

GS04 57 PLUS

UP TO **42 L/MIN**
AND **350 BAR**

11 USGPM
5000 PSI



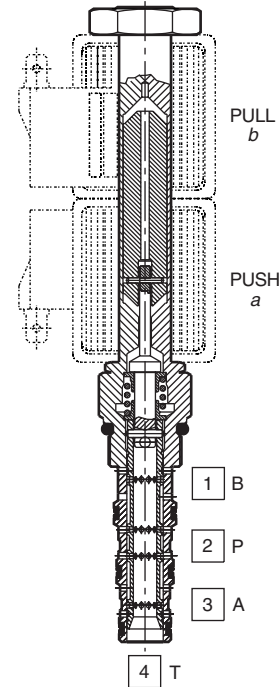
SPOOL TYPE

3 Position 4 Way Tandem Center

- Four way tandem center valve designed to operate double acting cylinders and bi-directional motors, etc.
- 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 lands block flow from the annular holes at port 1 and port 3. Flow is allowed thru the center of the spool from port 2 to port 4. The spring and washers maintain this position. **Top coil energized**, the armature is pulled towards the top plug pulling the spool against the spring. Flow is allowed from port 2 to port 3 between the spool lands and port 1 to port 4 thru the center of the spool. **Bottom coil energized**, the armature is pulled towards the bottom plug pushing the spool against the spring. Flow is allowed from port 2 to port 1 between the spool lands and port 3 to port 4 thru the center of the spool.



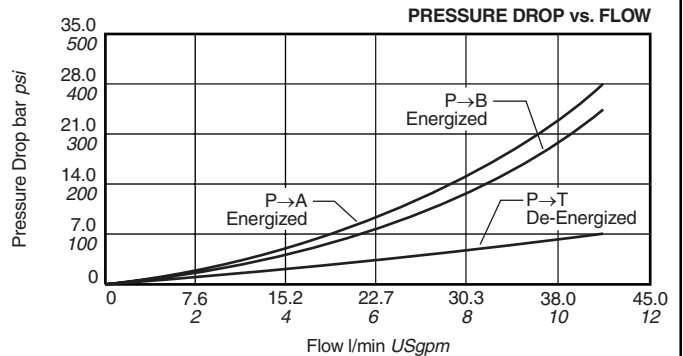
PATENT #5,002,253

SPECIFICATIONS

BASIC MODEL NUMBER	GS04 57	
SYMBOL AND CROSSOVER		
RATED FLOW AT RATED PRESSURE	42 l/min 11 USgpm	
PRESSURE	350 bar 5000 psi	
MAX TANK PRESSURE	210 bar 3000 psi	
RESPONSE TIME DEPENDING ON PRESSURE AND FLOW	ON	30-60 MSEC
	OFF	20-40 MSEC
FUNCTION	TANDEM CENTER WHEN BOTH SOLENOIDS DE-ENERGIZED. P→B & A→T WHEN PUSH SOL. IS ENERGIZED. P→A & B→T WHEN PULL SOL. IS ENERGIZED.	
SERIES CA COIL WATTS. (100% DUTY CYCLE)	28w ('P' Coil)	
MAX INTERNAL LEAK AT 210 bar 3000 psi at 38 cSt 180 SSU	160 cc @ 210 bar 3000 psi	
MIN AMPERAGE TO OPERATE VALVE AT MAX RATED PRESSURE & FLOW	75% OF NOMINAL AMPERAGE, DETAILS: COIL DATA SHEET page 202	
INSTALLATION	UNRESTRICTED	
FLUID *	MINERAL OIL OR SYNTHETIC FLUID WITH LUBRICANT PROPERTIES	
IDEAL VISCOSITY *	15-50 cSt 80-230 SSU	
SEAL MATERIAL/TEMPERATURE *	NITRILE (Std.) -30°C to +100°C BUNA-N -20°F to +210°F VITON -20°C to +150°C -4°F to +330°F	
FILTRATION *	25 MICRONS (Nom.) OR BETTER	
CART. WEIGHT	0.26 kg 0.58 lb	
COIL WEIGHT	0.29 kg 0.64 lb	

