

# Directional Control Valves

## 1SB304

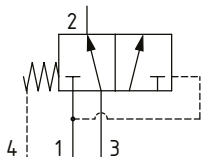
Brake Sequence Directional Valve, 3-Way, Spool Type, Internal Pilot, External Drain

350 bar [5000 psi] • 30 l/min [8 US gpm]

### DESCRIPTION AND OPERATION

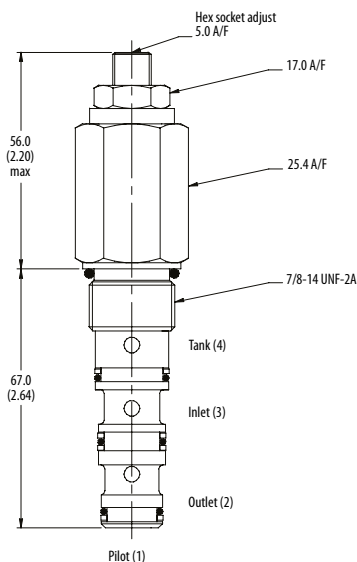
This is a 3-way, spool type, internally piloted directional control valve with external drain. Pressure at port 1 will connect port 1 to port 2 and block port 3. When this pressure falls below the spring setting, the valve connects port 2 to port 3 and blocks port 1. Due to the external drain, the pilot pressure required shift the valve is dependent on the pressure in port 4, which would normally be connected to tank. This is ideal for brake circuits and allows the brake to automatically dis-engage when the machine is in operation.

### SCHEMATIC



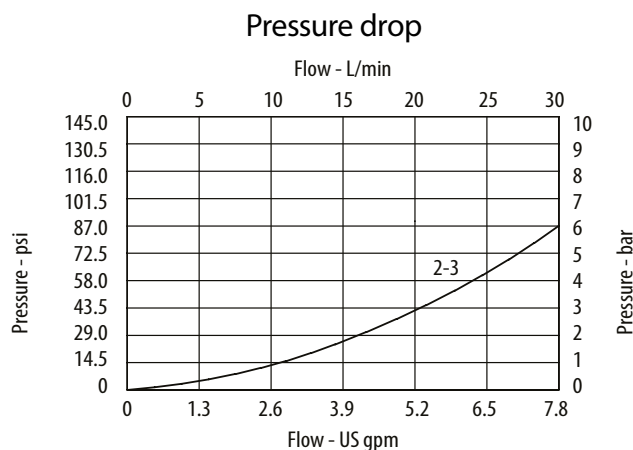
### DIMENSIONS

mm [in]



Installation torque  
60 Nm [44 ft. lbs]

### PERFORMANCE CURVES



### PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	30 l/min [8 US gpm]
Max pilot pressure	210 bar [3000 psi]
Leakage	50 ml/min nominal
Weight	0.24 kg [0.53 lb]
Cavity	A5302

### MODEL CODE

**1SB354 - P - 3W - S - 12 - 377**

**Basic Code**

1SB304-Cartridge Only  
1SB354-Cartridge and Housing

**Adjustment Option**

P-External

**Housing**

Code	Ports	Aluminum	Steel
0	No housing		
3W	3/8" BSP	B13602	B13603
6T	3/8" SAE	B21661	B21660

\* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].  
\* Additional housings available

**Housing Material**

Omit-No housing/Aluminum  
377-Steel

**Pressure Range**

Code	Bar	[Psi]
6	10-60	[145-870]
Standard Setting	30	[435]
12	20-100	[290-1450]
Standard Setting	60	[870]

Standard setting made at 14 l/min [3.8 US gpm]

**Seal Option**

Code	Seal Kit
S-Buna-N	SK645
SV-Viton	SK645V