**GS02 11****GS02 12****GS02 15****GS02 16**UP TO **30 L/MIN**AND **210 BAR****8 USGPM****3000 PSI**

POPPET TYPE

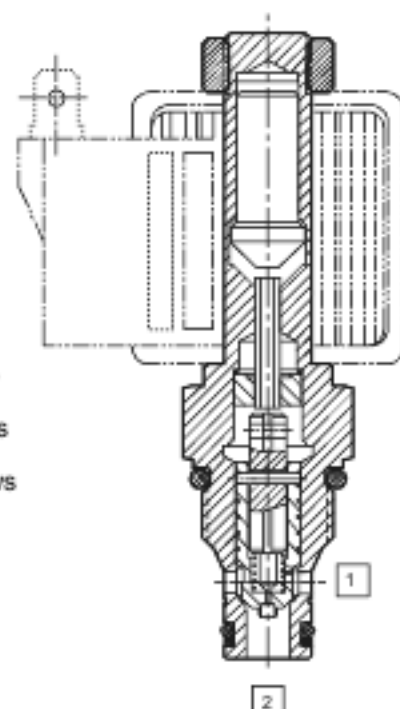
2 Position 2 Way

Normally Open

- 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 pilot is held off its seat via a light spring and the poppet moves freely to allow flow from the side to nose port. Pressure on the nose port forces the poppet to close giving only restricted flow (without the free reverse flow feature). **Energized** the armature pushes the pilot and poppet onto their seats. Pressure on the side port firmly closes the poppet. Pressure on the nose port lifts the poppet and allows free flow.

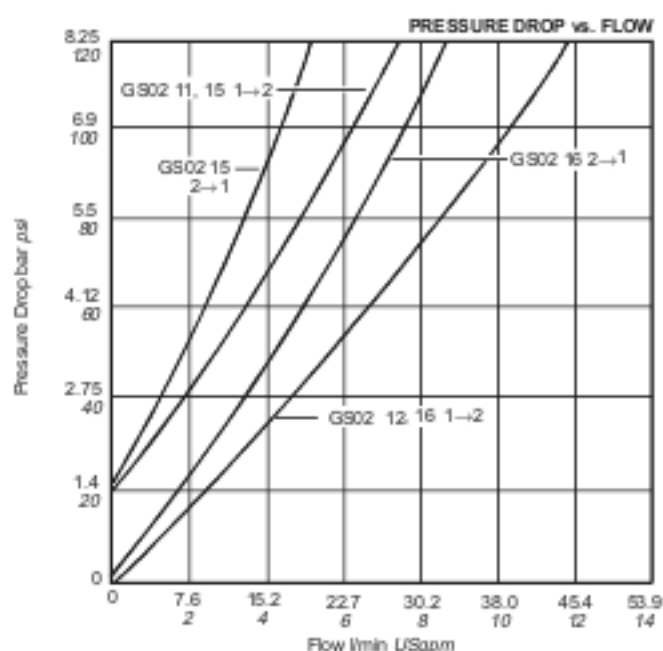
PATENT
#5,002,253

SPECIFICATIONS

BASIC MODEL NUMBER	RESTRICTED REVERSE FLOW		FREE REVERSE FLOW	
	FAST RESPONSE GS02 11	HIGH FLOW GS02 12	FAST RESPONSE GS02 15	HIGH FLOW GS02 16
SYMBOL				
NOMINAL FLOW AT Δp = 5 bar 70 psi	15 l/min 4 USgpm	30 l/min 8 USgpm	15 l/min 4 USgpm	30 l/min 8 USgpm
PRESSURE	210 bar 3000 psi			
FUNCTION	FREE FLOW 1→2 AND RESTRICTED FLOW 2→1 WHEN SOLENOID IS DE-ENERGIZED		FREE FLOW IN BOTH DIRECTIONS WHEN SOLENOID IS DE-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	0.5 ml/min 8 drops/min			
SERIES CC COIL WATTS. (100% DUTY CYCLE)	14w (5' 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 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			

TYPICAL PERFORMANCE

Measured at 30cSt 140 SSU (For cartridge only)



* IMPORTANT: See pages 582-583 for additional notes on operating conditions. Specifications may change without notice.