

**GS02 75 GS02 76 GS02 79** 

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

.45 USGPM **5000** PSI



# **POPPET TYPE**

## 2 Position 2 Way **Normally Open Direct Acting**

- Fast response.
- 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.

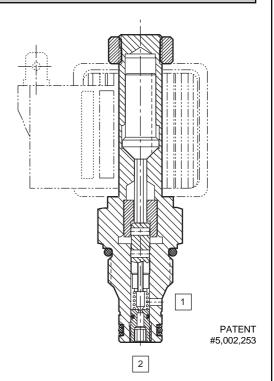
OPERATION
De-energized the pilot is biased open via a light spring. Flow is allowed in either direction. Energized the armature pushes the pilot onto its seat. Side port pressure holds the pilot firmly closed. Pressure above valve rating on the nose will lift the pilot causing relief flow.

#### **SPECIFICATIONS**

BASIC MODEL NUMBER	STANDARD GS02 75	ZERO DROPS <b>GS02 76</b>	HIGH PRESSURE POPPET RELIEF** <b>GS02 79</b>		
SYMBOL	W 1	w 2			
NOMINAL FLOW AT ∆p = 5 bar 70 psi	1 l/min 0.26 USgpm				
PRESSURE	210 300	350 bar <i>5000 psi</i>			
FUNCTION	1→2 CI WH SOLEN ENER(	2→1 CLOSED WHEN SOLENOID IS ENERGIZED			
RESPONSE TIME AT NOM. FLOW & CLOSE PRESS.	10 m. sec.				
MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU	0.33 ml/min 5 drops/min	ZERO DROPS SOFT (Delrin) SEAT	0.33 ml/min 5 drops/min		
SERIES CC COIL WATTS. (100% DUTY CYCLE)	14 ('S' (	19w ('P' Coil)			
MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW	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 *	STEEL SEAT   DELRIN SEAT   NITRILE (Std.) -30°C to +100°C   -30°C to +100°C   -30°C to +100°C   -20°F to +210°F   -20°F to +210°F   VITON   -20°C to +150°C   -20°C to +150°C   -4°F to +330°F   -4°F to +330°F				
FILTRATION *	25 MICRONS (Nom.) OR BETTER				
CART. WEIGHT	0.14 kg <i>0.31 lb</i>				
COIL WEIGHT	0.20 kg <i>0.44 lb</i>				

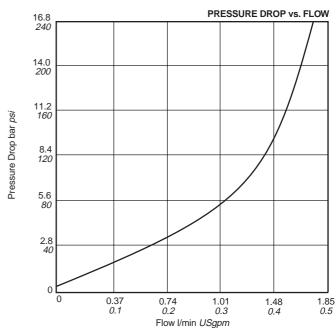
<sup>\*</sup> IMPORTANT: See pages 582-583 for additional notes on operating conditions. \*\*Minimum poppet relief pressure, 5300 psi.

Specifications may change without notice

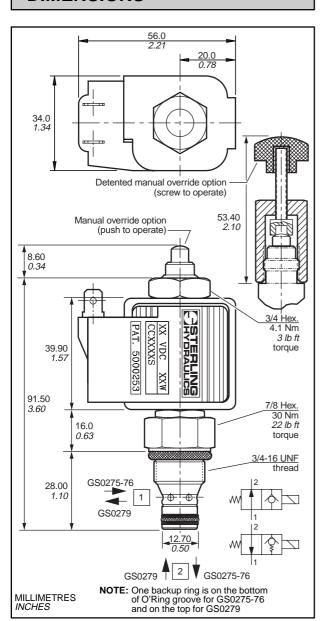


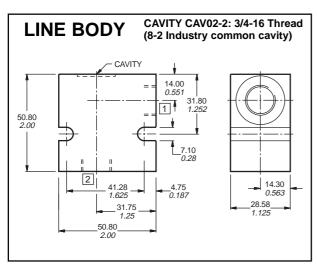
### TYPICAL PERFORMANCE

Measured at 30cSt 140 SSU (For cartridge only)

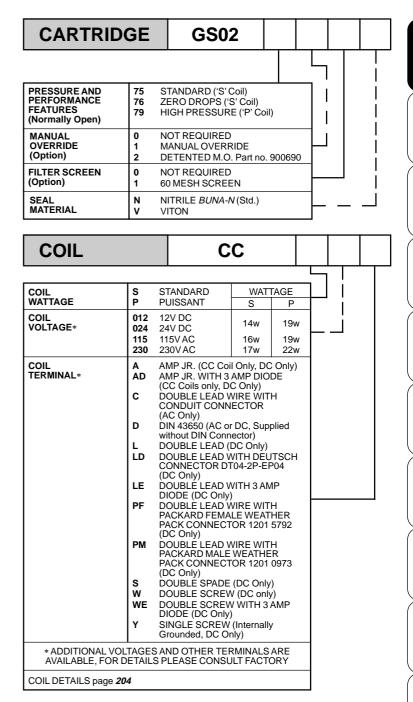


#### **DIMENSIONS**





CAVITY TOOLING FOR CAV02-2						
PILOT DRILL Ø STEP DRILL REAMER (ALUM)	MM INCH 11.70 0.46 8DS31356 8RM31066A	REAMER (STEEL) 8RM31066S COUNTERBORE - TAP 8TP31202				
MACHINING DETA	ILS PAGE 535					



LINE BODY		LB10			
PORTING		3/8 SAE 3/8 BSP			
LINE BODY MATERIAL	<b>S</b> S	TO 210 bar <i>3000 psi</i>		_	
LINE BODY DETAI	LS page <i>511</i>				
SEAL KIT	SK3000	06N-1 (NITRILE- <i>BUNA N</i> )			
<u> </u>		K30006V-1 (VITON)			



SOLENOID

**PROPORTIONA** 

DIRECTIONAL

DIVERTER

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SEQUENCE

PRESSURE

LOAD

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CAVITIES

TECHNICAL