

SPP iBoost!

INTELLIGENT MONITORING AND ENERGY SAVING PRESSURE BOOSTER SYSTEM BY SPP PUMPS



"Engineered Pumping Solutions Focused on Markets where Application Knowledge, Service and Expertise Add Value"

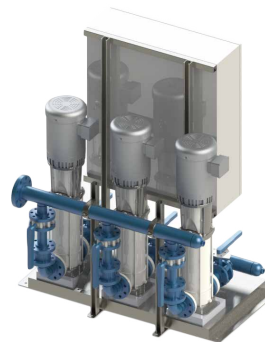
For more than 130 years SPP Pumps has been a leading manufacturer of centrifugal pumps and associated systems, a global principal in design, supply and servicing of pumps, pump packages and equipment for a wide range of applications and industry sectors.

SPP pumps and systems are installed in all continents providing valuable high integrity services for diverse industries, such as oil and gas production, water and waste water treatment, power generation, construction, mines and for large industrial plants.

SPP iBOOST!

SPP iBoost! is designed to work with 2 up to 6 pumps which brings you reliable, intelligent and energy optimum pump hydro pneumatic pressure booster systems for high rise buildings, commercial complexes, schools and public areas.

All our systems can be configured on and off line and monitored in the free cloud service of SPP Pumps.



TYPICAL APPLICATIONS:

- Sanitary
- Industrial water
- Drinking water
- Small RO based water treatment units

SPP iBOOST!

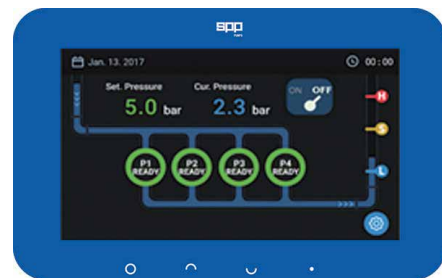
KEY FEATURES OF SPP iBOOST!

Our SMVR pumps are uniquely programmed and fully integrated with our intelligent controller INJ-7000 (includes M70T and INJ-S100) and the unique features are:

- Limited parameters: easy to configure, operational simplicity, limited parameter setting and programmed to work with only pump application.
- No need for additional PID controller: Our intelligent controller is embedded within the inverter there is no need to have an additional PID controller in-front of the panel. In a traditional panel PID controller and a general inverter are inside the panel, if there is a malfunction with the PID controller, the inverters will stop all operation. However, with SPP i boost intelligent controller this will never happen because controller is embedded in the VFD. This results in OPTIMUM operations and highest possible energy savings.
- Compact design and easy to operate
- M70T module enables connect to our cloud based application.
- SPP SMVR are highly reliable pumps with proven test record. Special features are 100,000 hours bearing life and high integrity mechanical seal.
- All headers are made from stainless steel ensuring optimum hygienic
- Possibility to split the last pump in 2 to save further energy cost
- High reliability and 5 years warranty as standard
- Factory inspected system – at site simply plug and operate the system
- All protections for reliable operation are built in:
 - *Dry running*
 - *Low water level detection*
 - *Minimum flow stop*
 - *Over/under voltage Inverter*
 - *Pressure setting*
 - *Sensor failure*
 - *Pump overload*

THE SMART HART OF THE SPP iBOOST!

M70T provides an enhanced and comfortable user interface with 7" color LCD Touch screen. It displays several status of the SPP iBoost! system, Alarm report, operating data and supports operation scheduling, data storage, etc.. With an internet modern port within the M70T, our INJUNGTECH Phone/Web Application can be utilized to monitor your pump system anytime, anywhere.



The interface provides easy to use options to configure the system for optimum pump usage. Main features are:

- Displays various information through large LCD.
- Schedule Operation - timely/weekly/monthly
- Records and display operation history (also available in the Cloud)
- Records and displays the alarm history
- Internet application available: IOS/ANDROID
- Supports fully half pump operation

HALF PUMP OPERATION

The main ideology of the half pump system is to utilize 2 small pumps with up to 1~4 big pumps. For example; with a 3 pump system, you would break down one of the pumps into 2 smaller pumps in consideration of the flow of the pump you are dividing.

During the off peak hours, the small pump will operate however, once the pressure demand increases the bigger pump will activate.

Our SPP iBoost! Phone/Web Application can be utilized to monitor your pump system anytime, anywhere.

