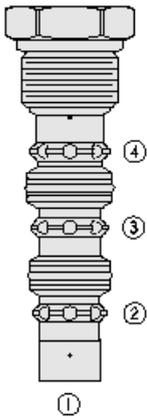




**Overview**



**Description**

The HS52-43 is a screw-in, cartridge style, spring centered spool, closed centered, 3-position, 3-way, hot oil shuttle valve for use with general purpose hydraulic fluids.

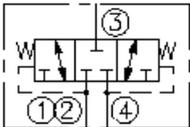
**Operation**

The valve CAN be used for hydrostatic transmissions to direct charge pump oil to a heat exchanger or to tank.

**Features**

- Hardened spool and cage for long life.
- Industry-common cavity.

**Symbol**



**Ratings**

**Pressure Ratings**

Pressure rating 345 bar (5000 psi) - **Note:** Maximum, polyurethane seals are recommended for 5000 psi [345 bar]  
 Bias spring value 4.1 bar (60 psi)

**Temperature Ratings**

Operating fluid temperature -40 to 120 °C (-40 to 248 °F)

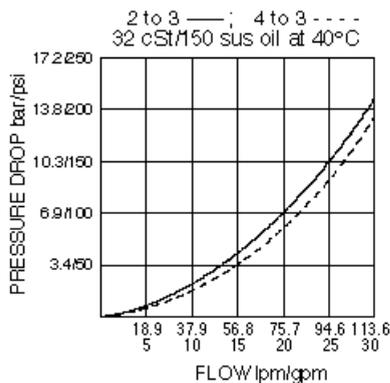
**Flow Ratings**

Maximum internal leakage 100 in<sup>3</sup>/min - **Note:** At 345 bar (5000 psi)  
 Flow performance see graph

**Properties**

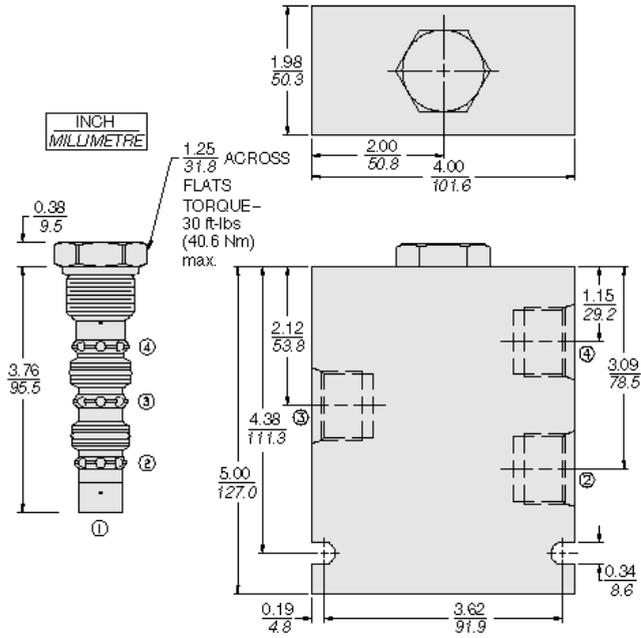
Materials steel with work surfaces hardened. External surfaces are zinc plated. Buna N o-rings are standard.  
 Unit weight 0.26 kg (0.57 lb)

**Performance**





## Dimensions



## Installation Specifications

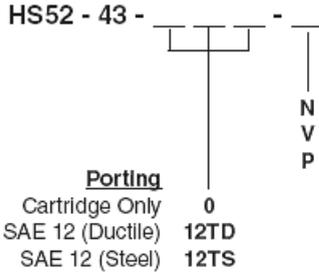
Cavity	VC12-4
Cartridge installation torque	44.7 to 50.2 N-m (33 to 37 ft-lb)

## Accessories

Seal kit	SK52-4N-MM	- <b>Note:</b> Buna N
	SK52-4V-MM	- <b>Note:</b> Viton
	SK52-4P-MM	- <b>Note:</b> Polyurethane



**Order Code**



**Seals**  
**N** Buna N (Std.)  
**V** Fluorocarbon  
**P** Polyurethane — recommended for operation at 345 bar (5000 psi)

**Porting**  
 Cartridge Only **0**  
 SAE 12 (Ductile) **12TD**  
 SAE 12 (Steel) **12TS**

**Model Options**

**HS52-43-H-J**

**H Line Body**

CODE	DESCRIPTION
0	No Body
10T	Aluminum SAE 10
12T	Aluminum SAE 12
6B	Aluminum BSPP 3/4" (6)

**J Seal**

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane