

Since 1985

BOREWELL SUBMERSIBLE PUMP (4")

 **SHREE**
Niloskar Pumps
<http://www.niloskarpumps.com>

BOREWELL SUBMERSIBLE PUMPSET (4")

Salient Features

- ✓ Water lubricated motors are rewindable
- ✓ Compact and good ascetic looks
- ✓ Coupling dimensions as per NEMA
- ✓ Less Temperature rise
- ✓ Available in radial flow designs
- ✓ Trouble free - No maintenance
- ✓ Long life & high level of performance
- ✓ Low Noise

| MOTOR'S TECHNICAL SPECIFICATION

- 1 Phase - 0.37 kW - 2.2 kW, 220 - 230 V / 50 Hz
0.37 kW - 2.2 kW, 230 V / 60 Hz
- 3 Phase - 0.75 kW - 5.5 kW, 380 - 415 V / 50 Hz
0.75 kW - 5.5 kW, 230 - 380 - 460 V / 60 Hz
- 1 Phase motor - Capacitor start and run
- Max Water Temp - 35° C
- Max outer diameter (mm) - 96
- Max Starts per hour - 20 times



BOREWELL SUBMERSIBLE MOTOR (4")

MOTOR's MATERIAL SPECIFICATION

- Motor Body - Stainless Steel
- Motor Shaft - SS 420
- Winding wire - Polywrapped
- Motor Stator - CRNO M45
- Upper / Lower bracket - CI with epoxy paint
Or SS 304

MOTOR's PERFORMANCE CHART - @ 50Hz

MODEL NAME	HP	kW	Thrust F [N]	Un [V]	RPM	IN [A]	IA [A]	η (Eff.) [%] at % load			cosφ (PF) at % load			MAX START	MAX WATER TEMP.
								50	75	100	50	75	100		
NP-4-0.7	0.75	0.55	1500	380	2835	1.59	6.10	60	66	67	0.60	0.72	0.81	20	35°C
				400	2855	1.59	6.35	58	65	67	0.54	0.68	0.75	20	35°C
				415	2875	1.70	6.70	55	64	66	0.50	0.64	0.80	20	35°C
NP-4-1.0	1.00	0.75	1500	380	2845	2.11	8.95	64	67	70	0.58	0.71	0.79	20	35°C
				400	2870	2.11	9.45	60	68	69	0.51	0.64	0.75	20	35°C
				415	2880	2.20	9.95	58	65	68	0.49	0.61	0.72	20	35°C
NP-4-1.5	1.50	1.10	3000	380	2825	3.00	13.75	68	72	73	0.58	0.72	0.81	20	35°C
				400	2840	3.00	14.56	67	71	73	0.53	0.67	0.75	20	35°C
				415	2860	3.11	15.36	65	70	72	0.50	0.62	0.72	20	35°C
NP-4-2.0	2.00	1.50	3000	380	2845	3.91	18.68	68	72	73	0.60	0.72	0.81	20	35°C
				400	2855	4.00	19.25	66	72	73	0.54	0.66	0.77	20	35°C
				415	2870	4.10	20.25	64	70	72	0.49	0.62	0.73	20	35°C
NP-4-3.0	3.00	2.20	4000	380	2820	5.81	28.90	71	75	75	0.59	0.72	0.81	20	35°C
				400	2840	5.95	29.30	70	73	75	0.51	0.65	0.76	20	35°C
				415	2870	6.30	30.90	66	71	74	0.46	0.60	0.69	20	35°C
NP-4-4.0	4.00	3.00	4000	380	2810	8.55	29.56	62	67	70	0.72	0.78	0.82	20	35°C
				400	2820	8.26	31.35	61	66	68	0.71	0.77	0.80	20	35°C
				415	2850	8.10	33.31	60	65	67	0.70	0.76	0.80	20	35°C
NP-4-5.5	5.50	4.00	4000	380	2790	10.90	32.35	62	67	71	0.72	0.79	0.83	20	35°C
				400	2800	10.55	34.25	61	65	69	0.70	0.76	0.82	20	35°C
				415	2810	10.10	35.64	59	64	66	0.69	0.74	0.82	20	35°C
NP-4-7.5	7.50	5.50	4000	380	2785	14.90	50.46	69	73	74	0.74	0.79	0.84	20	35°C
				400	2795	14.60	53.68	68	72	73	0.74	0.79	0.84	20	35°C
				415	2810	14.20	54.95	67	69	71	0.73	0.77	0.83	20	35°C

4"



