BSG 700

FLOW DATA

Capacity	4,755 – 28,055 GPM*
Flushing flow rate	Min. 3,170 GPM
Average water losses	132.0 GPM
Pressure losses	See selection chart
System pressure	4.4 - 150 psig
Filtration	2 mm
Max particle size	40 mm

* The Bernoulli Filters can also operate at higher flow rate with increased pressure losses.

MECHANICAL DATA

Design pressure	6 barg
Test pressure	8 barg
Design temperature	140° F.
Weight	2,860.0 #
Volume	660.4 gal.
End cover weight	462.0 #
Basket weight	88.0 #

MATERIALS

Body	GRP
Basket	AISI 316L alt Ti
Flushing valve	AISI 316L
Piston	AISI 316L
Disk	Polyacetal
Piston seals	Polyurethane
End cover gasket	EPDM

PNEUMATIC DATA

Air pressure	Min. 90 psig.
Air consumption	25.4 CF/flush cycle free air
Average air consumption	0.6 CFM free air

ELECTRICAL DATA

Power	220 V AC
Consumption	20 W

AUTOMATIC CONTROL

General The Bernoulli Filter is equipped with a differential pressure control which senses the degree of clogging and automatically starts flushing when the basket is clogged to approximately 2/3. The differential pressure switch is connected so that it is independent of the normal throughput and needs no adjustment during operation.

The electronic control also include a timer control with a preflushing and a flushing interval.

External Three potential free contacts for 'FILTER IN OPERATION' , ‘FLUSHING’ and ‘ALARM’ are provided.

Alarm The automatic mode of the operation include two kinds of alarm functions:
1) Restriction in movement of the piston
2) Degree of clogging. The degree of clogging is indicated by a differential pressure switch.

Both kinds of faults give one common external alarm but they are separated in the control panel