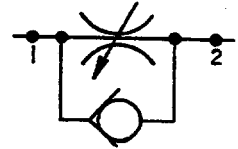


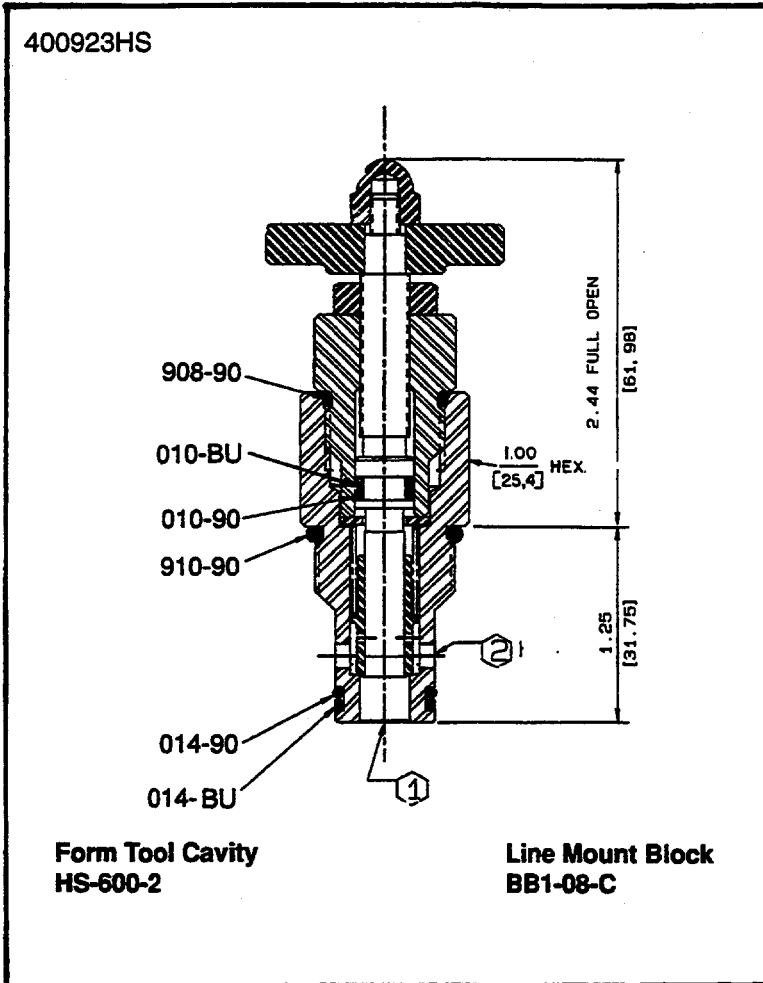
10 USGPM Δ 100 PSI
 (37,9 LPM Δ 6,9 Bar)

HSF603



Data Sheet

Flow Control Valve



Application

The HSF valve is a non-pressure compensated adjustable orifice for adjusting flow in one direction and allowing free flow in the other direction. Valve is used as an unidirectional flow regulator.

Operation

As the knob is turned clockwise and counter clockwise, the adjusting screw moves in and out of the center of the sleeve type check valve which has an orifice in it. When flow is from port 1 to 2, pressure raises the sleeve, compressing the spring and allowing free flow. Turning the adjusting screw outward allows restricted flow from port 2 to 1.

Features

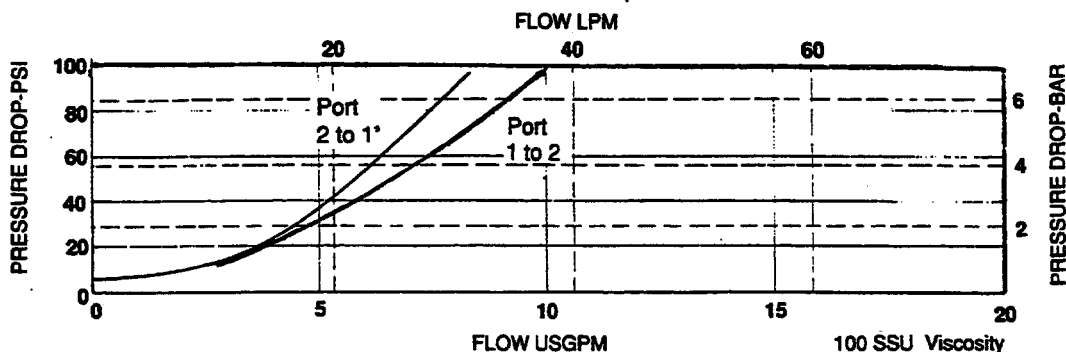
This valve is constructed of steel parts. Operational parts are hardened and ground as required. It is designed for easy service and field repair.