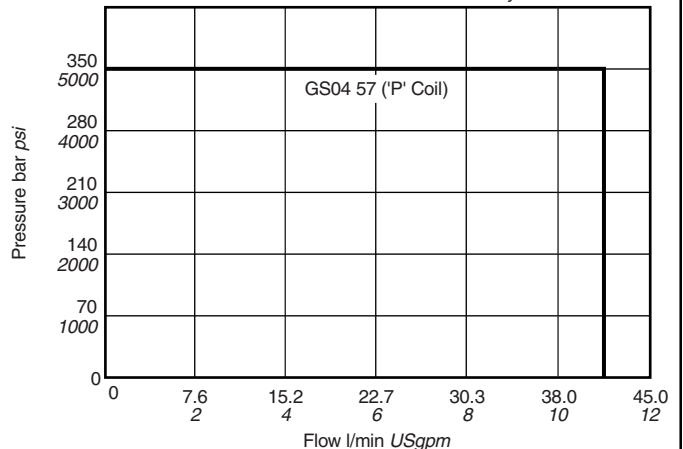
TYPICAL PERFORMANCE

Measured at 30cSt 140 SSU (For cartridge only)



Measured at 75% of nominal current

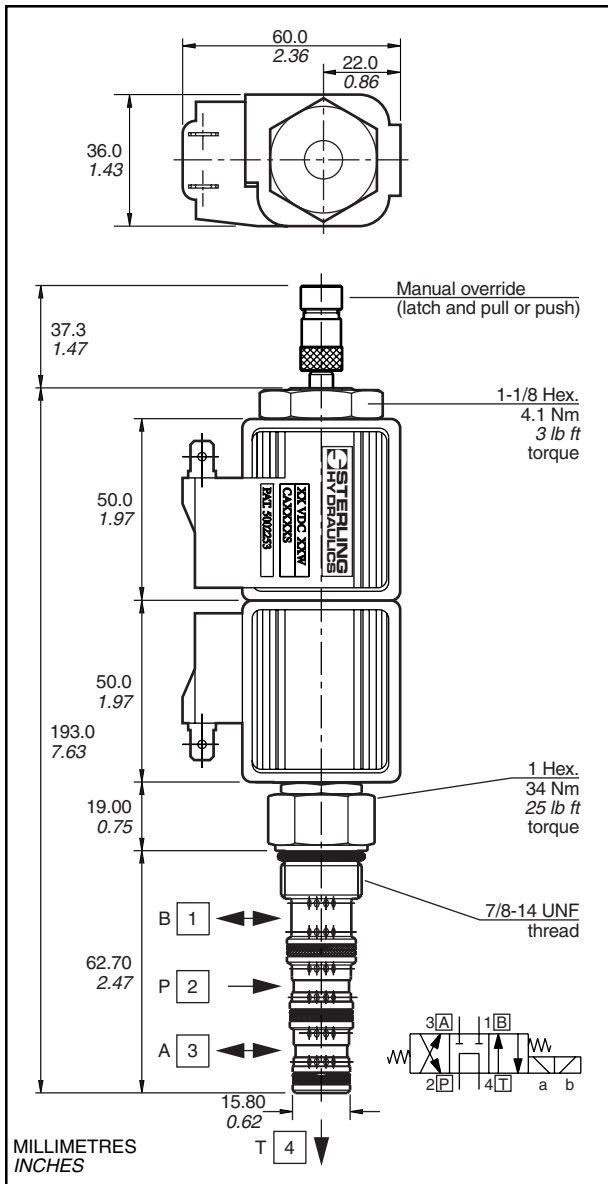
OPERATING LIMITS
Flow not affected by manual override



