

CI

MCKARLEN



**Horizontal Inline
Centrifugal Pump**



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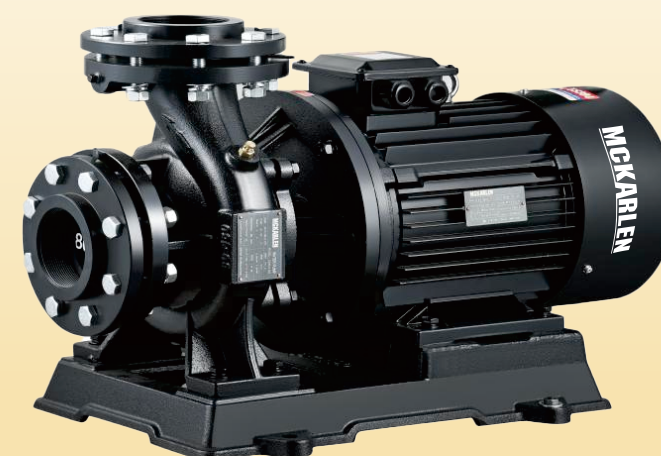
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CI Series Single-Stage Horizontal Inline Centrifugal Pump



Applications:

Sending non-corrosive cold and warm water used in air-condition, heat circulation, freezing water system, water supply, press increased and irrigation. Media solid insoluble matter, its volume does not exceed 0.1% of the unit volume, particle size less than 0.2mm.

Features:

1. Compact structure adopting direct connection with extended shaft. Less vibration, Low noise.
2. Pump casing: foot support structure, spiral volute. Cast iron pump casing inlet flange and outlet flange conform to GB/T 17241.6 (ISO7005-2), pressure grade 1.6MPa;
3. Impeller: the closed impeller is designed with excellent hydraulic model, low energy consumption, and balance test.
4. The outlet and inlet are same in diameter. Liquid flows smoothly with less loss.
5. Bearing: NSK/SKF high quality brand bearings, runs reliably.
6. Shaft seal: using mechanical seal.
7. Motor: high-quality motor with low noise and small vibration. Explosion-proof motor or other motors with special requirements may be adopted if necessary.

Technical Parameter:

P2/2900rpm

No.	Model	Power		Flow Q		Head	Efficiency	Speed	NPSH	DN	Weight
		KW	HP	m³/h	L/S	m	%	rpm	m	mm	kg
1	CI 40-0.75/2	0.75	1	4.4	1.22	13.2	48	2900	2.3	40x40	37
				6.3	1.75	12.5	54				
				8.3	2.31	11.3	53				
2	CI 50-0.75/2	0.75	1	8	2.22	11	52	2900	2.3	50x50	39
				11	3.05	10	60				
				14.5	4.03	9	56				
3	CI 50-1.5/2	1.5	2	7.3	2.03	23	42	2900	2.3	50x50	47
				10.4	2.89	22	49				
				13.5	3.75	20.5	47				
4	CI 50-2.2/2	2.2	3	8.2	2.28	29	44	2900	2.3	50x50	50
				11.7	3.25	28	51				
				15.2	4.22	26	50				
5	CI 50-4/2	4	5.5	8.3	2.31	45.8	37	2900	2.3	50x50	71
				11.7	3.25	44	45				
				15.3	4.25	42	45				
6	CI 50-5.5/2	5.5	7.5	7.1	1.97	53.2	26	2900	2.3	50x50	105
				10	2.78	52	36				
				13.1	3.64	50.4	35				
7	CI 50-7.5/2	7.5	10	8.2	2.28	71.5	28	2900	2.3	50x50	115
				11.6	3.22	70	38				
				15.2	4.22	68	39				
8	CI 50-11/2	11	15	16.4	4.56	71.5	39	2900	2.3	50x50	165
				23.4	6.5	70	50				
				30.5	8.47	67	52				
9	CI 65-1.5/2	1.5	2	17.5	4.86	13.7	67	2900	2.5	65x65	50
				25	6.94	12.5	69				
				32.5	9.03	10.5	69				
10	CI 65-2.2/2	2.2	3	15.6	4.33	17	58	2900	2.5	65x65	54
				22.3	6.19	16	66				
				29	8.06	14.4	65				
11	CI 65-4/2	4	5.5	17.5	4.86	34.4	54	2900	2.5	65x65	67
				25	6.94	32	63				
				32.5	9.03	27.5	60				
12	CI 65-5.5/2	5.5	7.5	15.2	4.22	40	45	2900	2.5	65x65	86
				21.8	6.06	38	55				
				28.3	7.86	34.5	55				
13	CI 65-7.5/2	7.5	10	17.5	4.86	52.7	49	2900	2.5	65x65	90
				25	6.94	50	58				
				32.5	9.03	45.5	59				
14	CI 65-11/2	11	15	16.4	4.56	71.5	39	2900	2.5	65x65	167
				23.4	6.5	70	50				
				30.5	8.47	67	52				
15	CI 65-15/2	15	20	17.5	4.86	82	39	2900	2.5	65x65	172
				25	6.94	80	50				
				32.5	9.03	76.5	52				
16	CI 80-2.2/2	2.2	3	31.3	8.7	11	66	2900	3	80x80	56
				44.7	12.42	10	72				
				58	16.1	8	69				
17	CI 80-4/2	4	5.5	31.3	8.7	17.5	66	2900	3	80x80	74
				45	12.5	16	71				
				58	16.1	13.6	69				
18	CI 80-5.5/2	5.5	7.5	30.3	8.4	26	60	2900	3	80x80	91
				43.4	12	24	69				
				56.3	15.6	21	67				
19	CI 80-7.5/2	7.5	10	30.5	8.5	40.6	52	2900	3	80x80	105
				43.3	12.1	38	65				
				56.6	15.7	33.4	65				
20	CI 80-11/2	11	15	32.8	9.1	47	55	2900	3	80x80	165
				47	13.1	44	66				
				61	16.9	40	67				
21	CI 80-15/2	15	20	30	8.3	62	50	2900	3	80x80	172
				43.3	12	60	58				
				56	15.6	54	58				
22	CI 80-18.5/2	18.5	25	32.5	9.03	73	52	2900	3	80x80	210
				46.7	13	70	59				
				61	16.9	63	60				
23	CI 80-22/2	22	30	35	9.72	83	52	2900	3	80x80	235
				50	13.9	80	59				
				65	18.1	72	60				

