

SCHWING Concrete Pump

Flat Gate Valve Version

BP 350 / SP 1800 / SP 2800



BP 350 / SP 1800 / SP 2800

Drive

The motor (diesel or electric) drives the axial piston pump via a flexible coupling. Due to automatic output adjustment optimum utilization of the motor power, results in low energy consumption at different pumping conditions. Additionally the concrete flow can be manually adjusted and the pump operates in a proven open circuit.

The pump is renowned for its low fuel consumption. Automatic adjustment by the governor helps to maintain a constant output depending on the power available from the installed drive motor.



Design

The portable concrete pumps are assembled in the unit construction system. The main assembly groups are: Frame, Power Unit, Concrete pump kit, Control block, Hydraulic tank and Hopper with agitator.

The Frame & Axle

The frame, in compact execution, is constructed from standard vehicle profiles. The pump is mounted on heavy duty single axle chassis with draw bars and pneumatic tyres for travelling on construction sites at upto 25 km/hr.

Control System

The fully hydraulic control system is integrated within the drive. The compact control block and minimal hydraulic lines makes the equipment reliable and durable. The differential cylinder has trouble free piston rings and automatic constant stroke maintenance. Both gate valves change independently so that even when full change over is prevented by foreign materials or similar obstructions in the concrete, the pump continues to operate without any problems. All components are specially developed and manufactured to withstand the rough conditions on construction sites.

Hopper and Agitator

Good suction power is possible due to large apertures at the hopper bottom section. According to the conditions on the construction site the hopper equipped with a grill and rubber border standard can be provided with an appropriate extension as an option. The agitator is driven by separate hydraulic pump. The reversible agitator motor drives the agitator shaft via an oil bath gear box.

Pumping Cylinders

The two pumping cylinders are hardened by a special process and designed for an extremely long working life. The replaceable hard rubber arms are easily changed due to quickly detachable connections.



Maintenance free hydraulic cylinder



Remote Control



Control Housing

Ideal flow conditions in the control housing results in superior placing properties, even in the case of concrete low on sand and fines, stiff consistence or crushed aggregates. Simple tilting of the output pipes enables easy control and cleaning of the concrete conveying path and the gate valve parts.



Flat Gate Valve

The two flat gate valves working independently have been specially developed for pumping concrete. Their working system with automatic adjustment permits trouble free pumping even with badly worn parts.



Integrated Control Block

The hydraulic control system is integrated within the drive. The compact control block & minimal hydraulic lines makes the equipment reliable & durable.

Pumping Material

Pumpable concrete, within any consistency range down to a water cement ratio of 0.4. Even concrete with aggregate grading up to 40mm can be pumped by with the concrete pump through a 125mm diameter pipe line.

TECHNICAL DATA

Description	Unit	BP 350 DXT / E	SP 1800 D / E		SP 2800 D / E	
Engine / Motor Capacity	kw	48.6 / 45	81 / 75		132 / 132	
Nominal Speed	rpm	2100 / 1450	2100		2200	
Pumping Cylinder Ø x Stroke	mm	180 x 1200	200 x 1600		200 x 1600	
Differential cylinder drive		Rod Side	Piston Side	Rod Side	Piston Side	Rod Side
Max. No. of Strokes	min	24 / 19	14/14	24/24	19/19	33/33
Max theor.concrete output	m ³ /hr	45 / 35	42/42	73/73	58/58	101/101
Max concrete pressure	bar	60	112/62	112/62	119	66
Capacity of Charging Hopper	liter	600	600		600	
Dead Weight incl.oil and Fuel	kg	3100 / 2900	5200		5300	
Delivery line Ø up to	mm	150	150		150	

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SCHWING STETTER (INDIA) PVT LTD

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CORPORATE OFFICE : F 71 - 72, SIPCOT Industrial Park, Irungattukottai, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu - 602117.
Tel : +91 44 71378100 / 106, 37178100 / 106
Email : schwing@vsnl.com

Kolkata : Y6, Block EP, Sector V, Electronics Complex, Salt Lake City, Kolkata-700091. Tel: 033 3322 3300
033 3355 5588 Fax : 033 3322 3326
Email : kolkata@schwingstetterindia.com

