

SINCE 1935

**VARUNA**<sup>®</sup>

RAISE • REACH • REAP

VARUNA

# WONDER SERIES

3" (75mm) & 4" (100mm)



**SUBMERSIBLE**

PUMP, MOTOR, CABLE AND CONTROL PANEL



In view of meeting the customer's expectation & simplifying the installation process VARUNA . with it's 7 decades of experience in pump industry has introduced a first in its kind compact submersible pump kit called VARUNA WONDER series. This series consist limited models suitable mainly for low head applications up to 145 meters with maximum flow of 240 lpm. This VARUNA WONDER Series comprises the following items and supplied all in one pack.

- 3" Submersible pump, Oil filled motor, Control box (For single phase only), 30 mtr drop cable
- 4" Submersible pump, Oil filled motor, Control box (For single phase only), 30 mtr drop cable
- ALSO AVAILABLE IN WATER FILLED MOTOR.
- EXTRA DROP CABLE ON DEMAND.

## FEATURES

- Pump & motor with 30 mtr spliced drop cable and Control Box.
- Corrosion resistance Stainless steel pump & motor body.
- Pumps with built-in check valve.
- Packed in single carton.
- Easy to transport and store.
- NEMA standard Mounting standards.
- Regular single phase simple panel.

## MOTOR MATERIALS OF CONSTRUCTION

### 3" Oil Lubricated Motors (75 mm).

No.	PARTS NAME	MATERIAL
01	CABLE 3 CORE/4 CORE	P.V.C
02	MECH. SEAL	CERAMIC/CARBON
03	UPPER HOUSING	CAST IRON (FG 200)
04	ROTOR SHAFT	S.S.420
05	MOTOR SHELL	S.S.304
06	LOWER HOUSING	CAST IRON (FG 200)
07	PRESSURE CUP	HBR
08	MOTOR BASE PLATE	S.S.304
09	ALL HARDWARE	S.S.304
10	WINDING WIRES	ENAMELED DUAL COATED
11	INSULATION	CLASS : B
12	PROTECTION	IP58
13	OIL TEMPERATURE	35°C
14	START PER HOUR	30 TIMES (MAX.)
15	VOLTAGE VARIATION	+6% - 10%
16	MOUNTING	VERTICAL
17	CAPACITOR	START (CSR)

### 4" Oil Lubricated Motors (100 mm).

No.	PARTS NAME	MATERIAL
01	CABLE 3 CORE/4 CORE	P.V.C
02	MECH. SEAL	CERAMIC/CARBON
03	UPPER HOUSING	CAST IRON (CLADDING) (FG 200)
04	ROTOR SHAFT	S.S.420
05	MOTOR SHELL	S.S.304
06	LOWER HOUSING	CAST IRON (FG 200)
07	PRESSURE CUP	HBR
08	MOTOR BASE PLATE	ENG. PLASTIC
09	ALL HARDWARE	S.S.304
10	WINDING WIRES	ENAMELED DUAL COATED
11	INSULATION	CLASS : B
12	PROTECTION	IP58
13	OIL TEMPERATURE	35°C
14	START PER HOUR	30 TIMES (MAX.)
15	VOLTAGE VARIATION	+6% - 10%
16	MOUNTING	VERTICAL
17	CAPACITOR	START (CSR)

## PUMP MATERIALS OF CONSTRUCTION

### 3" Submersible Pump (75 mm).

No.	PARTS NAME	MATERIAL
01	SUCTION	CAST IRON (CED COATED)
02	STAINER	S.S. 202
03	BOWL	P.P.O. (20% G.F.)
04	IMPELLER	P.P.O. (20% G.F.)
05	PUMP SHAFT	S.S. 410
06	DELIVERY CASING (N.R.V.)	CAST IRON (CED COATED)
07	PUMP PIPE	S.S. 202
08	COUPLING (NEMA)	S.S. 304
09	D.O.L. RUBBER BUSH	N.B.R.
10	CABLE GUARD	S.S. 304