Specifications

- Nominal flow
 [Port 1 to 2] - 10 gpm (37,9 lpm)
 [Port 2 to 1 (open)] - 8 gpm (30,3 lpm)
- Maximum operating pressure - 5000 psi (345 bar)
- Turns, full open to close - 7 turns
- Torque to adjust valve when under maximum pressure - 15 in.lbs. (1695 Nmm)
- Viscosity Range - 27-30 SSU at 100°F
 35-2000 SSU at 100°F
- Seal - 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-AF

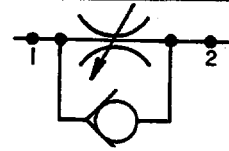
Performance Curve

* At 3.5 turns open



10 USGPM Δ 100 PSI
 (37,9 LPM Δ 6,9 Bar)

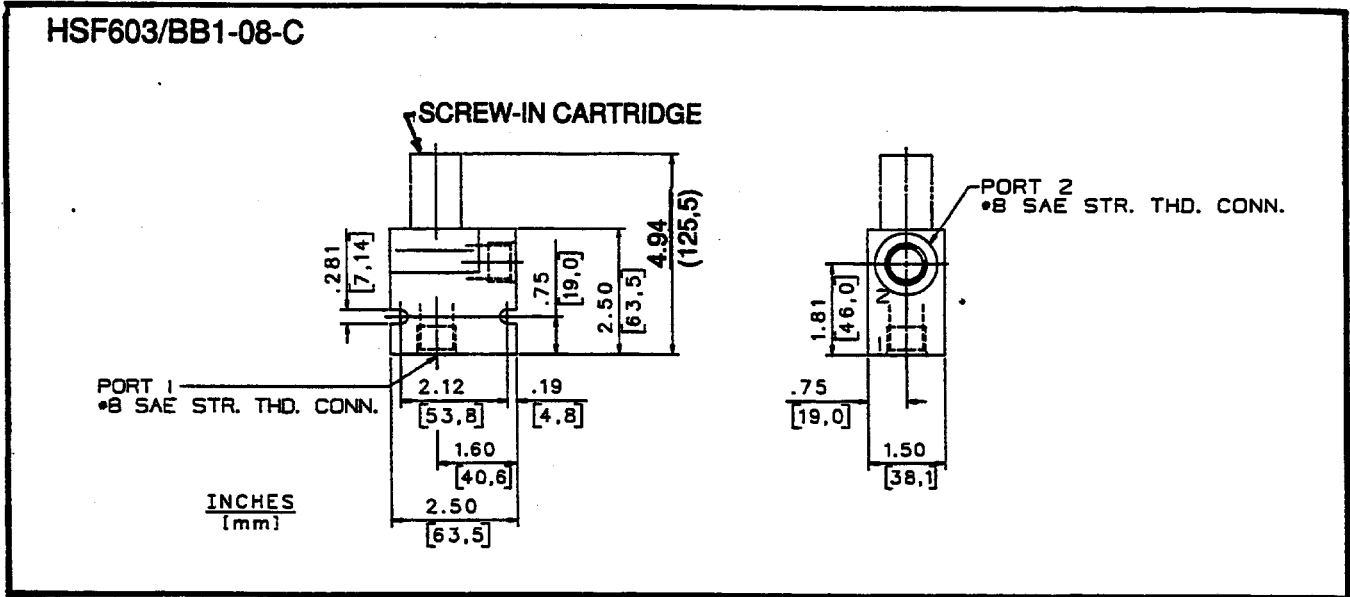
HSF603



Data Sheet

Flow Control Valve

Line Mount Specifications



How To Order

Screw-in Cartridge Only

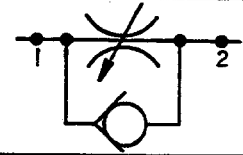
HSF603

Cartridge With Line Mount Block

HSF603/BB1-08-C

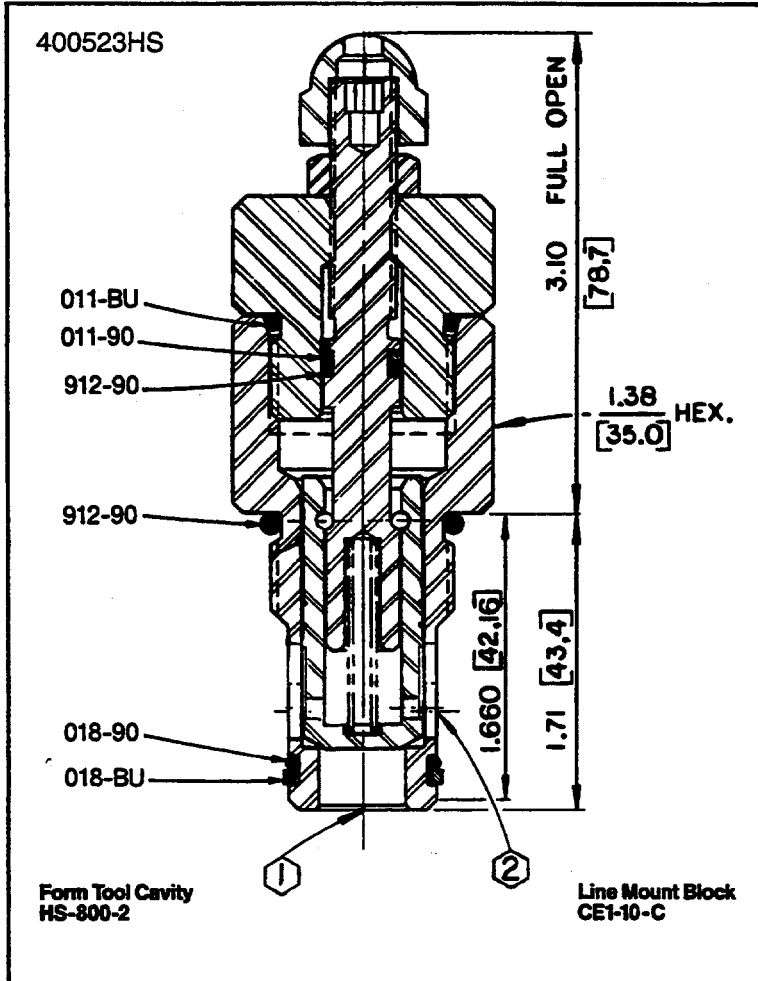
38 GPM Δ 100 PSI
(144,0 LPM Δ 6,9 Bar)

HSF802



Data Sheet

Flow Control Valve



Application

The HSF valve is a non-pressure compensated adjustable orifice for adjusting flow in one direction and allowing free flow in the other direction. Valve is used as a unidirectional flow regulator.

