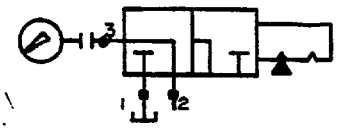
INDEX TO MISCELLANEOUS
SCREW-IN CARTRIDGE COMPONENTS
(DS 84950 - DS 84953)

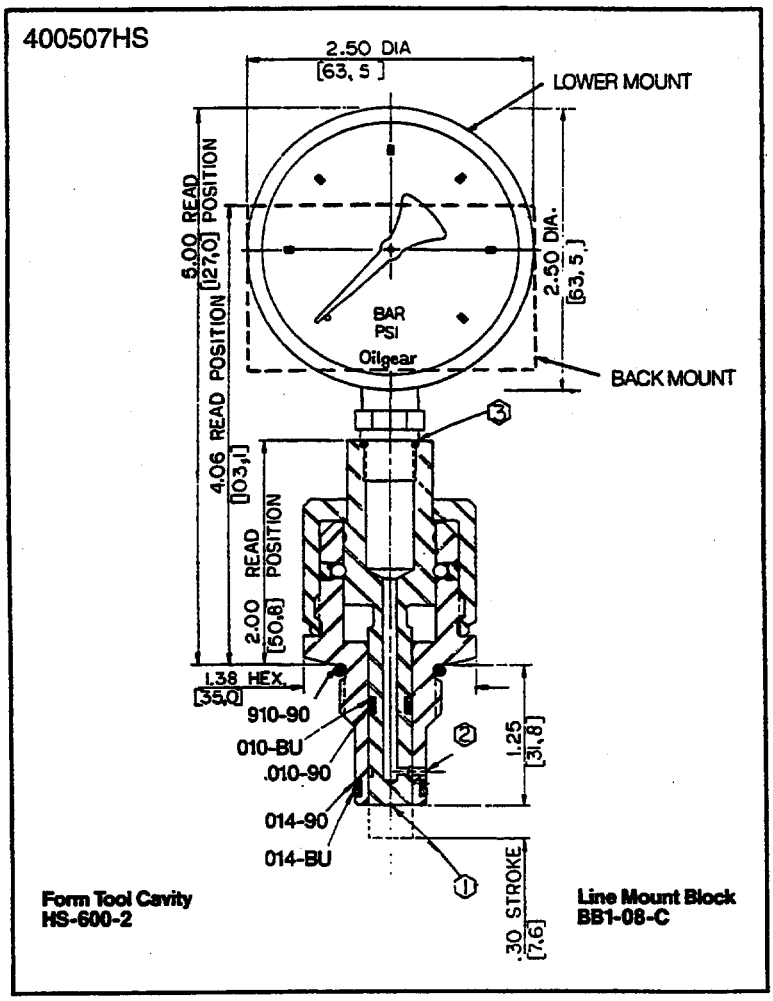
VALVE, SCREW-IN CARTRIDGE

HSPTR600

ENGINEERING | 1



Data Sheet — **Pull to Read Gauge Isolator**



Application

The HSPTR cartridge provides a convenient method of installing and activating pressure gauges in a system for monitoring or trouble shooting that system.

Operation

When the gauge is pulled to the "out" detent position (as shown), port 2 is connected to port 3 and gauge reads pressure. When the gauge is pushed to the "in" detent position, port 3 is connected (through spool) to port 1 (drain).

Features

Convenient pressure monitoring while saving wear-and-tear on the gauge (that would occur if continuously engaged in circuit). The valve has a built-in orifice ("snubber") gauge protection. The cartridge is constructed of steel parts. Operating parts are hardened and ground as required. Cartridge is designed for easy service or field repair. Available for 0.25 NPT or number 4 SAE gauges.

Specifications

Gauges are dual calibrated in psi and bar
Maximum operating pressure—See "How To Order"
Viscosity range—27-30 SSU at 100°F
35-2000 SSU at 100°F
Seals—Viton
Operating temperature—-40°F to 350°F (-39,6°C to 175°C)
Filtration—Maintain SAE Class 6, ISO 18/15
Seal kit—HSSK-600-E

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Fax: (414) 327-0532

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Milwaukee, WI USA 53219

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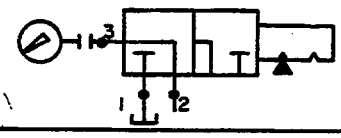
DS 84950-C13.1

