

**BSG 150**FLOW DATA

Capacity	220-1,321 GPM*
Flushing flow rate	Min. 140 GPM
Average water losses	1.3 GPM
Pressure losses	See selection chart
System pressure	4.4 - 150 psig
Filtration	0.2 mm - 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	150 psig.
Test pressure	195 psig.
Design temperature	140° F.
Weight	88.0 #
Volume	9.25 gal.
End cover weight	15.4 #
Basket weight	6.6 #

MATERIALS

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

PNEUMATIC DATA

Air pressure	Min. 90 psig.
Air consumption	0.14 CF/Flush cycle free air
Average air consumption	1.4 CFM free air

ELECTRICAL DATA

Power	220 V AC
Consumption	10 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.

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