Technical Parameter:

P2/2900rpm

No.	Model	Power		Flow Q		Head	Efficiency	Speed	NPSH	DN	Weight
		KW	HP	m³/h	L/S	m	%	rpm	m	mm	kg
24	CI 100-4/2	4	5.5	62.6	17.4	11	64	2900	4.5	100x100	74
				89	24.7	10	74				
				116	32.2	8.8	74				
25	CI 100-5.5/2	5.5	7.5	70	19.4	13.6	66	2900	4.5	100x100	94
				100	27.7	12.5	76				
				130	36.1	11	75				
26	CI 100-7.5/2	7.5	10	62.6	17.4	19	68	2900	4.5	100x100	105
				89	24.7	16	74				
				116	32.2	11	63				
27	CI 100-11/2	11	15	65.4	18.5	32	68	2900	4.5	100x100	181
				93.5	26	28	74				
				121.6	33.8	21	67				
28	CI 100-15/2	15	20	70	19.4	36.5	70	2900	4.5	100x100	191
				100	27.8	32	76				
				130	36.1	24	65				
29	CI 100-18.5/2	18.5	25	65.4	18.2	47.5	64	2900	4	100x100	215
				93.5	26	44	73				
				121.6	33.8	37	72				
30	CI 100-22/2	22	30	70	19.4	54	65	2900	4	100x100	245
				100	27.8	50	74				
				130	36.1	42	73				
31	CI 100-30/2	30	40	65.4	18.2	76	61	2900	4	100x100	280
				93.5	26	70	68				
				121.6	33.8	59.5	67				
32	CI 100-37/2	37	50	70	19.4	87	62	2900	4	100x100	299
				100	27.8	80	69				
				130	36.1	68	68				
33	CI 125-7.5/2	7.5	10	86	23.9	10.4	60	2900	4	125x125	104
				143	39.7	10	77				
				172	47.8	9.6	74				
34	CI 125-11/2	11	15	96	26.7	13	63	2900	4	125x125	180
				160	44.4	12.5	80				
				192	53.3	12	76				
35	CI 125-15/2	15	20	96	26.7	22.6	62	2900	4	125x125	195
				160	44.4	20	78				
				192	53.3	17	78				
36	CI 125-18.5/2	18.5	25	90	25	31.5	62	2900	4	125x125	197
				150	41.7	28	76				
				180	50	24.5	64				
37	CI 125-22/2	22	30	96	26.7	36	64	2900	4	125x125	230
				160	44.4	32	78				
				192	53.3	28	66				
38	CI 125-30/2	30	40	90	25	48.4	73	2900	5.5	125x125	380
				150	41.7	44	75				
				180	50	40.5	74				
39	CI 125-37/2	37	50	96	26.7	55	65	2900	5.5	125x125	395
				160	44.4	50	77				
				192	53.3	46	76				
40	CI 125-45/2	45	60	90	25	76	74	2900	5.5	125x125	490
				150	41.7	70					
				180	50	64					
41	CI 125-55/2	55	75	96	26.7	87	61	2900	5.5	125x125	580
				160	44.4	80	65				
				192	53.3	73	72				
42	CI 125-75/2	75	100	90	25	117	54	2900	5	125x125	710
				150	41.7	110	69				
				180	50	104.6	71				
43	CI 125-90/2	90	120	96	26.7	133	55	2900	5	125x125	790
				160	44.7	125	70				
				192	53.3	119	72				
44	CI 150-45/2	45	60	104	28.9	65	63	2900	4.5	150x150	400
				173	48.1	60	74				
				208	57.8	54	72				
45	CI 150-55/2	55	75	112	31.1	76	64	2900	4.5	150x150	495
				187	51.9	70	75				
				224	62.2	63	73				
46	CI 150-75/2	75	100	120	33.3	87	65	2900	4.5	150x150	585
				200	55.6	80	76				
				240	66.7	72	74				