Operation

The main spool is held, between the small balls and spring, on the adjusting screw. Turning the adjusting screw raises and lowers the main spool for restricted flow from 2 to 1. When flow is from port 1 to 2, pressure raises the spool and compresses the spring and allows free flow.

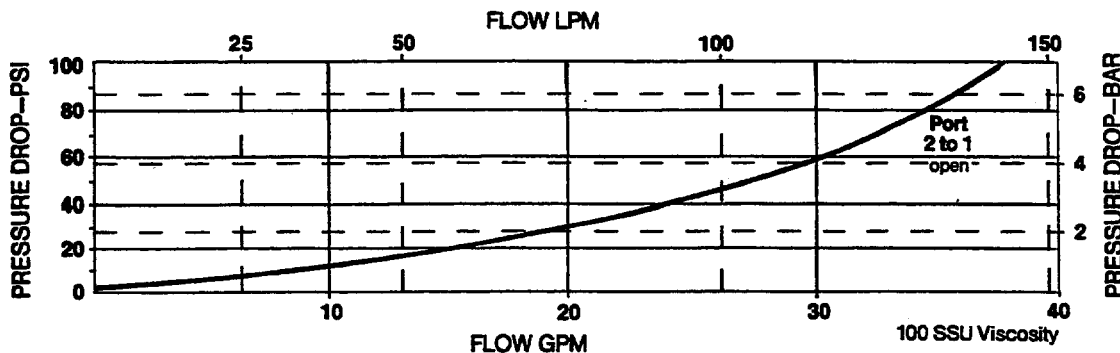
Features

This valve is constructed of steel parts. Operational parts are hardened and ground as required. It is designed for easy service and field repair.

Specifications

- Nominal flow to
 - [port 1-2 (closed)]—35 gpm (132,7 lpm)
 - [port 2-1 (open)]—38 gpm (144,0 lpm)
- Maximum operating pressure—5000 psi (345 bar)
- Turns, full open to close—8 turns
- Torque to adjust valve when under maximum pressure—35 in. lbs. (3955 Nmm)
- Viscosity range—27-30 SSU at 100°F
35-2000 SSU at 100°C
- 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-B