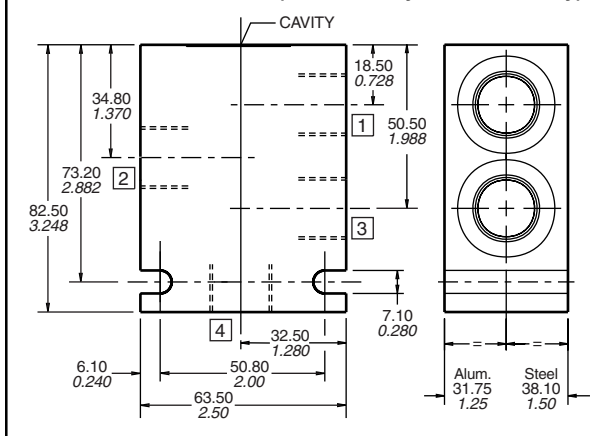
* IMPORTANT: See pages 582-583 for additional notes on operating conditions.

Specifications may change without notice.

DIMENSIONS



LINE BODY CAVITY CAV04-4: 7/8-14 Thread (10-4 Industry common cavity)



CAVITY TOOLING FOR CAV04-4

	MM	INCH	
PILOT DRILL Ø	15.00	0.59	REAMER (STEEL) 8RM31070S
STEP DRILL	8DS31360		COUNTERBORE
REAMER (ALUM)	8RM31070A		TAP 8TP31201

MACHINING DETAILS PAGE 544

CARTRIDGE

GS04

57

D

FLOW PRESSURE AND PERFORMANCE FEATURES (Tandem Center)	57 HIGH FLOW ('P' COIL)	
MANUAL OVERRIDE (Option)	0	NOTREQUIRED
	1	SPRINGCENTERED
	3	CABLEOPERATED
	STD. 5	LATCHOPERATED, PULLANDPUSH
	6	LATCHOPERATED, DETENTED
7	1" KNOB, PULL or PUSH	
FILTER SCREEN (Option)	0 NONE Contact factory for OEM requirements	
SEAL MATERIAL	N NITRILE BUNA-N (Std.) V VITON	
DESIGN LEVEL	D INCLUDES INDUSTRY COMMON CAVITY	
** FORCE TO PUSH AT 210 bar 3000 psi - LESS TO PULL		

COIL

CA

COIL WATTAGE	P	PUISSANT 28w
COIL VOLTAGE*	012	12V DC
	024	24V DC
	115	115V AC
	230	230V AC
COIL TERMINAL*	C	DOUBLE LEAD WIRE WITH CONDUIT CONNECTOR (AC Only)
	D	DIN 43650 (AC or DC, Supplied without DIN Connector)
	H	INTEGRAL DEUTSCH CONNECTOR (DC Only)
	L	DOUBLE LEAD (DC Only)
	LD	DOUBLE LEAD WITH DEUTSCH CONNECTOR DT04-2P-EP04 (DC Only)
	LE	DOUBLE LEAD WITH 3 AMP DIODE (DC Only)
	PF	DOUBLE LEAD WIRE WITH PACKARD FEMALE WEATHER PACK CONNECTOR 1201 5792 (DC Only)
	PM	DOUBLE LEAD WIRE WITH PACKARD MALE WEATHER PACK CONNECTOR 1201 0973 (DC Only)
	S	DOUBLE SPADE (DC Only)
	W	DOUBLE SCREW (DC Only)
	WE	DOUBLE SCREW WITH 3 AMP DIODE (DC Only)
Y	SINGLE SCREW (Internally Grounded, DC Only)	
* ADDITIONAL VOLTAGES AND OTHER TERMINALS ARE AVAILABLE, FOR DETAILS PLEASE CONSULT FACTORY		
COIL DETAILS page XXX		

LINE BODY

LB10

PORTING	720	1/2 SAE
	721	3/8 BSP
LINE BODY MATERIAL	A	ALUMINIUM (Anodised) TO 210 bar 3000 psi
	S	STEEL (Zinc plated) TO 420 bar 6000 psi
LINE BODY DETAILS page		
SEAL KIT	SK30506N-1 (NITRILE-BUNA N) SK30506V-1 (VITON)	

STERLING HYDRAULICS