

## BSS 250

### FLOW DATA

Capacity	705-3,725 GPM*
Flushing flow rate	Min. 413 GPM
Average water losses	7.0 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	180° F.
Weight	462.0 #
Volume	39.6 gal.
End cover weight	110.0 #
Basket weight	11.0 #

### MATERIALS

Body	AISI 316L
Basket	AISI 316L
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	3.0 CF/flush cycle free air
Average air consumption	0.07 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.