Performance Curve



Oilgear

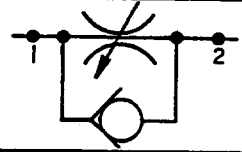
VALVE, SCREW-IN CARTRIDGE

ENGINEERING

2

38 GPM Δ 100 PSI
(144,0 LPM Δ 6,9 Bar)

HSF802

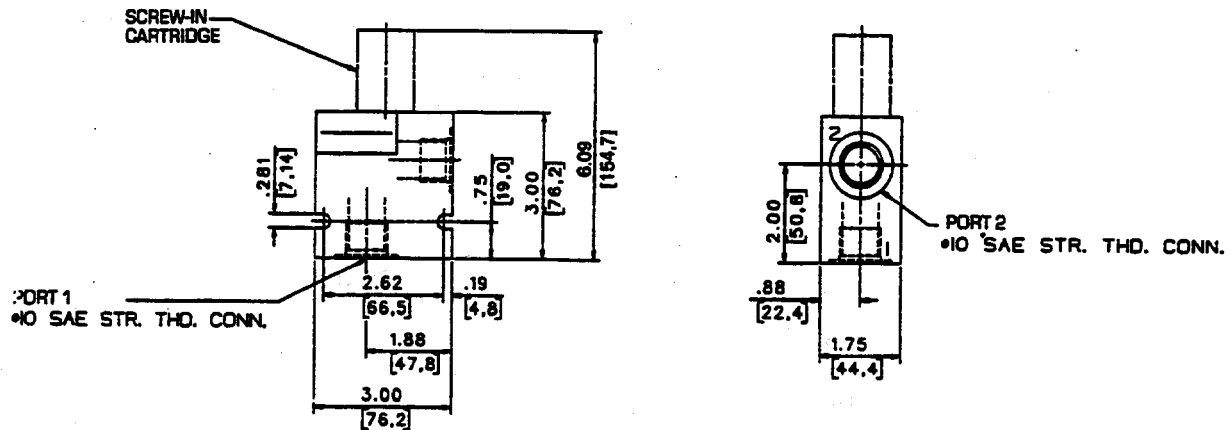


Data Sheet

Flow Control Valve

Line Mount Specifications

HSF802/CE1-10-C



How To Order

Screw-In Cartridge Only

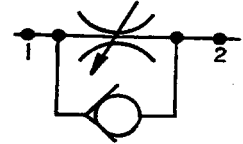
HSF802

Cartridge With Line Mount Block

HSF802/CE1-10-C

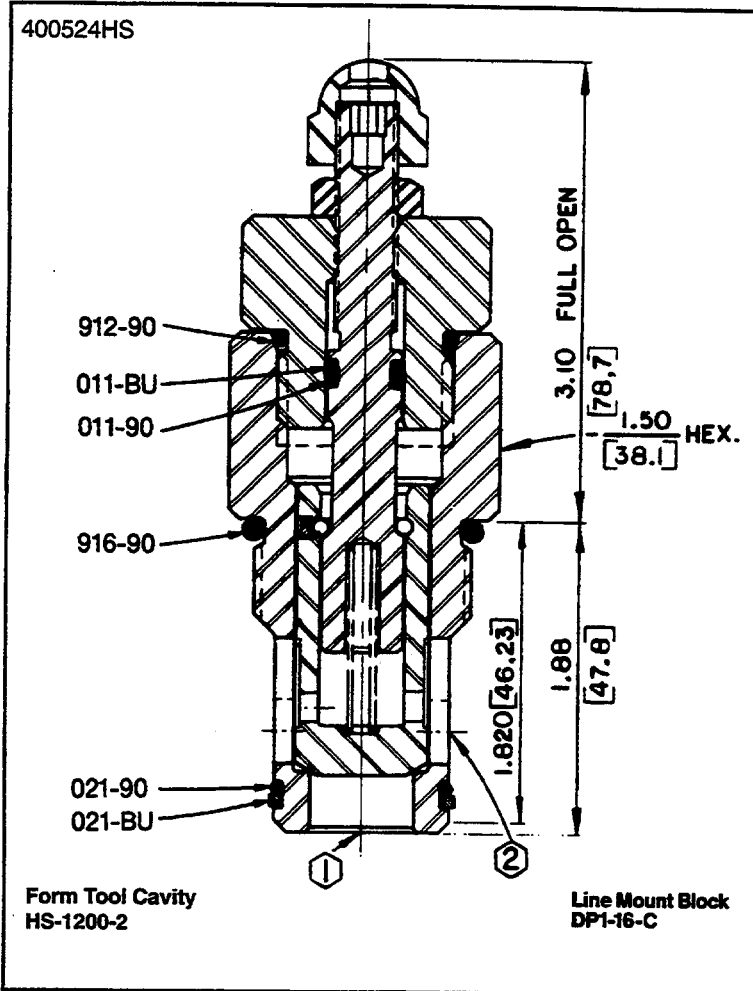
65 GPM Δ 100 PSI
(246,4 LPM Δ 6,9 Bar)

HSF1202



Data Sheet

Flow Control Valve



Application

The HSF valve is a non-pressure compensated adjustable orifice for adjusting flow in one direction and allowing free flow in the other direction. Valve is used as a unidirectional flow regulator.

Operation

The main spool is held, between the small balls and spring, on the adjusting screw. Turning the adjusting screw raises and lowers the main spool for restricted flow from 2 to 1. When flow is from port 1 to 2, pressure raises the spool and compresses the spring and allows free flow.

Features

This valve is constructed of steel parts. Operational parts are hardened and ground as required. It is designed for easy service and field repair.

Specifications

Nominal flow to

[port 1-2 (closed)]- 46 gpm (174,3 lpm)

[port 2-1 (open)]- 65 gpm (246,4 lpm)

Maximum operating pressure-
5000 psi (345 bar)

Maximum operating pressure from port
2 to 1 ΔP must not exceed 4000 psi (276 bar)

Turns, full open to close- 8 turns

Torque to adjust valve when under maximum
pressure- 65 in. lbs. (7345 Nmm)

Viscosity range- 27-30 SSU at 100°F
35-2000 SSU at 100°F

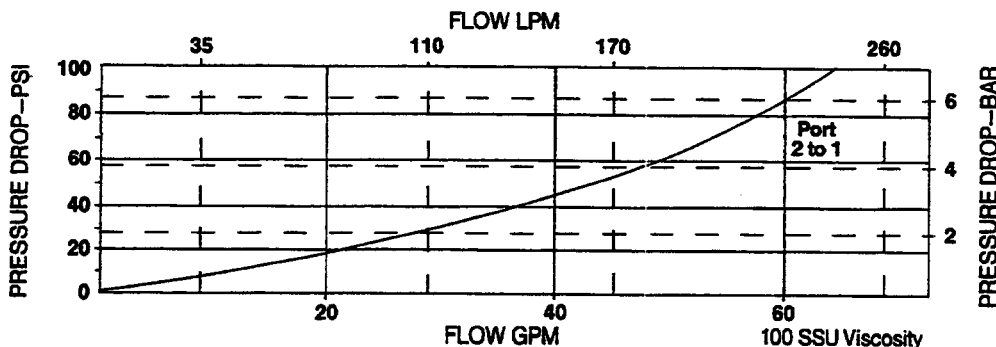
Seals- Viton

Operating temperature- -40°F to 350°F
(-39,6°C to 175°C)