Oilgear

VALVE, SCREW-IN CARTRIDGE

HSPTR600

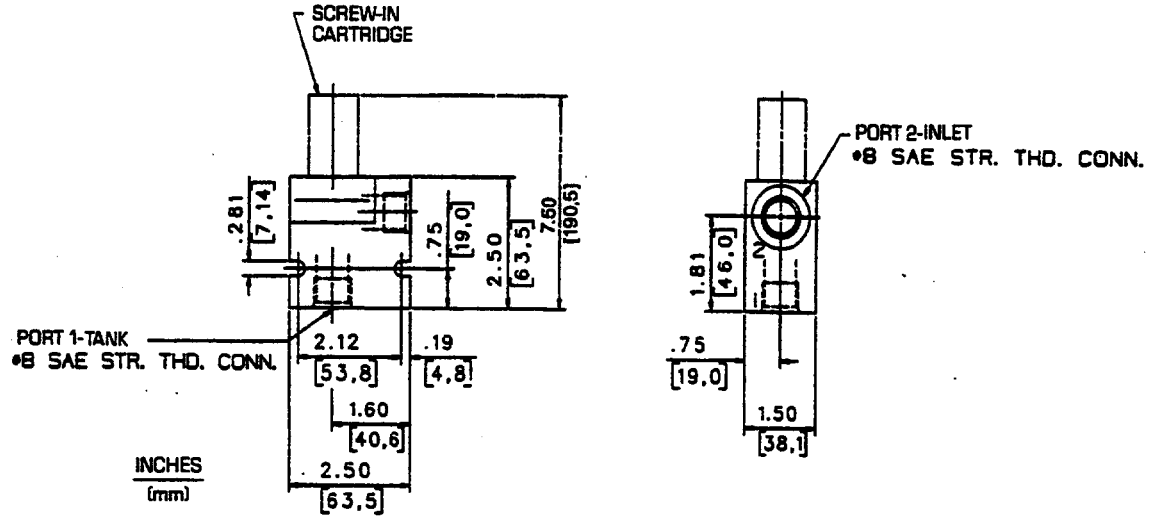
ENGINEERING | 2



Data Sheet — **Pull to Read Gauge Isolator**

Line Mount Specifications

HSPTR600/BB1-08-C



How To Order

Screw-In Cartridge Only

HSPTR600-__-__-__

Gauge Mounting	
	No gauge furnished
GL	Lower Mount
GB	Back Mount

Gauge Port	
P	.250 NPT
S	No. 4 SAE Straight Thread

Gauge Pressure Range		
	psi	bar
	No gauge furnished	
04	400	28
10	1,000	70
15	1,500	103
30	3,000	207
60	6,000	414
10K	10,000	690

Note: Operating pressure should be limited to 60% of dial range.

Cartridge With Line Mount Block

HSPTR600-__-__-__- /BB1-08-C

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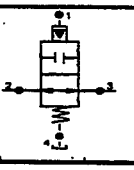
VALVE, SCREW-IN CARTRIDGE

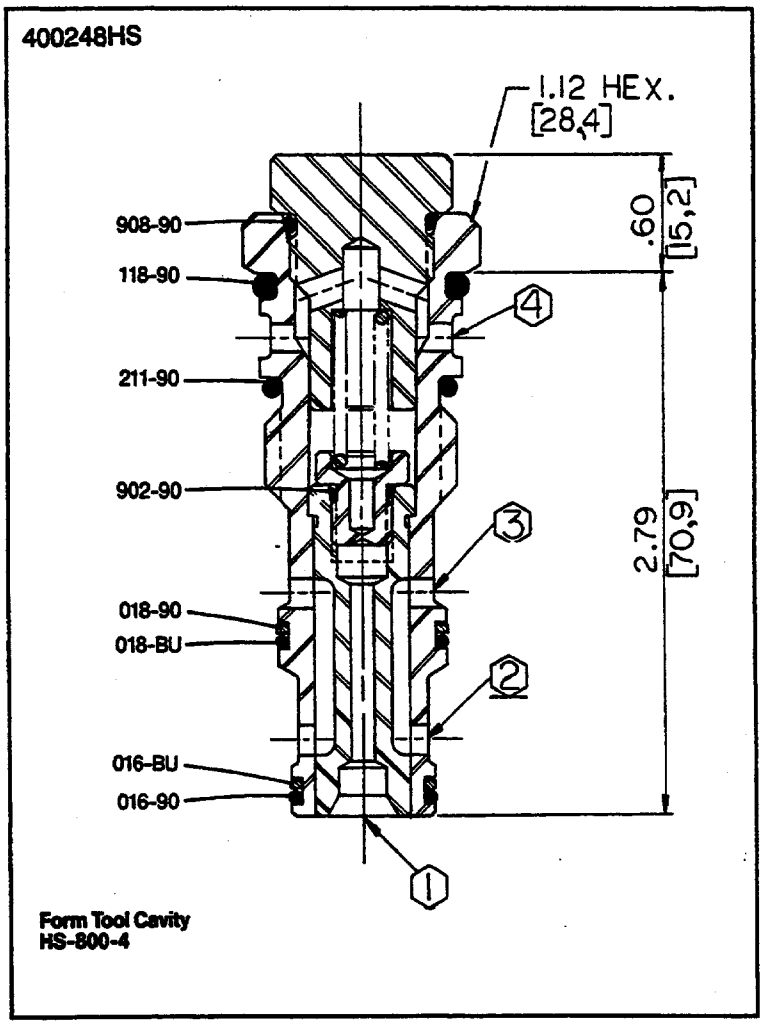
17 USGPM △ 100 PSI
(64,4 LPM △ 6,9 Bar)

HSAD800

ENGINEERING 1



Data Sheet — **Accumulator Dump Valve**



Application

The HSAD cartridge provides a convenient means to automatically "dump" (discharge) an accumulator, for protection during service etc. whenever the pump is shut off.

Operation

The "dump" valve must be used with other components to form an accumulator dump valve system. Whenever the pump is started, pressure at port 1 forces the spool to compress the spring, shutting off flow between ports 2 and 3, thereby blocking discharge to tank and pump supplies system and/or charges accumulator.

A check valve [65 psi (4,5 bar) cracking] must be included in the system to prevent fluid from back flowing, from the accumulator and/or system, and through the pump when pump is stopped. When pump is stopped and pressure drops at port 1, the spring forces the spool to original position (shown) and ports 2 and 3 are connected allowing accumulator fluid to flow to reservoir.

