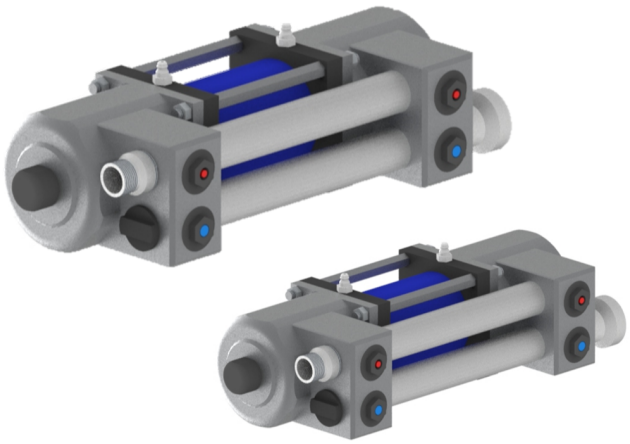
SMARTFLOW™ PUMP SERIES

PUMPS FOR MICROBALLOON & CHEMICALLY SENSITISED EMULSIONS

PRODUCT DESCRIPTION

The iMining SMART**FLOW**™ pump series has been designed to meet the safety needs of the explosives industry, significantly reducing friction and energy losses in the pump and preventing heat build-up and deterioration of emulsion during pumping operations. This allows SMART**FLOW**™ pumps significant safety and operational advantages over progressive cavity and gear pumps due to their positive displacement diaphragm design. Pumps are available for use on existing machinery or in conjunction with iMining Charging units.



SMART**FLOW**™ pumps are available in three sizes allowing for use in underground, surface loading operations as well as in transfer and logistics applications.

T-series configuration - For the transfer of emulsions between transfer vessels as well as for the loading of microballoon sensitised emulsions into blastholes.

S-series configuration - Customisable to deliver predetermined quantities of emulsion and chemical sensitiser. Emulsion and sensitiser are isolated within the pump preventing any possible reaction before entering the loading hose.

SMARTFLOW™ S-Series	**SPD1 (1 inch)**	**SPD2 (2 inch)**	**SPD3 (3 inch)**
Max flow rate (L/min)	40	170	300
Max pressure (Bar)	50	15	12
SMARTFLOW™ T-Series	**TPD1 (1 inch)**	**TPD2 (2 inch)**	**TPD3 (3 inch)**
Max flow rate (L/min)	40	170	300
Max pressure (Bar)	5 - 50	5 - 15	5 - 12

DESIGN FEATURES

- Positive displacement diaphragm pump technology significantly improves the safety of pumping operations
- Pre-set pressure and flow from the SMART**FLOW**™ pump
- T-series pump - delivery of base and microballoon sensitised emulsion
- S-series pump- delivery of emulsion and chemical sensitiser for emulsion during charging operations
- Compatible with BLAST**IT**™ controller to provide transparency of information including flow rate, density, pressure and temperature

BENEFITS

- Increased safety in explosives pumping operations
- Significant reduction in charging unit complexity and capital outlay
- Compatible with chemically sensitised and microballoon formulations
- Pre-set mixing configurations for consistent pump performance
- Simplified maintenance requirements

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