

GS04 12

GS04 13 GS04 16

GS04 17

68 L/MIN UP TO 210 BAR AND

18 USGPM 3000 PSI



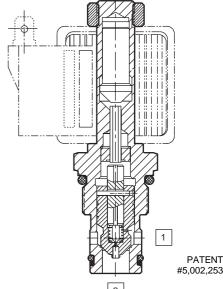
POPPET TYPE

2 Position 2 Way **Normally Open**

- High flow capacity with reduced space requirements.
- One piece cartridge housing ensures internal concentricity.
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Interchangeable with 02 and 06 series poppet valves; Symmetrical coil can be reversed without affecting performance.

OPERATION

De-energized the pilot is held off its seat via a light spring and the poppet moves freely to allow flow from the side to nose port. Pressure on the nose port forces the poppet to close giving only restricted flow (without the free reverse flow feature). **Energized** the armature pushes the pilot and poppet onto their seats. Pressure on the side port firmly closes the poppet. Pressure on the nose port lifts the poppet and allows free flow.



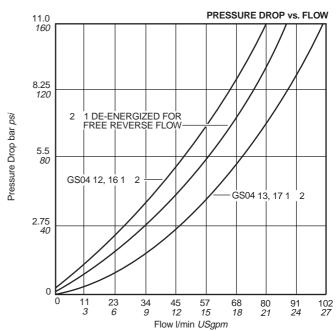
SPECIFICATIONS

| | | RICTED SE FLOW | FREE REVERSE FLOW | | | |
|---|---|-----------------------|---|----------------------|--|--|
| BASIC MODEL NUMBER | STANDARD GS04 12 | HIGH | STANDARD GS04 16 | HIGH | | |
| | 12 | G304 13 | W 10 GS04 17 | | | |
| SYMBOL | W) 1 | | | | | |
| NOMINAL FLOW AT ∆p = 5 bar <i>70 psi</i> | 50 l/min 13 USgpm | 68 l/min 18 USgpm | 50 l/min 13 USgpm | 68 l/min 18 USgpm | | |
| PRESSURE | 210 bar <i>3000 psi</i> | | | | | |
| FUNCTION | FREE FLOW 1→2 AND RESTRICTED FLOW DIRECTIONS W 2→1 WHEN SOLENOID IS DE-ENERGIZED DE-ENERGIZED | | | | | |
| RESPONSE TIME AT NOM. FLOW & CLOSE PRESS. | 100 m. sec. 70 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) | 19w ('P' Coil) | 14w ('S' Coil) | 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 * | | <i>VA-N</i> ` ´ ON | -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 | 0.15 kg <i>0.34 lb</i> | | | | | |
| COIL WEIGHT | 0.20 kg <i>0.44 lb</i> | | | | | |

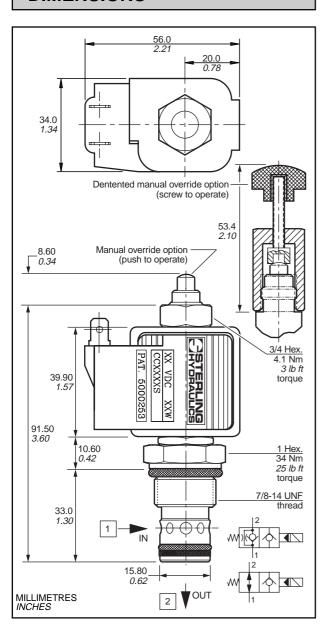
^{*} IMPORTANT: See pages 582-583 for additional notes on operating conditions. Specifications may change without notice

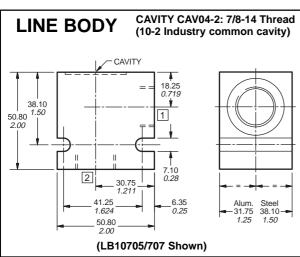
TYPICAL PERFORMANCE

Measured at 30cSt 140 SSU (For cartridge only)

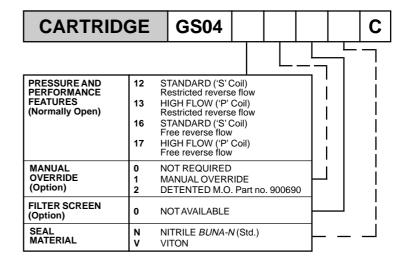


DIMENSIONS





| CAVITY TOOLING FOR CAV04-2 | | | | | | | |
|--|--|--------------------------------------|----------------------------|--|--|--|--|
| PILOT DRILL Ø STEP DRILL REAMER (ALUM) | MM INCH 15.00 0.59 8DS31367 8RM31079A | REAMER (STEEL) COUNTERBORE TAP | 8RM31079S - 8TP31201 | | | | |
| MACHINING DETA | ILS PAGE 540 | <u> </u> | | | | | |



CC

COIL

| COIL | | | | | | |
|--------------------------------------|--|------------------------------------|---|--|------------|--|
| | | | | | | |
| COIL WATTAGE | | TANDARD UISSANT | WAT | TAGE P | | |
| COIL VOLTAGE* | 024 2 | 2V DC 4V DC 15V AC 30V AC | 14w 16w 17w | 19w 19w 22w | , <u> </u> | |
| * ADDITIONAL VOL AVAILABLE, FOR D | AD A (((((((((((((((((((| | AMP DIOC CONIA) WIRE WITT ECTOR TOC, Supplector) DC Only) WITH DEU TO4-2P-EF WITH 3 AM WIRE WITT LE WEAT OR 1201 WIRE WITT UN WEATHE OR 1201 (DC Only) WITH 3.AM WITH | DE // H plied ITSCH MP H HER 5792 H R 0973) // AMP | | |
| COIL DETAILS page 20 | 4 | | | | | |

| LINE BOI | Y | | LB10 | | | |
|-----------------------|--------------------|--|-----------------------|---|---|-------|
| PORTING | | 2 SAE 708 2 BSP 709 | | | | |
| LINE BODY MATERIAL | S ST | UMINIUM (Ai) 210 bar <i>300</i> EEL (Zinc pla) 420 bar <i>600</i> | <i>0 psi</i> ited) | _ | _ | ا |
| LINE BODY DETAILS | page 513 fo | or 708 / 709 c | onsult factory | | | |
| | | | | | | |
| SEAL KIT | | 3N-1 (NITRIL 3V-1 (VITON) | E-BUNA N) | | | |



SOLENOID

PROPORTIONAL

DIRECTIONAL

DIVERTER

쁘

SEQUENCE

PRESSURE

FLOW

CAVITIES

TECHNICAL