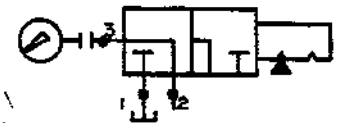


**INDEX TO MISCELLANEOUS
SCREW-IN CARTRIDGE COMPONENTS
(DS 84950 - DS 84953)**

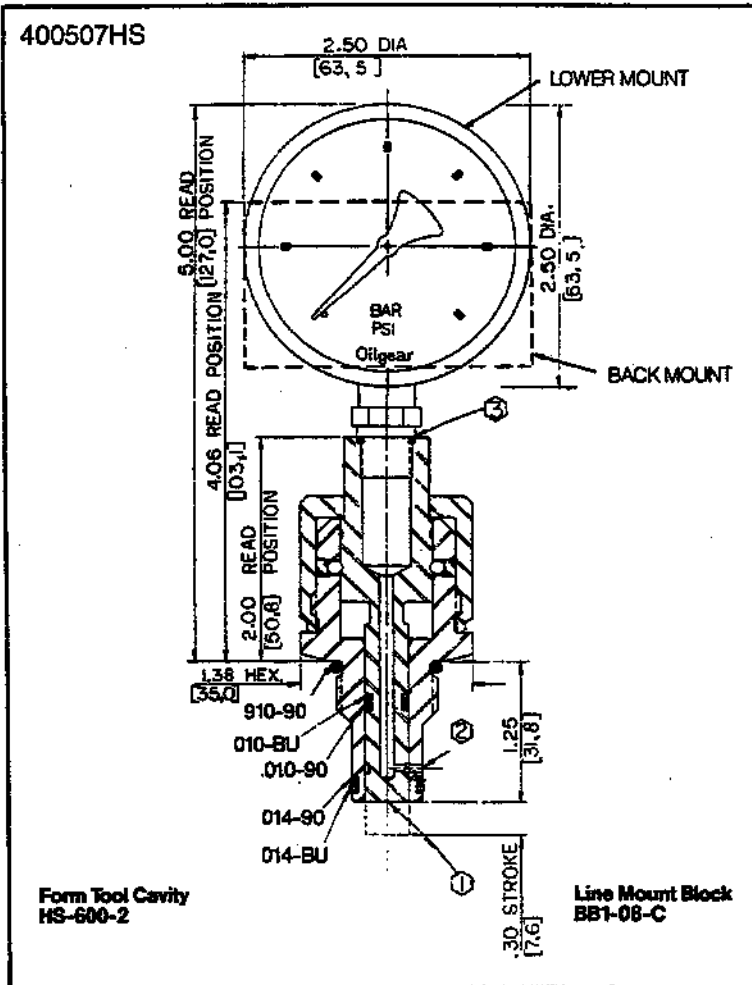
HSPTR600	Gauge Isolator Valve	DS-84950-C13.1
HSAD800	Accumulator Dump Valve	DS-84951-C14.1
HSCF600	Contamination Fuse	DS-84952-C15.1
HSCF800	Contamination Fuse	DS-84952-C15.2
HSCF1600	Contamination Fuse	DS-84952-C15.3
HSAB600	Air Bleed	DS-84953-C16.1

HSPTR600



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).

