) B	1155	806	720	550	135	426	600	510	10					
150-350	1205	746	940	410	135	396	720	370	25					
150-350A	1205	746	940	410	135	396	720	370	25					
150-350B	1205	746	940	410	135	396	720	370	25					
150-200 (I)	845	696	640	410	145	366	440	370	12					
150-200 (I) A	845	696	640	410	145	366	440	370	12					
150-250 (I)	865	715	650	410	145	366	440	370	12					
150-250 (I) A	845	715	640	410	145	366	440	370	16					
150-250 (I) B	800	715	600	410	145	366	400	370	15					
150-315 (I)	960	806	745	510	135	426	600	470	8					
150-315 (I) A	865	780	720	510	135	406	600	470	22					
150-315 (I) B	865	780	680	510	135	406	400	470	22					
150-400 (I)	1020	866	780	510	155	461	600	470	11					
150-400 (I) A	980	866	760	510	155	461	600	470	10					
150-400 (I) B	980	866	760	510	155	461	600	470	8					
150-400 (I) C	875	846	720	510	155	430	500	470	8					

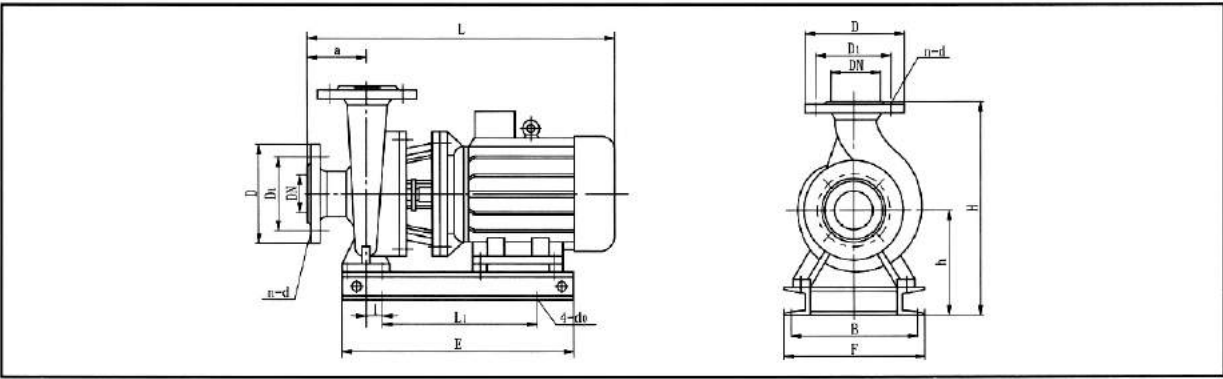
ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram



Model	Outline size				Installation size						Inlet and outlet flange size			
	L	H	E	F	a	h	L1	B	I	4-d0	DN	D	D1	n-d
200-200	845	696	720	410	145	366	440	370	16	φ 22	φ 200	φ 340	φ 295	12-φ 22
200-200A	845	696	720	410	145	366	440	370	16					
200-250	905	746	690	410	185	376	460	370	12					
200-250A	885	746	650	410	185	376	460	370	16					
200-250B	840	746	600	410	185	376	460	370	15					
200-315	980	816	745	510	165	426	600	470	8					
200-315A	925	816	720	510	165	426	600	470	8					
200-315B	900	791	680	510	165	406	500	470	22					
200-400	1020	886	780	510	155	461	600	470	11					
200-400A	980	886	750	510	155	461	600	470	10					
200-400B	980	886	745	510	155	461	600	470	8					
200-400C	875	866	705	510	155	436	480	470	8					
200-200 (I)	925	796	720	510	150	406	500	470	5					
200-200 (I)A	885	796	680	510	150	406	440	470	16					
200-250 (I)	990	826	760	510	164	426	520	470	8					
200-250 (I)A	885	806	720	510	164	406	480	470	8					
200-250 (I)B	865	806	680	510	164	406	420	470	12					
200-315 (I)	1150	880	870	560	152	461	620	520	12					
200-315 (I)A	1060	865	790	560	168	461	600	520	8					
200-315 (I)B	1040	880	770	560	168	461	520	520	8					
200-400 (I)	1255	896	1000	560	168	461	760	520	15					
200-400 (I)A	1190	896	935	560	168	461	700	520	12					
200-400 (I)B	1120	896	865	560	168	461	640	520	8					
200-400 (I)C	1035	896	795	560	168	461	580	520	3					
200-500 (I)	1345	1080	1120	680	145	536	800	630	5					
200-500 (I)A	1268	1116	1065	680	145	536	760	630	5					
200-500 (I)B	1180	1096	1020	680	145	516	760	630	5					
200-500 (I)C	1180	1096	995	680	145	516	760	630	5					
250-250	1110	906	820	510	210	461	580	470	8	φ 22	φ 250	φ 405	φ 355	12-φ 26
250-250A	1085	906	800	510	210	461	580	470	8					
250-315	1290	975	950	600	225	476	700	560	12					
250-315A	1220	920	900	600	225	476	640	560	12					
250-315B	1105	875	860	600	225	476	580	560	12					
250-400	1300	1030	1070	630	200	496	760	590	15					
250-400A	1220	1010	1020	630	200	476	680	590	12					
250-400B	1220	1000	980	630	200	476	680	590	12					
250-480	2200	1164	1155	660	215	564	860	620	18					
250-480A	1600	1164	1130	660	215	564	860	620	5					
250-480B	1510	1164	1060	660	215	564	780	620	10					
250-500	1775	1185	1380	670	200	535	1000	620	-30					
250-500A	1590	1185	1300	670	200	530	920	620	-30					
250-500B	1550	1185	1250	670	200	530	900	620	-30					

ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram

ISW, ISWR, ISWH, ISWY, ISWHY Performance Parameter Diagram



Model	Outline size				Installation size					Inlet and outlet flange size				
	L	H	E	F	a	h	L ₁	B	I	4-d ₀	DN	D	D ₁	n-d
300-235	1280	1150	930	720	280	560	740	680	16	φ 22	φ 300	φ 460	φ 410	12-φ 26
300-235A	1160	1150	850	720	280	545	680	680	16					
300-235B	1160	970	830	720	245	545	700	680	30					
300-250	1340	995	930	720	245	545	900	680	30					
300-250A	1270	970	850	720	245	545	700	680	30					
300-300	1340	1075	1080	720	260	560	700	680	20					
300-300A	1270	1045	980	720	260	560	680	680	22					
300-300B	1155	1000	900	720	260	560	640	680	20					
300-380	1780	1320	1450	810	260	585	1150	770	25					
300-380A	1780	1320	1450	810	260	585	1150	770	25					
300-380B	1720	1170	1300	810	260	585	1000	770	25					
300-315	1380	1090	1160	610	260	400	840	570	16					
300-315A	1330	1025	1100	610	260	400	800	570	16					
300-315B	1255	1025	1050	690	260	370	740	570	20					
300-400	1570	1164	1090	660	280	549	780	620	25					
300-400A	1470	1164	1050	660	280	549	780	680	25					
300-460	1770	1180	1240	730	280	530	1000	680	25					
300-460A	1770	1180	1240	730	280	530	1000	680	25					
300-460B	1450	1180	1220	730	280	530	1000	680	25					
300-500	1668	1225	1400	810	280	475	1200	770	12	φ 22	φ 350	φ 520	φ 470	12-φ 26
300-500A	1555	1225	1350	810	280	475	1160	770	12					
300-500B	1478	1180	1350	810	280	425	1160	770	12					
300-500C	1356	1088	1220	810	280	425	1000	770	12					
300-235 (I)	1610	1178	1220	720	250	572	800	680	20					
300-235 (I) A	1610	1178	1220	720	250	572	800	680	20					
350-250	1350	1020	1100	690	280	370	800	650	20					
350-250A	1280	1020	1000	690	280	370	700	650	20					
350-315	1400	1050	1090	690	280	400	840	650	20					
350-315A	1320	1050	1050	690	280	400	800	650	20					
350-315B	1320	1050	1050	690	280	400	800	650	20					
350-400	1510	1210	1195	660	280	549	880	620	20					
350-400A	1450	1210	1175	660	280	549	800	620	20					
350-400B	1400	1210	1100	660	280	549	750	620	20					
350-460	1920	1250	1370	780	280	480	1100	730	25					
350-460A	1920	1250	1370	780	280	480	1100	730	25					
350-480	1720	1250	1400	780	280	480	1100	730	25					
350-480A	1680	1250	1400	780	280	480	1100	730	25					
350-480B	1560	1250	1300	780	280	480	1050	730	20					
400-250	1450	1132	1100	730	290	578	800	680	20	φ 26	φ 400	φ 580	φ 525	16-φ 26
400-315	1720	1132	1160	730	290	578	900	680	20					
500-250	1700	1160	1400	880	380	540	1100	840	20	φ 26	φ 500	φ 715	φ 650	20-φ 30
500-315	1750	1160	1400	880	380	540	1100	840	20					