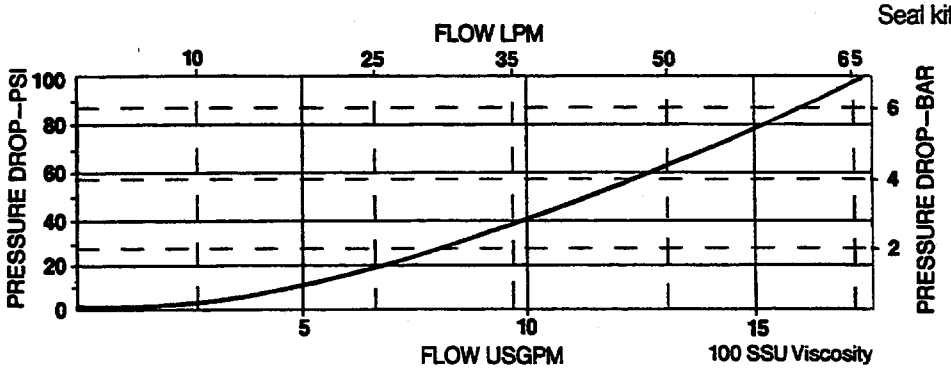
Features

Convenient (automatic) protective operation for maintenance personnel. The cartridge is constructed of steel parts, operating parts are hardened and cartridge is designed for easy service and field repair.

Specifications

Rated flow to—17 USgpm (64,4 lpm)
Maximum operating pressure—
5000 psi (345 bar)
Port 1 pressure to full close valve—
50 psi (3,4 bar)
Viscosity range—27-30 SSU at 100°F
35-2000 SSU at 100°F
Seals—Viton
Operating temperature—-40°F to 350°F
(-39,6°C to 175°C)
Filtration—Maintain SAE Class 6, ISO 18/15
Seal kit—HSSK-800-R

Performance Curves



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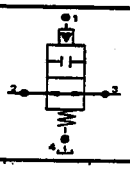
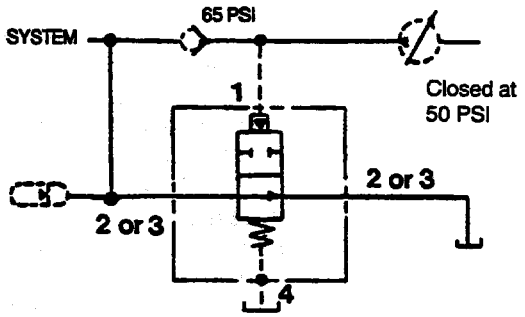


Data Sheet — Accumulator Dump Valve

How To Order

Screw-In Cartridge Only

HSAD800



Typical System

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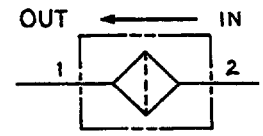
VALVE, SCREW-IN CARTRIDGE

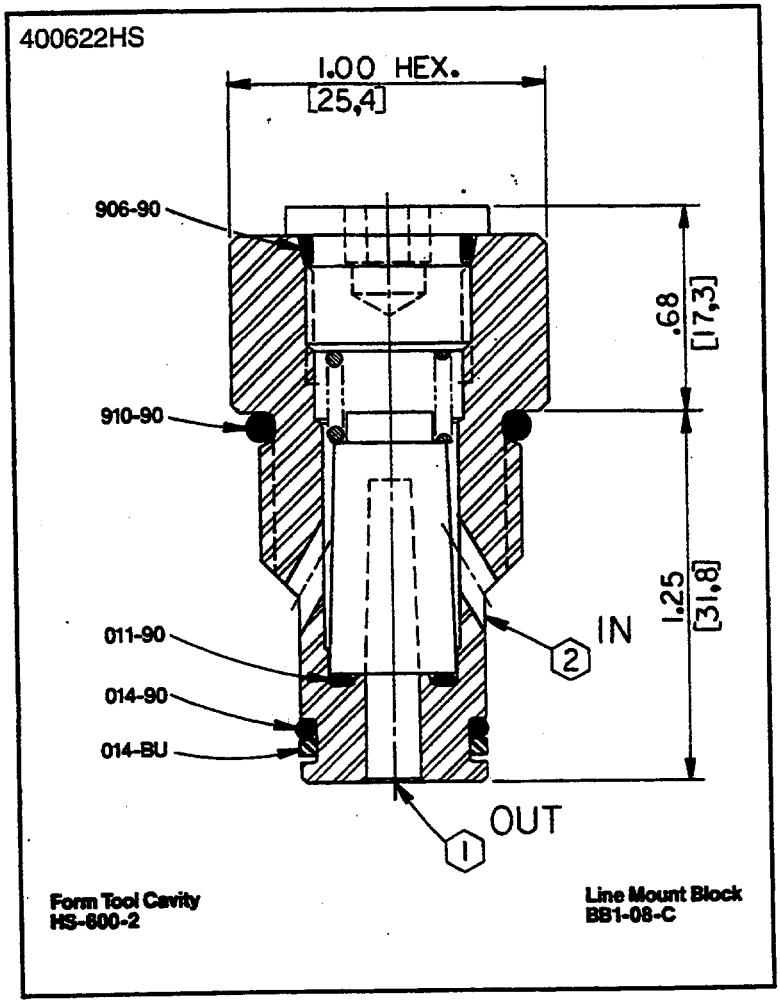
2 USGPM Δ 100 PSI
(7,6 LPM Δ 6,9 Bar)

HSCF600

ENGINEERING | 1



Data Sheet — **Contamination Fuse**



Application

The HSCF cartridge provides a means for filtering pilot flow to highly sensitive proportional and servo valves for reliable operation.

Operation

Flow enters at port 2, passes thru a non-bypass filter element (depositing any particle contamination on that element) and exits the cartridge from port 1.

