# **Motion Control Valves**

## 1SE140

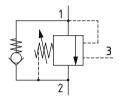
Overcenter Valve, Standard, Direct Acting, Internal Drain, Port 3 Pilot

420 bar [6100 psi] • 140 l/min [37 US gpm]

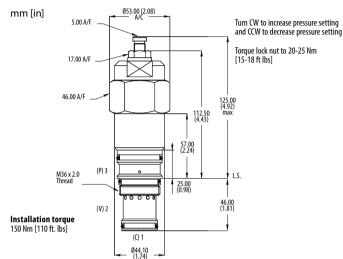
## **■ DESCRIPTION AND OPERATION**

This is a direct acting overcenter valve, which is a pilot assisted relief with a free flow check. With the relief valve set at approximately 1.3 times the maximum load induced pressure, the valve will prevent flow from port 1 to 2. When pilot pressure is applied to port 3, the valve will meter the flow from port 1 to 2, compensating for any change in pilot pressure due to over-running or unstable loads. Free flow takes place from port 2 to port 1 through the check portion of the valve. These valves are ideal in most applications bringing stability, load holding, and hose failure protection when the valve is mounted onto or into the actuator. The spring chamber is connected to the valve port 2, so any back pressure will increase the pilot pressure required to keep the valve open and the pressure at which the valve will open as a relief valve.

#### **SCHEMATIC**



#### DIMENSIONS



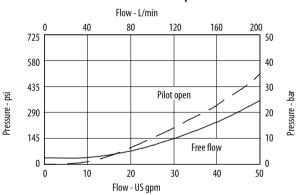
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#### **■ PERFORMANCE DATA**

Rated pressure	420 bar [6100 psi]
Rated flow	140 l/min [37 US gpm]
Max total relief pressure	420 bar [6100 psi]
Max recommended load pressure at max setting	340 bar [4900 psi]
Pilot Ratio	4:1, 6:1
Leakage	0.3 ml/min nominal [5 drops/min]
Weight	1.2 kg [2.5 lb]
Cavity	A20094-T17A

## **PERFORMANCE CURVES**

### Pressure Drop



## **■ MODEL CODE**

