



VAXXXXXXXXXX

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

TABLE II	DASH NO./LTR	BODY
	1	BRASS
	6	316 SST

TABLE III *	DASH NO./LTR	SEAT MATERIAL	O-RING MATERIAL	MAX OPERATING PRESSURE	OPERATING TEMPERATURE
	AB	TEFZEL ETFE	BUNA-N	BRASS BODY 3500 PSI SST BODY 3500 PSI	-65° F TO +165° F
	AK		KALREZ		+20° F TO +250° F
	AV		VITON		-15° F TO +250° F
	AE		E.P.		-65° F TO +250° F
	AU		URETHANE		-65° F TO +165° F
	CB	CTFE	BUNA-N	BRASS BODY 3500 PSI SST BODY 3500 PSI	-65° F TO +165° F
	CK		KALREZ		+20° F TO +165° F
	CV		VITON		-15° F TO +165° F
	CE		E.P.		-65° F TO +165° F
	CU		URETHANE		-65° F TO +165° F
	PB	PEEK (STD)	BUNA-N	BRASS BODY 6000 PSI SST BODY 10000 PSI	-65° F TO +165° F
	PK		KALREZ		+20° F TO +250° F
	PV		VITON		-15° F TO +250° F
	PE		E.P.		-15° F TO +250° F
	PU		URETHANE		-65° F TO +165° F
	VB	VESPEL	BUNA-N	BRASS BODY 6000 PSI SST BODY 10000 PSI	-65° F TO +165° F
	VK		KALREZ		+20° F TO +250° F
	VV		VITON		-15° F TO +250° F
	VE		E.P.		-65° F TO +250° F
	VU		URETHANE		-65° F TO +165° F

SERIES NUMBER  
V A C B A B S A S B S

KITN (FOR NONMETALLIC KIT)

TABLE VIII	DASH NO./LTR	PORT LOCATION SIZE & TYPE	12
	A	1/4 NPT	IN
	B	1/4 NPT	OUT
	C	3/8 NPT	IN
	D	3/8 NPT	OUT
	E	1/4 SAE	IN
	F	1/4 SAE	OUT
	9	NONE	

TABLE VII	DASH NO./LTR	PORT LOCATION SIZE & TYPE	9
	A	1/4 NPT	IN
	B	1/4 NPT	OUT
	C	3/8 NPT	IN
	D	3/8 NPT	OUT
	E	1/4 SAE	IN
	F	1/4 SAE	OUT
	9	1/8 NPT	OUT
			1

TABLE VI	DASH NO./LTR	PORT LOCATION SIZE & TYPE	6
	A	1/4 NPT	IN
	B	1/4 NPT	OUT
	C	3/8 NPT	IN
	D	3/8 NPT	OUT
	E	1/4 SAE	IN
	F	1/4 SAE	OUT
	9	NONE	

TABLE V	DASH NO./LTR	PORT LOCATION SIZE & TYPE (INLET ONLY)	3
	A	1/4 NPT	IN
	C	3/8 NPT	IN
	E	1/4 SAE	IN
	N	1/8 NPT	IN
			1

**VA 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=.75   
 WEIGHT: APPROXIMATELY 3 LBS  
 ACTUATION PRESSURE RANGE: 30-60 PSI  
 MAX. ACTUATION PRESSURE: 125 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 FOR CTFE & TEFZEL SEATS  
CTFE FOR VESPEL & PEEK SEATS

**ASSEMBLY INFORMATION:**

FOR ASSEMBLY OF THIS UNIT USE SPEC: A61871-01 (NORMALLY CLOSED)  
A61871-02 (NORMALLY OPEN)  
A61871-05 (SOLENOID VALVE)

\* TABLE III - FLOW STREAM ONLY

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)

**NOTES:**

1/8 PORTS REDUCE Cv TO .5

REV.	DATE	ECO NO.	BY	APPR
AJ	12-7-06	1695-06	DLH	TWL
AH	4-6-06	1276-06	DLH	TWL
AG	4-29-05	1287-05	SKO	TWL
AF	4-30-04	1364-04	JK	TWL
AE	3-23-04	1259-04	JK	TWL
AD	12-9-03	1905-03	JK	TMB
AC	9-3-03	1558-03	SKO	TMB
AB	8-15-03	1518-03	JKK	TMB
AA	7-28-03	1478-03	EWN	TMB
Y	11-20-02	1296-02	SKO	TMB

**TESCOM CORPORATION**  
 INDUSTRIAL CONTROLS DIVISION  
 ELK RIVER, MN USA

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UNLESS OTHERWISE SPECIFIED:  
 .0 ± .020 ANGLE: ±1°  
 .00 ± .010  
 .000 ± .005  
 SURFACE ROUGHNESS: 100/  
 CORNER & FILLET RADI: .005-.020  
 THREADS: CLASS 2  
 REMOVE ALL BURRS  
 MFG. SPEC. 80301

MATERIAL:		
X		
FINISH:		
X		
DRAWN BY:	CHECKED BY:	APPROVED BY:
TWL   2-5-99	TWL   2-8-99	TWL   2-8-99
NAME		
AIR OPERATED VALVE		
SCALE: 1 : 1	SIZE	NUMBER
CODE NO. 13669	C	VAXXXXXXXXXX
	SHT.	1 OF 1