

# SOUTHERN CROSS SD

## 4 Inch (100mm) SUBMERSIBLE PUMPS

ECONOMICAL COMPOSITE/STAINLESS STEEL SUBMERSIBLE PUMPS



### FEATURES

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

Corrosion resistant 304 stainless steel and high grade composite construction.

Screwed pump outlet connections:  
 SD-1, 2 & 4 32mm (1 1/4" BSPF)  
 SD-7, 9, 11 & 16 50mm (2" BSPF)

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

304 stainless steel 4 inch NEMA standard motor coupling.

Robust 304 stainless steel cable protector and inlet strainer.

Natural rubber shaft bearings.

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

### APPLICATIONS

Domestic  
 Agricultural  
 Stock Watering  
 Irrigation  
 Pressure Boosting  
 Industrial  
 Potable Water

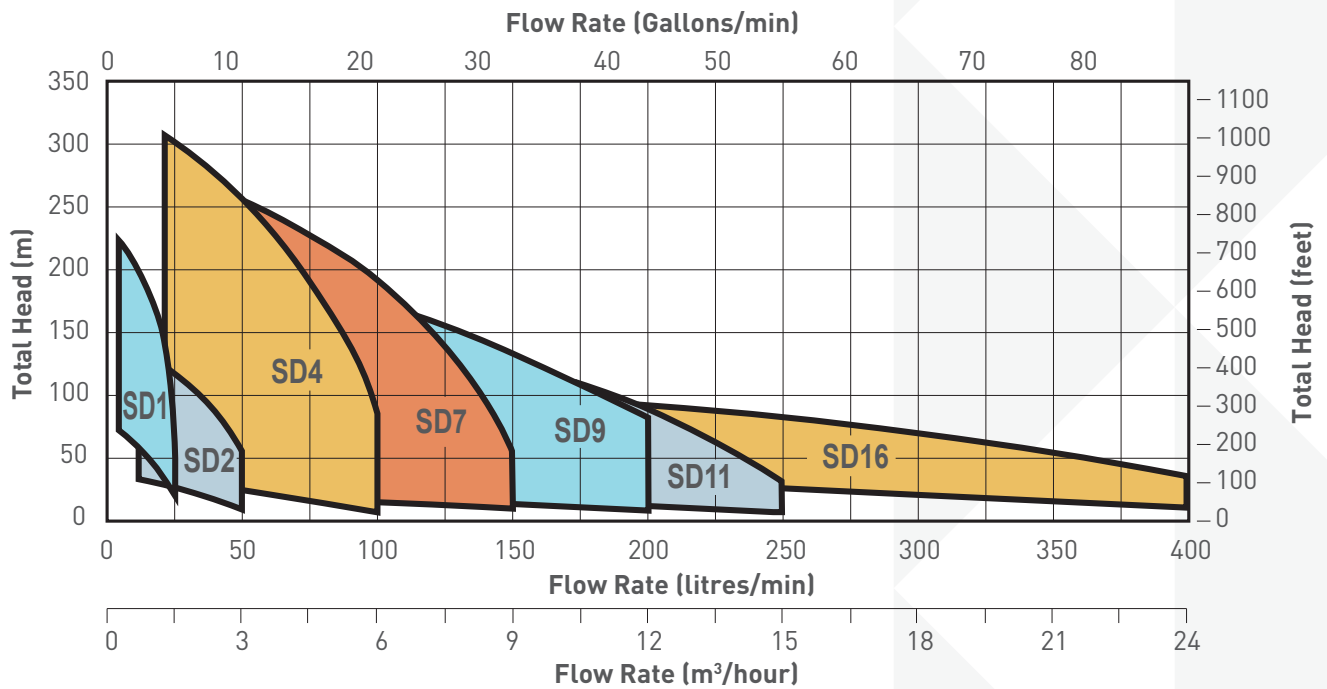
### PUMP CONSTRUCTION MATERIALS

Pump Bowls	304 Stainless Steel
Impellers	Noryl
Diffusers	Glass Filled Polycarbonate
Shaft	304 Stainless Steel
Motor Coupling	304 Stainless Steel
Non-Return Valve	304 Stainless Steel
Valve Seat	Natural Rubber
Shaft Bearings	Polyacetal

### OPERATING LIMITS

Capacity	Maximum 24m <sup>3</sup> /hour
Head	Maximum 300 metres
Max. Water Temp.	+35° C
Max. Sand Content	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	-

## 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%



### PENTAIR SOUTHERN CROSS

8618 Warrego Highway, Withcott, QLD 4352, Australia. [www.southerncross.pentair.com](http://www.southerncross.pentair.com)

All Pentair trademarks and logos are owned by Pentair, Ltd. All other brand or product names are trademarks or registered marks of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.

A.B.N. 83 000 922 690 © 2012 Pentair, Ltd. All Rights Reserved.

© 2012 Pentair Southern Cross