



SP 3800

Stationary concrete pump



SCHWING stationary concrete pumps.
Performance and safety at all levels.



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Concrete output	max.	113 m ³ /h
Pressure on concrete	max.	162 bar
Engine output		200 - 240 kW
Machine weight		8,300 - 8,800 kg 18,300 - 19,400 lb



RECORD BREAKING ENGINEERING

The SP 3800 from SCHWING

Performance and reliability

With a concrete output of up to 113 m³ / h and a pressure on concrete of up to 162 bar, the SP 3800 from SCHWING is the reliable and safe solution for concrete pumping in medium and large construction projects. The standard dual-circuit hydraulic system ensures smooth pumping, fast shift-over and high pump performance combined with excellent energy efficiency. Like all SCHWING concrete pumps, the SP 3800 offers short maintenance times, an unrivaled low wear and a high product quality. For higher machine availability and more reliability for every pour.

Low-wear concrete valve

The legendary low wearing ROCK valve guarantees extremely long operating times and very low service costs. The optimum geometry of the ROCK reduces the friction of the concrete flow. Its robustness also allows the pumping of demanding mixtures like concrete with low water-cement ratio.



Smart Switch

The optional SmartSwitch function allows switching from maximum delivery rate (rod-side) to maximum pump pressure (piston-side) at the touch of a button and without all the messy exchanging of hoses: quick, easy and secure.

EcoClean

The EcoClean procedure allows the placement of all concrete inside the pipeline for high-rise pumping. This reduces the amount of concrete needed as well as disposal costs, increasing the efficiency of the concrete pour. All SCHWING stationary pumps are equipped ready for the EcoClean procedure ex-factory.

Increased operating comfort

The clear operating structure and large-format colour display of the machine control allow for easy and intuitive operation of the SP 3800. Machine data, operating modes and selected settings can be retrieved quickly and various parameters can be changed.

The integrated diagnosis system supports safe operation and alerts the operator to the maintenance intervals.



SP 3800 D Stage IV/Tier 4f



High-performance hydraulic system

The open dual-circuit hydraulic system of the SP 3800 converts the high drive power into high pumping power efficiently and with low loss. The 700 litre hydraulic tank provides a long oil service life and a high heat dissipation capacity. As such, even in the case of extreme ambient temperatures, a constantly high pumping power is guaranteed.



MADE IN GERMANY
by SCHWING-Stetter

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The generously dimensioned cooling system provides optimum operational safety and ensures, with its hydrostatically driven ventilator and the large-volume hydraulic tank, maximum pump power even at high temperatures.



Short service times

More productivity with optimum maintenance accessibility: the maintenance flaps of the SP 3800 can be unlocked and opened with only one hand. All maintenance points are easily accessible and the serviceable components are conveniently and ergonomically arranged. The tank nozzles attached to both sides guarantee that the SP 3800 D can be quickly refuelled on any jobsite.



Motors for every need

The SP 3800 has various drives which combine maximum pump output with high efficiency:

- Diesel engine in the IIIA/Tier 3 exhaust emission category
- Diesel engine in the IV/Tier 4f exhaust emission category with diesel particulate filter and SCR system
- Emission-free electric motor of efficiency class IE 3

The ROCK

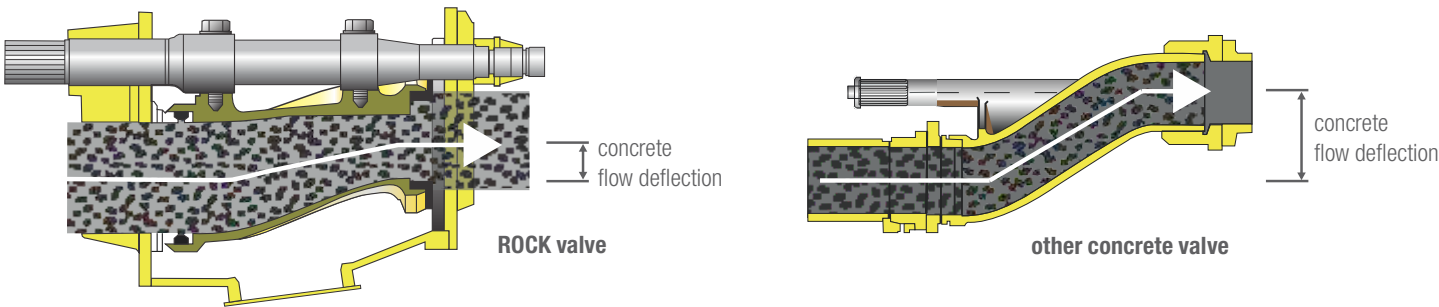
Faster clean with less water.

Due to its straight design, in comparison to other concrete valves, the ROCK valve is easier and quicker to clean. It also provides a direct view into the delivery cylinder and of the pumping pistons. The pump kit can therefore be cleaned easily and conveniently within just two strokes. This saves water and reduces the time needed for cleaning.



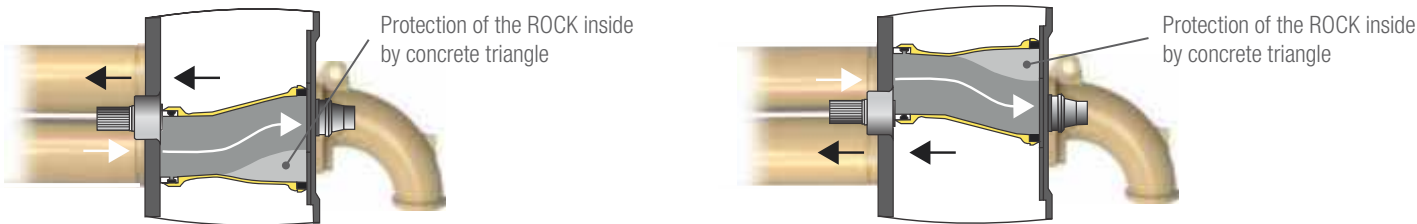
Optimum geometry for low-friction concrete flow.

The smaller the concrete flow is diverted in the concrete valve, the lower the pressure loss and wear at this point. And that is precisely the case with the ROCK valve: its optimum geometry ensures a straight and thus extremely low-friction concrete flow out of the delivery cylinder into the outlet. This reduces wear in the concrete valve and minimises the energy required for the drive. It also ensures the lowest maintenance and operating costs.



Intelligent wear protection.

The wear in the concrete valve is particularly high as the concrete is fed into the outlet at high pressure. In order to minimize this wear, at the most heavily loaded point of the ROCK concrete does not rub on steel, but rather on concrete. This is because the intelligent design of the ROCK leads to the formation of a concrete triangle after each shift. Protected by this concrete layer, the ROCK has a significantly longer service life than other concrete valves. For noticeably more profit per m³.



Options

Outlet options



For the connection of the pipeline chosen for the project (DN 100, DN 125 or DN 150) to the outlet of the SP 3800 (DN 150), suitable output options are available.

Water pump



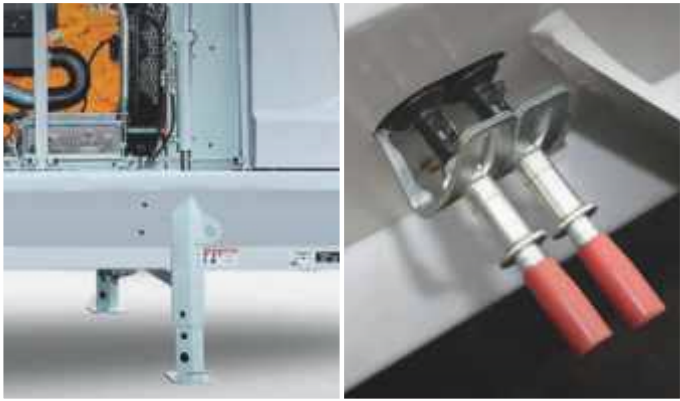
Once the concreting work is finished, the water pump facilitates cleaning of the SP 3800 with up to 80 l/min and up to 20 bar of water pressure.

Hydraulic control unit



Components, such as a shut-off valve, can be easily operated by the SP 3800 (with up to 210 bar and up to 30 l/min) via the hydraulic control unit.

Hydraulic outriggers



With the hydraulic outriggers, the SP 3800 can be jacked up easily and safely. For an exact alignment of the pump the outrigger legs can be controlled individually.

More options		
Floodlight	SmartSwitch	Kompressor
Concrete vibrator on the grid	Radio remote control	Central lubrication system
Standard equipment		
Dual-circuit hydraulic system	Four attachment points at the top	
Double pressure accumulator	Cable remote control with 30 m cable	
Hydrostatically driven fan	Emergency-off button at the hopper and water box	
Fuel tank with double-sided tank nozzles	Batteries 2 x 12 v, each with 143 Ah	
Chromed delivery cylinders	Supporting leg, two-stage	
Cable remote control with 30 m cable	Pressure gauge for hydraulic pressure and for accumulated charge pressure	
Carbide wearing parts		

SP 3800 Stationary concrete pump

Technical data

Designation		SP 3800 D Stage IIIA/Tier 3		SP 3800 D Stage IV/Tier 4f	
Weight	kg	8,300		8,800	
Length (L)	mm	7,270		7,270	
Height (H)	mm	2,820		2,700	
Width (B)	mm	2,180		2,180	
Width (C)	mm	2,760		2,760	
Height (G)	mm	2,150		2,150	
Performance		rod-sided	piston-sided		
Pump kit		P2020			
Delivery cylinders	mm	200 x 2,000			
Concrete output max.	m³/h	100	66		
Pressure on concrete max.	bar	102	162		
Stroke rate max.	1/min.	27	17		
Concrete valve		L-ROCK			
Hydraulic system					
Design		open system, dual-circuit hydraulics			
Hydraulic tank	l	700			
Motors					
Engine type		Diesel CAT C7.1		Diesel CAT C7.1	
Engine power	kW	205		205	
Emission standard		Stage IIIA/Tier 3		Stage IV/Tier 4f	
Emission control system		-		DPF + SCR	
Fuel tank	l	400		400	

SP 3800 Stationary concrete pump

Designation		SP 3800 E (50 Hz)		SP 3800 E (60 Hz)	
Weight	kg	8,500		8,500	
Length (L)	mm	7,270		7,270	
Height (H)	mm	2,420		2,420	
Width (B)	mm	2,180		2,180	
Width (C)	mm	2,760		2,760	
Height (G)	mm	2,150		2,150	
Performance		rod-sided	piston-sided	rod-sided	piston-sided
Pump kit		P2020		P2020	
Delivery cylinders	mm	200 x 2,000		200 x 2,000	
Concrete output max.	m³/h	100	65	113	74
Pressure on concrete max.	bar	102	162	102	162
Stroke rate max.	1/min.	27	17	30	20
Concrete valve		L-ROCK		L-ROCK	
Hydraulic system					
Design		open system, dual-circuit hydraulics			
Hydraulic tank	l	700			
Motors					
Engine type		Electric motor		Electric motor	
Engine power	kW	200		240	
Frequenz	Hz	50		60	
Efficiency class		IE3		IE3	

DPF: Diesel particulate filter; SCR: selective catalytic reduction
Performance specifications are maximum theoretical values.