BOREWELL SUBMERSIBLE PUMP (4")

| PUMP's TECHNICAL SPECIFICATION

- Operating range:
 - Head Range - 9 mtr to 240
 - Flow rate - 5 lpm to 300 lpm
 - Immersion - 1 mtr minimum
- Outlet (inch) - 1 / 1.25 / 1.5 / 2
- Pump & Motor Coupling - As per NEMA Standard

| PUMP's MATERIAL SPECIFICATION

- Pump Casing - SS 202 / 304
- Impeller - Noryl
- Outlet - SS / CI
- Shaft - SS 410 / 304
- Bearing Bush & Sleeves - SS with hard chrome

4"



BOREWELL SUBMERSIBLE PUMP (4")

PUMP'S PERFORMANCE CHART

Performance Data @ 2800 rpm | 380 - 415 V | Three Phase | 50 Hz | A.C Supply

4"

					MODEL - NP20/C2 RADIAL FLOW						
PUMP MODEL	HP	kW	STAGE	OUTLET SIZE(MM)	DISCHARGE IN LPM						
					0	20	30	40	50	60	70
					HEAD IN METER						
NP 20/C2/8	0.5	0.37	8	32	46	40	32	28	24	20	12
NP 20/C2/10	0.5	0.37	10	32	58	50	40	35	30	25	15
NP 20/C2/12	0.75	0.55	12	32	70	60	48	42	36	30	18
NP 20/C2/15	1	0.75	15	32	87	75	60	52	45	37	22
NP 20/C2/18	1	0.75	18	32	104	90	72	63	54	45	27
NP 20/C2/20	1.5	1.1	20	32	116	100	80	70	60	50	30
NP 20/C2/25	1.5	1.1	25	32	145	125	100	88	75	62	37
NP 20/C2/30	2	1.5	30	32	174	150	120	105	90	75	45

					MODEL - NP20/C4 RADIAL FLOW						
PUMP MODEL	HP	kW	STAGE	OUTLET SIZE(MM)	DISCHARGE IN LPM						
					0	35	45	65	80	90	100
					HEAD IN METER						
NP 20/C4/6	0.5	0.37	6	32	35	27	24	21	18	15	12
NP 20/C4/10	0.75	0.55	10	32	58	45	40	35	30	25	20
NP 20/C4/12	1	0.75	12	32	70	54	48	42	36	30	24
NP 20/C4/15	1.5	1.1	15	32	87	67	60	52	45	37	30
NP 20/C4/20	2	1.5	20	32	116	90	80	70	60	50	40
NP 20/C4/22	2	1.5	22	32	128	99	88	77	66	55	44
NP 20/C4/25	2	1.5	25	32	145	112	100	87	75	62	50
NP 20/C4/30	3	2.2	30	32	174	135	120	105	90	75	60
NP 20/C4/40	4	3	40	32	232	180	160	140	120	100	80

PUMP MODEL	HP	kW	STAGE	OUTLET SIZE(MM)	DISCHARGE IN LPM						
					0	50	70	85	100	115	130
					HEAD IN METER						
NP 20/C5/8	0.75	0.55	8	32	48	44	38	32	28	24	16
NP 20/C5/10	1	0.75	10	32	60	55	47	40	35	30	20
NP 20/C5/12	1.5	1.1	12	32	72	66	57	48	42	36	24
NP 20/C5/15	2	1.5	15	32	90	82	71	60	52	45	30
NP 20/C5/18	2	1.5	18	32	108	99	85	72	63	54	36
NP 20/C5/25	3	2.2	25	32	150	137	119	100	87	75	50
NP 20/C5/30	4	3	30	32	180	165	142	120	105	90	60
NP 20/C5/40	5	3.7	40	32	240	220	190	160	140	120	80

PUMP MODEL	HP	kW	STAGE	OUTLET SIZE(MM)	DISCHARGE IN LPM						
					0	65	80	100	120	135	150
					HEAD IN METER						
NP 20/C7/5	0.75	0.55	5	40	31	25	22	20	17	15	11
NP 20/C7/6	1	0.75	6	40	37	30	27	24	21	18	13
NP 20/C7/8	1	0.75	8	40	50	40	36	32	28	24	18
NP 20/C7/10	1.5	1.1	10	40	62	50	45	40	35	30	22
NP 20/C7/12	2	1.5	12	40	75	60	54	48	42	36	27
NP 20/C7/15	3	2.2	15	40	94	75	67	60	52	45	34
NP 20/C7/18	3	2.2	18	40	112	90	81	72	63	54	40
NP 20/C7/20	3	2.2	20	40	125	100	90	80	70	60	45
NP 20/C7/22	3	2.2	22	40	137	110	99	88	77	66	49
NP 20/C7/25	4	3	25	40	156	125	112	100	87	75	56
NP 20/C7/30	5	3.7	30	40	187	150	135	120	105	90	67

