

GS02 72 GS02 73 **1.7** L/MIN **210** BAR

UP TO

AND

.45 USGPM 3000 PSI



POPPET TYPE 2 Position 2 Way Normally Closed Bi-Directional Direct Acting

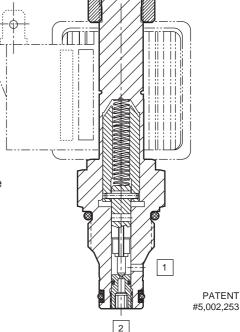
- Fast response.
- One piece cartridge housing ensures internal concentricity.
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Interchangeable with 04 and 06 series poppet valves; Symmetrical coil can be reversed without affecting performance.

OPERATION

De-energized the spring holds the pilot against its seat. Pressure on the side port holds the pilot firmly closed. Pressure above 3000 psi on the nose will lift the pilot causing relief flow. **Energized** the pilot is pulled by the armature lifting it off its seat allowing flow in either direction.

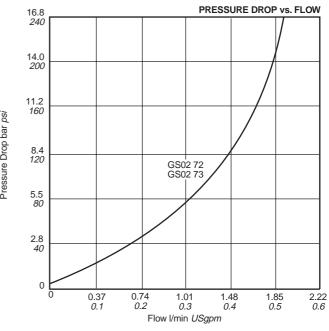
| the armature lif | ting it off its seat al | lowing flow in either o | direct | | |
|--|---|--|-----------------------|--|--|
| SPECIFIC | CATIONS | | | | |
| BASIC MODEL NUMBER | STANDARD BI-DIRECTIONAL GS02 72 | ZERO DROPS BI-DIRECTIONAL GS02 73 | | | |
| SYMBOL | W 2 | | | | |
| NOMINAL FLOW AT ∆p = 5 bar <i>70 psi</i> | 1 l/min 0.26 USgpm | | | | |
| PRESSURE | 210 bar 3000 psi | | | | |
| FUNCTION | CLOSED IN BOT WHEN SOLENOID | TH DIRECTIONS IS DE-ENERGIZED | | | |
| RESPONSE TIME AT OPEN NOM. CLOSE PRESS. | 10 m | . sec. | N | | |
| MAX INTERNAL LEAK AT 210 bar <i>3000 psi</i> at 38 cSt <i>180 SSU</i> | 0.33 ml/min 5 drops/min | ZERO <i>drops</i> SOFT (Delrin) SEAT | | | |
| SERIES CC COIL WATTS. (100% DUTY CYCLE) | 19w ('P' Coil) | | | | |
| MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW | 75% OF NOMIN DETAILS: COIL DAT | AL AMPERAGE, FA SHEET page 204 | Droceuro Droo hor neé | | |
| INSTALLATION | UNRESTRICTED | | | | |
| FLUID * | MINERAL OIL OR SYNTHETIC FLUID WITH LUBRICANT PROPERTIES | | | | |
| IDEAL VISCOSITY * | 15-50 cSt <i>80-230 SSU</i> | | | | |
| SEAL MATERIAL/ TEMPERATURE * | STEEL SE NITRILE (Std.) -30°C to + BUNA-N -20°F to + VITON -20°C to + -4°F to + | -100°C -30°C to +100°C -210°F -20°F to +210°F | | | |
| FILTRATION * | 25 MICRONS (No | om.) OR BETTER | | | |
| CART. WEIGHT | 0.14 kg | | | | |
| 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

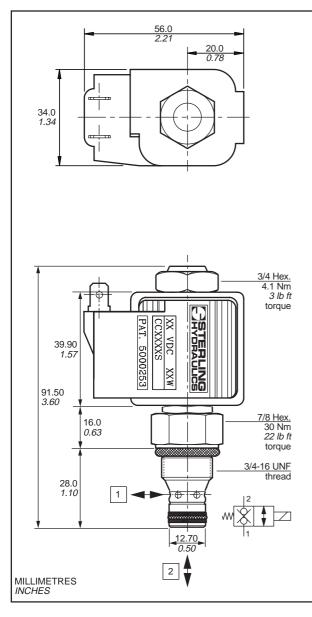
Measured at 30cSt 140 SSU (For cartridge only)

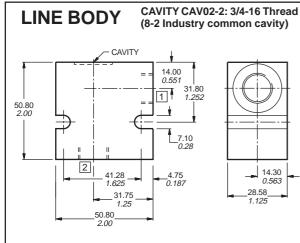


O L E N O I D

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DIMENSIONS





| CAVITY TOOL | ING FOR C | AV02-2 |
|--|--|---|
| PILOT DRILL Ø STEP DRILL REAMER (ALUM) | MM <i>INCH</i> 11.70 <i>0.46</i> 8DS31356 8RM31066A | REAMER (STEEL) 8RM31066S COUNTERBORE - TAP 8TP31202 |
| MACHINING DETA | ILS PAGE 535 | |

| CARTRID | GE | GS02 | 2 | | |
|--|----------------|---|------------------------------------|---|---|
| | | | | | |
| PRESSURE AND PERFORMANCE FEATURES (Normally Closed) | 73 | STANDARD Bi-diı ('P' Coil) ZERO DROPS Bi- ('P' Coil) | | | |
| MANUAL OVERRIDE (Option) | | NOT AVAILABLE | | | |
| FILTER SCREEN (Option) | | NOT REQUIRED 60 MESH SCREE | N | | |
| SEAL MATERIAL | | NITRILE <i>BUNA-N</i> VITON | / (Std.) | | |
| COIL | | C | С | | |
| COIL | Р | PUISSANT | WATTAGE | | |
| WATTAGE COIL VOLTAGE* | 012 | 12V DC 24V DC | 19w | | |
| | 115 230 | 115V AC 230V AC | 19w 22w | | |
| COIL TERMINAL* | AD / | AMP JR. (CC Coil AMP JR. WITH 3 A CC Coils only, DC DOUBLE LEAD W CONDUIT CONNI | AMP DIODE C Only) /IRE WITH |) | |
| | | AC Only) DIN 43650 (AC or vithout DIN Conne DOUBLE LEAD ([| DC, Supplied ector) DC Only) | | |
| | | DOUBLE LEAD WITH DEUTSCH CONNECTOR DT04-2P-EP04 (DC Only) | | | |
| | PF [| DOUBLE LEAD W DIODE (DC Only) DOUBLE LEAD W PACKARD FEMAI PACK CONNECT | /IRE WITH _E WEATHER | | |
| | PM [| DC Only) DOUBLE LEAD W PACKARD MALE PACK CONNECT DC Only) | WEATHER | | |
| | W [WE [| DOUBLÉ SPADE DOUBLE SCREW DOUBLE SCREW DIODE (DC Only) | (DC only) WITH 3 AMP | | |
| * ADDITIONAL VOI | (| SINGLE SCREW Grounded, DC On | ly) | | |
| AVAILABLE, FOR E | DETAILS | | | _ | |
| | | | Dia | | |
| LINE BOD | Ŷ | L | .B10 | | |
| PORTING | 503 506 | 3/8 SAE 3/8 BSP | | | Ì |
| LINE BODY MATERIAL | | ALUMINIUM (And TO 210 bar <i>3000</i> | | | |
| | | STEEL (Zinc plate TO 420 bar 6000 | | | |
| LINE BODY DETAILS | page 51 | 1 | | | |
| | | | | | |
| SEAL KIT | | 88N-1 (NITRILE- 88V-1 (VITON) | BUNA N) | | |



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TECHNICAL