**GS06 01****GS06 03****GS06 05****GS06 07**

UP TO **190 L/MIN** **50 USGPM**
AND **350 BAR** **5000 PSI**



POPPET TYPE

2 Position 2 Way

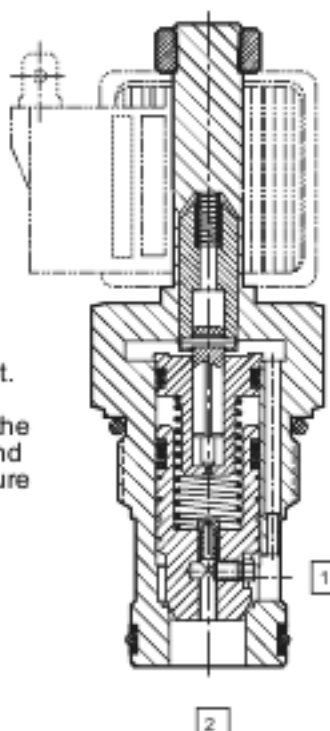
Normally Closed

Nose-In, Side-Out Operation

- Built-in thermal relief set at 36 bar 500 psi above rated pressure.
- One piece cartridge housing ensures internal concentricity.
- Coil: Waterproof, hermetically sealed, requires no O-Rings; Interchangeable with 02 and 04 series poppet valves; Symmetrical coil can be reversed without affecting performance.

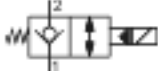
OPERATION

De-energized the spring behind the armature holds the pilot against its seat. Nose port pressure acts behind the poppet holding it firmly closed. Side pressure, lifts the poppet, allowing free flow. **Energized** the armature pulls the pilot off its seat. Nose port pressure creates pilot flow through the poppet and pilot stage causing a pressure imbalance lifting the poppet. Side port pressure seats the poppet, but allows restricted flow (without the free reverse flow feature).



PATENT
#5,002,253

SPECIFICATIONS

BASIC MODEL NUMBER	RESTRICTED REVERSE FLOW		FREE REVERSE FLOW	
	STANDARD GS06 01	HIGH PRESSURE GS06 03	STANDARD GS06 05	HIGH PRESSURE GS06 07
SYMBOL				
NOMINAL FLOW AT $\Delta p = 5 \text{ bar } 70 \text{ psi}$	190 l/min 50 USgpm			
PRESSURE	210 bar 3000 psi	350 bar 5000 psi	210 bar 3000 psi	350 bar 5000 psi
MIN Δp TO LIFT POPPET	3 bar 40 psi			
FUNCTION	FREE FLOW 2→1 AND RESTRICTED FLOW 1→2 WHEN SOLENOID IS ENERGIZED		FREE FLOW IN BOTH DIRECTIONS WHEN SOLENOID IS ENERGIZED	
RESPONSE TIME AT NOM. OPEN FLOW & CLOSE PRESS.	40 m. sec. 50 to 280 m. sec.			
MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU	0.5 ml/min 8 drops/min			
SERIES CC COIL WATTS. (100% DUTY CYCLE)	14w (S Coil)	19w (P Coil)	14w (S Coil)	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 *	15-50 cSt 80-230 SSU			
SEAL MATERIAL/ TEMPERATURE *	NITRILE (Std.) -30°C to +100°C -20°F to +210°F BUNA-N -20°C to +150°C -4°F to +330°F VITON -20°C to +150°C -4°F to +330°F			
FILTRATION *	25 MICRONS (Nom.) OR BETTER			
CART. WEIGHT	0.4 kg 0.88 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 30cSt 140 SSU (For cartridge only)