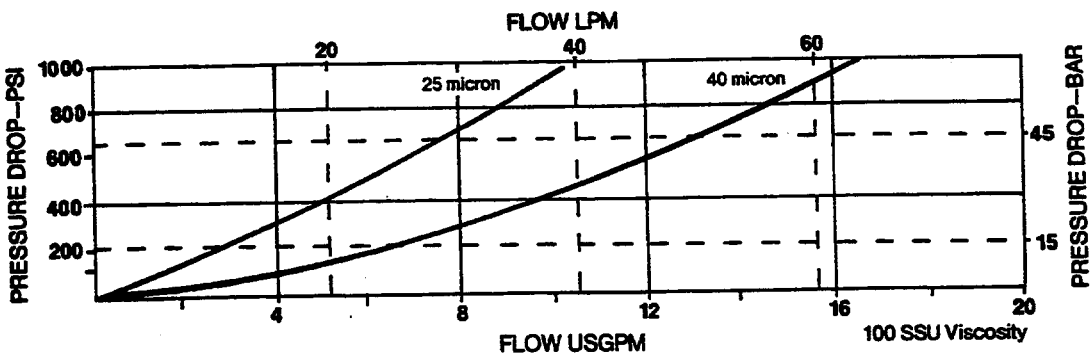
Features

A convenient means of protecting sensitive pilot elements. Filter element is easily removed and replaced or cleared when it becomes clogged. Sintered bronze elements for several microns are available.

Specifications

Rated flow with 40 micron element—
2 USgpm (7,6 lpm)
This is a non by-pass filter
Maximum operating pressure—
5000 psi (345 bar)
Viscosity range—27-30 SSU at 100°F
35-2000 SSU at 100°F
Seals—Viton
Operating temperature—-40°F to 350°F
(-39,6°C to 175°C)
Filtration rating—See "How To Order"
Seal kit—HSSK-600-W
Spare element—HSCF600-E-40

Performance Curve



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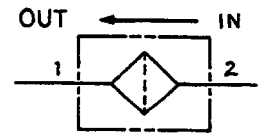
Oilgear

VALVE, SCREW-IN CARTRIDGE

2 USGPM △ 100 PSI
(7,6 LPM △ 6,9 Bar)

HSCF600

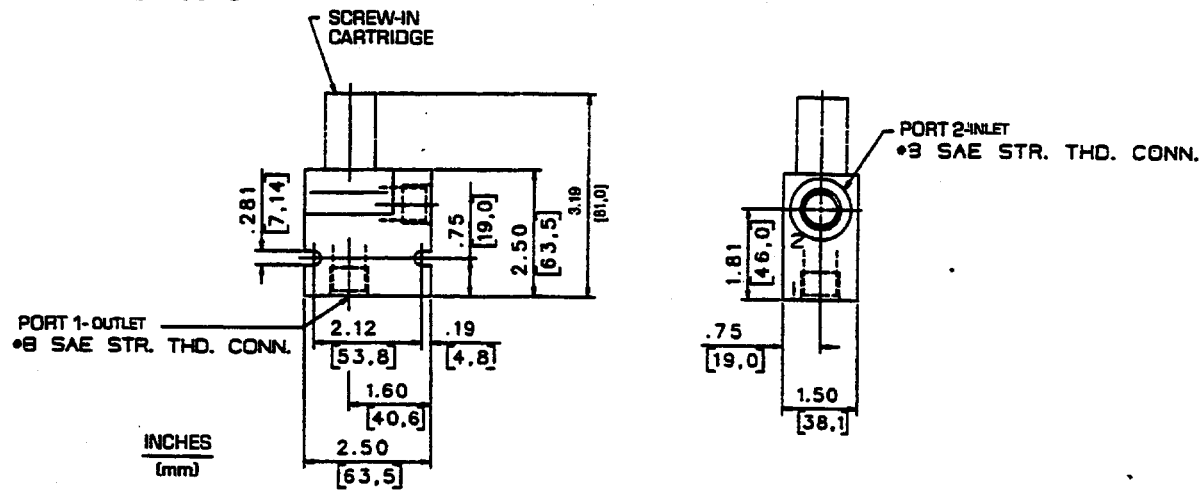
ENGINEERING | **2**



Data Sheet — **Contamination Fuse**

Line Mount Specifications

HSCF600/BB1-08-C



How To Order

Screw-In Cartridge Only

HSCF600-____

	Element Rating
40	= 40 Micron
25	= 25 Micron

Cartridge With Line Mount Block

HSCF600-__/BB1-08-C

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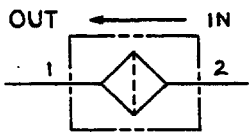
Oilgear

