

GS02 20 UP TO 19 L/MIN GS02 22 AND 350 BAR

5 USGPM 5000 PSI



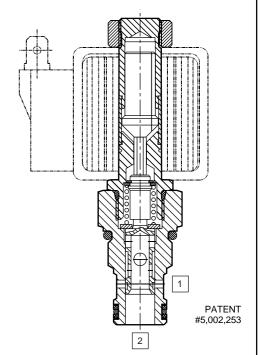
SPOOL TYPE

2 Position 2 Way Normally Closed

- 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 the spool land blocks the annular entry holes in the cage, preventing flow in either direction. The spring and collet maintain this position. **Energized** the armature pushes the spool against the spring force, opening a flow path through the spool, connecting both ports. Oil flows in either direction.



SPECIFICATIONS

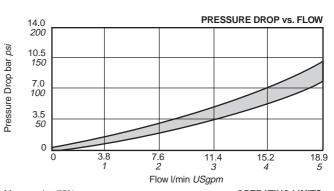
BASIC MODEL NUMBER	STANDARD GS02 20	HIGH FLOW GS02 20	HIGH PRESSURE GS02 22			
SYMBOL		W 1				
NOMINAL FLOW AT ∆p = 5 bar 70 psi		13 l/min <i>3.5 USgpm</i>				
PRESSURE	210 300	350 bar <i>5000 psi</i>				
FUNCTION	FREE FLOW IN BOTH DIRECTIONS WHEN SOLENOID IS ENERGIZED.					
SERIES CC COIL WATTS. (100% DUTY CYCLE)	14w 19w ('S' Coil) ('P' Coil)					
MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU	82 cc/min @ 210 bar <i>3000 psi</i>					
MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW	DETAILS: (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 BUNA-N -20°F to +210°F VITON -20°C to +150°C -4°F to +330°F					
FILTRATION *	25 MICR	ONS (Nom.) OR E	ETTER			
CART. WEIGHT		0.14 kg <i>0.31 lb</i>				
COIL WEIGHT		0.20 kg <i>0.44 lb</i>				

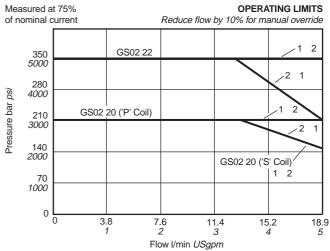
^{*} IMPORTANT: See pages 582-583 for additional notes on operating conditions.

Specifications may change without notice

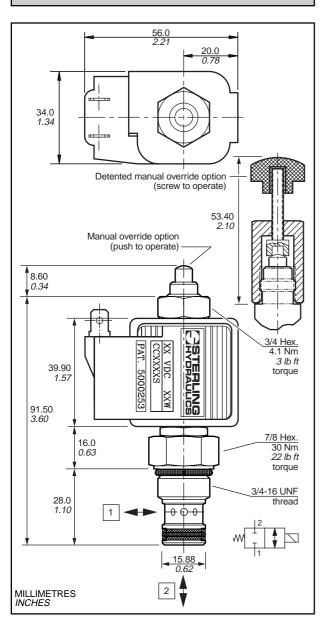
TYPICAL PERFORMANCE

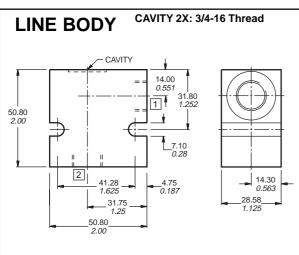
Measured at 30cSt 140 SSU (For cartridge only)



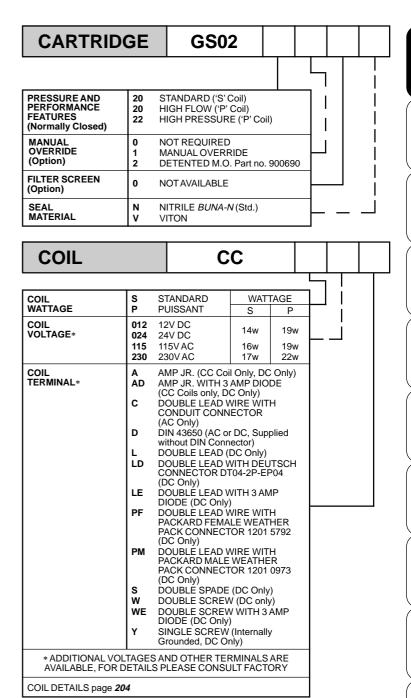


DIMENSIONS





CAVITY TOOLING FOR 2X CAVITY								
PILOT DRILL Ø STEP DRILL REAMER (ALUM)	MM INCH 14.80 0.58 8DS31344 8RM31057A	REAMER (STEEL) 8RM31057S COUNTERBORE - TAP 8TP31202						
MACHINING DETAILS PAGE 565								



LINE BODY			LB10		
PORTING	513 515		8 SAE 4 BSP		
LINE BODY MATERIAL		TO 210 bar <i>3000 psi</i>		<u> </u>	_
LINE BODY DETAILS	S page 5	22			

SK30076N-1 (NITRILE-BUNA N)

SK30076V-1 (VITON)



SEAL KIT

SOLENOID

PROPORTIONA

DIRECTIONAL

DIVERTER

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SEQUENCE

PRESSURE

LOAD

FLOW

CAVITI

TECHNICAL