Filtration- Maintain SAE Class 6, ISO 18/15

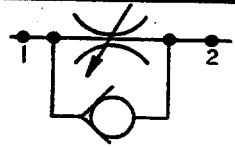
Seal kit- HSSK-1200-B

Performance Curve



65 GPM Δ 100 PSI
(246,4 LPM Δ 6,9 Bar)

HSF1202

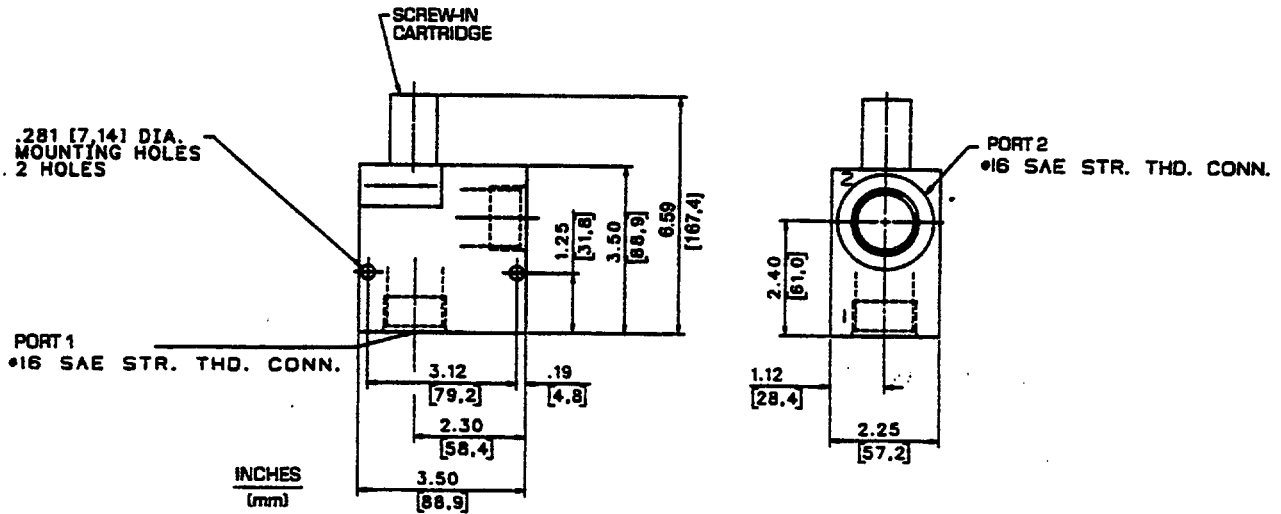


Data Sheet

Flow Control Valve

Line Mount Specifications

HSF1202/DP1-16-C



How To Order

Screw-In Cartridge Only

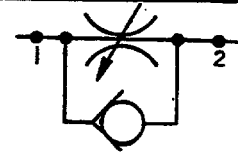
HSF1202

Cartridge With Line Mount Block

HSF1202/DP1-16-C

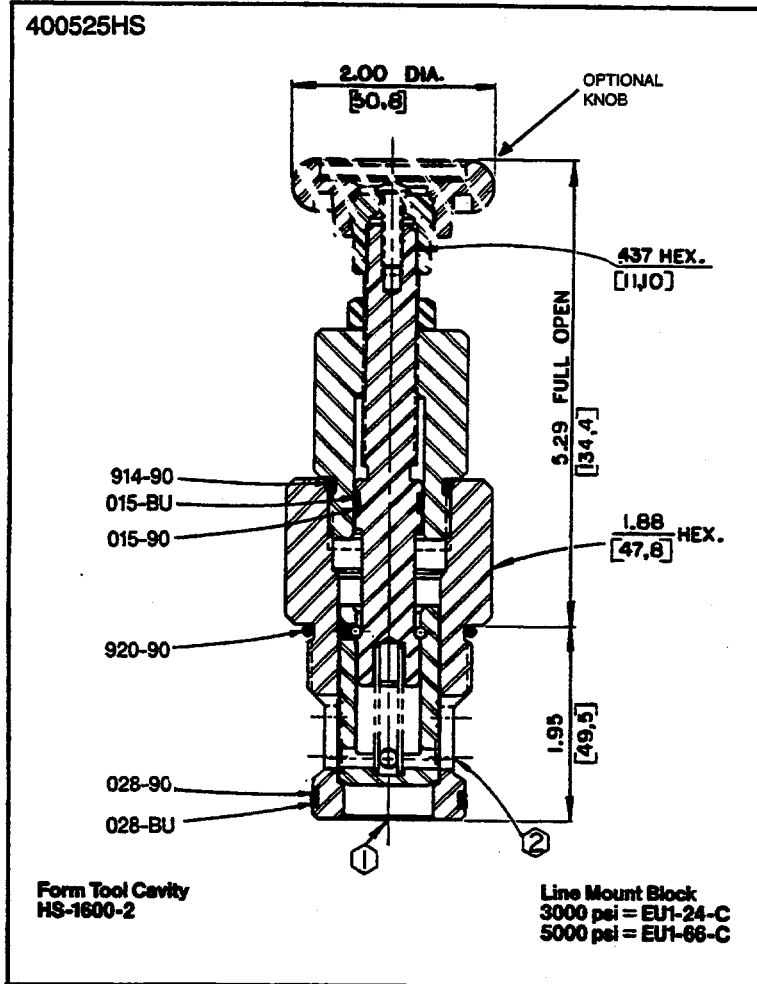
90 GPM Δ 100 PSI
(341,1 LPM Δ 6,9 Bar)

HSF1602



Data Sheet

Flow Control Valve



Application

The HSF valve is a non-pressure compensated adjustable orifice for adjusting flow in one direction and allowing free flow in the other direction. Valve is used as a unidirectional flow regulator.

