

BSP 80

FLOW DATA

| | |
|----------------------|---------------------|
| Capacity | 66-365 GPM |
| Flushing flow rate | Min. 40 GPM |
| Average water losses | 0.22 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 | 104° F. |
| Weight | 37.4 # |
| Volume | 2.1 gal. |
| End cover weight | 4.4 # |
| Basket weight | 1.1 # |

MATERIALS

| | |
|------------------|-----------------|
| Body | PVC |
| Basket | AISI 316L or 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 | 0.003 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.
