

Concrete Additives




directflo
Central flow technology

Application: **Concrete additives dosing**

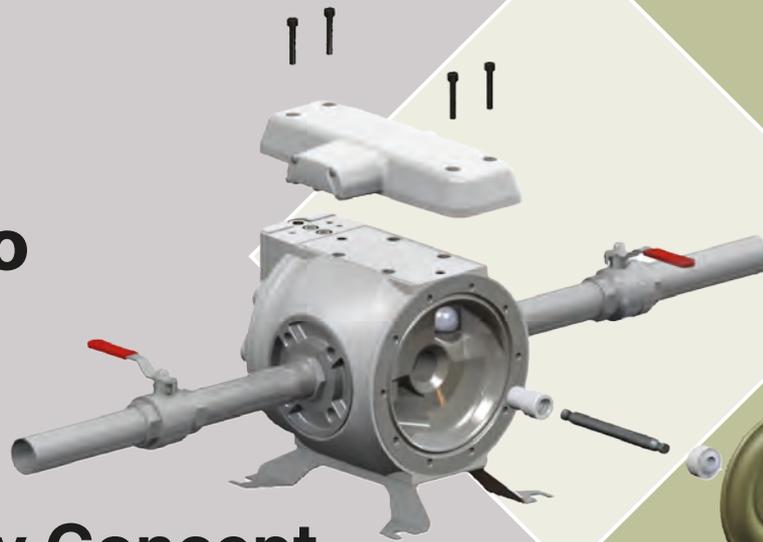
Concrete preparation incorporates cement, water and aggregates, and different types of additives are added depending on its intended purpose. These additives modify the physical properties of the conglomerate materials.

Additives are chemicals classified as corrosive fluids, aqueous solutions from different raw materials with suspended solids and a wide pH scale. These liquid additives are pumped and dosed from the tanks they are stored in, to the loading mouth, where the production cycle of concrete in a liquid state takes place.

Additive dosing pumps work in a system composed by two pumps for each additive, one for suction and one for impulsion. The first, leads the additive from the tank to a metering glass and, the second, drives the additive from the metering glass to the point of consumption. These pumps are assembled in a box.

Benefits: **Installing Directflo® Pneumatic pumps**

- ✓ Able to work 24 hours a day, providing the same behaviour and efficiency in pumping and dosing additives.
- ✓ Lower pulsations, even flow, maximum dosage precision.
- ✓ Low-maintenance, cost reduction at production facility.
- ✓ Very easily repaired, assuming it was required.
- ✓ Effortless access to pneumatic motor, membranes and balls.
- ✓ Minimum risk of additive leakage.
- ✓ Greater membrane life due to the pump concept, here, membranes are suspended, hence they won't wear down as much as they would in conventional designs.
- ✓ Lower air consumption than conventional pumps.



Better by Concept

Greater performance

- ✓ High dry suction capacity
- ✓ Ice will not be formed
- ✓ Pulse reduction
- ✓ You can adjust the flow rate and outlet pressure, just by adjusting the air pressure

Reliability

- ✓ Highest reliability at ignition
- ✓ The pump won't stop
- ✓ Capable of working with dry, damp, lubricated or even dirty air
- ✓ The one-piece pump body guarantees leakage absence

Efficient consumption

- ✓ Lower air consumption
- ✓ Head loss reduction inside the pump

Compact design

- ✓ Pump body in one piece
- ✓ Integrated silencer

Pumping smoothness

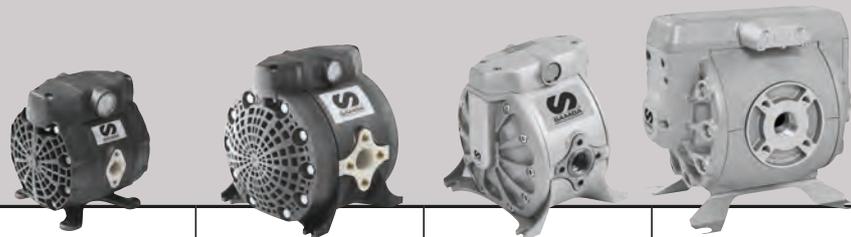
- ✓ Gentle pumping
- ✓ Lower pulsations
- ✓ Lower vibrations

Simplicity

- ✓ Quick and simple maintenance
- ✓ Easy handling
- ✓ Adjustable air intake

Durability

- ✓ Top quality materials
- ✓ Longer membrane life
- ✓ Short piston stroke and robust construction



DF SERIES	DF50	DF100	DF100	DF250
MODEL	DF50PPSVSHHBAS	DF100PPSVSHHBAS	DF100AASVSHHBAS	DF250AASVSHHBAS
SIZE	1/2"	1"	1"	1-1/2"
MAXIMUM FREE DELIVERY (l/min)	50	100	100	250
PUMP BODY	Polipropilene	Polipropilene	Aluminium	Aluminium
BALLS	Hytrel®	Hytrel®	Acetal	Acetal
DIAPHRAGMS	Hytrel®	Hytrel®	Hytrel®	Hytrel®