

GS02 30 GS02 31 GS02 32

UP TO 19 L/MIN AND 350 BAR

5 USGPM 5000 PSI



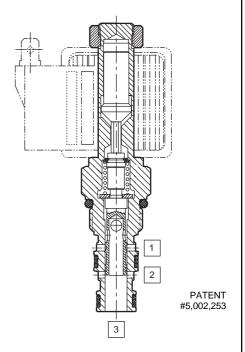
# **SPOOL TYPE**

## 2 Position 3 Way Bottom 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.

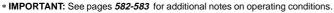
#### OPERATION

**De-energized**, the spool land blocks the annular cross holes in the cage at port 1, and partially blocks the annular holes at port 2. The spring and collet maintain this position. Flow is blocked at port 1 and will flow from port 3 to port 2. **Energized**, the armature pushes the spool against the spring force, blocking port 2 and allowing flow from port 1 through the hollow spool to port 3.



#### **SPECIFICATIONS**

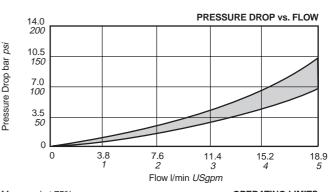
SYMBOL & CROSSOVER   15   /min   19   /min   15   /min   10   /min   15   /min   10   /min   15   /						
NOMINAL FLOW AT		•	FLOW	HIGH PRESSURE <b>GS02 32</b>		
Ap = 5 bar 70 psi         4 USgpm         5 USgpm         4 USgpm           PRESSURE         210 bar 3000 psi         350 bar 5000 psi           FUNCTION         3→2 WHEN SOLENOID IS DE-ENERGIZED. 1→3 WHEN SOLENOID IS ENERGIZED.           SERIES CC COIL WATTS. (100% DUTY CYCLE)         14w ('S' Coil)         19w ('P' Coil)           MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU         82 cc/min @ 210 bar 3000 psi at 38 cSt 180 SSU           MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW         75% OF NOMINAL AMPERAGE, DETAILS: COIL DATA SHEET page 204		3   W				
TUNCTION   3→2 WHEN SOLENOID IS DE-ENERGIZED.   1→3 WHEN SOLENOID IS ENERGIZED.   SERIES CC COIL WATTS. (100% DUTY CYCLE)   14w ('S' Coil)   ('P' Coil)     MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU   180 SSU   210 bar 3000 psi at 38 cSt 180 SSU   375% OF NOMINAL AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW   5000 psi   5000						
SERIES CC COIL WATTS. (100% DUTY CYCLE)  MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU  MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW  1 4w ('S' Coil) 14w ('S' Coil) ('P' Coil) 82 cc/min @ 210 bar 3000 psi	PRESSURE					
WATTS. (100% DUTY CYCLE)	FUNCTION					
LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU  MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW  82 cc/min @ 210 bar 3000 psi 85 cSt 180 SSU  87 CF NOMINAL AMPERAGE, DETAILS: COIL DATA SHEET page 204	WATTS, (100%					
OPERATE VALVE AT MAX RATED PRESSURE & FLOW 75% OF NOMINAL AMPERAGE, DETAILS: COIL DATA SHEET page 204	LEAK AT 210 bar <i>3000 psi</i>	82 cc/min @ 210 bar <i>3000 psi</i>				
PREFERABLE	OPERATE VALVE AT MAX RATED	DETAILS: COIL DATA SHEET page 204				
INPUT, OUTPUT 1-INPUT, 2-OUTPUT, 3-OUTPUT PORT LOCATION		1-INPUT, 2-OUTPUT, 3-OUTPUT				
INSTALLATION UNRESTRICTED	INSTALLATION	UNRESTRICTED				
FLUID * MINERAL OIL OR SYNTHETIC FLUID WITH LUBRICANT PROPERTIES	FLUID *					
IDEAL VISCOSITY * 15-50 cSt 80-230 SSU	IDEAL VISCOSITY *	15-50 cSt 80-230 SSU				
NITRILE (Std.) -30°C to +100°C		BUNA-N -20°F to +210°F VITON -20°C to +150°C				
FILTRATION * 25 MICRONS (Nom.) OR BETTER	FILTRATION *	25 MICRONS (Nom.) OR BETTER				
<b>CART. WEIGHT</b> 0.23 kg <i>0.51 lb</i>	CART. WEIGHT	0.23 kg <i>0.51 lb</i>				
<b>COIL WEIGHT</b> 0.20 kg <i>0.44 lb</i>	COIL WEIGHT	0.20 kg <i>0.44 lb</i>				