VALVE, SCREW-IN CARTRIDGE

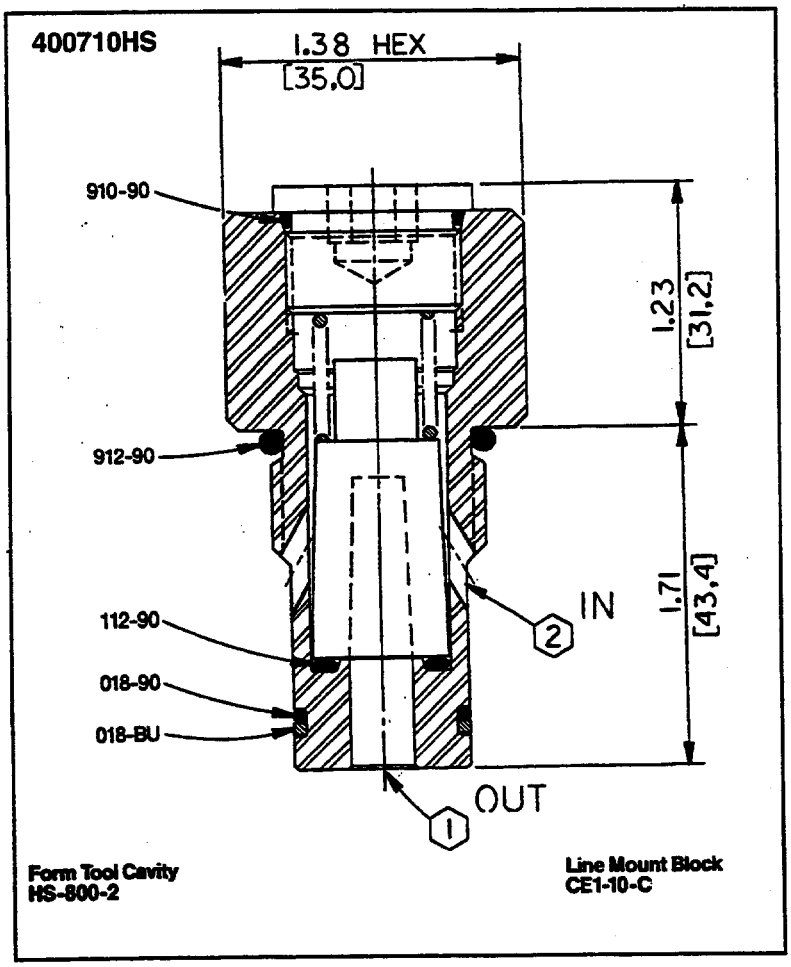
2 USGPM △ 100 PSI
(7,6 LPM △ 6,9 Bar)

HSCF800

ENGINEERING | 1



Data Sheet — **Contamination Fuse**



Application

The HSCF cartridge provides a means for filtering pilot flow to highly sensitive proportional and servo valves for reliable operation.

Operation

Flow enters at port 2, passes thru a non-bypass filter element (depositing any particle contamination on that element) and exits the cartridge from port 1.

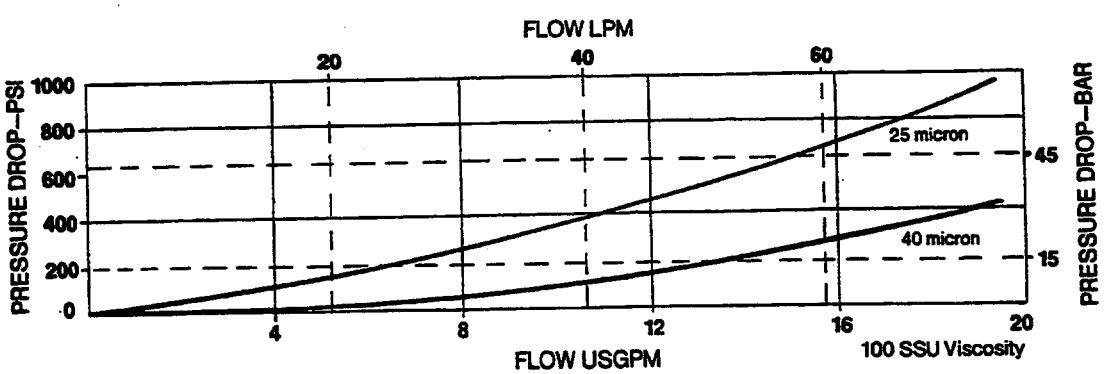
Features

A convenient means of protecting sensitive pilot elements. Filter element is easily removed and replaced or cleared when it becomes clogged. Sintered bronze elements for several microns are available.

Specifications

Rated flow with 40 micron element—
2 USgpm (7,6 lpm)
This is a non by-pass filter
Maximum operating pressure—
5000 psi (345 bar)
Viscosity range—27-30 SSU at 100°F
35-2000 SSU at 100°F
Seals—Viton
Operating temperature—-40°F to 350°F
(-39,6°C to 175°C)
Filtration rating—See "How To Order"
Seal kit—HSSK-800-AA
Spare element—HSCF800-E-40

Performance Curve



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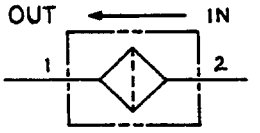
VALVE, SCREW-IN CARTRIDGE