Technical Parameter:

P4/1450rpm

No.	Model	Power		Flow Q		Head	Efficiency	Speed	NPSH	DN	Weight
		KW	HP	m³/h	L/S	m	%	rpm	m	mm	kg
1	CI 65-1.5/4	1.5	2	7 11.7 15.3	1.94 3.25 4.3	18 17.6 17	49	1450	2.8	65x65	68
2	CI 65-4/4	4	5.5	7.5 12.5 16.3	2.08 3.47 4.53	32.5 32 31.5	41	1450	2.8	65x65	89
3	CI 80-2.2/4	2.2	3	15 25 32.5	4.17 6.94 9.03	13.2 12.5 11.4	67	1450	2.8	80x80	72
4	CI 80-4/4	4	5.5	13.3 23 29	3.75 6.38 8.06	26.8 27.9 24.5	51	1450	2.8	80x80	102
5	CI 80-5.5/4	5.5	7.5	15 25 32.5	4.17 6.94 9.03	32.5 32 31.5	53	1450	2.8	80x80	130
6	CI 100-2.2/4	2.2	3	26.4 44.7 60.5	7.33 12.4 16.8	11.9 10 9.3	72	1450	3	100x100	90
7	CI 100-4/4	4	5.5	28 46.7 60.5	7.78 12.97 16.8	19 17.4 15.5	68	1450	3	100x100	112
8	CI 100-5.5/4	5.5	7.5	30 50 65	8.33 13.9 18.1	21.8 20 18	70	1450	3	100x100	140
9	CI 100-7.5/4	7.5	10	28 46.7 61.5	7.78 12.97 17.1	30 27.9 26	64	1450	3	100x100	180
10	CI 100-11/4	11	15	30 50 65	8.33 13.9 18.1	34 32 30	66	1450	3	100x100	225
11	CI 125-4/4	4	5.5	42 75 104	11.6 20.83 28.9	11.2 11 8.5	73	1450	3	125x125	237
12	CI 125-5.5/4	5.5	7.5	48 80 120	13.3 22.22 33.3	14 12.5 11.5	75	1450	3	125x125	249
13	CI 125-7.5/4	7.5	10	45 93.5 112	12.5 25.97 31.1	19 17.4 16	73	1450	3	125x125	210
14	CI 125-11/4	11	15	48 100 120	13.3 27.8 33.3	22 20 18.3	74	1450	3	125x125	220
15	CI 125-11A/4	11	15	56 95 110	15.5 26.3 30.6	28 27 25.6	71	1450	3	125x125	225
16	CI 125-15/4	15	20	60 100 120	16.7 27.8 33.3	33.5 32 30.5	71	1450	3	125x125	233
17	CI 125-18.5/4	18.5	25	131 187 243	36.4 51.9 67.5	29.5 28 24.5	77	1450	3.5	125x125	315
18	CI 125-22/4	22	30	140 200 260	38.9 55.6 72.5	33.8 32 28	78	1450	2.5	125x125	335
19	CI 150-11/4	11	15	117 167 217.5	32.5 46.4 60.4	15.2 14 12	76	1450	3	150x150	241
20	CI 150-15/4	15	20	129 184.4 240	35.8 51.2 66.7	18.5 17 14.4	72 78 76	1450	3	150x150	262
21	CI 150-18.5/4	18.5	25	140 200 260	38.9 55.6 72.2	21.8 20 17	73 79 77	1450	3	150x150	300
22	CI 150-22/4	22	30	112 160 208	31.1 44.4 57.8	34 32 28	64 71 65	1450	3.5	150x150	365
23	CI 150-30/4	30	40	122 174 226.5	33.9 48.3 62.9	40 38 33	66 73 68	1450	3.5	150x150	371
24	CI 150-37/4	37	50	131 187 243	36.4 51.9 67.5	46.6 44 38.3	67 74 70	1450	3.5	150x150	429
25	CI 150-45/4	45	60	140 200 260	38.9 55.6 72.2	53 50 44	68 75 71	1450	3.5	150x150	490

Technical Parameter:

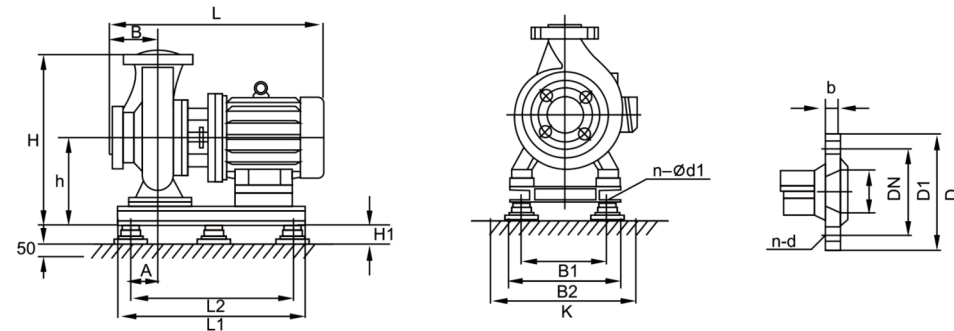
P4/1450rpm

No.	Model	Power		Flow Q		Head	Efficiency	Speed	NPSH	DN	Weight
		KW	HP	m³/h	L/S	m	%	rpm	m	mm	kg
26	CI 150-55/4	55	75	121 166 208	33.6 46.1 57.7	64 62 55.5	69 78 74	1450	4	150x150	703
27	CI 150-75/4	75	100	131 182 224	36.4 50.5 62.3	74 70.5 64	70 79 75	1450	4	150x150	848
28	CI 200-11/4	11	15	117 167 217.5	32.5 46.4 60.4	15.2 14 12	70 76 73	1450	3	200x200	246
29	CI 200-15/4	15	20	129 184.4 240	35.8 51.3 66.2	18.5 17 14.4	72 78 76	1450	3	200x200	267
30	CI 200-18.5/4	18.5	25	140 200 260	38.9 55.6 72.2	21.8 20 17	73 79 77	1450	3	200x200	305
31	CI 200-18.5B/4	18.5	25	226 322 419	62.8 89.4 116.4	14.4 13 7.3	70 75 67	1450	4	200x200	387
32	CI 200-22/4	22	30	131 189 243	36.4 52.5 67.5	29.5 28 24.5	69 77 77	1450	3.5	200x200	304
33	CI 200-22A/4	22	30	250 358 465	69.4 99.4 129.2	18 16 11.2	73 78 70	1450	4	200x200	380
34	CI 200-30/4	30	40	122 174 226.5	33.9 48.3 62.9	40 38 33	66 73 68	1450	3.5	200x200	390
35	CI 200-30/4A	30	40	280 400 520	77.8 111.4 144	22.2 20 14	75 80 72	1450	4	200x200	370
36	CI 200-37/4	37	50	131 187 248	36.4 51.9 67.5	46.4 44 38.3	67 74 70	1450	3.5	200x200	462
37	CI200-37B/4	37	50	242 346 450	67.2 96.1 125	27 24 19.5	70 77 71	1450	4	200x200	445
38	CI 200-45/4	45	60	140 200 260	38.9 55.6 72.2	53 50 44	68 75 71	1450	3.5	200x200	477
39	CI200-45A/4	45	60	262 374 486	72.8 103.9 135	31.5 28 23	72 79 74	1450	4	200x200	560
40	CI 200-55/4	55	75	280 400 520	77.8 111.4 144	36 32 26	73 80 75	1450	4	200x200	675
41	CI 200-75/4	75	100	262 374 486	72.8 103.9 135	47.6 44 34.1	80	1450	4	200x200	720
42	CI 200-90/4	90	120	210 346 450	58.8 94.1 125	65 60 52.5	84	1450	4	200x200	860
43	CI 200-110/4	110	150	228 374 486	63.3 103.9 135	76.5 70 61	78	1450	4	200x200	1109
44	CI 250-37/4	37	50	285 500 600	79.2 138 166.7	19 17 14.5	80	1450	5	250x250	550
45	CI 250-45/4	45	60	320 550 670	88.9 152.8 186	23 20 17	82	1450	5	250x250	620
46	CI 250-55/4	55	75	300 515 600	83.3 143 166.7	31 28 24.5	80	1450	5	250x250	690
47	CI 250-75/4	75	100	320 550 640	88.9 152.8 177.8	35 32 28	80	1450	5	250x250	890
48	CI 250-90/4	90	120	300 500 600	53.3 138 166.7	47.5 44 40.5	78	1450	5	250x250	1320
49	CI 250-110/4	110	150	320 550 640	89 152.8 177.8	54 50 46	80	1450	5	250x250	1530

Note: The weight is different if using different brands of motor. Please contact our sales for details.