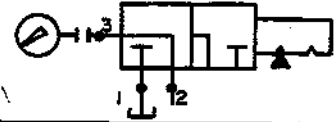
Features

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

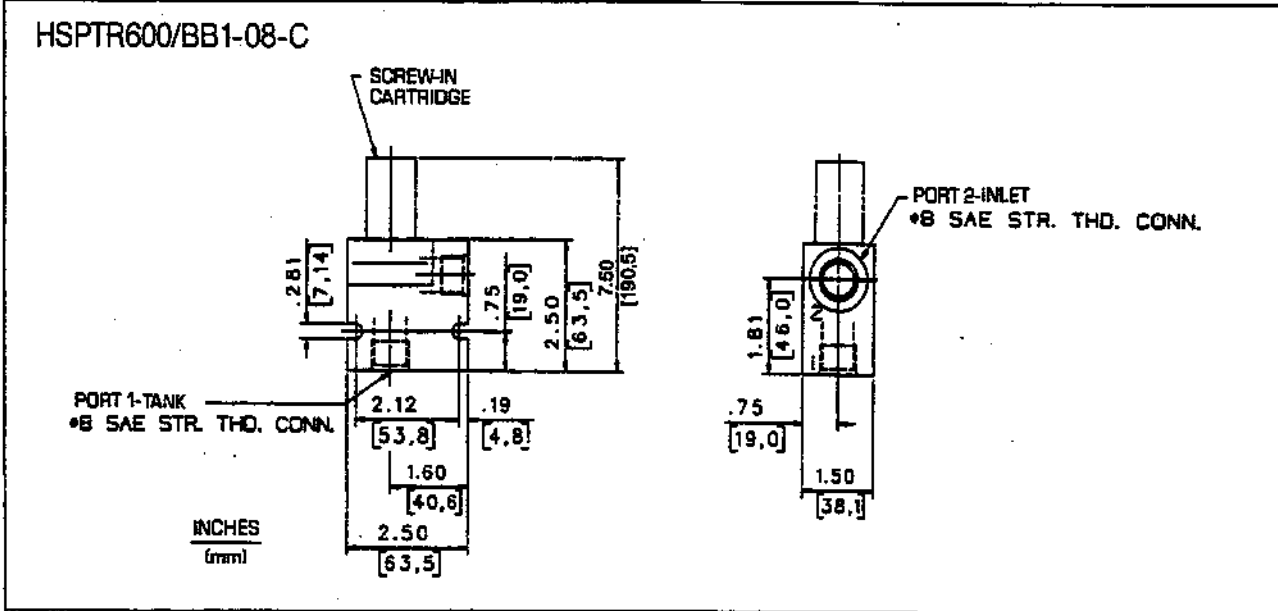
HSPTR600



Data Sheet

Pull to Read Gauge Isolator

Line Mount Specifications



How To Order

Screw-In Cartridge Only

HSPTR600-_-_-_-

Gauge Mounting		Gauge Port		Gauge Pressure Range	
	No gauge furnished	P	.250 NPT	psi	bar
GL	Lower Mount	S	No. 4 SAE Straight Thread	No gauge furnished	
GB	Back Mount			04	400
				10	1,000
				15	1,500
				30	3,000
				60	6,000
				10K	10,000

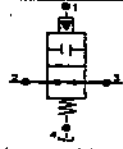
Note: Operating pressure should be limited to 60% of dial range.

Cartridge With Line Mount Block

HSPTR600-_-_-_- /BB1-08-C

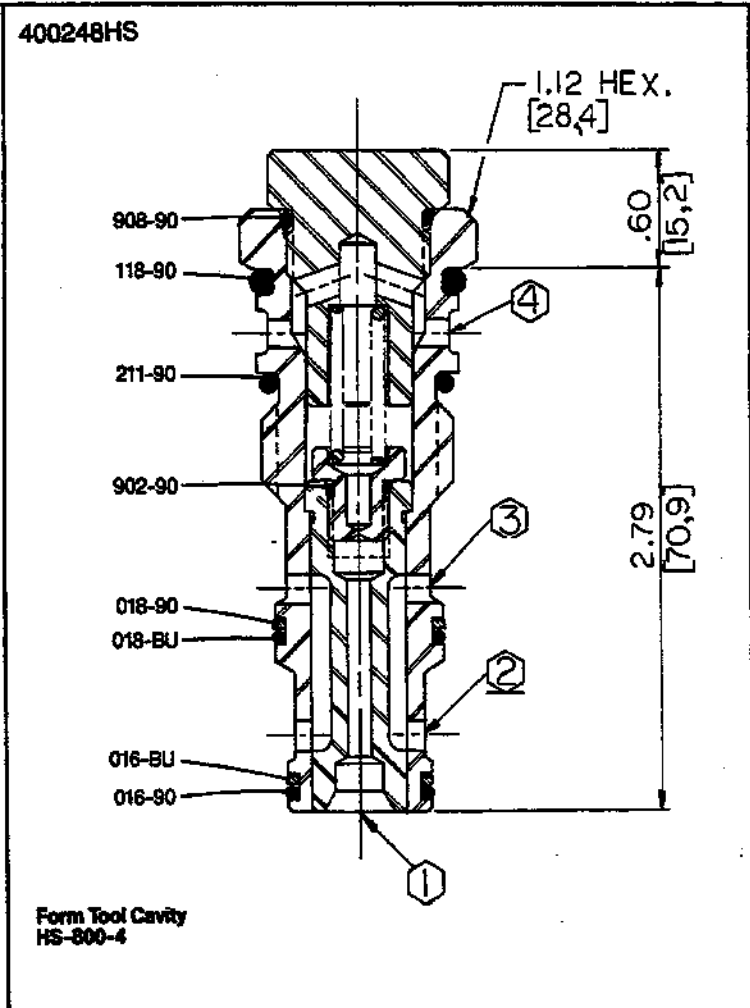
17 USGPM Δ 100 PSI
(64,4 LPM Δ 6,9 Bar)

