

CV

Check
Valves

SH

Shuttle
Valves

LM

Load/Motor
Controls

FC

Flow
Controls

PC

Pressure
Controls

LE

Logic
Elements

DC

Directional
Controls

MV

Manual
Valves

SV

Solenoid
Valves

PV

Proportional
Valves

CE

Cyls &
Electronics

BC

Bodies &
Cavities

TD

Technical
Data**General Description**

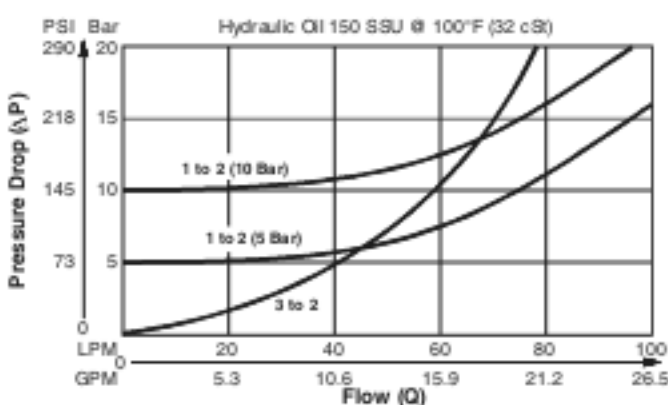
Two Position, Three Way, Spring Offset Shuttle Valve.
For additional information see Technical Tips on
pages SH1-SH2.

Features

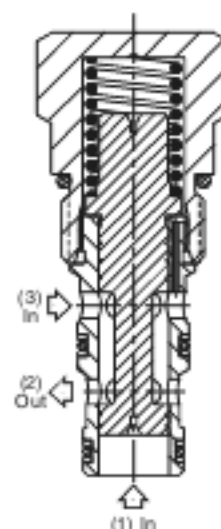
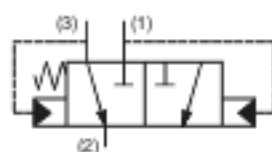
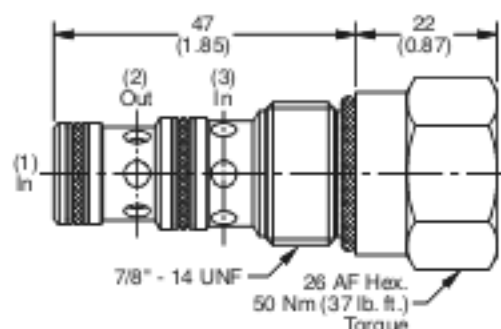
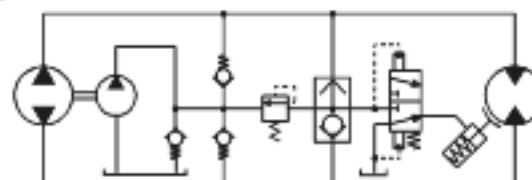
- High flow capacity
- Various switching pressures available
- Used as automatic brake release valve on motors, where brake release is required at pressures between 1 & 10 bar.
- Hardened working parts for maximum durability
- All external parts zinc plated

Performance Curve

Pressure Drop vs. Flow (Through cartridge only)

**Specifications**

Rated Flow	90 LPM (24 GPM)
Nominal Flow @ 7 Bar (100 PSI)	50 LPM (13 GPM)
Maximum Inlet Pressure	420 Bar (6000 PSI)
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-40°C to +93.3°C (Nitrile, Buna-N) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)
Fluid Compatibility/Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
Filtration	ISO code 16/13, SAE Class 4 or better
Approx. Weight	.14 kg (.31 lbs.)
Cavity	C10-3 (See BC Section for more details)

**Dimensions** Millimeters (Inches)**Application**

Brake release at various switching pressures.

Ordering Information

K04B3				
Shuttle Valve	Switching Pressure	Seals	Body Material	Port Size

Code	Switching Pressure
5.0	5.0 Bar (73 PSI) Std.
10.0	10.0 Bar (145 PSI)

Code	Seals / Kit No.
N	Nitrile, Buna-N / (SK30505N-1)
V	Fluorocarbon / (SK30505V-1)

Code	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
4P	1/4" NPTF	(B10-3-4P)
6P	3/8" NPTF	(B10-3-6P)
8P	1/2" NPTF	(B10-3-8P)
6T	SAE-6	(B10-3-6T)
8T	SAE-8	(B10-3-8T)
6B	3/8" BSPG	(B10-3-6B)†
8B	1/2" BSPG	(B10-3-8B)

* Add "A" for aluminum, omit for steel.
† Steel bodies only.