Model	Discharge		Lift H (m)	Efficiency η (%)	Motor P (kW)	Rotation n (r/min)	蚀余量 (NPSH) r (m)	Weight (kg)	Model	Discharge		Lift H (m)	Efficiency η (%)	Motor P (kW)	Rotation n (r/min)	(NPSH) r (m)	Weight (kg)
	(m³/h)	(L/s)								(m³/h)	(L/s)						
40-160	2.2 3.2 4.2	0.61 0.89 1.17	8.3 8 7.5	39	0.37	1450	2.3	46	65-125	8.75 12.5 16.3	2.4 3.5 4.5	5.4 5 4.5	66	0.37	1450	2.5	55
40-200	2.2 3.2 4.2	0.61 0.89 1.17	12.8 12.5 12	31	0.55	1450	2.3	56	65-160	8.75 12.5 16.3	2.4 3.5 4.5	8.6 8 6.88	61	0.55	1450	2.5	65
40-250	2.2 3.2 4.2	0.61 0.89 1.17	20.5 20 18.5	27	1.1	1450	2.3	80	65-200	8.75 12.5 16.3	2.4 3.5 4.5	13.2 12.5 11.4	58	1.1	1450	2.5	73
40-250A	2.0 3.0 3.9	0.56 0.83 1.08	18 17.5 16.3	27	0.75	1450	2.3	70	65-200A	8.2 11.8 15.3	2.3 3.3 4.3	11.6 11 10	56	0.75	1450	2.5	65
40-250B	1.9 2.8 3.5	0.53 0.78 0.97	15.4 15 14	26	0.55	1450	2.3	60	65-250	8.75 12.5 16.3	2.4 3.5 4.5	20.5 20 19.1	50	2.2	1450	2.5	105
40-125 (I)	4.4 6.3 8.2	1.2 1.75 2.3	5.3 5.0 4.5	56	0.25	1450	2.3	45	65-250A	8.2 11.7 15.3	2.3 3.3 4.3	17.9 17.5 16.8	49	1.5	1450	2.5	95
40-160 (I)	4.4 6.3 8.2	1.2 1.75 2.3	8.3 8.0 7.5	50	0.55	1450	2.3	55	65-250B	7.5 10.8 14	2.1 3 3.9	15.3 15 14.4	48	1.1	1450	2.5	85
40-200 (I)	4.4 6.3 8.2	1.2 1.75 2.3	12.8 12.5 12	44	0.75	1450	2.3	65	65-315	8.75 12.5 16.3	2.4 3.5 4.5	32 31.2 30.5	41	4	1450	2.5	130
40-250 (I)	4.4 6.3 8.2	1.2 1.75 2.3	20.3 20 19.4	39	1.5	1450	2.3	90	65-315A	8.3 11.9 15.5	2.3 3.3 4.3	28.8 28 27.5	41	4	1450	2.5	130
40-250 (I) A	4.1 5.8 7.6	1.1 1.6 2.1	17.8 17.5 17	37	1.1	1450	2.3	80	65-315B	7.85 11.3 14.6	2.2 3.1 4	25.8 25.3 24.5	38	3	1450	2.5	115
40-250 (I) B	3.8 5.4 7	1.1 1.5 1.9	15.4 15 14.5	36	0.75	1450	2.3	70	65-125 (I)	17.5 25 32.5	4.86 6.94 9.03	5.5 5 4.25	72	0.75	1450	3.0	70
50-125	4.4 6.3 8.2	1.2 1.75 2.3	5.3 5 4.45	56	0.25	1450	2.3	45	65-160 (I)	17.5 25 32.5	4.86 6.94 9.03	8.75 8 7	71	1.1	1450	3.0	78
50-160	4.4 6.3 8.2	1.2 1.75 2.3	8.3 8 7.5	51	0.55	1450	2.3	55	65-200 (I)	17.5 25 32.5	4.86 6.94 9.03	13.4 12.5 11.5	67	2.2	1450	3.0	98
50-200	4.4 6.3 8.2	1.2 1.75 2.3	13 12.5 12	45	0.75	1450	2.3	65	65-200 (I) A	16.4 23.5 30.5	4.56 6.53 8.47	11.8 11 10	65	1.5	1450	3.0	88
50-250	4.4 6.3 8.2	1.2 1.75 2.3	20.5 20 19.4	39	1.5	1450	2.3	90	65-250 (I)	17.5 25 32.5	4.86 6.94 9.03	20.8 20 18	60	3	1450	3.0	128
50-250A	4.1 5.8 7.6	1.14 1.45 1.9	17.9 17.5 17	37	1.1	1450	2.3	80	65-250 (I) A	16.3 23.4 30.5	4.53 6.5 8.47	18.3 17.5 15.8	58	3	1450	3.0	125
50-250B	3.8 5.4 7	1.06 1.5 1.94	15.4 15 14.5	36	0.75	1450	2.3	70	65-250 (I) B	15 21.7 28	4.17 6.03 7.78	15.5 15 13.5	56	2.2	1450	3.0	115
50-125 (I)	8.75 12.5 16.3	2.4 3.5 4.5	5.38 5 4.5	66	0.37	1450	2.5	55	65-315 (I)	15 25 30	4.17 6.94 8.33	32.5 32 31.5	50	5.5	1450	3.0	190
50-160 (I)	8.75 12.5 16.3	2.4 3.5 4.5	8.6 8 6.88	63	0.55	1450	2.5	65	65-315 (I) A	14 23 28	3.89 6.39 7.78	28 27.5 27.4	49	4	1450	3.0	170
50-200 (I)	8.75 12.5 16.3	2.4 3.5 4.5	13.2 12.5 11.4	58	1.1	1450	2.5	73	65-315 (I) B	12.1 20.2 24.3	3.36 5.61 6.75	21.5 21 20.6	48	4	1450	3.0	155
50-200 (I) A	8.2 11.8 15.3	2.3 3.3 4.3	11.6 11 10	56	0.75	1450	2.5	65	80-125	17.5 25 32.5	4.86 6.94 9.03	5.5 5 4.25	71	0.75	1450	3.0	70
50-250 (I)	8.75 12.5 16.3	2.4 3.5 4.5	20.5 20 19.1	51	2.2	1450	2.5	105	80-160	17.5 25 32.5	4.86 6.94 9.03	8.75 8 7	69	1.1	1450	3.0	78
50-250 (I) A	8.2 11.7 15.3	2.3 3.3 4.3	17.9 17.5 16.8	50	1.5	1450	2.5	95	80-200	17.5 25 32.5	4.86 6.94 9.03	13.4 12.5 11.5	67	2.2	1450	3.0	98
50-250 (I) B	7.5 10.8 14	2.1 3 3.9	15.3 15 14.4	49	1.1	1450	2.5	85	80-200A	16.4 23.5 30.5	4.56 6.53 8.47	11.8 11 10	65	1.5	1450	3.0	88
50-315 (I)	8.75 12.5 16.3	2.4 3.5 4.5	32 31.5 30.5	43	4	1450	2.5	130	80-250	17.5 25 32.5	4.86 6.94 9.03	20.8 20 18	60	3	1450	3.0	128
50-315 (I) A	8.3 11.9 15.5	2.3 3.3 4.3	28.8 28.5 28	42	4	1450	2.5	130	80-250A	16.3 23.4 30.5	4.53 6.5 8.47	18.3 17.5 15.8	59	3	1450	3	125
50-315 (I) B	7.85 11.3 14.6	2.2 3.1 4.1	25.8 25.5 24.5	38	3	1450	2.5	115	80-250B	15 21.7 28	4.17 6.03 7.78	15.5 15 13.5	58	2.2	1450	3	120

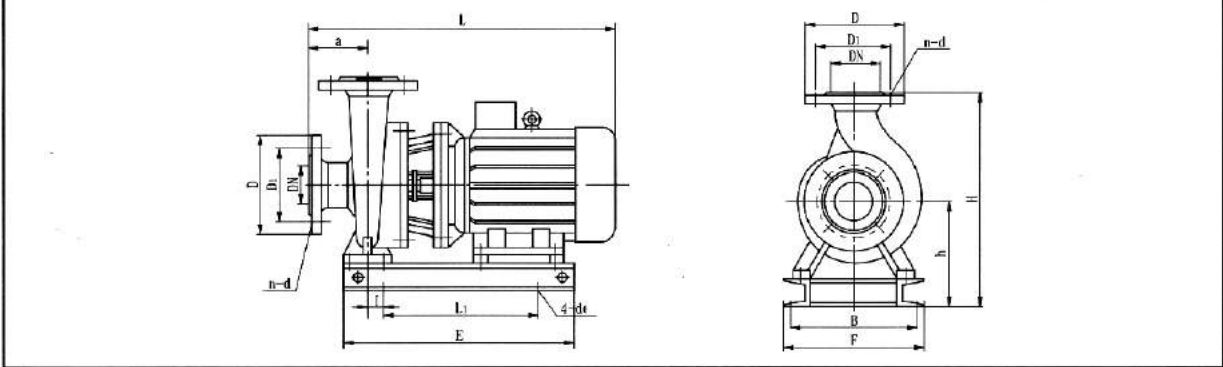
ISW、ISWR、ISWH、ISWY、ISWHY、ISWD、ISWRD、ISWHD、ISWYD、ISWHYD

ISW, ISWR, ISWH, ISWY, ISWHY Performance Parameter Diagram

Model	Discharge		Lift H (m)	Efficiency η (%)	Motor P (kW)	Rotation n (r/min)	(NPSH)r (m)	Weight (kg)
	(m³/h)	(L/s)						
80-315	17.5 25 32.5	4.86 6.94 9.03	32.5 32 30.5	53	5.5	1450	3	190
80-315A	16.3 23 30.3	4.53 6.47 8.42	28 27.5 26.8	52	4	1450	3	190
80-315B	15.5 22.3 29	4.31 6.19 8.06	25.5 25 24.5	51	4	1450	3	170
80-125 (I)	35 43.5 50	9.72 13.9 18.1	5.88 8 3.5	74	1.5	1450	4.5	93
80-160 (I)	35 50 65	9.72 13.9 18.1	9.13 11.9 8	74	2.2	1450	4.5	105
80-160 (I)A	32.7 46.8 60.5	9.08 13 16.8	8 7 5.3	72	1.5	1450	4.5	98
80-200 (I)	35 50 65	9.72 13.9 18.1	13.5 12.5 10.5	72	3	1450	4	130
80-200 (I)A	32.7 46.8 60.5	9.08 13 16.8	11.9 11 9.25	71	3	1450	4	125
80-250 (I)	35 50 65	9.72 13.9 18.1	21.8 20 17	69	5.5	1450	4	185
80-250 (I)A	32.7 46.8 60.5	9.08 13 16.8	19 17.5 14.9	67	4	1450	4	165
80-250 (I)B	30.5 43.5 56.5	8.47 12.1 15.7	16.3 15 12.8	65	3	1450	4	150
80-315 (I)	35 50 65	9.72 13.9 18.1	33 31.3 28.5	66	11	1450	4	280
80-315 (I)A	33.3 47.5 61.5	9.25 13.2 17.1	29.8 28.3 25.8	64	7.5	1450	4	230
80-315 (I)B	31.5 45 58.5	8.75 12.5 16.3	26.5 25.3 23	64	7.5	1450	4	225
100-125	35 50 65	9.72 13.9 18.1	5.88 8 3.5	75	1.5	1450	4.5	80
100-160	35 50 65	9.72 13.9 18.1	9.13 11.9 8	75	2.2	1450	4.5	85
100-160A	32.7 46.8 60.5	9.08 13 16.8	8 7 5.3	73	1.5	1450	4.5	80
100-200	35 50 65	9.72 13.9 18.1	13.5 12.5 10.5	74	3	1450	4	115
100-200A	32.7 46.8 60.5	9.08 13 16.8	11.9 11 9.25	72	3	1450	4	110
100-250	35 50 65	9.72 13.9 18.1	21.8 20 17	70	5.5	1450	4	175
100-250A	32.7 46.8 60.5	9.08 13 16.8	19 17.5 14.9	68	4	1450	4	150
100-250B	30.5 43.5 56.5	8.47 12.1 15.7	16.3 15 12.8	65	3	1450	4	135
100-315	35 50 65	9.72 13.9 18.1	33 31.3 28.5	66	11	1450	4	260
100-315A	33.3 47.5 61.5	9.25 13.2 17.1	29.8 28.3 25.8	64	7.5	1450	4	220
100-315B	31.5 45 58.5	8.75 12.5 16.3	26.5 25.3 23	63	7.5	1450	4	215
100-125 (I)	48 90 96	13.3 22.2 26.7	5.5 5 4.3	76	2.2	1450	3	100
100-160 (I)	48 80 96	13.3 22.2 26.7	9 8 7	74	4	1450	3	105
100-200 (I)	48 80 96	13.3 22.2 26.7	13.8 12.5 11.5	73	5.5	1450	3	150
100-200 (I)A	45 75 90	12.5 20.8 25	12 11 10	72	4	1450	3	130
100-200 (I)B	43 73 86	11.9 19.9 23.9	26.5 25 23.8	67	15	1450	2.5	295
100-315 (I)A	45 75 90	12.5 20.8 25	29.3 27.5 26	66	11	1450	2.5	270
100-315 (I)B	43 72 86	11.9 20 23.9	26.5 25 23.8	65	11	1450	2.5	265
100-400 (I)	60 100 120	16.67 22.78 33.33	52 50 48.5	65	30	1450	3	375
100-400 (I)A	56.4 94 113	15.67 26.11 31.39	46 44 43	65	22	1450	3	295
100-400 (I)B	52.3 87 105	14.53 24.17 29.17	39 38 37	64	18.5	1450	3	257
125-160	48 80 96	13.3 22.2 26.7	9 8 7	76	3	1450	3	140
125-200	48 80 96	13.3 22.2 26.7	13.8 12.5 11.5	75	5.5	1450	3	190
125-200A	45 75 90	12.5 20.8 25	12.1 11 10.1	74	4	1450	3	170
125-250	48 80 96	13.3 22.2 26.7	21.8 20 18.3	74	7.5	1450	2.8	200
125-250A	45 75 90	12.5 20.8 25	19 17.5 16	73	7.5	1450	2.8	215
125-250B	41.5 69 83	11.5 19.2 16.1	16.3 15 13.8	72	5.5	1450	2.8	220
125-315	48 80 96	13.3 22.2 26.7	33.3 32 29.8	69	15	1450	2.5	325
125-315A	45 75 90	12.5 20.8 25	29.3 27.5 26	68	11	1450	2.5	305
125-315B	43 71.5 86	11.9 19.9 23.9	26.5 25 23.8	67	11	1450	2.5	300
125-250	60 100 120	16.7 27.8 33.3	21.8 20 18	74	11	1450	4	310
125-250A	56 96 112	15.6 26.5 31.1	19 17.5 15.8	73	7.5	1450	4	275
125-250B	52 86.5 104	14.4 24 28.9	16.3 15 13.5	72	7.5	1450	4	270
125-315	60 100 120	16.7 27.8 33.3	33.3 32 30	74	15	1450	4	340
125-315A	56 93.5 112	15.6 26 31.1	29 27.5 26.3	73	15	1450	4	335
125-315B	52 86.5 104	14.4 24 28.9	25 23.8 22.8	71	11	1450	4	315
125-400	60 100 120	16.7 27.8 33.3	52 50 48.5	53 65 67	30	1450	3	390
125-400A	56 94 112	15.6 26.1 31.1	45.8 44 42	64	22	1450	3	370
125-400B	52 87 104	14.4 24.2 28.9	39 37.5 36	62	18.5	1450	3	350

ISW、ISWR、ISWH、ISWY、ISWHY、ISWD、ISWRD、ISWHD、ISWYD、ISWHYD

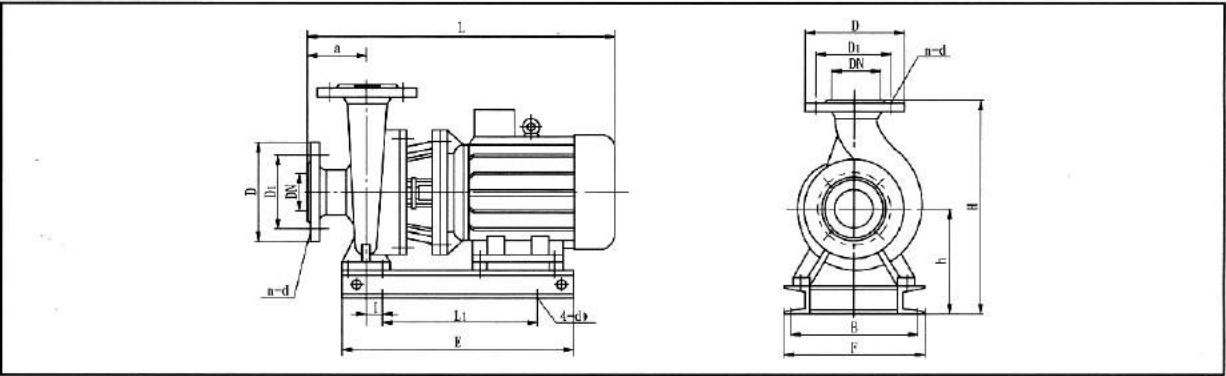
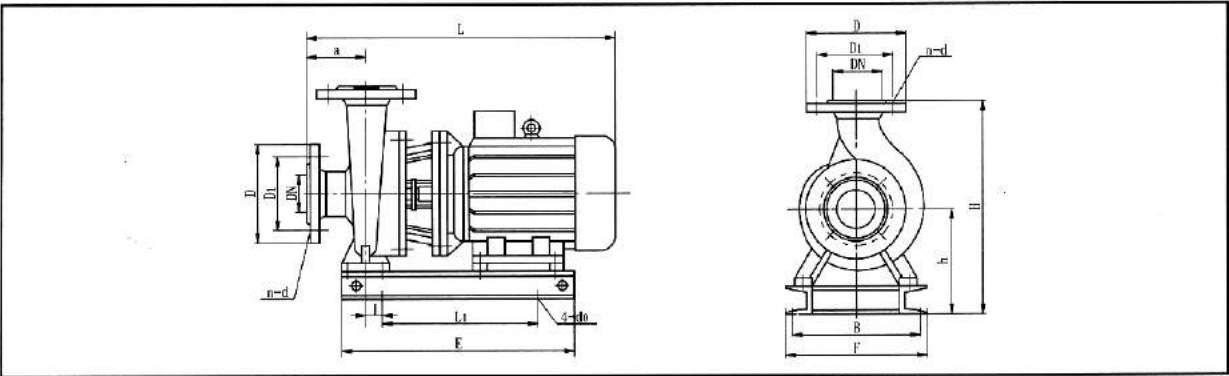
ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram



Model	Outline size				Installation size					4-d0	Inlet and outlet flange size			
	L	H	E	F	a	h	L1	B	I		DN	D	D1	n-d
40-160	425	374	320	250	85	224	240	215	7	φ 14	φ 40	φ 150	φ 110	4- φ 14
40-200	450	414	350	250	85	252	240	215	9					
40-250	480	496	360	330	90	376	240	295	12					
40-250A	460	496	350	330	90	376	240	295	12					
40-250B	445	472	340	330	90	352	240	295	5					
40-125 (I)	372	340	240	205	80	204	180	170	16					
40-160 (I)	385	367	310	250	80	224	200	215	15					
40-200 (I)	455	436	340	260	85	276	220	240	26					
40-250 (I)	515	490	410	330	100	296	260	295	15					
40-250 (I) A	496	490	400	330	100	296	260	295	18					
40-250 (I) B	485	490	385	330	100	296	260	295	18					
50-125	372	350	240	205	80	204	180	170	16	φ 18	φ 50	φ 165	φ 125	4- φ 18
50-160	385	377	310	250	80	224	200	215	15					
50-200	455	446	340	260	80	276	220	220	26					
50-250	515	501	410	330	100	296	260	295	15					
50-250A	495	501	400	330	100	296	260	295	18					
50-250B	485	501	385	330	100	296	260	295	18					
50-125 (I)	450	362	345	220	90	204	200	185	18					
50-160 (I)	452	437	350	275	100	252	200	240	22					
50-200 (I)	488	446	360	275	100	276	240	240	0					
50-200 (I) A	457	446	345	275	100	276	240	240	0					
50-250 (I)	582	526	410	300	100	296	260	295	14	φ 18	φ 65	φ 185	φ 145	4- φ 18
50-250 (I) A	554	526	380	330	100	296	260	295	14					
50-250 (I) B	532	526	360	330	100	296	240	295	14					
50-315 (I)	620	572	420	410	105	325	280	370	12					
50-315 (I) A	605	572	400	410	105	325	260	370	12					
50-315 (I) B	605	572	400	410	105	325	260	370	12					
65-125	450	372	345	220	85	204	200	185	18					
65-160	452	477	350	275	100	252	200	240	22					
65-200	488	456	360	275	100	276	240	240	0					
65-200A	457	456	345	275	100	276	240	240	0					
65-250	582	536	410	330	100	296	260	295	14	φ 18	φ 65	φ 185	φ 145	4- φ 18
65-250A	554	536	380	330	100	296	260	295	14					
65-250B	532	536	360	330	100	296	240	295	14					
65-315	620	582	420	410	105	325	280	370	12					
65-315A	605	582	400	410	105	325	260	370	12					
65-315B	605	582	400	410	105	325	260	370	12					

ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram

ISW, ISWR, ISWH, ISWY, ISWHY Istallation Size And Diagram



Model	Outline size				Installation size					Inlet and outlet flange size				
	L	H	E	F	a	h	L1	B	I	4-d0	DN	D	D1	n-d
65-125 (I)	472	446	330	250	105	248	240	215	27	φ 18	φ 65	φ 185	φ 145	4-φ 18
65-160 (I)	498	486	345	290	100	276	240	250	10					
65-200 (I)	542	486	370	275	100	276	240	235	24					
65-200 (I) A	525	486	340	275	100	276	240	235	24					
65-250 (I)	630	546	420	335	125	296	280	295	21					
65-250 (I) A	615	546	400	335	125	296	260	295	19					
65-250 (I) B	572	546	375	335	125	296	260	295	19					
65-315 (I)	682	686	500	410	130	371	340	370	5					
65-315 (I) A	682	686	500	410	130	371	340	370	5					
65-315 (I) B	620	686	425	410	130	371	280	370	5					
80-125	472	446	330	250	95	248	240	215	27	φ 18	φ 80	φ 200	φ 160	8-φ 18
80-160	498	486	345	290	100	276	240	250	10					
80-200	542	486	370	275	100	276	240	235	24					
80-200A	525	486	340	275	100	276	240	235	24					
80-250	630	546	420	335	125	296	280	295	21					
80-250A	615	546	400	335	125	296	260	295	19					
80-250B	572	546	375	335	125	296	260	295	19					
80-315	682	686	500	410	135	371	340	370	5					
80-315A	682	686	500	410	135	371	340	370	5					
80-315B	620	686	425	410	135	371	280	370	5					
80-125 (I)	540	491	400	290	105	276	260	250	15					
80-160 (I)	552	524	410	290	110	276	260	250	17					
80-160 (I) A	526	524	380	290	110	276	260	250	17					
80-200 (I)	562	526	425	325	100	296	280	285	23					
80-200 (I) A	562	526	425	325	100	296	280	285	23					
80-250 (I)	640	616	440	360	125	346	280	320	12					
80-250 (I) A	626	616	415	360	125	346	260	320	12					
80-250 (I) B	626	616	415	360	125	346	260	320	12					
80-315 (I)	780	686	540	410	130	371	400	370	30					
80-315 (I) A	746	686	515	410	130	371	360	370	5					
80-315 (I) B	746	686	515	410	130	371	360	370	11					
100-125	540	491	400	290	105	276	260	250	15	φ 18	φ 100	φ 220	φ 180	8-φ 18
100-160	552	524	410	290	110	276	260	250	17					
100-160A	526	524	380	290	110	276	260	250	17					
100-200	562	526	425	325	100	296	280	285	23					
100-200A	562	526	425	325	100	296	280	285	23					
100-250	640	616	440	360	125	346	280	320	12					
100-250A	626	616	415	360	125	346	260	320	12					
100-250B	572	546	375	335	125	296	260	295	19					
100-315	780	686	540	410	130	371	400	370	30					
100-315A	746	686	515	410	130	371	360	370	5					
100-315B	746	686	515	410	130	371	360	370	11					
100-125 (I)	587	554	400	330	105	296	260	295	7	φ 18	φ 100	φ 220	φ 180	8-φ 18
100-160 (I)	608	554	420	330	105	296	280	295	21					
100-200 (I)	656	616	485	370	125	346	320	330	6					
100-200 (I) A	656	616	485	370	125	346	320	330	6					
100-250 (I)	802	636	540	370	125	346	400	330	5					
100-250 (I) A	756	636	515	370	125	346	360	330	10					
100-250 (I) B	756	636	515	330	125	346	360	330	7					
100-315 (I)	835	705	580	410	130	375	420	370	25					
100-315 (I) A	785	705	530	410	130	375	380	370	30					
100-315 (I) B	785	705	530	410	130	375	380	370	30					
100-400 (I)	980	776	730	510	125	420	600	470	30	φ 19	φ 125	φ 250	φ 210	8-φ 18
100-400 (I) A	880	756	680	510	125	420	600	470	30					
100-400 (I) B	860	756	680	510	125	400	450	470	30					
125-160	608	554	420	330	125	296	280	295	21					
125-200	656	616	485	370	125	346	320	330	6					
125-200A	656	616	485	370	125	346	320	330	6					
125-250	802	636	540	370	150	346	400	330	5					
125-250A	756	636	515	370	150	346	360	330	10					
125-250B	756	636	515	330	154	346	360	330	7					
125-315	835	705	640	410	145	375	500	370	25					
125-315A	785	705	610	410	145	375	500	370	30					
125-315B	785	705	610	410	145	375	500	370	30					
125-250	828	736	570	410	145	396	420	370	20	φ 19	φ 125	φ 250	φ 210	8-φ 18
125-250A	778	736	540	410	145	396	420	370	5					
125-250B	778	736	540	410	145	396	420	370	21					
125-315	842	824	600	510	135	375	440	470	15					
125-315A	785	806	560	510	135	375	420	470	15					
125-315B	785	806	560	510	135	375	420	470	10					
125-400	980	776	730	510	125	420	600	470	30					
125-400A	880	776	680	510	125	420	600	470	30					
125-400B	860	756	680	510	125	400	600	470	30					