Installation Dimensions:

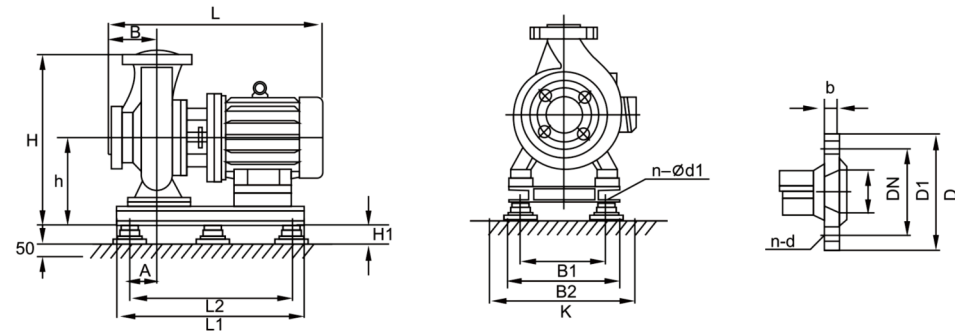
P2/2900rpm



No.	Model	Installation Dimensions							Flange Size			Vibration Isolator Specifications	H1
		H	h	a	L1	L	L2	B1	D	D1	n-d		
1	CI 40-0.75/2	260	145	95	405	460	260	125	φ150	φ110	4-φ18	SD41-0.5	20
2	CI 50-0.75/2	290	145	80	405	470	210	260	φ165	φ125	4-φ18	SD41-0.5	20
3	CI 50-1.5/2	385	220	85	455	470	280	310	φ165	φ125	4-φ18	SD41-0.5	20
4	CI 50-2.2/2	385	220	85	455	495	280	310	φ165	φ125	4-φ18	SD41-0.5	20
5	CI 50-4/2	400	220	85	490	580	300	340	φ165	φ125	4-φ18	SD41-0.5	20
6	CI 50-5.5/2	480	255	100	540	645	340	380	φ165	φ125	4-φ18	SD41-0.5	20
7	CI 50-7.5/2	480	255	100	540	645	340	380	φ165	φ125	4-φ18	SD41-0.5	20
8	CI 50-11/2	515	270	105	695	740	430	440	φ165	φ125	4-φ18	SD41-0.5	20
9	CI 65-1.5/2	380	220	95	455	510	280	310	φ185	φ145	4-φ18	SD41-0.5	20
10	CI 65-2.2/2	385	220	85	485	505	280	320	φ185	φ145	4-φ18	SD41-0.5	20
11	CI 65-4/2	405	230	80	505	575	300	350	φ185	φ145	4-φ18	SD41-0.5	20
12	CI 65-5.5/2	405	220	100	535	640	340	340	φ185	φ145	4-φ18	SD41-0.5	20
13	CI 65-7.5/2	405	220	100	535	640	340	340	φ185	φ145	4-φ18	SD41-0.5	20
14	CI 65-11/2	500	270	105	695	740	430	440	φ185	φ145	4-φ18	SD41-0.5	20
15	CI 65-15/2	500	270	105	695	740	430	440	φ185	φ145	4-φ18	SD41-0.5	20
16	CI 80-2.2/2	370	210	95	485	535	280	320	φ200	φ160	8-φ18	SD41-0.5	20
17	CI 80-4/2	385	220	105	490	590	300	340	φ200	φ160	8-φ18	SD41-0.5	20
18	CI 80-5.5/2	420	220	100	535	625	340	340	φ200	φ160	8-φ18	SD41-0.5	20
19	CI 80-7.5/2	445	255	105	540	640	340	380	φ200	φ160	8-φ18	SD41-0.5	20
20	CI 80-11/2	460	270	105	535	650	430	430	φ200	φ160	8-φ18	SD41-0.5	20
21	CI 80-15/2	510	270	270	695	765	430	440	φ200	φ160	8-φ18	SD41-0.5	20
22	CI 80-18.5/2	510	270	125	740	810	405	460	φ200	φ160	8-φ18	SD41-0.5	20
23	CI 80-22/2	510	270	125	740	845	405	460	φ200	φ160	8-φ18	SD41-0.5	20

Installation Dimensions:

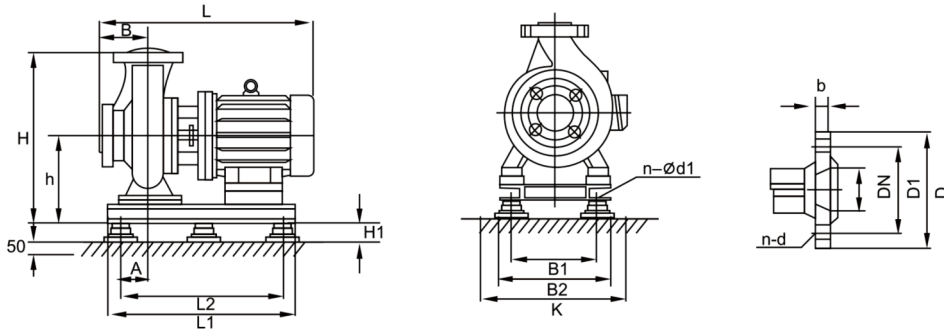
P2/2900rpm



No.	Model	Installation Dimensions							Flange Size			Vibration Isolator Specifications	H1
		H	h	a	L1	L	L2	B1	D	D1	n-d		
24	CI 100-4/2	425	220	115	490	300	430	340	φ220	φ180	8-φ18	SD41-0.5	20
25	CI 100-5.5/2	425	220	115	535	340	430	340	φ220	φ180	8-φ18	SD41-0.5	20
26	CI 100-7.5/2	460	255	120	540	670	340	380	φ220	φ180	8-φ18	SD41-0.5	20
27	CI 100-11/2	525	270	100	640	740	430	430	φ220	φ180	8-φ18	SD41-0.5	20
28	CI 100-15/2	525	270	100	640	740	430	430	φ220	φ180	8-φ18	SD41-0.5	20
29	CI 100-18.5/2	510	270	100	695	390	430	440	φ220	φ180	8-φ18	SD41-0.5	20
30	CI 100-22/2	510	270	100	740	740	405	460	φ220	φ180	8-φ18	SD41-0.5	20
31	CI 100-30/2	565	290	130	795	930	460	450	φ220	φ180	8-φ18	SD41-0.5	20
32	CI 100-37/2	565	290	130	795	930	460	450	φ220	φ180	8-φ18	SD41-0.5	20
33	CI 125-7.5/2	485	265	120	540	670	340	380	φ250	φ210	8-φ18	SD41-1	20
34	CI 125-11/2	490	270	120	640	765	430	430	φ250	φ210	8-φ18	SD41-1	20
35	CI 125-15/2	490	270	120	535	765	430	430	φ250	φ210	8-φ18	SD41-1	20
36	CI 125-18.5/2	530	270	125	695	815	430	440	φ250	φ210	8-φ18	SD41-1	20
37	CI 125-22/2	530	270	125	740	850	405	460	φ250	φ210	8-φ18	SD41-1	20
38	CI 125-30/2	575	290	130	795	930	460	450	φ250	φ210	8-φ18	SD41-1	20
39	CI 125-37/2	575	290	130	795	930	460	450	φ220	φ180	8-φ18	SD41-1	20
40	CI 125-45/2	640	340	165	840	1020	610	400	φ250	φ210	8-φ18	SD41-1	20
41	CI 125-55/2	665	365	165	920	1100	720	460	φ250	φ210	8-φ18	SD41-1	20
42	CI 125-75/2	700	370	150	1475	1160	880	600	φ250	φ210	8-φ18	SD41-1	20
43	CI 125-90/2	700	370	150	1500	1210	930	600	φ250	φ210	8-φ18	SD41-1	20
44	CI 150-45/2	725	365	145	850	1090	580	470	φ285	φ240	8-φ22	SD41-1	20
45	CI 150-55/2	725	365	145	850	1175	610	470	φ285	φ240	8-φ22	SD41-1	20
46	CI 150-75/2	725	365	145	880	1245	640	470	φ285	φ240	8-φ22	SD41-1	20

Installation Dimensions:

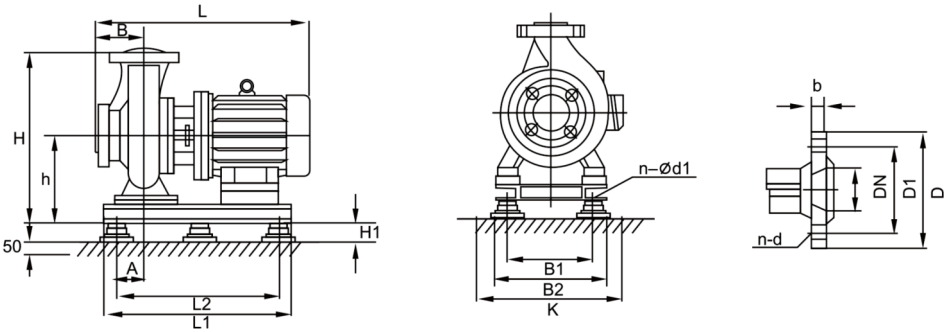
P4/1450rpm



No.	Model	Installation Dimensions							Flange Size			Vibration Isolator Specifications	H1
		H	h	a	L1	L	L2	B1	D	D1	n-d		
1	CI 65-1.5/4	480	250	105	695	740	430	440	φ185	φ145	4-φ18	SD41-0.5	20
2	CI 65-4/4	555	280	130	740	930	405	460	φ185	φ145	4-φ18	SD41-0.5	20
3	CI 80-2.2/4	455	250	105	535	650	430	430	φ200	φ160	8-φ18	SD41-0.5	20
4	CI 80-4/4	510	270	125	975	640	640	430	φ200	φ160	8-φ18	SD41-0.5	20
5	CI 80-5.5/4	620	315	140	795	685	640	430	φ200	φ160	8-φ18	SD41-0.5	20
6	CI 100-2.2/4	510	270	100	975	580	430	430	φ220	φ180	8-φ18	SD41-0.5	20
7	CI 100-4/4	565	290	130	975	660	640	430	φ220	φ180	8-φ18	SD41-0.5	20
8	CI 100-5.5/4	565	290	130	975	685	640	430	φ220	φ180	8-φ18	SD41-0.5	20
9	CI 100-7.5/4	670	340	135	740	725	405	460	φ220	φ180	8-φ18	SD41-1	20
10	CI 100-11/4	670	340	135	740	785	405	460	φ220	φ180	8-φ18	SD41-1	20
11	CI 125-4/4	580	290	130	975	650	640	430	φ250	φ210	8-φ18	SD41-1	20
12	CI 125-5.5/4	580	290	130	975	680	640	430	φ250	φ210	8-φ18	SD41-1	20
13	CI 125-7.5/4	590	340	165	975	755	640	430	φ250	φ210	8-φ18	SD41-1	20
14	CI 125-11/4	595	365	165	740	815	405	460	φ250	φ210	8-φ18	SD41-1	20
15	CI 125-11A/4	670	370	150	740	795	405	460	φ250	φ210	8-φ18	SD41-1	20
16	CI 125-15/4	670	370	150	740	840	405	460	φ250	φ210	8-φ18	SD41-1	20
17	CI 125-18.5/4	770	395	140	810	915	570	470	φ250	φ210	8-φ22	SD41-1	20
18	CI 125-22/4	770	395	140	850	955	610	470	φ250	φ210	8-φ22	SD41-1	20
19	CI 150-11/4	680	340	145	740	800	405	460	φ285	φ240	8-φ22	SD41-1	20
20	CI 150-15/4	680	340	145	740	845	405	460	φ285	φ240	8-φ22	SD41-1	20
21	CI 150-18.5/4	680	340	145	740	845	405	460	φ285	φ240	8-φ22	SD41-1	20
22	CI 150-22/4	830	430	140	820	915	580	470	φ285	φ240	8-φ22	SD41-1	20
23	CI 150-30/4	830	430	140	850	955	610	470	φ285	φ240	8-φ22	SD41-1	20
24	CI 150-37/4	830	430	140	850	1000	610	470	φ285	φ240	8-φ22	SD41-1	20
25	CI 150-45/4	830	430	140	880	1025	640	470	φ285	φ240	8-φ22	SD41-1	20

Installation Dimensions:

P4/1450rpm



No.	Model	Installation Dimensions							Flange Size			Vibration Isolator Specifications	H1
		H	h	a	L1	L	L2	B1	D	D1	n-d		
26	CI 150-55/4	958	458	180	860	1145	760	430	φ285	φ240	8-φ22	SD41-1	20
27	CI 150-75/4	958	458	180	930	1215	830	430	φ285	φ240	8-φ22	SD41-1	20
28	CI 200-11/4	700	340	165	740	815	405	460	φ340	φ295	12-φ22	SD41-1	20
29	CI 200-15/4	700	340	165	740	860	405	460	φ340	φ295	12-φ22	SD41-1	20
30	CI 200-18.5/4	700	340	165	740	895	405	460	φ340	φ295	12-φ22	SD41-1	20
31	CI 200-18.5B/4	800	395	155	770	910	530	470	φ340	φ295	12-φ22	SD41-1	20
32	CI 200-22/4	800	400	170	770	940	530	470	φ340	φ295	12-φ22	SD41-1	20
33	CI 200-22A/4	800	395	155	810	950	570	470	φ340	φ295	12-φ22	SD41-1	20
34	CI 200-30/4	865	430	145	850	960	610	470	φ340	φ295	12-φ22	SD41-1	20
35	CI 200-30/4A	800	395	155	850	990	610	470	φ340	φ295	12-φ22	SD41-1	20
36	CI 200-37/4	870	435	145	850	1005	610	470	φ340	φ295	12-φ22	SD41-1	20
37	CI200-37B/4	850	430	170	850	1040	610	520	φ340	φ295	12-φ22	SD41-1	20
38	CI 200-45/4	870	435	145	880	1030	640	470	φ340	φ295	12-φ22	SD41-1	20
39	CI200-45A/4	855	435	170	900	1065	660	520	φ340	φ295	12-φ22	SD41-1	20
40	CI 200-55/4	855	435	170	960	1120	720	520	φ340	φ295	12-φ22	SD41-1	20
41	CI 200-75/4	880	435	145	1040	1215	800	520	φ340	φ295	12-φ22	SD41-1	20
42	CI 200-90/4	1080	530	180	1180	1500	940	620	φ340	φ295	12-φ22	SD41-1	20
43	CI 200-110/4	1080	530	180	1220	1530	980	620	φ340	φ295	12-φ22	SD41-1	20
44	CI 250-37/4	885	435	200	850	1115	610	470	φ405	φ355	12-φ26	4-SD61-1.5	20
45	CI 250-45/4	885	435	200	880	1130	640	470	φ405	φ355	12-φ26	4-SD61-1.5	20
46	CI 250-55/4	870	435	200	970	1190	720	570	φ405	φ355	12-φ26	4-SD61-1.5	20
47	CI 250-75/4	870	435	200	1040	1295	800	570	φ405	φ355	12-φ26	4-SD61-1.5	20
48	CI 250-90/4	985	445	200	1080	1340	840	520	φ405	φ355	12-φ26	6-SD61-1.5	20
49	CI 250-110/4	985	445	200	1120	1440	880	600	φ405	φ355	12-φ26	6-SD61-1.5	20