2 USGPM △ 100 PSI
(7,6 LPM △ 6,9 Bar)

HSCF800

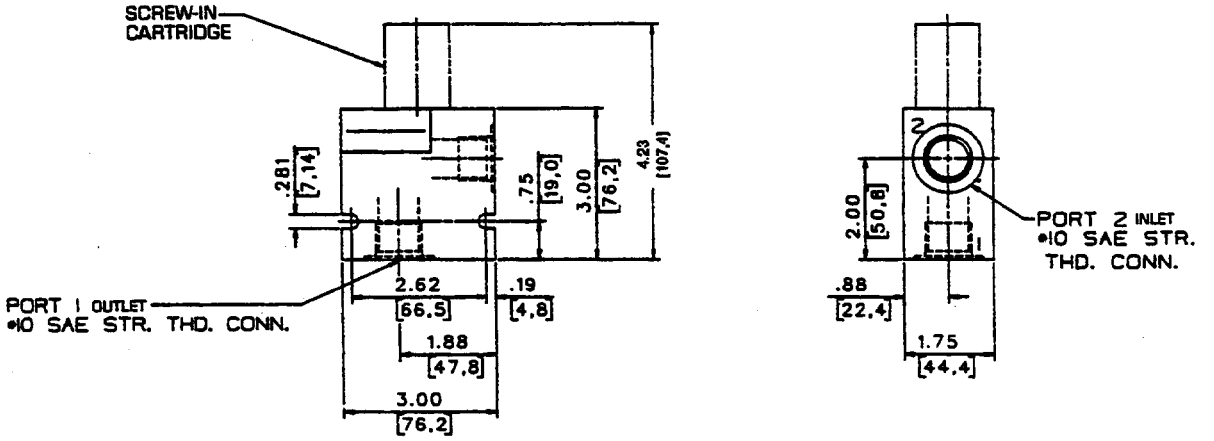
ENGINEERING | 2



Data Sheet — **Contamination Fuse**

Line Mount Specifications

HSCF800/CE1-10-C



How To Order

Screw-In Cartridge Only

HSCF800-___

	Element Rating
40	= 40 Micron
25	= 25 Micron

Cartridge With Line Mount Block

HSCF800-__/CE1-10-C

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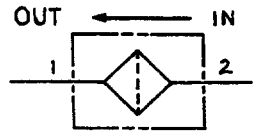
VALVE, SCREW-IN CARTRIDGE

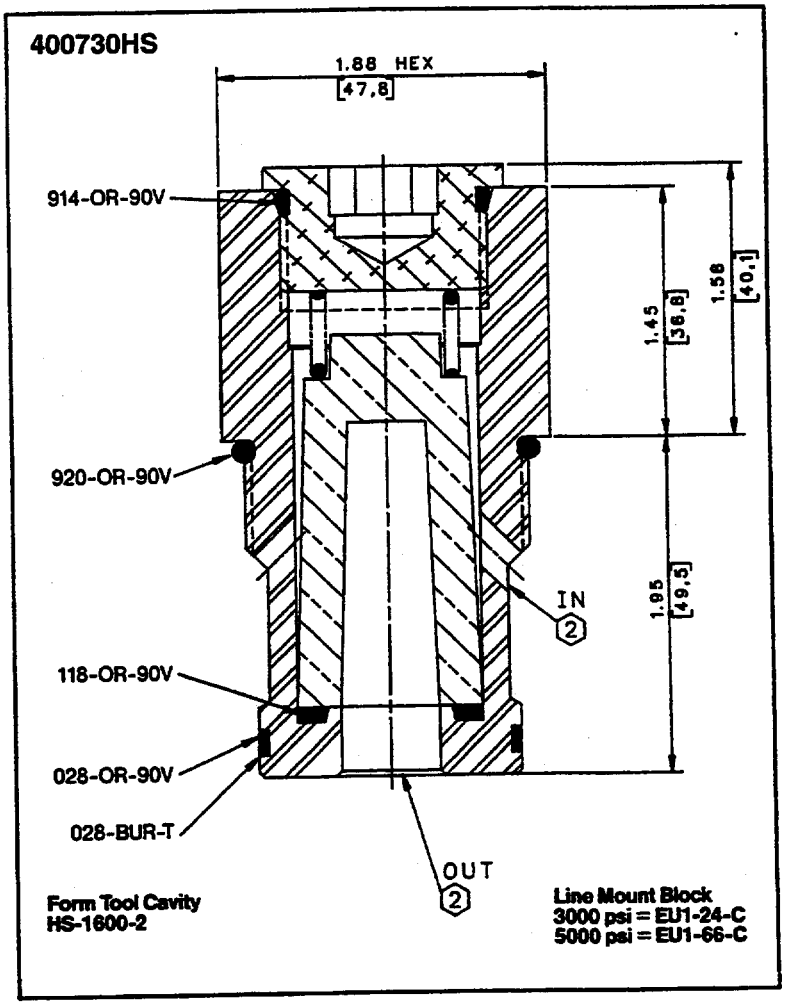
6 USGPM △ 100 PSI
(22,7 LPM △ 6,9 Bar)

HSCF1600

ENGINEERING | 1



Data Sheet — **Contamination Fuse**



Application

The HSCF cartridge provides a means for filtering pilot flow to highly sensitive proportional and servo valves for reliable operation.

Operation

Flow enters at port 2, passes thru a non-bypass filter element (depositing any particle contamination on that element) and exits the cartridge from port 1.

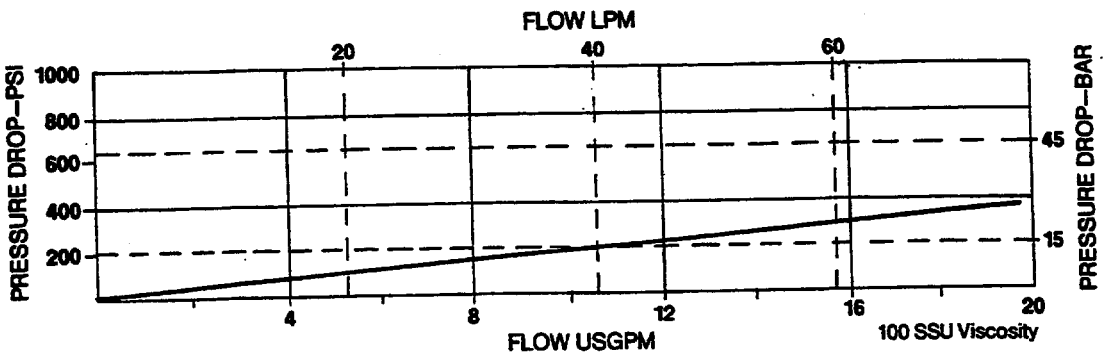
Features

A convenient means of protecting sensitive pilot elements. Filter element is easily removed and replaced or cleared when it becomes clogged. Sintered bronze elements for several microns are available.