HSAD800



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

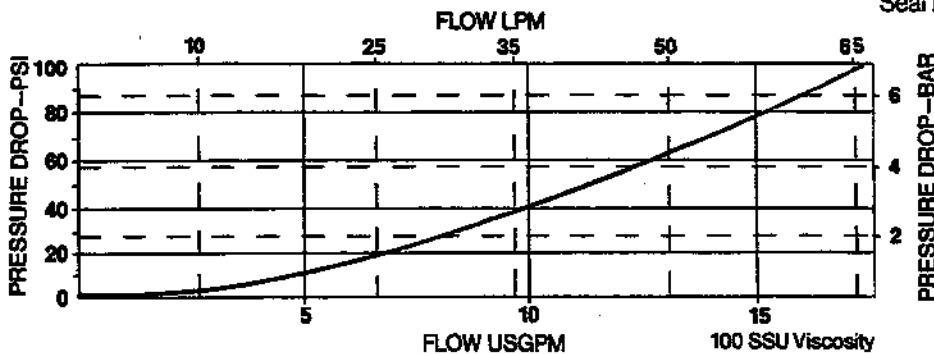
Seals—Viton

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





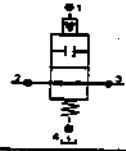
VALVE, SCREW-IN CARTRIDGE

ENGINEERING

2

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

HSAD800



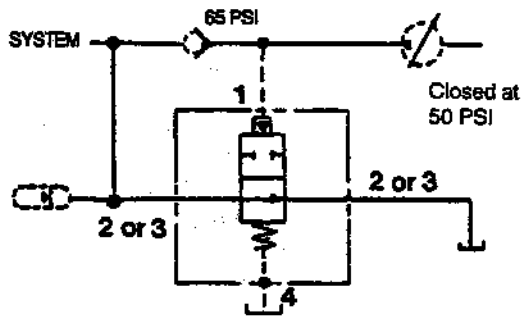
Data Sheet

Accumulator Dump Valve

How To Order

Screw-In Cartridge Only

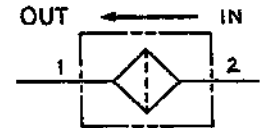
HSAD800



Typical System

2 USGPM Δ 100 PSI
(7,6 LPM Δ 6,9 Bar)

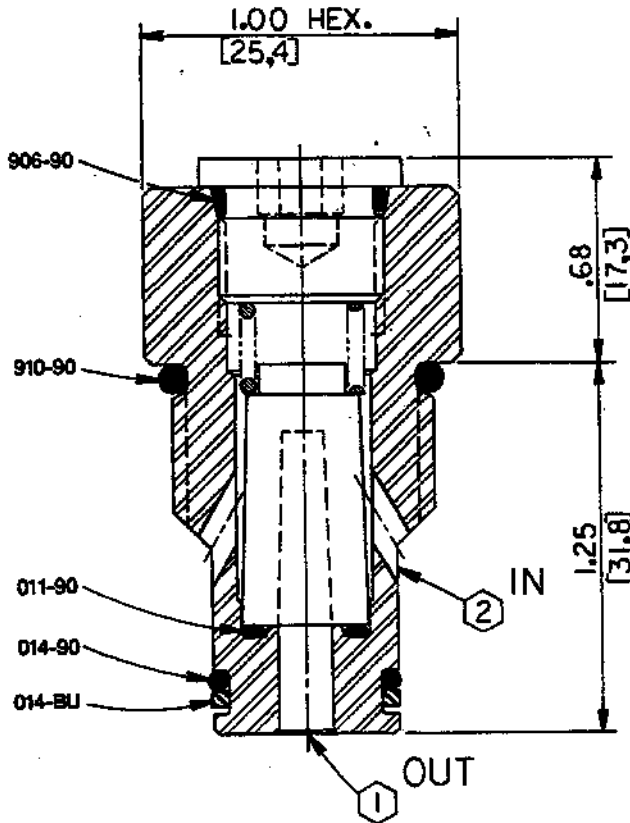
HSCF600



Data Sheet

Contamination Fuse

400622HS



Form Tool Cavity
HS-600-2

Line Mount Block
BB1-08-C

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.

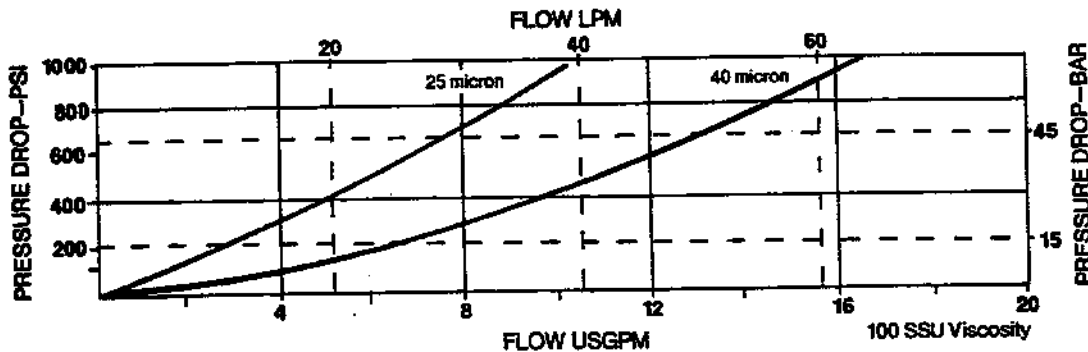
Features

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

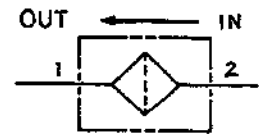
- Rated flow with 40 micron element—
2 USgpm (7,6 lpm)
- This is a non by-pass filter
- Maximum operating pressure—
5000 psi (345 bar)
- Viscosity range—27-30 SSU at 100°F
35-2000 SSU at 100°F
- Seals—Viton
- Operating temperature—-40°F to 350°F
(-39,6°C to 175°C)
- Filtration rating—See "How To Order"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