Operation

The main spool is held, between the small balls and spring, on the adjusting screw. Turning the adjusting screw raises and lowers the main spool for restricted flow from 2 to 1. When flow is from port 1 to 2, pressure raises the spool and compresses the spring and allows free flow.

Features

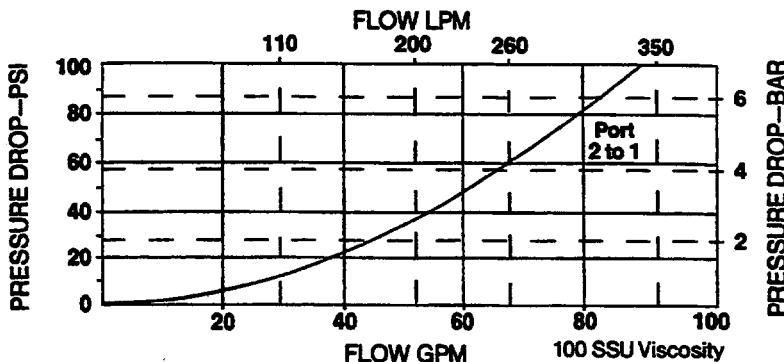
This valve is constructed of steel parts. Operational parts are hardened and ground as required. It is designed for easy service and field repair.

Specifications

Nominal flow to
 [port 1-2 (closed)] - 85 gpm (322,2 lpm)
 [port 2-1 (open)] - 90 gpm (341,1 lpm)
 Maximum operating pressure from port 2 to 1 -
 ΔP must not exceed 3500 psi (241 bar)
 Turns, full open to close - 13 turns
 Torque to adjust valve when under maximum
 pressure - 110 in. lbs. (12430 Nmm)
 Viscosity range- 27-30 SSU at 100°F
 35-2000 SSU at 100°F

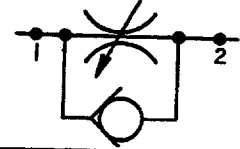
Seals- Viton
 Operating temperature- 40°F to 350°F
 (-39,6°C to 175°C)
 Filtration- Maintain SAE Class 6, ISO 18/15
 Seal kit - HSSK-1600-B

Performance Curve



90 GPM Δ 100 PSI
(341,1 LPM Δ 6,9 Bar)

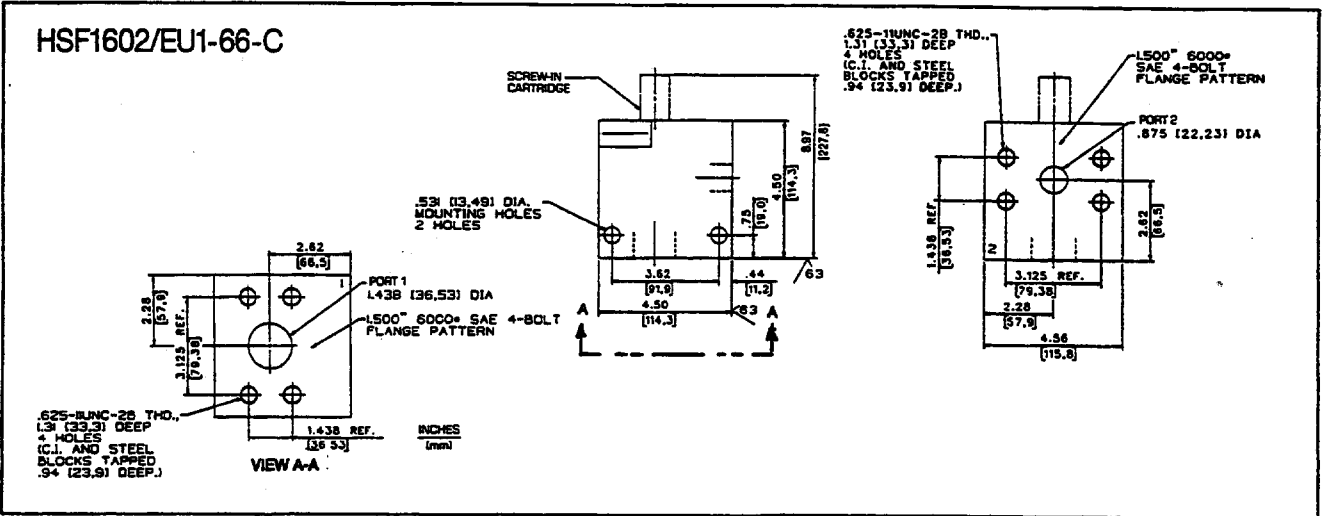
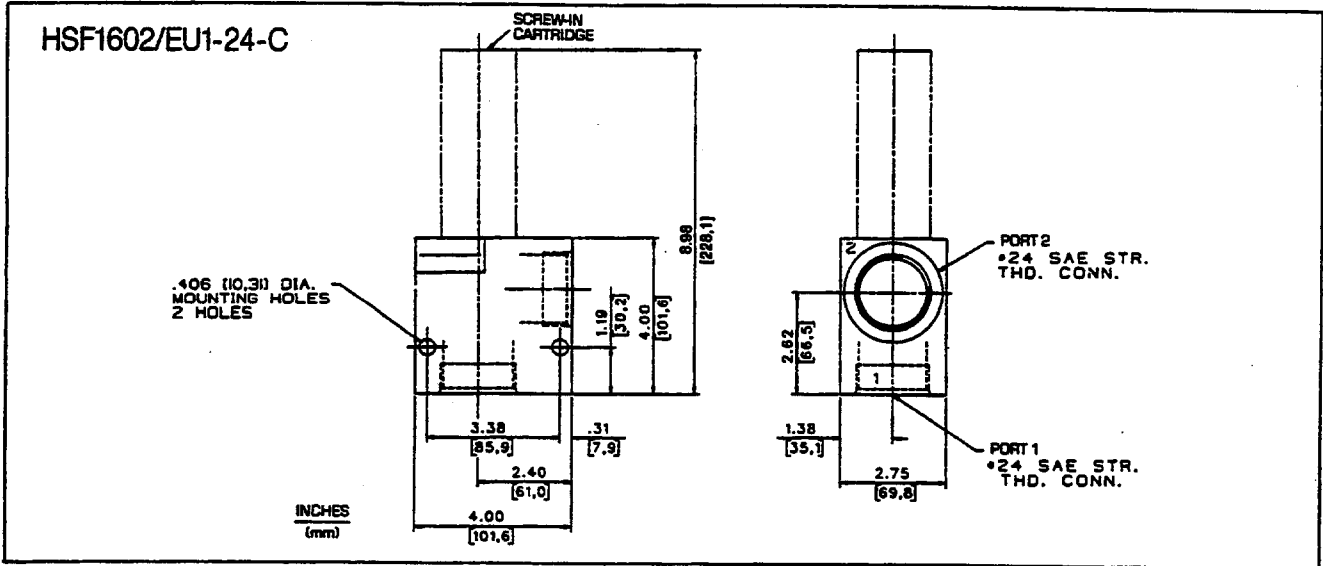
HSF1602