Installation Recommendations

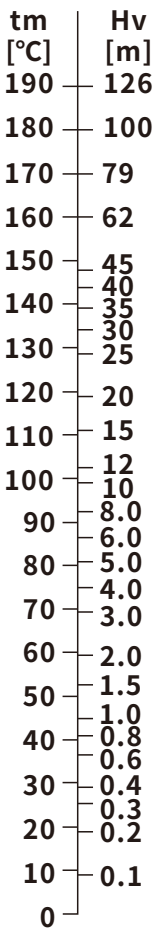
Minimum inlet pressure - NPSH

It is recommended to calculate the inlet pressure "H" when the following conditions exist:

- High liquid temperature
- Flow rate significantly greater than rated flow rate
- Pumping from a low point
- Pumping from a long line
- Bad inlet conditions

To avoid cavitation, a minimum pressure must be ensured on the inlet side of the pump. The maximum suction lift "H" can be calculated according to the following formula:

- $H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$
- P_b is the atmospheric pressure in bar (can be set to 1 bar, in a closed system, P_b is the system pressure)
- NPSH is the Net Positive Suction Head of the pump, unit m
- H_f is the suction line resistance loss in m (at the maximum flow rate of the pump)
- H_v is the vaporization pressure in m (can be read from the vaporization pressure scale, the value depends on the liquid temperature "tm")
- H_s is the safety margin of 0.5m minimum.
- If the calculated "H" is positive, the pump can be operated at a maximum suction height of "H".
- If the calculated "H" is negative, the pump requires a minimum inlet pressure of "H".



Estimated loss of piping and piping accessories

Pipe Diameter (mm)	FLOW Q(m³/h)																											
	5	10	15	20	25	30																						
25	65.4																											
38	6.7	26.7	60.1				40	50																				
50	1.5	6.1	13.8	24.5					60	70																		
65		1.5	3.4	6.1	9.5	13.7					80	90																
75		0.72	1.6	2.9	4.5	6.5	11.5						100	150														
100			0.36	0.64	1.0	1.4	2.6	4.0	5.7	7.8					200	250												
125				0.2	0.31	0.45	0.8	1.3	1.8	2.5	3.2						300	350										
150					0.12	0.18	0.31	0.49	0.71	0.96	1.3	1.6	2.0						400	450								
175						0.08	0.14	0.22	0.32	0.44	0.57	0.72	0.89	2.0	3.6	5.6						500	550					
200							0.07	0.11	0.16	0.22	0.29	0.36	0.45	1.0	1.8	2.8	4.0	5.5	7.2					600	700			
250								0.04	0.05	0.07	0.09	0.12	0.14	0.32	0.58	0.9	1.3	1.8	2.3	2.9	3.6	4.4	5.2					
300										0.03	0.04	0.05	0.06	0.13	0.23	0.36	0.51	0.70	0.91	1.2	1.4	1.7	2.1	2.8				

Max flow limited base on specified pipeline diameter

Diameter (mm)	Max Flow (m³/h)	Max Speed (m/s)
25	3.6	2.04
38	9	2.21
50	15	2.12
65	24	2.01
75	36	2.26
100	66	2.33
125	108	2.44
150	155	2.45
175	216	2.49
200	300	2.69
250	480	2.72
275	576	2.71
300	691	2.71
345	914	2.7

Note:Exceeding this limit will increase the line loss significantly.

Each valve and elbow pipe equivalent to straight pipe length

Type	Equivalent Straight Pipe Diameter Multiples	Remark
Open Valve	13	Not open doubled
Elbow Pipe	25	
Check Valve	100	
Foot Valve	100	Partial clogging doubled

Note:Take 100mm diameter pipe for example,foot valve equivalent straight pipe length=100mmx100=10000mm=10m, if Flow is 8L/S,check the above table find 100m straight pipe loss 1.3m,the 10m pipe loss=0.13m, that is to say:one 100mm foot valve,whenc flow is 8L/S,the head loss is 0.13m.

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Technical reference for project evaluation and pump selection.