

C04B3H UP TO **120** L/MIN **32** USGPM
C04B3M AND **350** BAR **5000** PSI



PRESSURE REGULATING VALVE

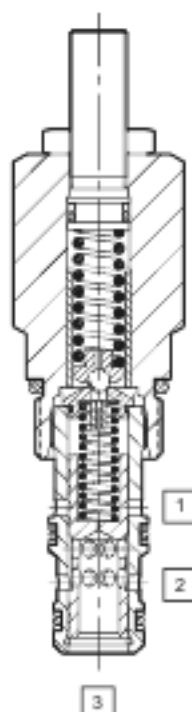
PILOT OPERATED, SPOOL TYPE WITH RELIEVING FEATURE.

- Maximum pressure setting up to 350 bar 5000 psi.
- Low pressure rise/flow characteristic.
- Spool valve for good stability.
- Partial reverse flow capability.
- Hardened working parts for maximum durability.
- Adjustable, preset and tamperproof versions available.
- Preset version is tamperproof and compact.

OPERATION

The adjustable spring-loaded ball in the pilot section is shifted at valve setting by the regulated outlet pressure sensed through an orifice in the main spool from port [3]. The resulting pilot flow creates a pressure drop across the spring-loaded main spool that then meters the supply flow from port [2], maintaining the regulated pressure on port [3]. An increase in the regulated pressure causes the spool to lift further and acts as a service line relief valve, closing the supply port [2] and then relieving to port [1]. Ports [2] and [3] remain normally open when port [3] pressure is below the valve setting.

Back pressure on port [1] adds to the valve setting.



SPECIFICATIONS

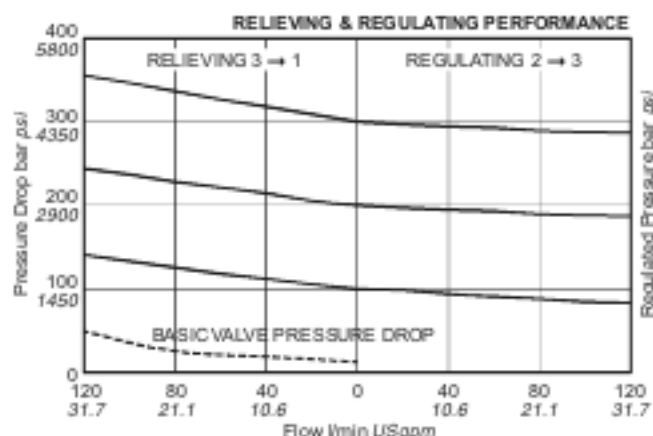
BASIC MODEL NUMBER	C04B3H	C04B3M
SYMBOL		
RATED FLOW	120 l/min 32 USgpm	
PRESSURE	10 - 210 bar 145 - 3000 psi	10 - 350 bar 145 - 5000 psi
MAX. INLET PRESSURE	420 bar 6000 psi	
SENSITIVITY: PRESSURE/TURN	30 bar 435 psi	55 bar 800 psi
FLUID *	MINERAL OIL OR SYNTHETIC FLUID WITH LUBRICANT PROPERTIES	
IDEAL VISCOSITY *	15 - 50 cSt 80 - 230 SSU	
SEAL MATERIAL / TEMPERATURE *	NITRILE (Std.) -30°C to +100°C -20°F to +210°F VITON -20°C to +150°C -4°F to +330°F	
FILTRATION *	25 MICRONS (Nom.) OR BETTER	
WEIGHT	0.24 kg 0.53 lb	
CAVITY	CAV04-3	

* IMPORTANT: See pages 582-583 for additional notes on operating conditions.

Specifications may change without notice

TYPICAL PERFORMANCE

Measured at 30 cSt 140 SSU (For cartridge only)



APPLICATION NOTE

- Drain line should be piped directly to tank. Any back pressure in the drain line will be additive to the regulated pressure.