Data Sheet

Flow Control Valve

Line Mount Specifications



How To Order

Screw-In Cartridge Only

HSF1602

Cartridge With Line Mount Block

3000 psi (207 bar) service pressure

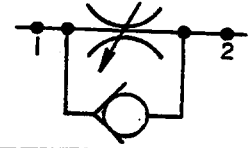
HSF1602/EU1-24-C

5000 psi (345 bar) service pressure

HSF1602/EU1-66-C

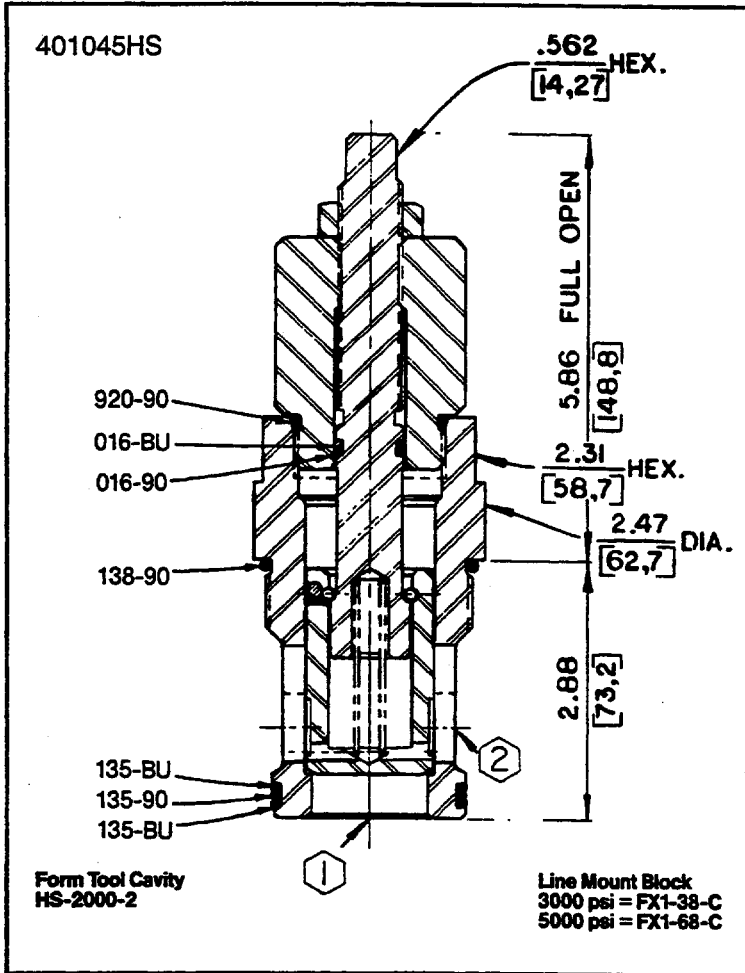
200 GPM Δ 100 PSI
(758,0 LPM Δ 6,9 Bar)

HSF2003



Data Sheet

Flow Control Valve



Application

The HSF valve is a non-pressure compensated adjustable orifice for adjusting flow in one direction and allowing free flow in the other direction. Valve is used as a unidirectional flow regulator.

Operation

The main spool is held, between the small balls and spring, on the adjusting screw. Turning the adjusting screw raises and lowers the main spool for restricted flow from 2 to 1. When flow is from port 1 to 2, pressure raises the spool and compresses the spring and allows free flow.

