

GS02 03
GS02 04
GS02 07
GS02 08

UP TO **38 L/MIN** **10 USGPM**
 AND **350 BAR** **5000 PSI**



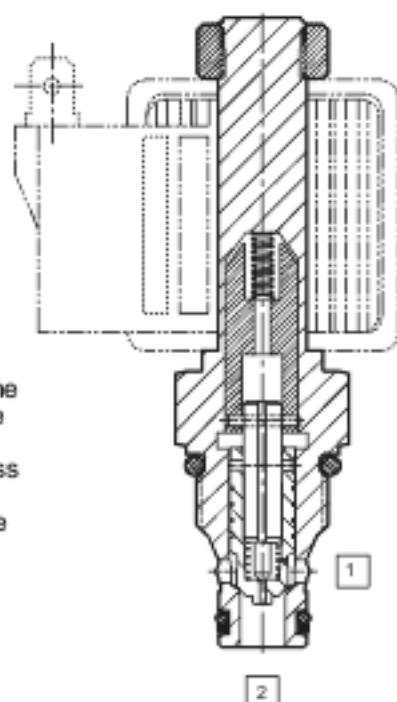
POPPET TYPE

2 Position 2 Way Normally Closed High Pressure

- High flow capacity with reduced space requirements.
- One piece cartridge housing ensures internal concentricity.
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Interchangeable with 04 and 06 series poppet valves; Symmetrical coil can be reversed without affecting performance.

OPERATION

De-energized the spring holds the pilot against its seat. Pressure on the side port behind the poppet holds it firmly closed. Pressure on the nose port lifts and opens the poppet. **Energized** the pilot is pulled by the armature lifting it off its seat. Side port pressure creates pilot flow across the poppet and a pressure imbalance which allows it to lift. Nose port pressure seats the poppet but allows restricted oil flow (without the free reverse flow feature).



PATENTS
 #5,002,253
 #5,271,599

SPECIFICATIONS

BASIC MODEL NUMBER	RESTRICTED REVERSE FLOW		FREE REVERSE FLOW	
	HIGH PRESSURE FAST RESPONSE GS02 03	HIGH PRESSURE HIGH FLOW GS02 04	HIGH PRESSURE FAST RESPONSE GS02 07	HIGH PRESSURE HIGH FLOW GS02 08
SYMBOL				
NOMINAL FLOW AT Δp = 5 bar 70 psi	19 l/min 5 USgpm	38 l/min 10 USgpm	19 l/min 5 USgpm	38 l/min 10 USgpm
PRESSURE	350 bar 5000 psi			
FUNCTION	FREE FLOW 1→2 AND RESTRICTED FLOW 2→1 WHEN SOLENOID IS ENERGIZED		FREE FLOW IN BOTH DIRECTIONS WHEN SOLENOID IS ENERGIZED	
RESPONSE TIME AT NOM. FLOW & PRESS.	OPEN 30 m. sec.	30 m. sec.	30 m. sec.	30 m. sec.
	CLOSE 30 m. sec.	40 m. sec.	30 m. sec.	40 m. sec.
MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU	0.33 ml/min 5 drops/min			
SERIES CC COIL WATTS (100% DUTY CYCLE)	19w (P Coil)			
MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW	75% OF NOMINAL AMPERAGE. DETAILS: COIL DATA SHEET page 204			
INSTALLATION	UNRESTRICTED			
FLUID*	MINERAL OIL OR SYNTHETIC FLUID WITH LUBRICANT PROPERTIES			
IDEAL VISCOSITY*	15-80 cSt 80-230 SSU			
SEAL MATERIAL/TEMPERATURE*	NITRILE (Std.) -30°C to +100°C BUNA-N -20°F to +210°F VITON -20°C to +150°C -4°F to +330°F			
FILTRATION*	25 MICRONS (Nom.) OR BETTER			
CART. WEIGHT	0.14 kg 0.31 lb			
COIL WEIGHT	0.20 kg 0.44 lb			

* 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)

