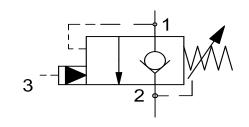
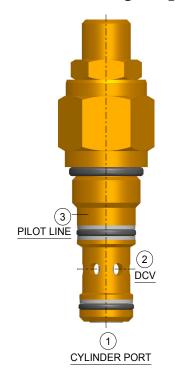
# Counterbalance Valve Poppet Type



- $Q_{(max)}$ =80 lpm ,  $P_{(max)}$ =350 bar , Pilot Ratio- 4.1:1
- Screw -in Cartridge,
- Direct Acting, Poppet Design, Pilot Assisted, Counterbalance Valve



- Smooth, **Modulated motion control** when load is in lowering/run-away condition.
- · Leak free load holding.
- Overset Protection -Spring cannot go solid.
- Protection against Hydraulic line failure.
- Available in Leakproof screw adjustment / Fixed setting cap.
- Can be fitted in line mounting bodies.
- All external parts are zinc plated ,chromated (CrVI-Free).
- Designed in accordance to Industry common
   Cavities.

#### 1. Description -

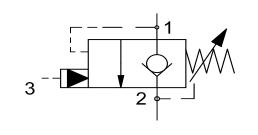
**SPCB** series catridge valves are **Screwin, Direct Acting, Poppet type, Pilot assisted** high performance Counterbalance valves. This cartridge controls moving load and prevent it from moving ahead, locking the load at a definite position. It also provides cavitation free motion control to match speed to pump flow when the load could cause loss of control of a cylinder or motor.

This Counterbalance Valve can be used in manifold blocks & line mounting bodies. All external parts of this cartridge are Zinc-plated and chromated (CrVI-free), poppet is hardened and thus suitable to be used in harshest environmental conditions and also provides long life to cartridge.



## SPCB-10

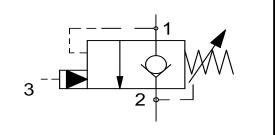
# Counterbalance Valve Poppet Type



### 2. Technical Data

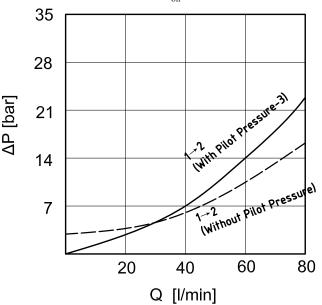
S.no.	General Specification	Values
1.	DESIGNATION	COUNTERBALNCE VALVE
2.	MOUNTING METHOD	SIO-2.5 CAVITY
3.	MAXIMUM OPERATING PRESSURE	350 BAR
4.	MAXIMUM FLOW	80 LPM
5.	MAXIMUM INTERNAL LEAKAGE	6 DROPS/MIN @90% OF CRACKING PRESSURE
6.	VALVE HOUSING	P <sub>Hydraulic system</sub> ≤ 210 BAR-ALUMINUM HOUSING-ANODISED P <sub>Hydraulic system</sub> >210BAR-STEEL HOUSING -ZINC PLATED
7.	OPERATING TEMPERATURE	-35° то +I20° С
8.	HYDRAULIC FLUID	MINERAL OILS WITH LUBRICATING PROPERTIES AT 15250 MM <sup>2</sup> /SEC
9.	MINIMUM FLUID CLEANINESS	ISO CLASS 20/18/15
10.	WEIGHT	0.22 KG
11.	INSTALLATION TORQUE	70-80 N/M
		<u> </u>

# Counterbalance Valve Poppet Type

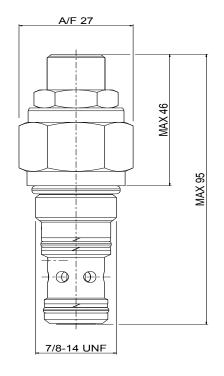


#### 3. P-Q Characteristics :

<u>Note</u>: The Performance Chart shows Flow handling capacity at specific pressure setting P/Q Curve is recorded at Temp<sub>oil</sub> =  $40^{\circ}$  C at 46 cst.



### 4. <u>Dimensioning</u>:



### 5. Ordering Code

- <u>10</u> - <u>X</u> - <u>X</u> VALVE BASIC CODE **HOUSING & PORTS** <u>CAVITY TYPE</u> = 7/8"-14 UNF : Cartridge only PRESSURE SETTING (bar) METRIC CAVITY AVAILABLE ON XA3 : 3/8" BSP XA4 : 1/2" BSP 000 = for no specific setting XB8 : SAE #8 ADJUSTMENT: XB10: SAE #10 **SPRING RANGE:** = CAPPED 10-100 bar = ADJUSTMENT SCREW 20-200 bar В A: Aluminium Housing

S: Steel Housing

SUBJECT TO CHANGE WITHOUT NOTICE