Performance Curve



2 USGPM Δ 100 PSI
(7,6 LPM Δ 6,9 Bar)

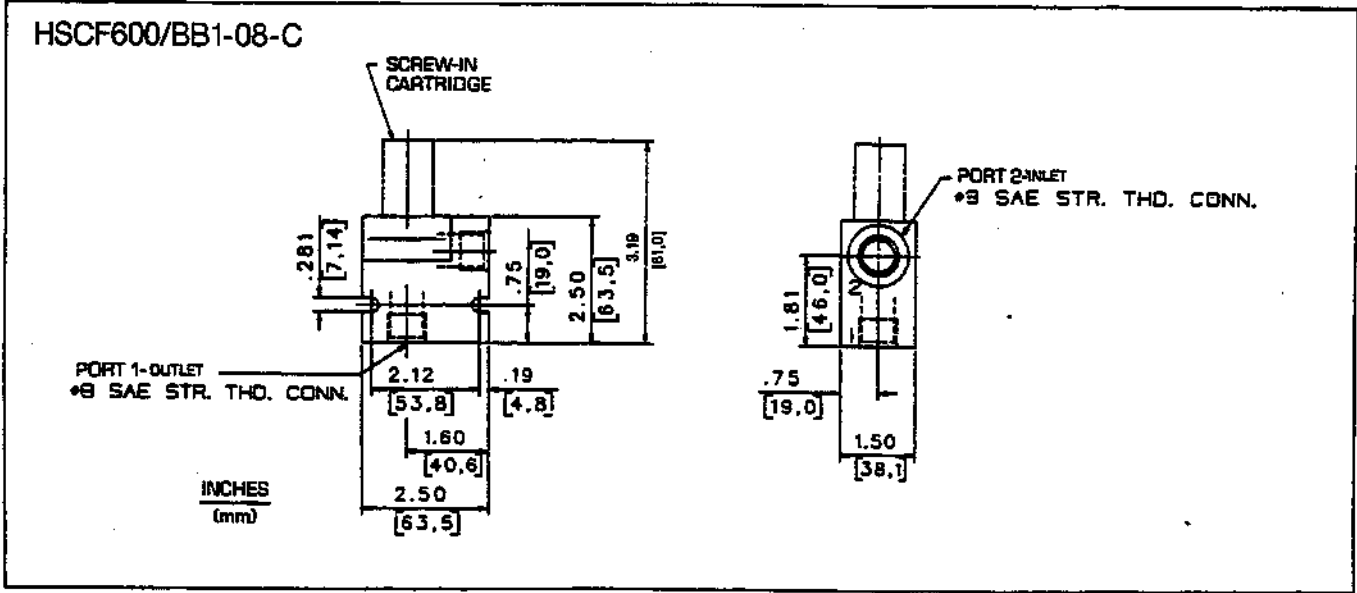
HSCF600



Data Sheet

Contamination Fuse

Line Mount Specifications



How To Order

Screw-In Cartridge Only

HSCF600-_____

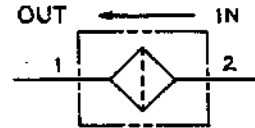
Element Rating	
40	= 40 Micron
25	= 25 Micron