MODEL - NP20/C5 RADIAL FLOW						
DISCHARGE IN LPM						
0	50	70	85	100	115	130
HEAD IN METER						
48	44	38	32	28	24	16
60	55	47	40	35	30	20
72	66	57	48	42	36	24
90	82	71	60	52	45	30
108	99	85	72	63	54	36
150	137	119	100	87	75	50
180	165	142	120	105	90	60
240	220	190	160	140	120	80

MODEL - NP20/C7 RADIAL FLOW						
DISCHARGE IN LPM						
0	65	80	100	120	135	150
HEAD IN METER						
31	25	22	20	17	15	11
37	30	27	24	21	18	13
50	40	36	32	28	24	18
62	50	45	40	35	30	22
75	60	54	48	42	36	27
94	75	67	60	52	45	34
112	90	81	72	63	54	40
125	100	90	80	70	60	45
137	110	99	88	77	66	49
156	125	112	100	87	75	56
187	150	135	120	105	90	67

BOREWELL SUBMERSIBLE PUMP (4")

PUMP'S PERFORMANCE CHART

Performance Data @ 2800 rpm | 380 - 415 V | Three Phase | 50 Hz | A.C Supply

4"

					MODEL - NP20/C10 RADIAL FLOW						
					DISCHARGE IN LPM						
PUMP MODEL	HP	kW	STAGE	OUTLET SIZE(MM)	0	70	90	115	140	160	180
					HEAD IN METER						
NP 20/C10/5	1	0.75	5	40	30	25	22	20	17	15	10
NP 20/C10/8	1.5	1.1	8	40	48	40	36	32	28	24	16
NP 20/C10/10	2	1.5	10	40	60	50	45	40	35	30	20
NP 20/C10/12	3	2.2	12	40	72	60	54	48	42	36	24
NP 20/C10/18	4	3	18	40	108	90	81	72	63	54	36
NP 20/C10/20	4	3	20	40	120	100	90	80	70	60	40
NP 20/C10/25	5	3.7	25	40	150	125	112	100	87	75	50

					MODEL - NP20/C12 RADIAL FLOW						
					DISCHARGE IN LPM						
PUMP MODEL	HP	kW	STAGE	OUTLET SIZE(MM)	0	90	120	140	170	210	230
					HEAD IN METER						
NP 20/C12/5	1	0.75	4	50	22	18	16	14	12	8	6
NP 20/C12/6	1.5	1.1	6	50	33	27	24	21	18	12	9
NP 20/C12/8	2	1.5	8	50	44	36	32	28	24	16	12
NP 20/C12/10	3	2.2	10	50	55	45	40	35	30	20	15
NP 20/C12/15	4	3	15	50	82	67	60	52	45	30	22
NP 20/C12/18	5	3.7	18	50	99	81	72	63	54	36	27
NP 20/C12/20	5	3.7	20	50	110	90	80	70	60	40	30

					MODEL - NP20/C18 S.S MIXED FLOW						
					DISCHARGE IN LPM						
PUMP MODEL	HP	kW	STAGE	OUTLET SIZE(MM)	0	100	160	220	280	330	390
					HEAD IN METER						
NP 20/C18/5	2	1.5	5	50	27	24	21	19	15	10	5
NP 20/C18/6	2	1.5	6	50	33	28	25	22	18	12	6
NP 20/C18/7	3	2.2	7	50	38	33	29	26	21	14	7
NP 20/C18/10	4	3	10	50	55	48	42	37	30	20	10
NP 20/C18/12	5	3.7	12	50	66	57	51	45	36	24	12
NP 20/C18/15	5	3.7	15	50	82	71	64	56	45	30	15

					MODEL - NP20/C18 C.I MIXED FLOW						
					DISCHARGE IN LPM						
PUMP MODEL	HP	kW	STAGE	OUTLET SIZE(MM)	0	120	180	260	330	380	460
					HEAD IN METER						
NP 20/C18/5	2	1.5	5	50	27	24	21	19	15	10	5
NP 20/C18/6	2	1.5	6	50	33	28	25	22	18	12	6
NP 20/C18/7	3	2.2	7	50	38	33	29	26	21	14	7
NP 20/C18/10	4	3	10	50	55	48	42	37	30	20	10
NP 20/C18/12	5	3.7	12	50	66	57	51	45	36	24	12
NP 20/C18/15	5	3.7	15	50	82	71	64	56	45	30	15

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