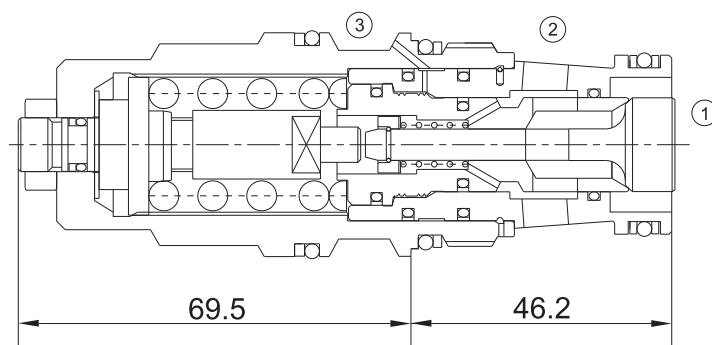


EVCP-CBG*

COUNTERBALANCE VALVE



Technical Specifications

Operating Pressure :	EVCP-CBGA: 280bar EVCP-CBGG: 350bar EVCP-CBGH: 350bar
Flow :	240L/min
Maximum internal leakage :	5drops/min (Max to 85% of nominal setting)
Operating temperature :	-30°C to+ 120°C (- 22°F to+ 250°F)
Cavity :	T-17A
Fluids:	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range :	7.4 to 420cSt.

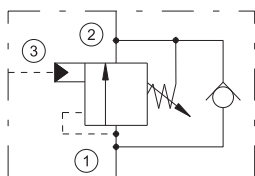
Features

- The setting value of the balance valve should be at least 1.3 times of the load pressure value.
- Backpressure at port 2 adds to the effective relief setting at a ratio of 1 plus the pilot ratio times the backpressure
- Reseat exceeds 85% of set pressure when the valve is standard set. Settings lower than the standard set pressure may result in lower reseat percentages

Operation

Counterbalance Valve with pilot assist are meant to control an overrunning load. The check valve allows free flow from the directional valve (port 2) to the load (port 1) while a direct-acting, pilot-assisted relief valve controls flow from port 1 to port 2. Pilot assist at port 3 lowers the effective setting of the relief valve at a rate determined by the pilot ratio. Other names for this valve include motion control valve and over-center valve.

Symbol



Order Codes

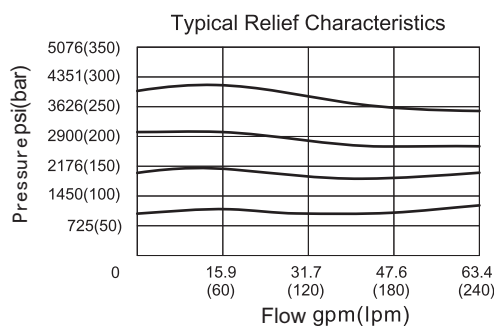
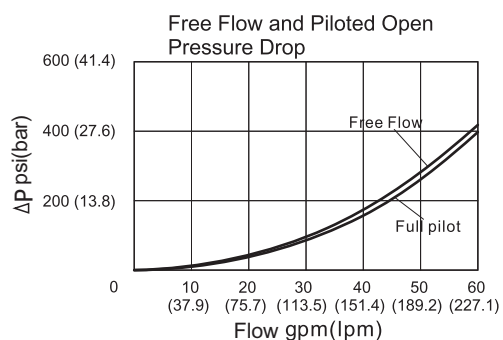
	Base Model		Pilot Ratio	Screw Adjust	Pressure Range	Seals
	EVCP	-	CBG	Table 1	Table 2	Table 3
Example	EVCP	-	CBG	A	A	B

Table 1	
Code	Pilot Ratio
A	3:1
G	4.5:1
H	10:1

Table 3	
Code	Seals
B	NBR
V	FKM

Table 2	
Code	Pressure Range
EVCP-CBGA:	
H	70-280 bar; Check: 1.7bar
I	28-105 bar; Check: 1.7bar
A	70-280 bar; Check: 0.3bar
B	28-105 bar; Check: 0.3bar
Code	Pressure Range
EVCP-CBGG/EVCP-CBGH:	
J	140-350 bar; Check: 1.7bar
K	70-175 bar; Check: 1.7bar
C	140-350 bar; Check: 0.3bar
D	70-175 bar; Check: 0.3bar

Performance Curves



Installation Dimensions