Specifications

Rated flow with 25 precision element—
6 USgpm △ 100 psi (22,7 lpm △ 6,9 bar)
This is a non by-pass filter
Maximum operating pressure—
5000 psi (345 bar)
Viscosity range—27-30 SSU at 100°F
35-3000 SSU at 100°F
Seals—Viton
Operating temperature—-40°F to 350°F
(-39,6°C to 175°C)
Filtration rating—25 micron
Seal kit—HSSK-1600-AA
Spare element—HSCF1600-E-25HP
HSCF1600-E-25LP

Performance Curve



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DS 84952-C15.3

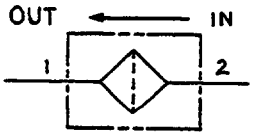
Oilgear

VALVE, SCREW-IN CARTRIDGE

6 USGPM △ 100 PSI
(22,7 LPM △ 6,9 Bar)

HSCF1600

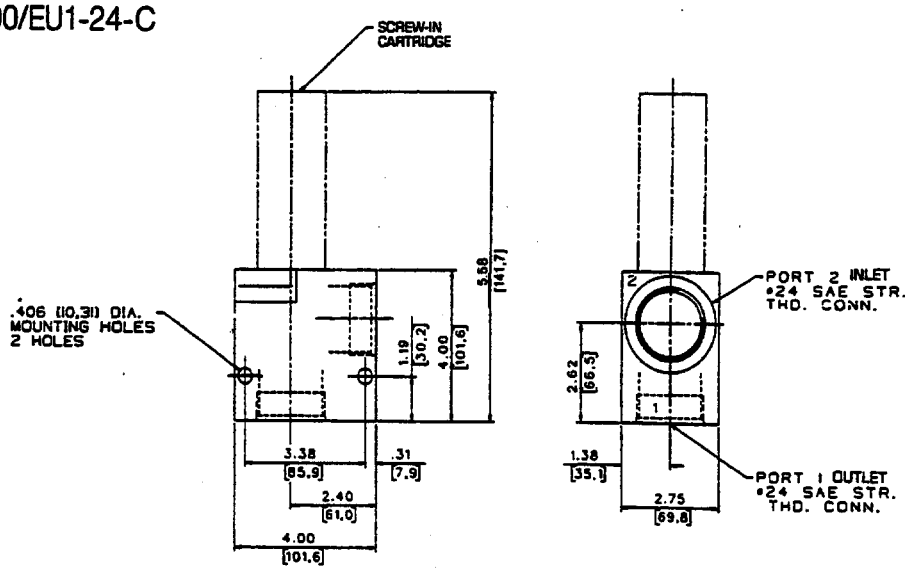
ENGINEERING | 2



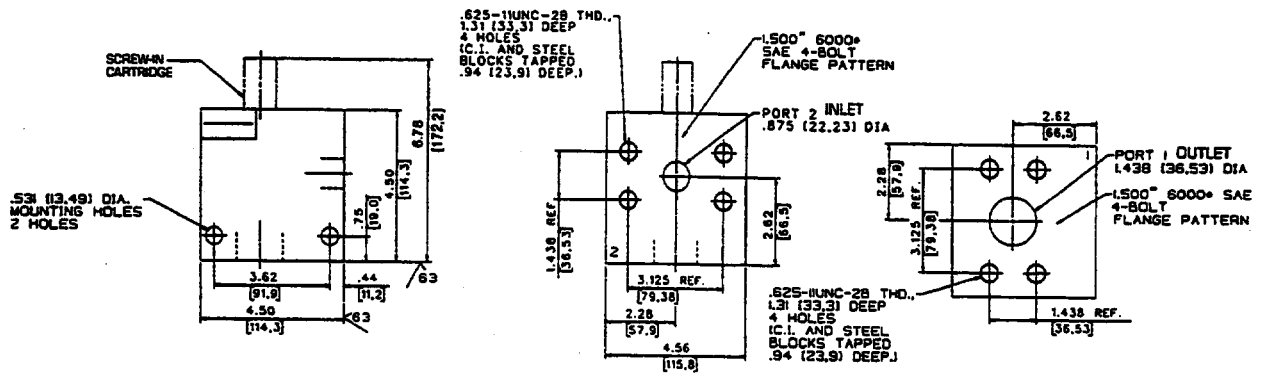
Data Sheet — **Contamination Fuse**

Line Mount Specifications

HSCF1600/EU1-24-C



HSCF1600/EU1-66-C



How To Order

Screw-In Cartridge Only

HSCF1600-____

	Element Rating
25 LP	= 25 micron 1000△P
25 HP	= 25 micron 5000△P

Cartridge With Line Mount Block

3000 psi (207 bar) service pressure
HSCF1600____/EU1-24-C

5000 psi (345 bar) service pressure
HSCF1600____/EU1-66-C

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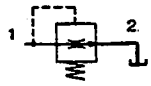
Oilgear

