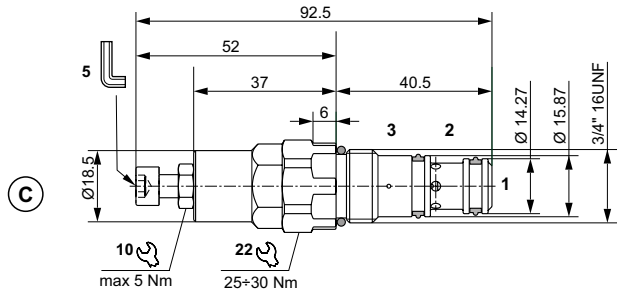
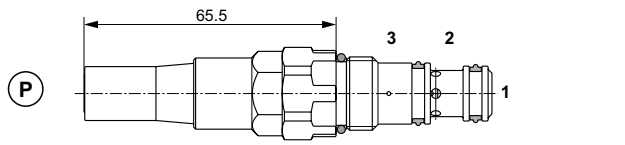
DIRECT ACTING OVERCENTER VALVES

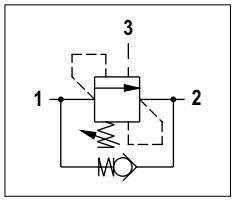




00012039	Spare seals kit

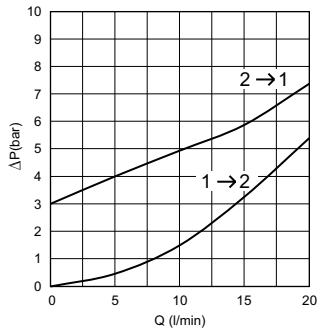
Counterbalance valves direct acting control the movement and the hold of an hydraulic actuator, for example a cylinder or a motor.
During the movement upward of the load the flow moves free in direction 2 → 1 through the check valve, and when the flow from the pump stop, the valve permits the stop of the movement (flow direction 1→ 2) limiting shocks generated by system inertia (antishock function).
The controlled movement downward of the load is obtained when the valves are both supplied with flow 1 → 2, (coming from the actuator) and on pilot port 3 (coming from the pump), that is also connected to the other port of the actuator restoring the costant filling to avoid cavitation. The valves are sensibles to pressure on port 2.
The valves are equipped with a mechanical end stroke that avoids the compression of the spring till solid block. The body is made of steel zinc coated, and the tapered spool is made of steel tempered and grinded.

HYDRAULIC SYMBOL



HYDRAULIC FEATURES

Max. pressure	350 bar
Setting range: Spring 2 (neutral) Spring 3 (red)	 max 180 bar max 350 bar
Pressure one-way check valve 2 → 1	3 bar
Valve leakage at 70% of pressure setting (0 ÷ 10 drops/min)	0 ÷ 0.5 cm^3/min
Max. Flow	20 l/min
Hydraulic fluid	DIN 51524 Mineral oils
Fluid viscosity	10 ÷ 500 mm^2/s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamin. level class with filter	ISO 4406:1999 - class 19/17/14
Weight	0.14 kg
Tightening torque	25 ÷ 30 Nm
Cavity (3/4" 16UNF)	C018003 (See section 17)



Fluid used: mineral based oil with viscosity 32 mm^2/s at 40°C.

ORDERING CODE

CCB	04	*	*	A	**	1

- **CCB** = Sequence valve (Series)
- **04** = 3/4" 16UNF (Size)
- **C** = Screw; **P** = **C** + Sealed cap (Adjustment)
- Setting ranges: **2** = max 180 bar (neutral spring); **3** = max 350 bar (red spring)
- Pilot ratio: **A** = 1 : 2,5
- Variants: **00** = No variants
- **1** = Serial No.