

# SOUTHERN CROSS SC

4 Inch (100mm) SUBMERSIBLE PUMPS

RELIABLE CORROSION RESISTANT SUBMERSIBLE PUMPING PERFORMANCE



### FEATURES

Designed for general water supply in 100mm or larger boreholes.

Full 304 stainless steel construction for corrosion resistance.

 Screwed pump outlet connections:

 SC-1, 2 & 3
 32mm (1 1/4" BSPF)

 SC-5
 38mm (1 1/2" BSPF)

 SC-8 & 12
 50mm (2" BSPF)

Inbuilt positive sealing non-return valve with natural rubber seat.

Robust 304 stainless steel cable protector and inlet strainer.

Natural rubber shaft bearings and impeller wear rings.

304 stainless steel 4 inch NEMA standard motor coupling.

Quality NEMA Standard oil filled motors from 0.37 to 5.5kW.

#### **APPLICATIONS**

Domestic Agricultural Stock Watering Irrigation Pressure Boosting Industrial

#### PUMP CONSTRUCTION MATERIALS

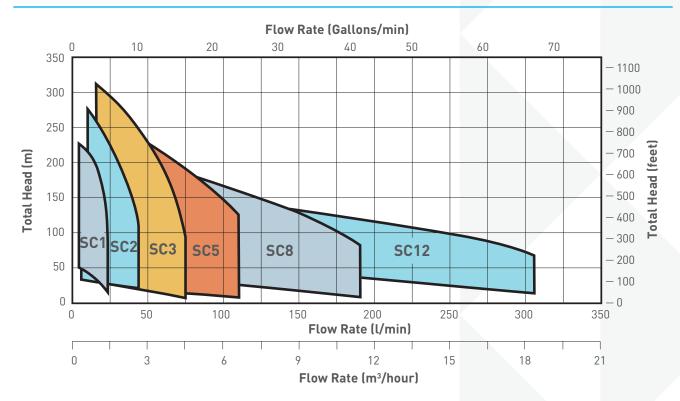
Pump Bowls 304 Stainless Steel 304 Stainless Steel Impellers 304 Stainless Steel Diffusers 431 Stainless Steel Shaft Motor Coupling 304 Stainless Steel Non-Return Valve 304 Stainless Steel Valve Seat Natural Rubber Shaft Bearings Natural Rubber Impeller Wear Rings Natural Rubber OPERATING LIMITS

Capacity	Maximu	um 18m³/hour
Head	Maximu	m 300 metres
Max. Water Tem	p.	+35°C
Max. Sand Conte	ent	50g/m <sup>3</sup>
Pumped Liquid		Clean Water





### PERFORMANCE



#### SAVA 4 INCH OIL FILLED SUBMERSIBLE ELECTRIC MOTORS

#### Single Phase, 240 Volt

Power (kW)	Full Load Current (A)	Start Current (A)	Efficiency (%)	Power Factor (cosΦ)	Thrust Load (N)	Capacitor (µF)
0.37	3.7	12	53	0.85	2000	16
0.55	4.3	15	62	0.90	2000	20
0.75	5.7	20	64	0.90	2000	25
1.1	7.8	32	68	0.90	2000	35
1.5	9.8	38	73	0.90	2000	40
2.2	15	46	72	0.88	3000	55

#### 3 Phase, 415 Volt

Power (kW)	Full Load Current (A)	Start Current (A)	Efficiency (%)	Power Factor (cosΦ)	Thrust Load (N)	Capacitor (µF)
0.37	1.2	4.5	60	0.75	2000	-
0.55	1.6	6.7	64	0.78	2000	-
0.75	2.1	8.9	66	0.78	2000	-
1.1	2.7	12	70	0.84	2000	-
1.5	3.6	14	72	0.84	2000	-
2.2	5.4	22	71	0.83	3000	-
3	7.5	43	73	0.8	5000	-
4	9.9	49	75	0.8	5000	-
5.5	13.8	65	75	0.8	5000	-
7.5	19	87	76	0.8	5000	-

## PENTAIR

#### PENTAIR SOUTHERN CROSS

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#### FEATURES

## 4" NEMA standard

304 grade stainless steel shell and end caps.

420 stainless steel (0.37-2.2kW) or 630 stainless steel shaft (3 - 7.5kW) shaft.

Aluminium (0.37-2.2kW) or copper (3-7.5kW) rotor.

High quality carbon/ceramic mechanical seal.

Non-toxic food grade white oil.

Approved for potable water applications.

F class motor insulation.

#### **OPERATING LIMITS**

Max. immersion depth:	200m
Max. water temperature:	35°C
Max. starts per hour:	40
Min. flow rate:	0.2m/sec
Max. voltage variation:	230V±10% 400V±10%