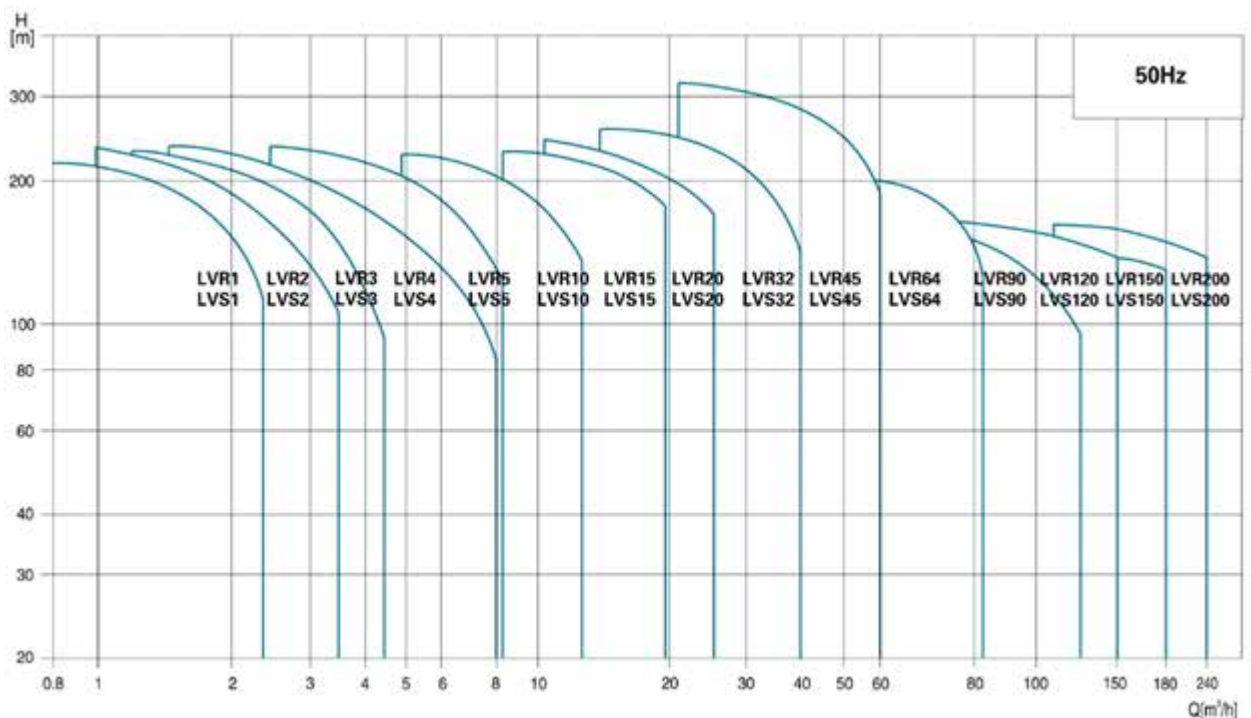


SPP iBOOST!

SMVR – TE iBOOST!



Model	SMV 1	SMV 2	SMV 3	SMV 4	SMV 5	SMV 10	SMV 15	SMV 20	SMV 32	SMV 45	SMV 64	SMV 90
Rated Flow (m³/h)	1	2	3	4	5	10	15	20	32	45	64	90
Flow Range (m³/h)	0.7-2.4	1-3.5	1.2-4.5	1.5-8	2.5-8.5	5-13	8-23	10.5-29	15-40	22-58	30-85	45-120
Max. Pressure (bar)	22	23	24	21	24	22	23	25	28	33	22	20
Min. Motor Power (kW)	0.37	0.37	0.37	0.37	0.37	1.1	1.1	1.1	1.5	3	4	5.5
Max. Motor Power (kW)	2.2	3	3	4	4	7.5	15	18.5	30	45	45	45
Temperature Range (°C)	-20 °C up to 120 °C (please refer to the specific pump capacity for max. permissible pressure and liquid temperature)											
Max. Pump Efficiency (%)	45	46	55	59	60	65	70	72	78	79	80	81
Pipe Connection SMVR												
Oval Flange	G1	G1	G1	G1 1/4	G1 1/4	-	-	-	-	-	-	-
DIN Flange	DN25	DN25	DN25	DN32	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100
Pipe Connection SMVS												
Oval Flange	-	-	-	-	-	-	-	-	-	-	-	-
DIN Flange	DN32	DN32	DN32	DN32	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100
Clamp Connector	φ 42	φ 42	φ 42	φ 42	φ 42	-	-	-	-	-	-	-



FOR WHERE IT REALLY MATTERS ACROSS THE GLOBE

At our main manufacturing centre in the UK we strive to develop the best products using high quality engineering and manufacture. Engineered and developed to the most rigorous standards, our products are then tested in our purpose built facility that incorporates a 1.4 million litre reservoir. It's no surprise that our products are commonly regarded as the best in the industry.



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SPP Pumps reserve the right to continually develop and improve products. Information contained herein is for guidance only and subject to change. SPP Pumps Ltd accept no liability whatsoever for any damages either direct or consequential resulting from the use of such information.

* Applies to: Coleford Manufacturing Site, Northern Service Centre and Wales & West Service Centre. SPP Pumps are proud to be working towards achieving this accreditation at all sites.

