

CV

Check  
Valves

SH

Shuttle  
ValvesLM  
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

Coils &  
Electronics

BC

Bodies &  
Cavities

TD

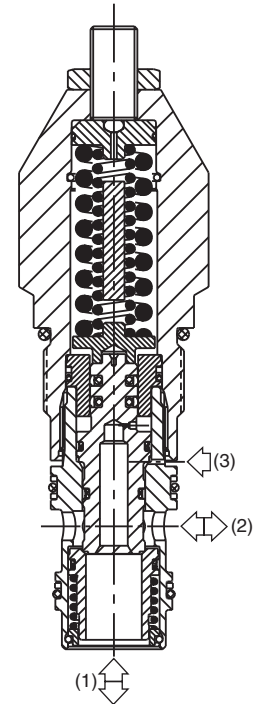
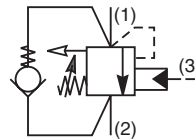
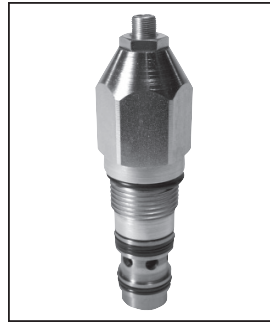
Technical  
Data

## General Description

Threaded Cartridge Style Counterbalance Valve. Pilot assisted, designed for motion control applications. For additional information see Technical Tips on pages LM1-LM4.

## Features

- High flow design with extra dampening
- Spring chamber isolated from system backpressure by double seal, eliminating vent port leakage and need for separate drain line
- Poppet construction for minimal leakage
- Incorporates direct acting relief valve for overload protection
- Includes reverse check valve within body, saving space and minimizing installation cost
- Hardened working parts for maximum durability
- Adjustable and tamper resistant versions available
- All external parts zinc plated

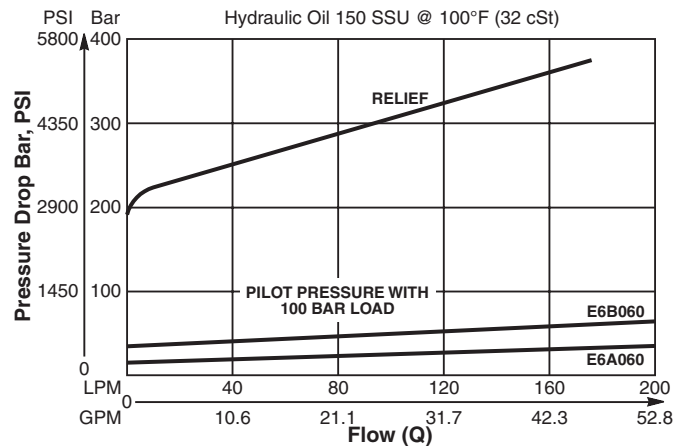


## Specifications

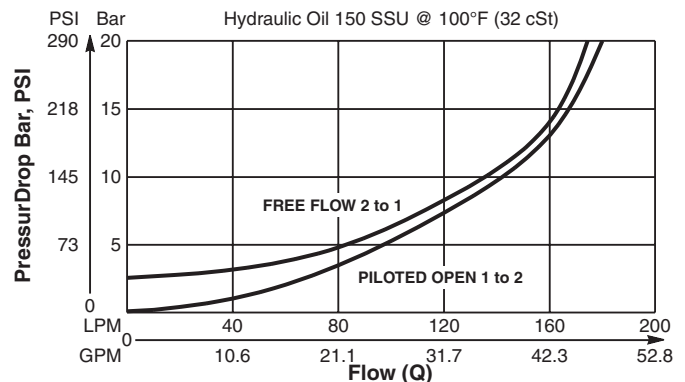
<b>Rated Flow</b>	180 LPM (48 GPM)
<b>Pressure</b>	50 - 350 Bar (725 - 5000 PSI)
<b>Sensitivity: Pressure/Turn</b>	50 Bar (725 PSI)
<b>Pilot Ratio</b>	<b>E6A060*409</b> - 8 : 1 <b>E6B060*409</b> - 3 : 1
<b>Cartridge Material</b>	All parts steel. All operating parts hardened steel.
<b>Operating Temp. Range/Seals</b>	-40°C to +93.3°C (Nitrile) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)
<b>Fluid Compatibility/ Viscosity</b>	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)
<b>Filtration</b>	ISO Code 16/13, SAE Class 4 or better
<b>Approx. Weight</b>	0.53 kg (1.17 lbs.)
<b>Cavity</b>	3C (See BC Section for more details)

## Performance Curves

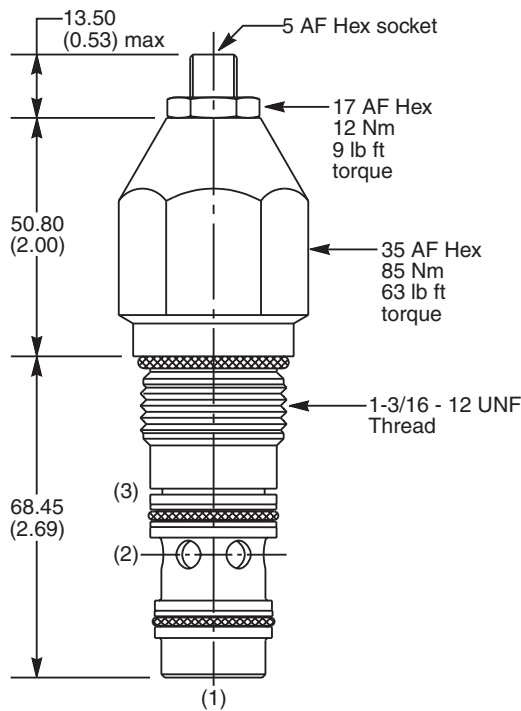
### Relief & Pilot Performance 1 to 2



### Pressure Drop vs Flow



**Dimensions**    Millimeters (Inches)



**Ordering Information**

E6

060

409

Load Control Valve

Pilot Ratio

Adjustment Style

Cracking Pressure

Seals

Suffix Number

Code	Pilot Ratio
A	8 : 1
B	3 : 1

Code	Adjustment Style / Kit No.
Z	Screw Adjust (Standard)
T	Tamper Resistant (TC1125)

Code	Cracking Pressure
	Omit for no setting (Standard)* Specify setting if required

*\*Standard valve is set to crack at 215 Bar (3120 PSI). Valve to be set to 1.4 times maximum load induced pressure.*

Code	Seals / Kit No.
N	Nitrile, Buna-N (Std.) / (SK30008N-1)
V	Fluorocarbon / (SK30008V-1)

Code	Suffix Number
409	High flow design with extra dampening

Order Bodies Separately

LB10

Line Body

Porting

Body Material

Code	Porting
039	3/4" BSP (main) 1/4" BSP (aux)
069	1" SAE (main) 1/4" SAE (aux)
034	3/4" BSP Dual Cavity
234	3/4" SAE Dual Cavity

Code	Body Material
A	Aluminum
S	Steel

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