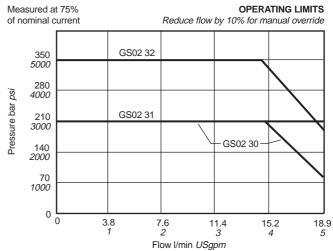


Specifications may change without notice

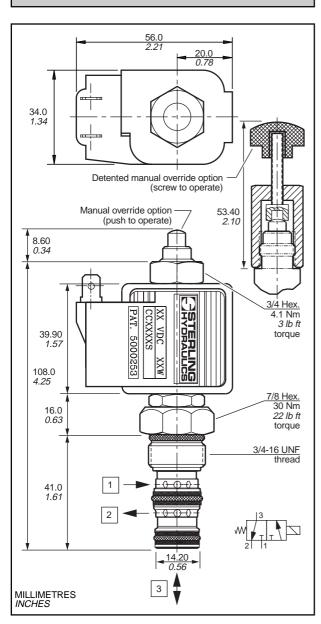
### TYPICAL PERFORMANCE

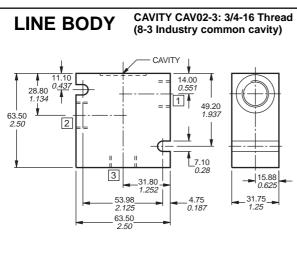
Measured at 30cSt 140 SSU (For cartridge only)



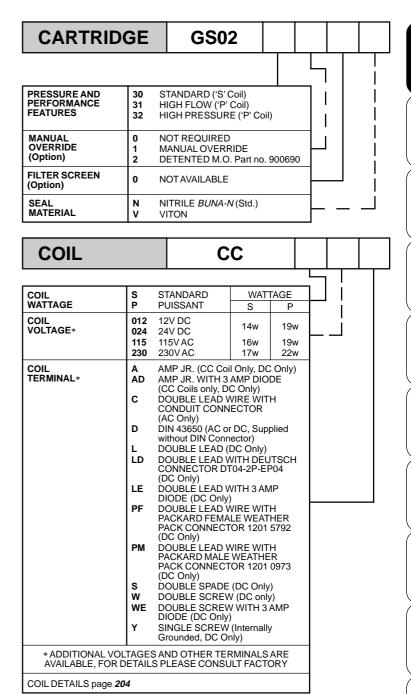


#### **DIMENSIONS**





<b>CAVITY TOOL</b>	ING FOR C	AV02-3
PILOT DRILL Ø STEP DRILL REAMER (ALUM)	MM INCH 13.00 0.51 8DS31345 8RM31058A	REAMER (STEEL) 8RM31058S COUNTERBORE - TAP 8TP31202
MACHINING DETA	II S PAGE 536	



LINE BC	DY	LB10			
PORTING	1	5/8 SAE 5/8 BSP			
LINE BODY MATERIAL	<b>s</b> s	LUMINIUM (Anodised) O 210 bar <i>3000 psi</i> TEEL (Zinc plated) O 420 bar <i>6000 psi</i>	_	_	_
LINE BODY DETAI	LS page <b>511</b>				
SEAL KIT		SK30077N-1 (NITRILE-BUNA N) SK30077V-1 (VITON)			



SOLENOID

PROPORTIONA

DIRECTIONAL

DIVERTER

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SEQUENCE

PRESSURE

LOAD

FLOW

CAVITIES

TECHNICAL