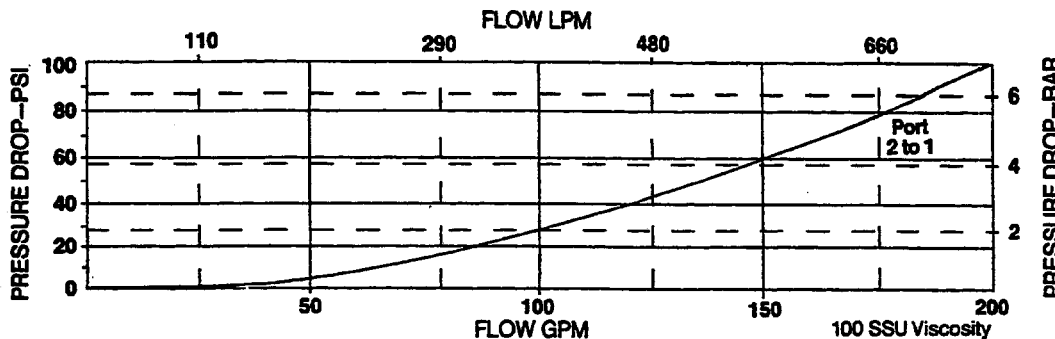
Features

This valve is constructed of steel parts. Operational parts are hardened and ground as required. It is designed for easy service and field repair.

Specifications

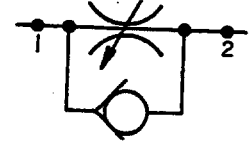
- Nominal flow to [port 1-2 (closed) and port 2-1 (open)]—200 gpm (758 lpm)
- Maximum operating pressure—5000 psi (345 bar)
- Maximum operating pressure from 2 to 1—2500 psi (172 bar)
- Turns, full open to close—27 turns
- Torque to adjust valve when under maximum pressure—490 in. lb. (55,370 Nmm)
- 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-2000-B

Performance Curve



200 GPM Δ 100 PSI
(758,0 LPM Δ 6,9 Bar)

HSF2003

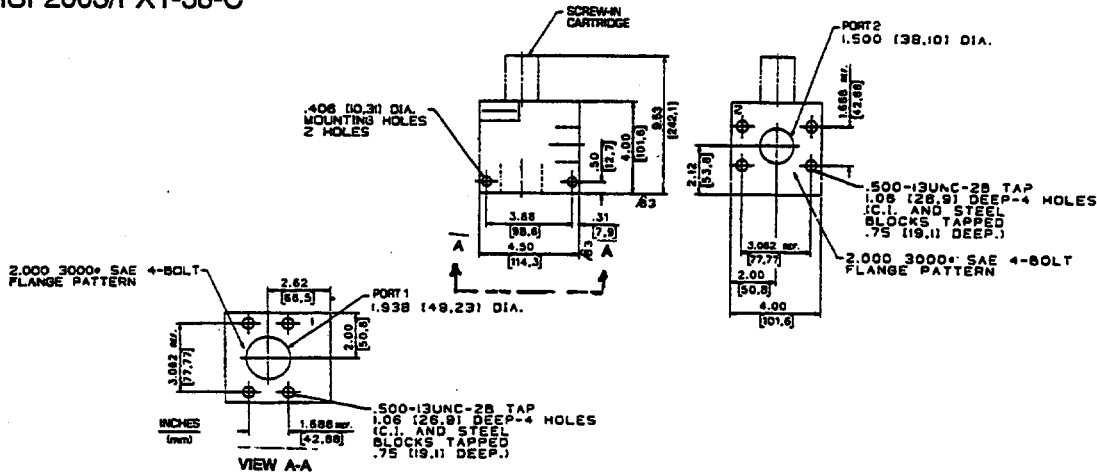


Data Sheet

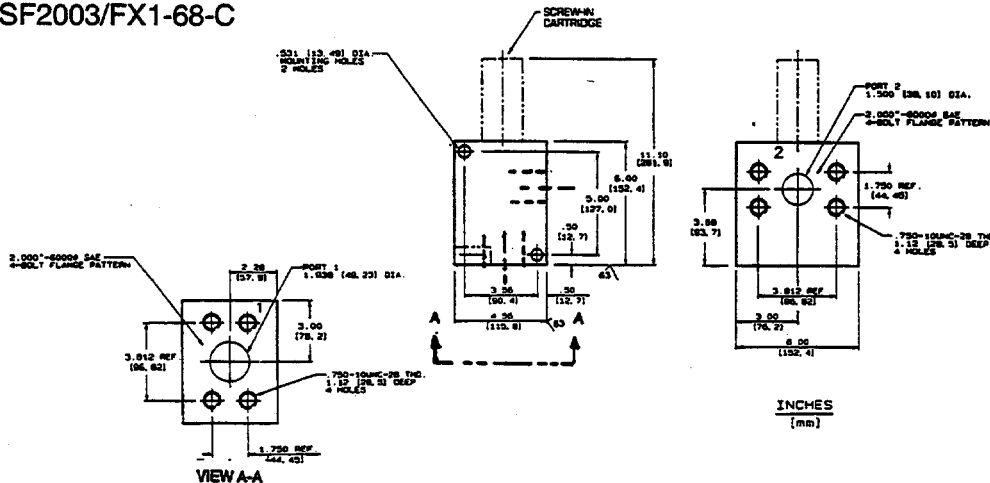
Flow Control Valve

Line Mount Specifications

HSF2003/FX1-38-C



HSF2003/FX1-68-C



How To Order

Screw-In Cartridge Only

HSF2003

Cartridge With Line Mount Block

3000 psi (207 bar) service pressure

HSF2003/FX1-38-C

5000 psi (345 bar) service pressure

HSF2003/FX1-68-C