Cartridge With Line Mount Block

HSCF600-___/BB1-08-C

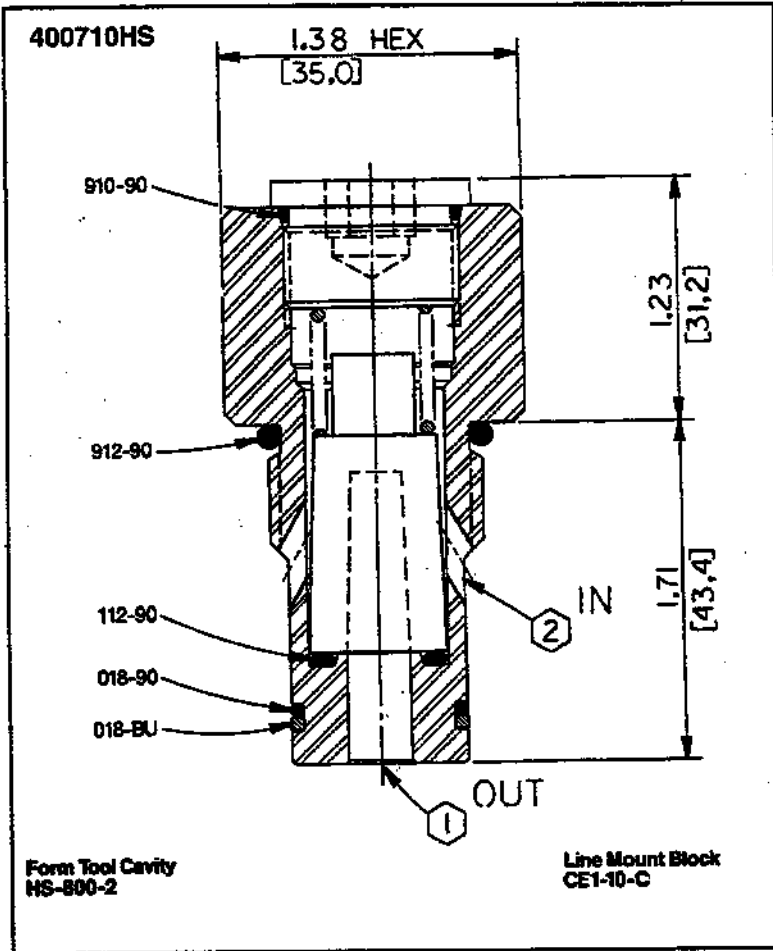
2 USGPM Δ 100 PSI
(7,6 LPM Δ 6,9 Bar)

HSCF800



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.

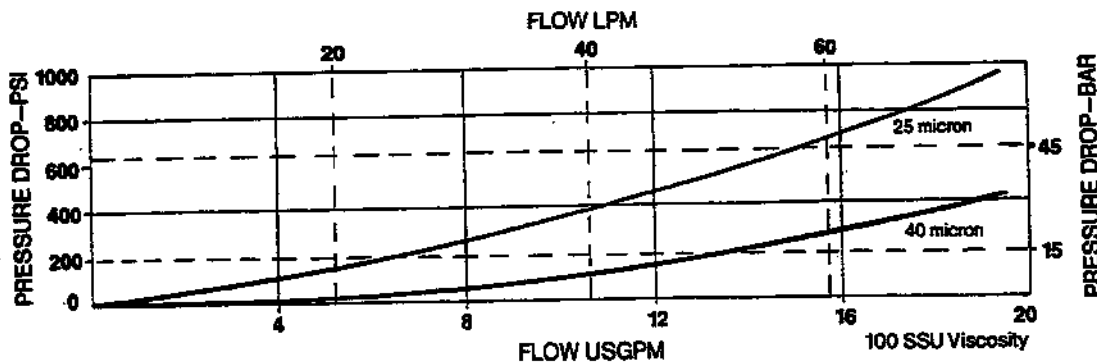
Features

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

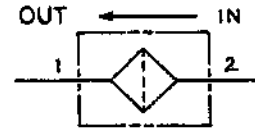
- Rated flow with 40 micron element—2 USgpm (7,6 lpm)
- This is a non by-pass filter
- Maximum operating pressure—5000 psi (345 bar)
- Viscosity range—27-30 SSU at 100°F
35-2000 SSU at 100°F
- Seals—Viton
- Operating temperature—-40°F to 350°F
(-39,6°C to 175°C)
- Filtration rating—See "How To Order"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

Performance Curve



2 USGPM Δ 100 PSI
(7,6 LPM Δ 6,9 Bar)

HSCF800

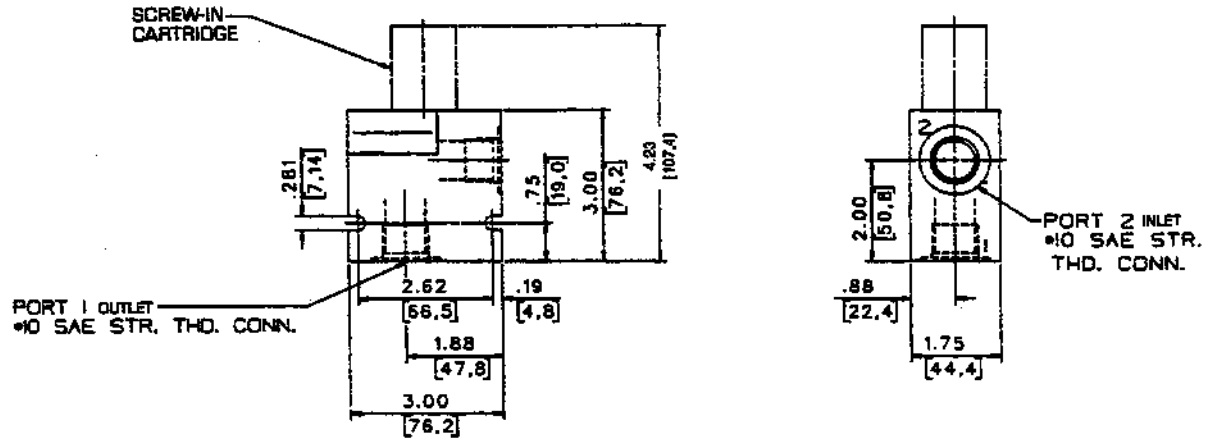


Data Sheet

Contamination Fuse

Line Mount Specifications

HSCF800/CE1-10-C



How To Order

Screw-In Cartridge Only

HSCF800-___

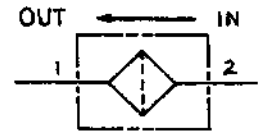
Element Rating	
40	= 40 Micron
25	= 25 Micron

