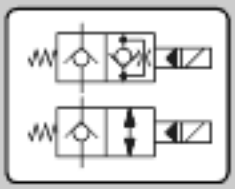


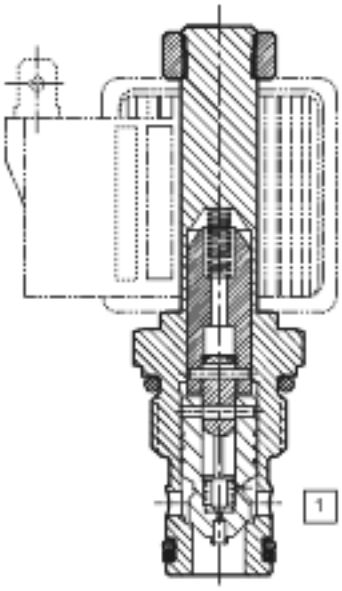
GS04 02
GS04 04
GS04 06
GS04 08

UP TO **75** L/MIN **20** USGPM
AND **350** BAR **5000** PSI

POPPET TYPE

2 Position 2 Way
Normally Closed

- High flow capacity with reduced space requirements.
- One piece cartridge housing ensures internal concentricity.
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Interchangeable with 02 and 06 series poppet valves; Symmetrical coil can be reversed without affecting performance.

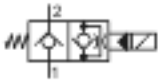
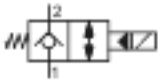


PATENT #5,002,253

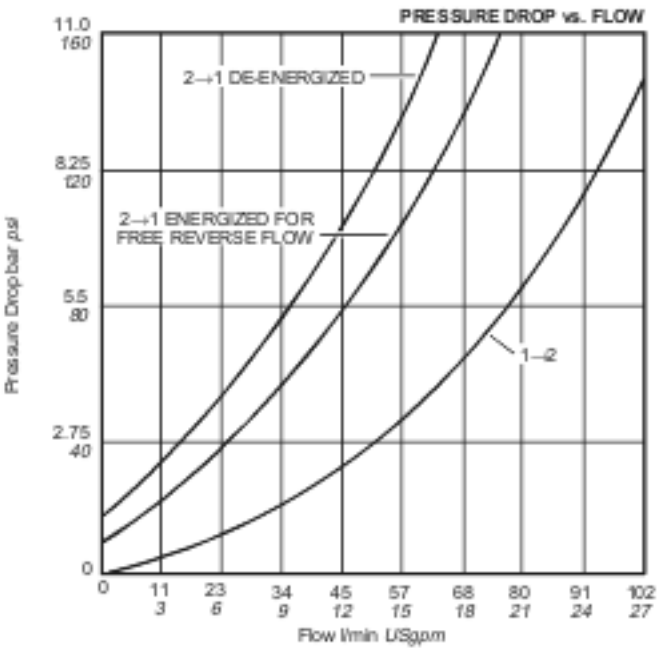
OPERATION

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).

SPECIFICATIONS

BASIC MODEL NUMBER	RESTRICTED REVERSE FLOW		FREE REVERSE FLOW	
	STANDARD GS04 02	HIGH PRESSURE GS04 04	STANDARD GS04 06	HIGH PRESSURE GS04 08
SYMBOL				
NOMINAL FLOW AT Δp = 5 bar *70 psi*	75 l/min *20 USgpm*			
PRESSURE	210 bar *3000 psi*	350 bar *5000 psi*	210 bar *3000 psi*	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 / CLOSE	80 m. sec. / 70 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)	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	0.15 kg *0.34 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)