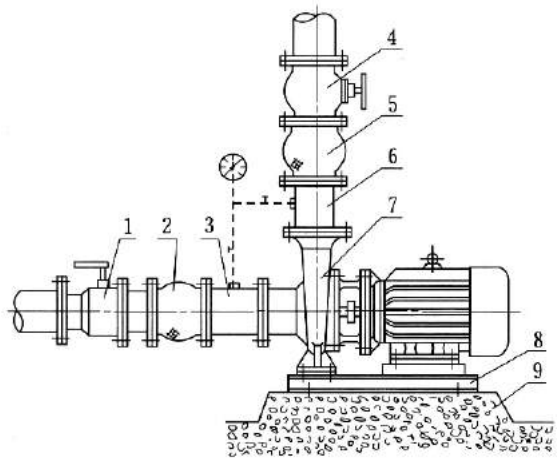
Model	Outline size				Installation size					Inlet and outlet flange size				
	L	H	E	F	a	h	L1	B	I	4-d0	DN	D	D1	n-d
100-250A	626	616	415	360	125	346	260	320	12	φ 18	φ 100	φ 220	φ 180	8-φ 18
100-250B	626	616	415	360	125	346	260	320	12					
100-315	780	686	540	410	130	371	400	370	30					
100-315A	746	686	515	410	130	371	360	370	5					
100-315B	746	686	515	410	130	371	360	370	11					
100-125 (I)	587	554	400	330	105	296	260	295	7					
100-160 (I)	608	554	420	330	105	296	280	295	21					
100-200 (I)	656	616	485	370	125	346	320	330	6					
100-200 (I) A	656	616	485	370	125	346	320	330	6					
100-250 (I)	802	636	540	370	125	346	400	330	5					
100-250 (I) A	756	636	515	370	125	346	360	330	10	φ 18	φ 100	φ 220	φ 180	8-φ 18
100-250 (I) B	756	636	515	330	125	346	360	330	7					

Installation Notice

1. The pipeline should have bracket,donnot put its weight on pump,to protect the pump.
2. Pump and motor is one struction,no need to verify.
3. Before installation,,pls screw down the bottom bolt to avoid vibration when operation.
4. Before installation,pls checked there is no hard object in pump,such as small stone,iron granule.to avoid destroying the impeller and pump body.
5. For convenient to repaired and safely operation,you'd better installated a adjust valve on both inlet and outlet pipeline and a pressure test instrument,so that pump operated in the lift and discharge range to protect it.
6. If it is used on sucking situation,your should installed bottom valve,the inlet pipeline should have less curve,no leakage of both water and air.
7. Reverse valve on outlet pipeline should installed at the out of gate valve.
8. After be installed,handle the shaft,the impeller should has rub noise or locked,or,dissassemble it and check it.
9. It has two installed way,indirect and direct connect.

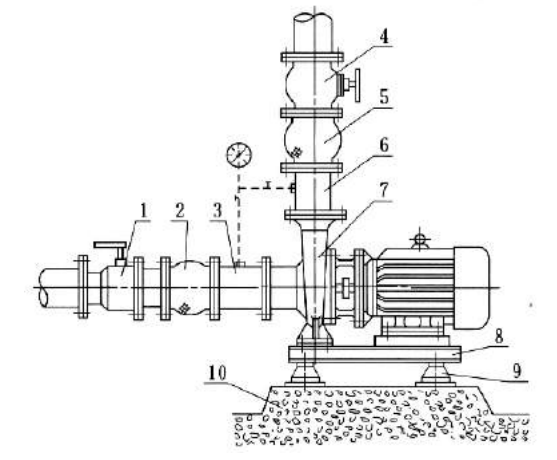
Install Method

(1) Direct connect installation



1	Inlet ball valve
2	Inlet flexible faucet
3	Take pressure pipe
4	Outlet gate valve
5	Outlet flexible faucet
6	Take pressure pipe
7	Pump
8	Bottom seat
9	Basis

(2) Flexible connect installation



1	Inlet ball valve
2	Inlet flexible faucet
3	Take pressure pipe
4	Outlet gate valve
5	Outlet flexible faucet
6	Take pressure pipe
7	Pump
8	Bottom seat
9	Anti-vibration
10	Basis

Started And Stopped

(1) Pre-start

1. Handle motor vane to make sure the impeller rotate well with no rub.
2. Open inlet valve ,open air drain valve to full fill with liquid,then closed the air drain valve.
3. Handle pump to fill lubricant into mechanism seal.
4. Start motor and make sure the rotate direction is right.

(2) Start and operation

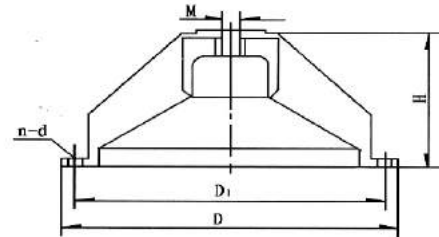
1. Completely open the inlet valve,closed valve on outlet pipeline.
2. Open the power,when the rotational speed reach to the right speed,gradually open outlet pipeline valve and adjust to right working condition.
3. Pay attention to the pressure meter,and make sure the seal and motor are working well.the normal leakage of the seal is below 3 drop/min,the motor working temperature is below 70℃.Or,pls check it in time.

(3) Stop

1. Gradually closed the valve on outlet pipeline,cut off the power.
2. Closed inlet valve.
3. Drain out of all liquid in pump to avoid frozen to fracture if the temperation is below 0℃.
4. If no use for a long time,pls disassemble it,cleaned,packed,and saved.