Cartridge With Line Mount Block

HSCF800-___/CE1-10-C

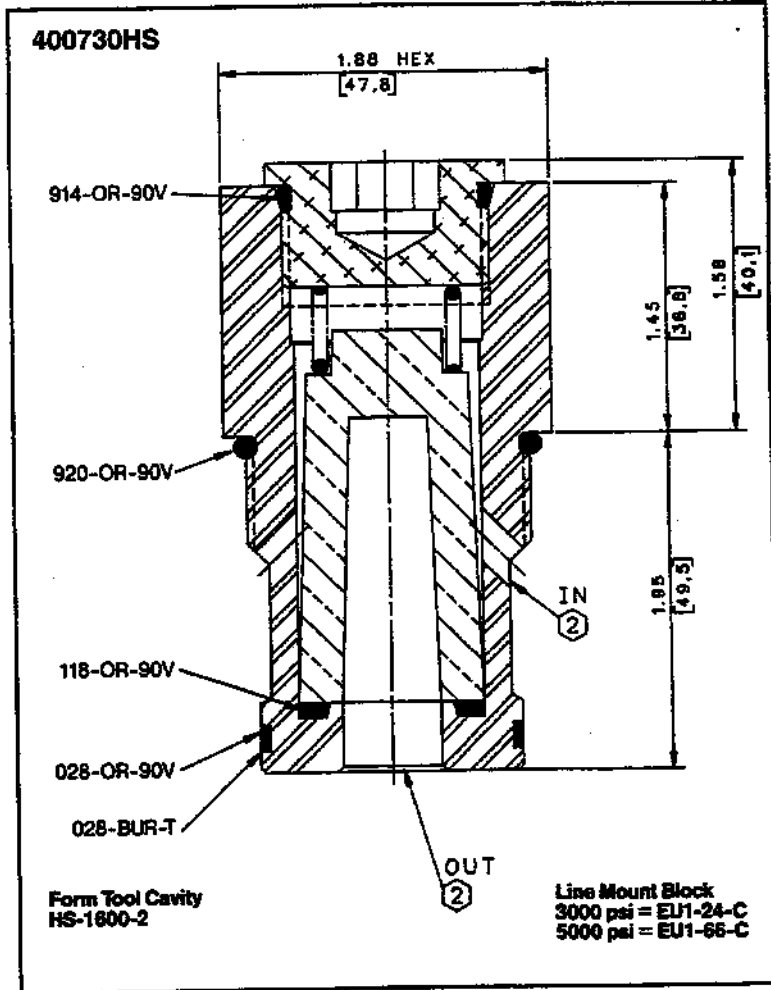
6 USGPM Δ 100 PSI
(22,7 LPM Δ 6,9 Bar)

HSCF1600



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.

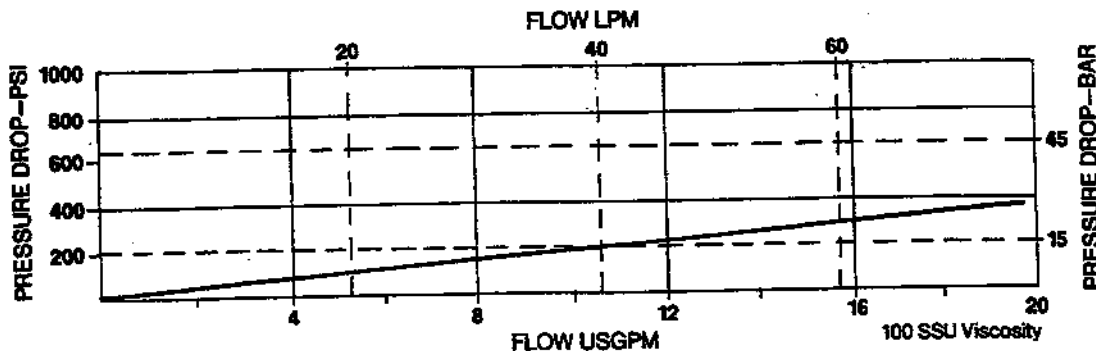
Features

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

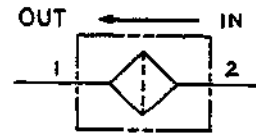
- Rated flow with 25 precision element—
6 USgpm Δ 100 psi (22,7 lpm Δ 6,9 bar)
- This is a non by-pass filter
- Maximum operating pressure—
5000 psi (345 bar)
- Viscosity range—27-30 SSU at 100°F
35-3000 SSU at 100°F
- Seals—Viton
- Operating temperature—-40°F to 350°F
(-39,6°C to 175°C)
- Filtration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