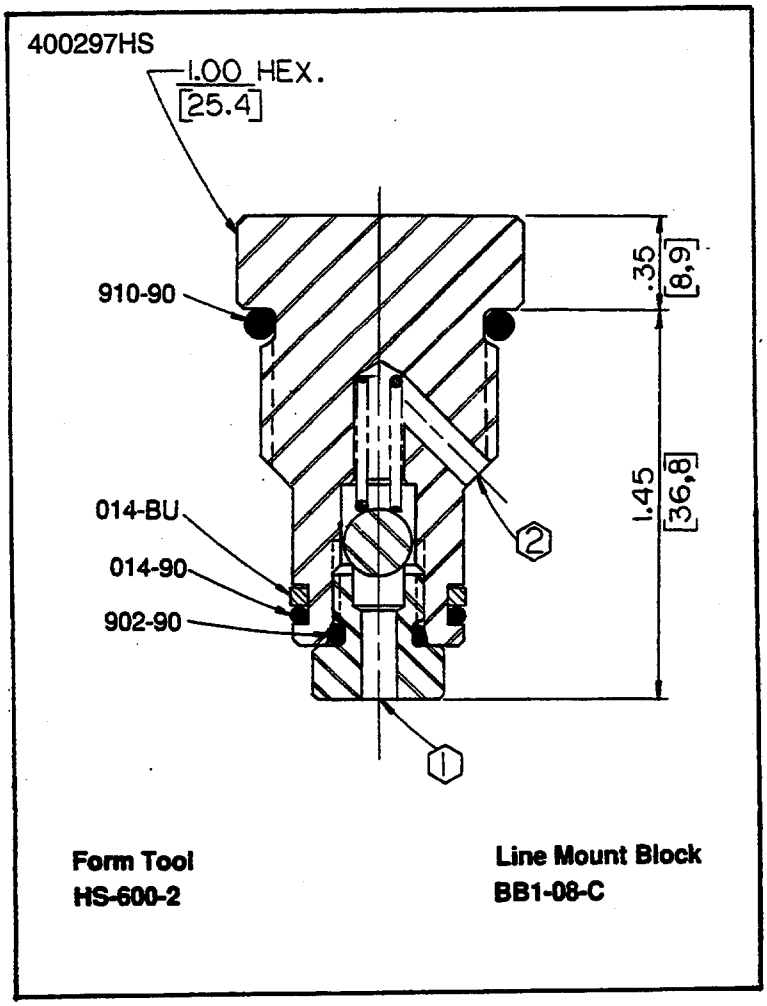
VALVE, SCREW-IN CARTRIDGE

HSAB600

ENGINEERING | 1



Data Sheet — **Automatic Air Bleed Valve**



Form Tool
HS-600-2

Line Mount Block
BB1-08-C

Application

The HSAB cartridge provides a means for removing air trapped in a system or it may be used to provide a means for automatic priming or start-up in a blocked system. The valve should be placed in the highest point of the circuit when used to bleed air from the system. When used for pump priming, the valve should be circuited (teed) upstream from the circuit and as close to the pump outlet as possible. Note: The exhaust line from port 2 must connect to the reservoir below the minimum fluid level.

Operation

The cartridge allows port 1 (air) flow to pass (orifice) around the ball at low "start-up" flow (without raising pressure) and out port 2 to drain. When flow and/or pressure increases (see specifications), the ball is forced against the spring until it seats on the body and automatically shuts off the flow from port 2. Note: This cartridge is recommended only for systems whose minimum operational supply (not on start-up) exceeds those flows and pressures listed in "Specifications". When pump stops and/or system flow and pressure drops, the valve returns to the open position.

Features

The valve provides a convenient way of bringing a pump up to speed under light load and bleeding off air in the system before full pressure is attained. Cartridge is constructed of steel parts, operating parts are hardened and ground as required. Cartridge is designed for easy service or repair.

Specifications

Flow to close bleed valve - 300 cipm (4,92 lpm)
Pressure to close bleed valve - 60 psi (4,1 bar)
Reset pressure (valve opens when system pressure falls under) - 60 psi (4,1 bar)
Maximum operating pressure - 5000 psi (345 bar)
Seals - Viton
Viscosity range - 27-2000 SSU at 100°F
Operating temperature - 40°F to 350°F
-39,6°C to 175°C
Filtration - Maintain SAE Class 6, ISO 18/15
Seal kit - HSSK 600-A

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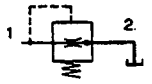
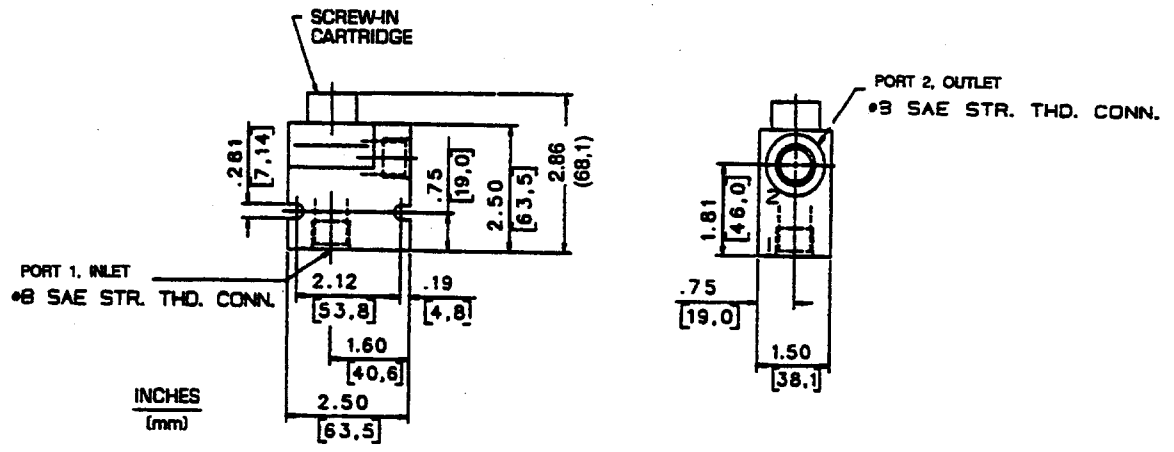
HSAB600



Data Sheet — Automatic Air Bleed Valve

Line Mount Specifications

HSAB600/BB1-08-C



How To Order

Screw-In Cartridge Only

HSAB600

Cartridge With Line Mounted Block

HSAB600/BB1-08-C

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