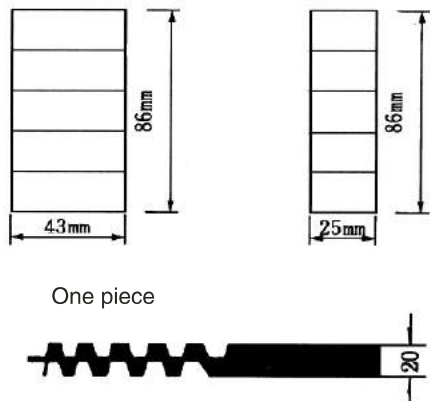
Attachment And Installation Size

JG type anti-vibration installation size



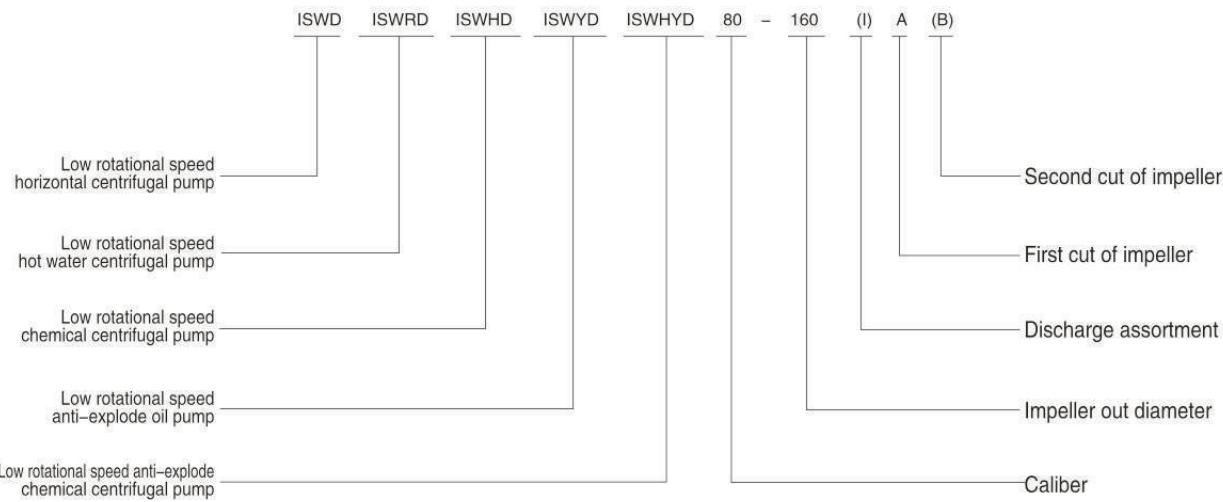
Model	M	D	D1	H	d	n
JG2-1	M12	150	130	65	8.5	3
JG2-2	M12	150	130	65	8.5	3
JG3-1	M16	200	170	87	12.5	3
JG3-2	M16	200	170	87	12.5	3
JG4-1	M20	290	260	133	12.5	3

0.5 version size of SD type anti-vibration



Easy-grind Accessoriecs (Seal And Bear)

Motor	Seal specification	Bear specification	Motor	Seal specification	Bear specification
0.12kW、0.18kW	KL108-12	201	37kW (4 Stage) 、 45kW	KL109-45	46313、313Z ₁
0.25kW、0.37kW	KL108-14	202	55kW、75kW (2) 90kW (2) 37kW (6)	KL109-55	46314、314Z ₁ 46317、317Z ₁
0.55kW、0.75kW、1.1kW (2 Stage)	KL109-20	46204、180204Z ₁	75kW (4) 、 90kW (4)	KL109-55	46317、317Z ₁
1.1kW (4 Stage) 、 1.5kW	KL109-20	46205、180205Z ₁	45kW (6) 、 55 (6)	KL109-75	46316、316Z ₁
2.2kW (2 Stage)	KL109-20	46205、180205Z ₁	110kW (2)	KL109-55	46319、319Z ₁
2.2kW (4 Stage) 、 3kW	KL109-25	46206、180206Z ₁	75kW (6) 、 90kW (6) 110kW (4、6) 132kW (4、6)	KL109-65	46319、319Z ₁
4kW	KL109-25	46306、180306Z ₁	160kW (4) 、 200kW (4)	KL109-75	46309、309Z ₁
5.5kW (2 Stage) 、 7.5kW (2 Stage)	KL109-25	46308、180308Z ₁	250kW (4)	KL109-75	46321、321Z ₁
5.5kW (4 Stage) 、 7.5kW (4 Stage)	KL109-35	46308、180308Z ₁	80-200B	KL109-35	46308、180308Z ₁
11kW (2 Stage) 、 15kW (2 Stage) 、 18.5kW (2 Stage)	KL109-35	46309、309Z ₁	350-400A	KL109-75	46319、319Z ₁
11kW (4 Stage) 、 15kW (2 Stage)	KL109-40	46309、180309Z ₁	Note: The default stage power is the same.		
22kW (2 Stage)	KL109-35	46311、311Z ₁			
18.5kW (4 Stage) 、 22kW (2 Stage)	KL109-45	46311、311Z ₁			
30kW (2 Stage) 、 37kW (2 Stage)	KL109-35	16312、312Z ₁			
30kW (4 Stage)	KL109-45	46312、312Z ₁			



Fault and Solve

FAULT	REASON	SOLVE
Fail to lift	1. Valve have not opened or have a jam 2. Rotation direction is reversed or speed is low 3. Air leaked in suck pipeline 4. No enough started liquid in pump 5. Water shortage,high suck range or bottom valve is leaked 6. Resistance is too big or wrong pump	1. Open valve or cleaned 2. Adjust direction or check connect line 3. Drain out air 4. Fill in liquid 5. Check and adjust 6. Reduce the pipeline curve or .change with right pump
Discharge Shortage	1. Pipeline or inlet or outlet part is jam 2. Power is low 3. Impeller is broken	1. Clean the jam,adjust the valve 2. Stable the power 3. Change the impeller
Motor power is consume too more	1. Discharge is exceed its range 2. Suck range is too high 3. Bear is broken	1. Adjust it,and turn down outlet valve 2. Reduce suck range 3. Change bear
Noise or vibrate	1. Pipeline bracket is not stable 2. There is air in pump 3. NPSH phenomenon 4. Bear is broken 5. Motor is overload and hot operation	1. Stable it. 2. Increase suck pressure or drain out air 3. Reduce vacuam range 4. Change it 5.adjust it
Motor become hot	1. large discharge 2. Friction 3. Bear is broken 4. Power shortage	1. Turn down outlet valve 2. Checked and verify 3. Change it 4. Stable it
Water leakage	1. Mechanism seal is broken 2. Pump body is fracture 3. Seal surface is not flat 4. Connect bolt is loosed	1. Changed it 2. Repaired or changed 3. Repaired 4. Solidated.

Memo

[illegible]