

GS02 01

GS02 02

GS02 06

GS02 05 AND

210 BAR

UP TO

38 L/MIN

10 USGPM 3000 PSI



PATENT

POPPET TYPE

2 Position 2 Way **Normally Closed**

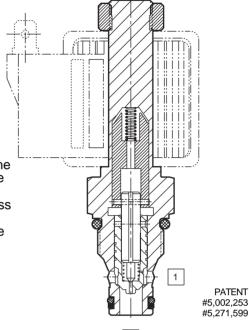
- High flow capacity with reduced space requirements.
- One piece cartridge housing ensures internal concentricity.
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Interchangeable with 04 and 06 series poppet valves; Symmetrical coil can be reversed without affecting performance.

De-energized the spring holds the pilot against its seat. Pressure on the side port behind the poppet holds it firmly closed. Pressure on the nose port lifts and opens the poppet. Energized the pilot is pulled by the armature lifting it off its seat. Side port pressure creates pilot flow across the poppet and a pressure imbalance which allows it to lift. Nose port pressure seats the poppet but allows restricted oil flow (without the free reverse flow feature).

SPECIFICATIONS

	RESTR REVERS	RICTED SE FLOW	FREE REVERSE FLOW					
BASIC MODEL NUMBER	FAST RESPONSE GS02 01	HIGH FLOW GS02 02	FAST RESPONSE GS02 05	HIGH FLOW GS02 06				
SYMBOL	W 1							
NOMINAL FLOW AT ∆p = 5 bar <i>70 psi</i>	19 l/min 5 USgpm	38 l/min 10 USgpm	19 l/min 5 USgpm	38 l/min 10 USgpm				
PRESSURE	210 bar <i>3000 psi</i>							
FUNCTION		TED FLOW SOLENOID	FREE FLOW IN BOTH DIRECTIONS WHEN SOLENOID IS ENERGIZED					
RESPONSE TIME AT NOM. FLOW & PRESS. OPEN CLOSE	30 m. sec. 30 m. sec.	30 m. sec. 40 m. sec.	30 m. sec. 30 m. sec.	30 m. sec. 40 m. sec.				
MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU	0.33 ml/min <i>5 drops/min</i>							
SERIES CC COIL WATTS. (100% DUTY CYCLE)	14w ('S' 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 8	30-230 SSU					
SEAL MATERIAL/ TEMPERATURE *	BUN	VA-N`´	-30°C to +100°C -20°F to +210°F -20°C to +150°C -4°F to +330°F					
FILTRATION *	25 MICRONS (Nom.) OR BETTER							
CART. WEIGHT	0.14 kg <i>0.31 lb</i>							
COILWEIGHT	0.20 kg <i>0.44 lb</i>							

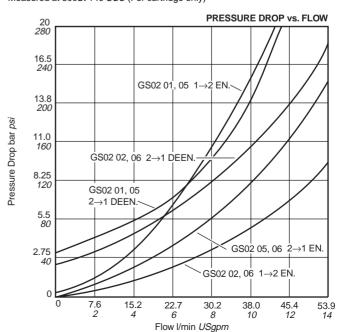
^{*} IMPORTANT: See pages 582-583 for additional notes on operating conditions. Specifications may change without notice



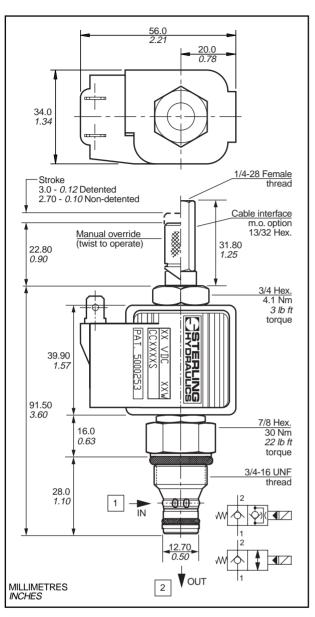
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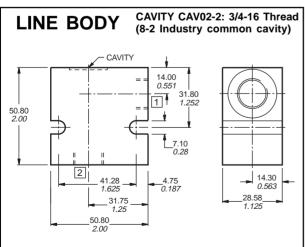
TYPICAL PERFORMANCE

Measured at 30cSt 140 SSU (For cartridge only)



DIMENSIONS





CAVITY	TOOLING	FOR C	CAV02-2

MM INCH 11.70 0.46 PILOT DRILL Ø STEP DRILL 8DS31356 REAMER (ALUM) 8RM31066A

REAMER (STEEL) 8RM31066S COUNTERBORE 8TP31202 TAP

MACHINING DETAILS PAGE 535

CARTRIC	GE		GS02				
PRESSURE AND PERFORMANCE FEATURES (Normally Closed)	01 02 05 06	R H R F/Fi H	AST RESPONSE ('S' Co estricted reverse flow IGH FLOW ('S' Coil) estricted reverse flow AST RESPONSE ('S' Coi ree reverse flow IGH FLOW ('S' Coil) ree reverse flow	,			
MANUAL OVERRIDE (Option)	0 1 2 3	D N	OT REQUIRED ETENTED M.O. ON DETENTED M.O. ABLE INTERFACE M.O.				

CABLE INTERFACE M. O. (210 bar *3000 psi*)

NOT REQUIRED

VITON

60 MESH SCREEN

NITRILE BUNA-N (Std.)

FILTER SCREEN

(Option)

MATERIAL

SEAL

0

N V

COIL			С	С					
							\neg		
COIL WATTAGE	S P		TANDARD JISSANT	WAT S	TAGE P	\dashv		ļ	
COIL VOLTAGE*	012 024 115 230	24 11	2V DC 4V DC 5V AC 80V AC	14w 16w 17w	19\ 19\ 22\	,	_	_	
COIL TERMINAL*	A AD C D LLD LE PF PM S WE Y		MP JR. (CC Coil MP JR. WITH 3, C Coils only, DC DUBLE LEAD W. DNDUIT CONNE C Only) N 43650 (AC or thout DIN Conn DUBLE LEAD W. DNDELE LEAD W. DNNECTOR DT: C Only) DUBLE LEAD W. DUBLE LEAD W. ODE (DC Only) DUBLE LEAD W. CKARD FEMAL ACK CONNECT: C Only) DUBLE LEAD W. CKARD MALE N. CK	AMP DIOLO CONIV) (IRE WITH- COTOR DC, SUPR ector) DC Only) (ITH DEUT 04-2P-EPC //ITH 3 AM //IRE WITH- E WEATH- OR 12015 //IRE WITH- WEATH- OR 12010 (IDC Only) ((DC Only) / WITH 3 A (Internally	DE Solid Section Secti	-			
* ADDITIONAL VOLTAGES AND OTHER TERMINALS ARE AVAILABLE, FOR DETAILS PLEASE CONSULT FACTORY									
COIL DETAILS page 20	04								

LB10



503

506

S

3/8 SAE 3/8 BSP

ALUMINIUM (Anodised)

TO 210 bar 3000 psi

STEEL (Zinc plated)

TO 420 bar 6000 psi

SK30006N-1 (NITRILE-BUNA N) SK30006V-1 (VITON)

LINE BODY

LINE BODY DETAILS page 511

PORTING

LINE BODY

MATERIAL

SEAL KIT