

GS02 33
GS02 35

UP TO **13** L/MIN
AND **350** BAR

3.5 USGPM
5000 PSI



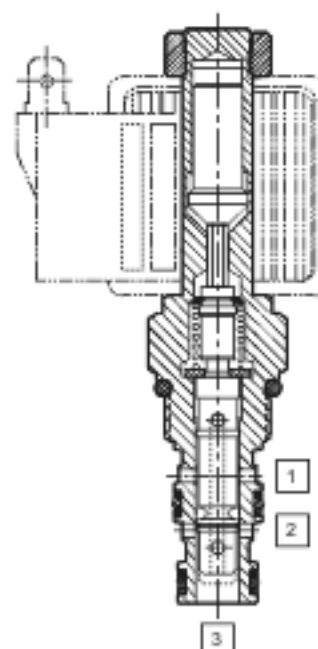
SPOOL TYPE

2 Position 3 Way Side Cylinder Port

- High flow capacity.
- One piece cartridge housing ensures internal concentricity.
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Symmetrical coil can be reversed without affecting performance.

OPERATION

De-energized, pressure is trapped at port 1 between the spool lands. Flow is allowed in either direction at ports 2 and 3. The spring and collet maintain this position. **Energized**, the armature pushes the spool against the spring force connecting ports 1 & 2 between the spool lands and blocking the path between ports 2 & 3. Oil will flow either direction from ports 1 & 2.



PATENT
#5,002,253

SPECIFICATIONS

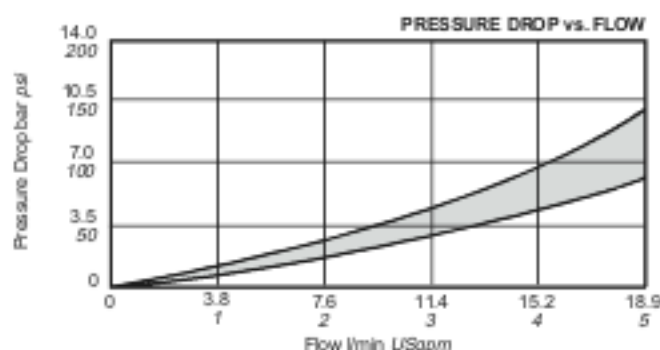
BASIC MODEL NUMBER	STANDARD GS02 33	HIGH FLOW GS02 33	HIGH PRESSURE GS02 35
SYMBOL & CROSSOVER			
NOMINAL FLOW AT $\Delta p = 5 \text{ bar } 70 \text{ psi}$	11 l/min 3 USgpm	13 l/min 3.5 USgpm	11 l/min 3 USgpm
PRESSURE	210 bar 3000 psi		350 bar 5000 psi
FUNCTION	2+3 WHEN SOLENOID IS DE-ENERGIZED. 1+2 WHEN SOLENOID IS ENERGIZED.		
SERIES CC COIL WATTS (100% DUTY CYCLE)	14w (S ¹ Coil)	19w (P ¹ Coil)	
MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU	82 c/min @ 210 bar 3000 psi		
MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW	75% OF NOMINAL AMPERAGE, DETAILS: COIL DATA SHEET page 204		
PREFERABLE INPUT/OUTPUT PORT LOCATION	UNRESTRICTED		
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	0.23 kg 0.51 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)



Measured at 75%
of nominal current

OPERATING LIMITS
Reduce flow by 10% for manual override