Bangalore : No 138-B, "UDAYAGIRI COMPLEX", 3rd Phase, KIADB Industrial area, Peenya, Bangalore - 560058.
Tel : 080 3355 5588 Fax : 080 3011 4301
Email : bangalore@schwingstetterindia.com

Ahmedabad : 103, Shivalik Arcade, 100 Ft., T.P Anand Nagar, Satellite Road, Ahmedabad 380 051.
Tel : 079 3355 5588 Fax : 079 4006 4084
Email : ahmedabad@schwingstetterindia.com

Pune : Arihant Court, No.1,2 & 3, 481, Rasta Peth, Mudliar Road, Pune - 411011. Tel: 020 3355 5588
Fax : 020 3053 1517, 3053 1511
Email : pune@schwingstetterindia.com

Patna : C/o, Mrs. Hemanti Devi, East Pahari, NH-31, Near Zero Mile, Patna - 800007. Mob : 09570996702
Tel: 0612 3057728 Fax : 0612 3057725
Email : rajiv.chandra@schwingstetterindia.com

Goa : Next to Barreto Metal Works, House No 451/1, Dagwal, Madgaon-Ponda Highway, Raia, Salcete, Goa - 403720. Tel: 7304437377

Mumbai : 620/621, Nirmal Lifestyle Corporate Centre, 6th floor, LBS Marg, Mulund (West), Mumbai 400080.
Tel : 022 25624863 / 64, 30718300
Fax : 022 25624865 / 66
Email : mumbai@schwingstetterindia.com

Hyderabad : No.8-2-268/1/C, Plot 2, Road 3, Arora Colony, Banjara Hills, Hyderabad-500034.
Tel: 040 33555588 / 30948601 Fax: 040 23731770
Email : hyderabad@schwingstetterindia.com

Visakhapatnam : Plot No.54, IDA - Block 'D', Expansion, Auto nagar, Visakhapatnam - 530 012.
Tel : 0891 6461783 Fax: 0891 2706063

Cochin : No.134 / 1404 B, Arakkakadavu Road, Anchumana, Edappally P.O. Cochin - 682 024.
Tel: 0484 - 3355558 / 4055544 Fax: 0484 4506165
Email : cochin@schwingstetterindia.com

Coimbatore : 2005, Trichy Road, Old Rajalaxmi Mills, Singanallur, Coimbatore-641005. Tel: 0422 4506165
Email : coimbatore@schwingstetterindia.com

Surat : C-19 & D-19 Green Park, Light Industrial Estate, Opp. Madhav Park, Udhna Navsari Road, Unn - Surat -395023.
Tel : 08980002726
Email : ahmedabad@schwingstetterindia.com

Nagpur : C/o Amrut Dairy Farm, No. 118, Opp VCA Stadium, Jamtha, 16th KM Milestone, NH-7, Wardha Road, Nagpur - 441108. Tel : 07104327484
Email : goraj.bawankule@schwingstetterindia.com

New Delhi : 19, Okhla Industrial Estate, Phase III, New Delhi - 110 020.
Tel : 011 30928500 Fax : 011 30928530
Email : newdelhi@schwingstetterindia.com

Mohali : D 91-PH-VII, Industrial Area, Mohali, Punjab - 160 055. Tel : 0172 3957500 / 3957501
Email : chandigarh@schwingstetterindia.com

Jammu : C/o. VRL Logistics Limited, Plot No. 19, Transport Nagar, Narwal, Jammu - 180006.
Tel : 099060 35941.

Bhubaneswar : Plot No:182, Naharkanta, Rudrapur, Beside Puri Main Canal, NH5, Bhubaneswar - 752101 Odisha. Tel : 9078884484 / 85

Raipur : NH-6, Opposite Vardhaman Motor, Kumahari, Dist - Durg, Chhattisgarh - 490042.
Tel : 07821 247066
Email : sunil.kumar@schwingstetterindia.com

Guwahati : House No. 161, Jaya Nagar, Six Miles, Khanapara, Guwahati 781 022.
Tel: 0361 2234738 / 099575 66738

Indore : Godown no.20, Pipliya Kumar Mangal Compound, Dewas Naka, MR-11, Indore - 452010. M.P. Tel : 0731 4002487
Email : ahmedabad@schwingstetterindia.com

Jaipur : F-95, Om Industries, Godown, No.18, Road No.7, Vishwakarma Industrial Area, Jaipur - 302 013. Phone: 08939804085