Performance Curve



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

HSCF1600

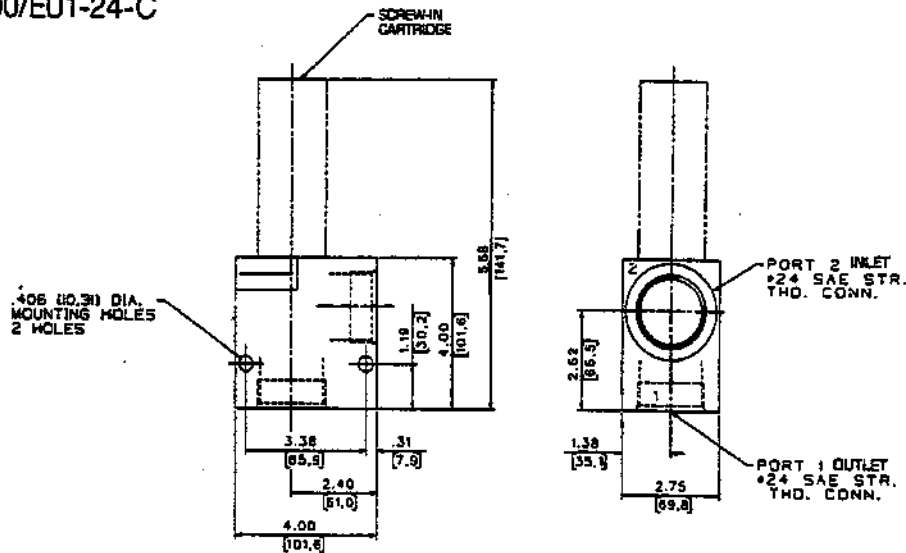


Data Sheet

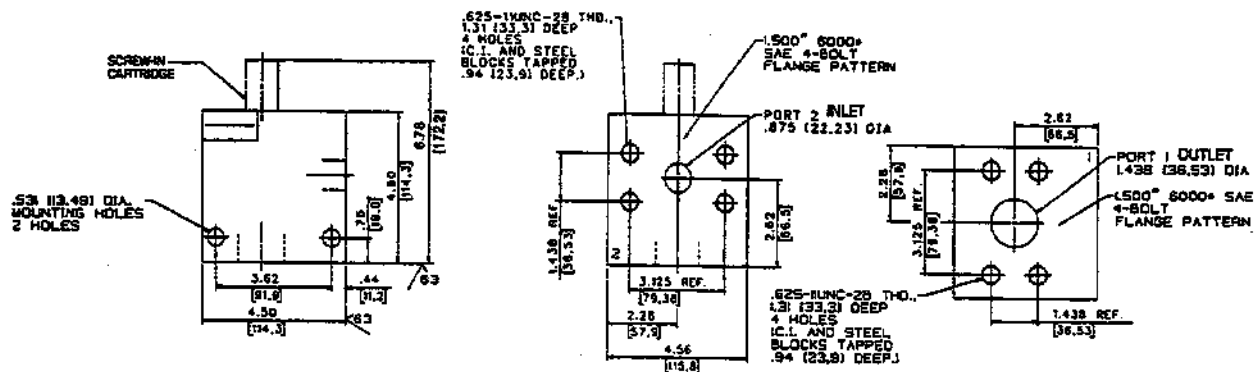
Contamination Fuse

Line Mount Specifications

HSCF1600/EU1-24-C



HSCF1600/EU1-66-C



How To Order

Screw-In Cartridge Only

HSCF1600-___

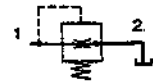
	Element Rating
25 LP	≈ 25 micron 1000 Δ P
25 HP	≈ 25 micron 5000 Δ P

