



**VG SERIES AIR OPERATED VALVE**  
 AIR OPERATED PISTON SENSED VALVE  
 ACTUATION RANGE OF 30-60 PSI

**GENERAL SPECIFICATIONS:**

OPERATING PRESSURE: SEE TABLE III  
 DESIGN PROOF PRESSURE: 150% OF RATED PRESSURE  
 DESIGN BURST PRESSURE: PER CRITERIA OF ANSI/ASME B31.3  
 OPERATING TEMPERATURE: SEE TABLE III  
 LEAKAGE: INTERNAL; BUBBLE TIGHT  
EXTERNAL; BUBBLE TIGHT  
 FLOW CAPACITY (Cv): Cv=2.0  
 WEIGHT: APPROXIMATELY 5 LBS  
 ACTUATION PRESSURE RANGE: 30-60 PSI  
 MAX. ACTUATION PRESSURE: 150 PSI

**MATERIALS CONTACTING LINE MEDIA:**

SEAT: SEE TABLE III  
 BODY & TRIM: SEE TABLE II  
 VALVE STEM: 17-4 SST  
 O-RINGS: SEE TABLE III  
 BACK-UP RINGS: TEFLON

**ASSEMBLY INFORMATION:**

FOR ASSEMBLY OF THIS UNIT USE SPEC: A63072-01 NORMALLY CLOSED  
A63072-02 NORMALLY OPEN  
A63072-03 NORMALLY CLOSED SOLENOID VALVE  
A63072-04 NORMALLY OPEN SOLENOID VALVE

TABLE I	DASH NO./LTR	TYPE
	C	NORMALLY CLOSED
	P	NORMALLY OPEN

TABLE II	DASH NO./LTR	BODY & TRIM MAT'L
	1	BRASS
	6	316 SST

TABLE III	DASH NO./LTR	SEAT MATERIAL	O-RING MATERIAL	MAX OPERATING PRESSURE	OPERATING TEMPERATURE
TABLE III	CB	CTFE	BUNA-N	BRASS BODY 3500 PSI SST BODY 3500 PSI	-40°F TO +165°F
	CK		KALREZ		20°F TO +165°F
	CV		VITON		-15°F TO +165°F
	CE		E.P.		-40°F TO +165°F
	CU		URETHANE		-40°F TO +165°F
TABLE III	PB	PEEK (STD)	BUNA-N	BRASS BODY 6000 PSI SST BODY 10000 PSI	-40°F TO +165°F
	PK		KALREZ		20°F TO +250°F
	PV		VITON		-15°F TO +250°F
	PE		E.P.		-40°F TO +250°F
	PU		URETHANE		-40°F TO +165°F
TABLE III	VB	VESPEL	BUNA-N	BRASS BODY 6000 PSI SST BODY 10000 PSI	-40°F TO +165°F
	VK		KALREZ		20°F TO +250°F
	VV		VITON		-15°F TO +250°F
	VE		E.P.		-40°F TO +250°F
	VU		URETHANE		-40°F TO +165°F

SERIES NUMBER  
**VGC1CB9C9DS**

KITN ( FOR NONMETALLIC KIT )

TABLE VI	DASH NO./LTR	PORT LOCATION SIZE & TYPE
	A	1/4 NPT IN GA
	B	1/4 NPT OUT GA
	C	3/8 NPT IN
	D	3/8 NPT OUT
	G	1/2 NPT IN
	H	1/2 NPT OUT
	J	3/4 NPT IN
	K	3/4 NPT OUT
	L	3/8 SAE IN
	M	3/8 SAE OUT
	P	1/2 SAE IN
	R	1/2 SAE OUT
	9	NONE

TABLE V	DASH NO./LTR	PORT LOCATION 3 SIZE & TYPE (INLET ONLY)
	C	3/8 NPT IN
	G	1/2 NPT IN
	J	3/4 NPT IN
	L	3/8 SAE IN
	P	1/2 SAE IN

TABLE IV	DASH NO./LTR	OPTIONS
	9	NONE
	C	CCL
	T	SOLENOID VALVE 120 VOLT AC
	V	SOLENOID VALVE 24 VOLT DC
	W	SOLENOID VALVE 12 VOLT DC

REV.	DATE	ECO NO.	BY	APPR
V	2-5-07	5055-07	SKO	TWL
U	4-6-06	1276-06	DLH	TWL
T	2-17-06	1132-06	SKO	TWL
S	12-5-05	575-05	SJW	DP
R	6-17-05	1403-05	SKO	TWL

**TESCOM CORPORATION**  
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UNLESS OTHERWISE SPECIFIED:  
 Ø ± .020 ANGLES: ±1°  
 .00 ± .010  
 .000 ± .005  
 SURFACE ROUGHNESS: 100/  
 CORNER & FILLET RADI: .005-.020  
 THREADS: CLASS 2  
 REMOVE ALL BURRS

REV. DATE ECO NO. BY APPR  
 MFG. SPEC. 60301  
 DRAWING MADE IN THIRD ANGLE PROJECTION  
 (DO NOT SCALE DRAWING)

MATERIAL:		
X		
FINISH:		
X		
DRAWN BY:	CHECKED BY:	APPROVED BY:
JLS 10-30-00	CRN 12-1-00	CRN 12-1-00
NAME		
AIR OPERATED VALVE		
SCALE: 1 : 1	SIZE: C	NUMBER: VGXXXXXXXXX
CODE NO. 13669	SHT. 1	OF 1