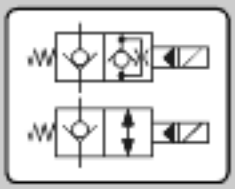


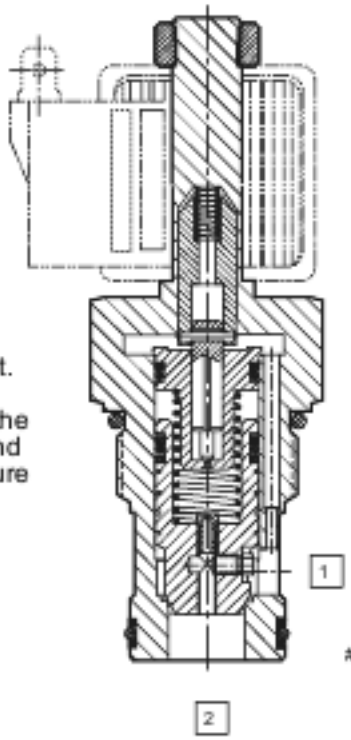
GS06 01
GS06 03
GS06 05
GS06 07

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.

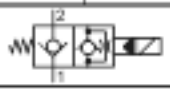
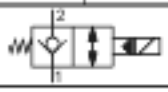


PATENT #5,002,253

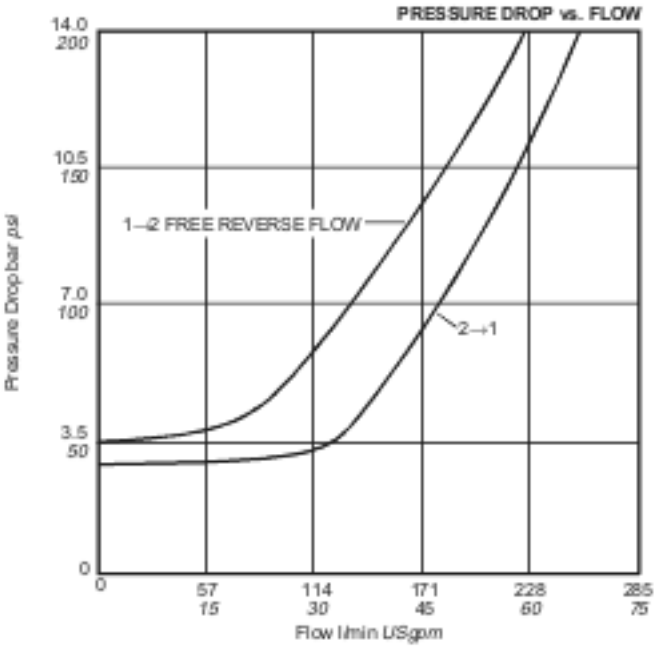
OPERATION

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).

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 Δp = 5 bar *70 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. FLOW & PRESS. OPEN / CLOSE	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.) *BUNA-N* -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			
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)