### 4" Submersible Pump (100 mm).

No.	PARTS NAME	MATERIAL
01	SUCTION	CAST IRON (CED COATED)
02	STAINER	S.S. 202
03	BOWL	P.P.O. (20% G.F.)
04	IMPELLER	P.P.O. (20% G.F.)
05	PUMP SHAFT	S.S. 410
06	DELIVERY CASING (N.R.V.)	CAST IRON (CED COATED)
07	PUMP PIPE	S.S. 304
08	COUPLING (NEMA)	S.S. 304
09	D.O.L. RUBBER BUSH	N.B.R.
10	CABLE GUARD	S.S. 304
11	BUSH	NITRILE RUBBER

## Performance Table for 3" Submersible Pumpset

Model Name	Stage	Rating		HEADS IN Meters	Discharge								
		kW	HP		l/min	0	7	15	22	27	30	35	40
3RF 300-36	36	1.10	1.50		99	95	90	83	76	68	58	45	22

Model Name	Stage	Rating		HEADS IN Meters	Discharge									
		kW	HP		l/min	0	10	25	30	35	40	45	50	55
3RF 30A-09	9	0.37	0.50		28	27	26	25	24	22	21	18	14	7
3RF 30A-12	12	0.55	0.75		37	36	35	34	32	30	28	24	19	10
3RF 30A-16	16	0.75	1.00		50	49	46	45	43	40	37	32	26	13
3RF 30A-20	20	1.10	1.50		62	61	58	56	54	50	46	40	32	16

Model Name	Stage	Rating		HEADS IN Meters	Discharge								
		kW	HP		l/min	0	24	32	38	48	60	72	84
3RF 300H-12	12	0.75	1.00		60	53	50	48	45	39	32	20	14
3RF 300H-15	15	1.10	1.50		75	66	63	60	56	49	40	25	18

## Performance Table for 4" Submersible Pumpset

Model Name	Stage	Rating		HEADS IN Meters	Discharge								
		kW	HP		l/min	0	5	10	15	20	25	30	40
4RF 450-10	10	0.55	0.75		0	0.3	0.6	0.9	1.2	1.5	1.8	2.4	

Model Name	Stage	Rating		HEADS IN Meters	Discharge								
		kW	HP		l/min	0	12	20	30	35	40	45	55
4RF 430-08	8	0.55	0.75		0	0.72	1.2	1.8	2.1	2.4	2.7	3.3	3.9
4RF 430-12	12	0.75	1.00		46	44	42	40	38	36	32	26	15
4RF 430-18	18	1.10	1.50		69	66	62	60	57	54	48	38	23
					104	99	94	90	86	81	72	58	34

Model Name	Stage	Rating		HEADS IN Meters	Discharge								
		kW	HP		l/min	0	12	25	33	40	50	60	70
4RF 402-10	10	0.75	1.00		0	0.72	1.5	1.98	2.4	3.0	3.6	4.2	5.1
4RF 402-15	15	1.10	1.50		60	58	56	54	53	50	44	38	30
4RF 402-18	18	1.50	2.00		90	87	84	81	80	75	66	57	45
4RF 402-25	25	2.20	3.00		108	104	101	97	95	90	79	68	54
					150	145	140	135	132	125	110	95	75

Model Name	Stage	Rating		HEADS IN Meters	Discharge									
		kW	HP		l/min	0	25	50	70	85	95	105	110	120
4RF 410-15	15	2.20	3.00		0	1.5	3.0	4.2	5.1	5.7	6.3	6.6	7.2	7.8
					100	97	92	86	78	73	66	62	56	46

Model Name	Stage	Rating		HEADS IN Meters	Discharge								
		kW	HP		l/min	0	23	42	55	85	100	115	120
4RF 400-12	12	1.50	2.00		0	1.38	2.52	3.3	5.1	6.0	6.9	7.2	
4RF 400-18	18	2.20	3.00		70	67	63	60	49	43	36	31	
					104	100	95	90	74	65	54	47	

Model Name	Stage	Rating		HEADS IN Meters	Discharge								
		kW	HP		l/min	0	35	65	85	135	165	185	240
4MF 470-08	8	1.50	2.00		0	2.1	3.9	5.1	8.1	9.9	11.7	14.4	
4MF 470-10	10	2.20	3.00		53	50	46	43	34	27	22	14	
4MF 470-12	12	2.20	3.00		66	62	58	54	42	34	28	17	
					79	74	70	65	50	41	34	20	



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