Cartridge With Line Mount Block

3000 psi (207 bar) service pressure
HSCF1600___/EU1-24-C

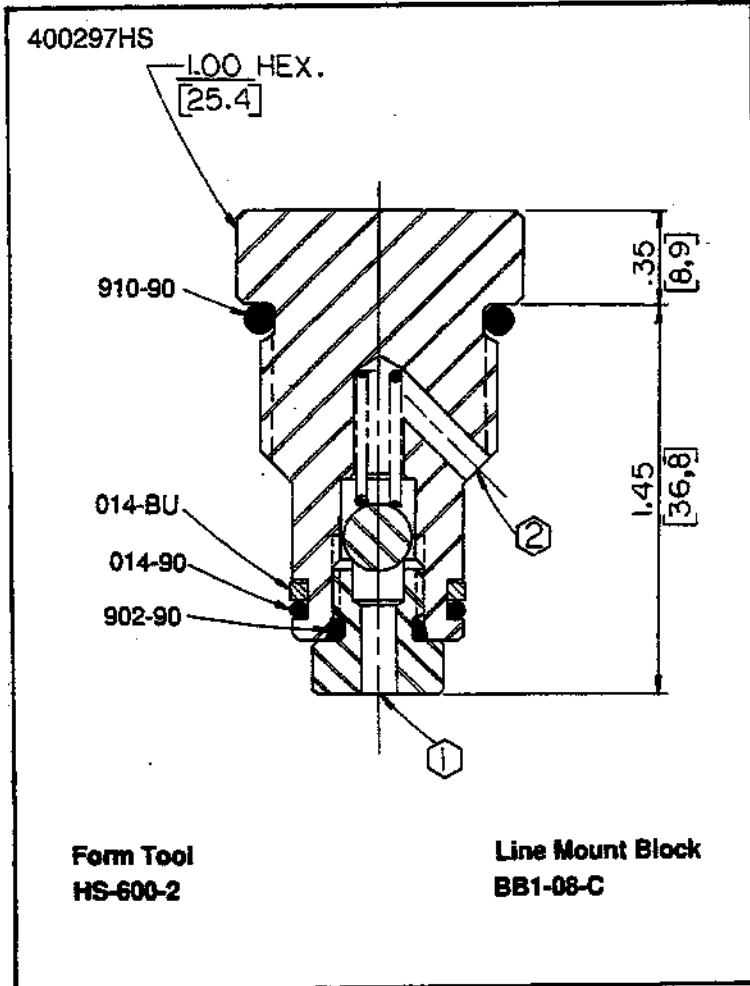
5000 psi (345 bar) service pressure
HSCF1600___/EU1-66-C

HSAB600



Data Sheet

Automatic Air Bleed Valve



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.

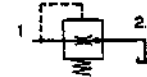
Features

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 cpm (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

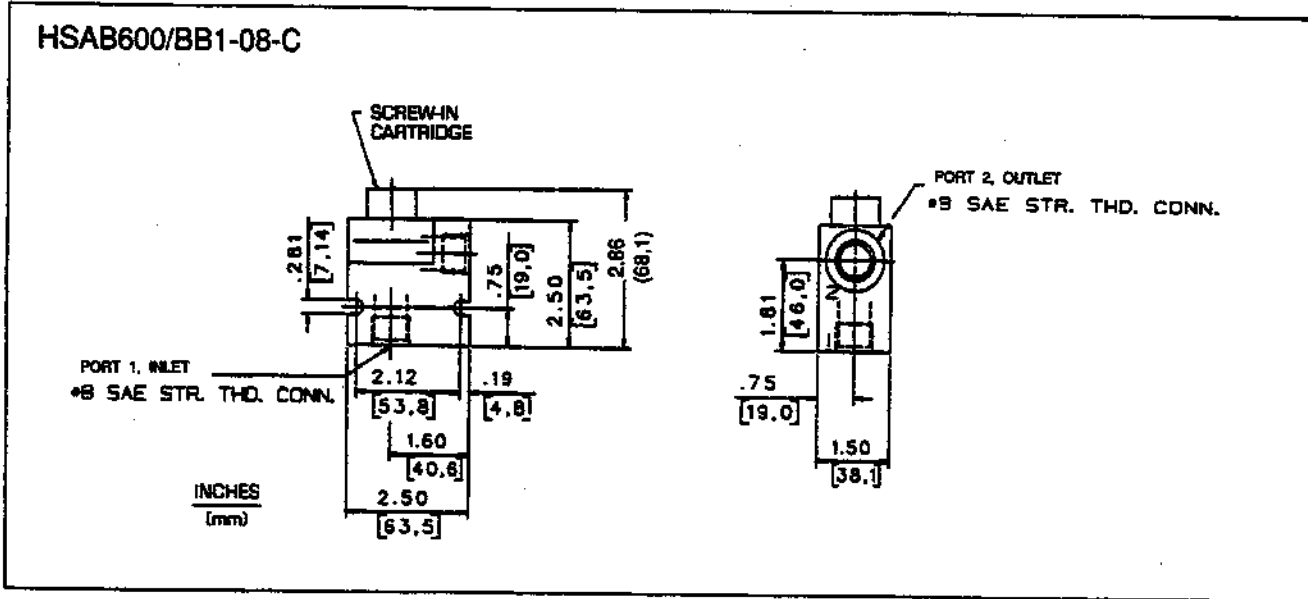
HSAB600



Data Sheet

Automatic Air Bleed Valve

Line Mount Specifications



How To Order

Screw-In Cartridge Only

HSAB600

Cartridge With Line Mounted Block

HSAB600/BB1-08-C