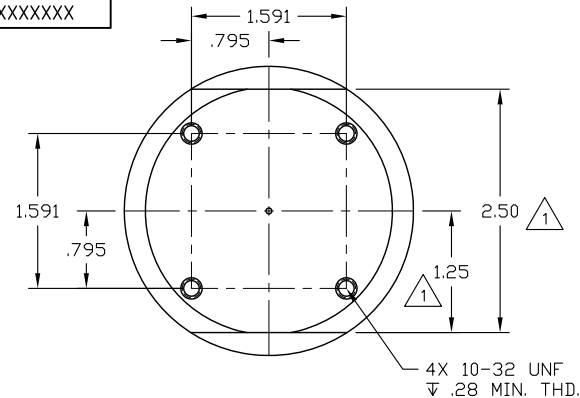
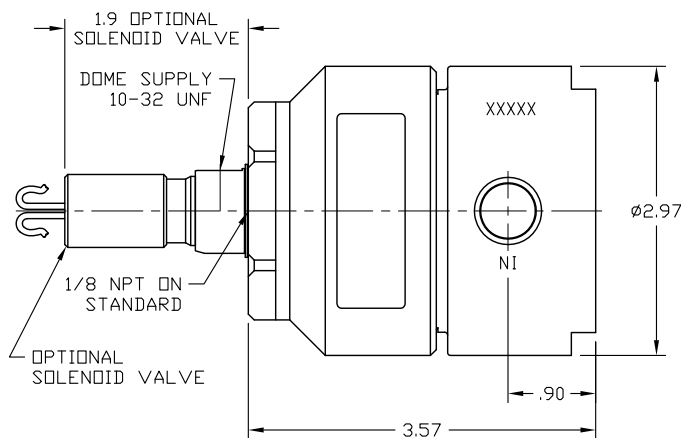
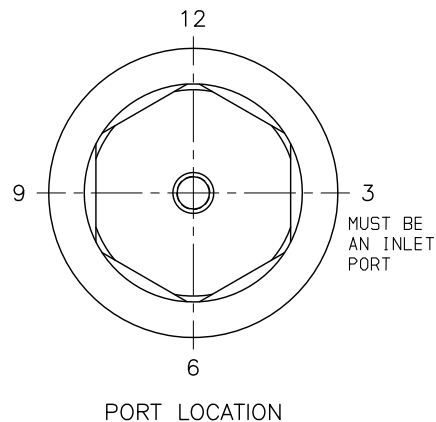




VG SERIES AIR OPERATED VALVE

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

TABLE III	DASH NO./LTR	SEAT MATERIAL	O-RING MATERIAL	MAX OPERATING PRESSURE	OPERATING TEMPERATURE
	CB	PCTFE	BUNA-N	BRASS BODY 3500 PSI SST BODY 3500 PSI	-30°F (-34°C) TO +140°F (60°C)
	CK		KALREZ		20°F (-7°C) TO +140°F (60°C)
	CV		FKM		-15°F (-26°C) TO +140°F (60°C)
	CE	PEEK (STD)	E.P.	BRASS BODY 6000 PSI SST BODY 10000 PSI	-30°F (-34°C) TO +140°F (60°C)
	CU		URETHANE		-30°F (-34°C) TO +140°F (60°C)
	PB		BUNA-N		-30°F (-34°C) TO +165°F (74°C)
	PK		KALREZ		20°F (-7°C) TO +250°F (121°C)
	PV	VESPEL	FKM	BRASS BODY 6000 PSI SST BODY 10000 PSI	-15°F (-26°C) TO +250°F (121°C)
	PE		E.P.		-30°F (-34°C) TO +250°F (121°C)
	PU		URETHANE		-30°F (-34°C) TO +250°F (121°C)
	VB		BUNA-N		-30°F (-34°C) TO +165°F (74°C)
	VK		KALREZ		20°F (-7°C) TO +250°F (121°C)
	VV		FKM		-15°F (-26°C) TO +250°F (121°C)
	VE		E.P.		-30°F (-34°C) TO +165°F (74°C)
	VU		URETHANE		-30°F (-34°C) TO +165°F (74°C)

TABLE IV	DASH NO./LTR	OPTIONS
	G	NONE
	C	CCL
	V	SOLENOID VALVE 24 VOLT DC
	W	SOLENOID VALVE 12 VOLT DC

NOTES:

1 2X FOR 1/2 MS33649 ONLY

SERIES NUMBER
VG C 1 C B 9 C 9 D 9
KITN (FOR NONMETALLIC KIT)

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 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
	T	1/2 MS33649 IN
	U	1/2 MS33649 OUT
	9	NONE

TABLE V	DASH NO./LTR	PORT LOCATION 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
	T	1/2 MS33649 IN

BG 7-11-18	50642-18	DRM	WRE
BF 12-18-17	51105-17	MGM	WRE
BE 8-26-15	51040-15	SKO	WRE
BD 8-6-15	50940-15	KW	WRE
AB 3-20-15	50307-15	JJ	WRE
AA 10-11-13	70933-13	DKD	B/T
Y 2-7-11	1199-11	DKD	TWL
W 7-22-10	5460-10	CMB	TWL
V 2-5-07	5055-07	SKO	TWL
U 4-6-06	1276-06	DLH	TWL
REV.	DATE	ECO NO.	BY: APPR
REVISIONS			
REFERENCE DRAWING(S)			

TESCOM CORPORATION INDUSTRIAL CONTROLS DIVISION BLK RIVER, MN USA	
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UNLESS OTHERWISE SPECIFIED: 0 ± .020 ANGLES: ±1° .00 ± .010 .000 ± .005	
SURFACE ROUGHNESS: 100/ CORNER & FILLET RADII: .005-.020	
THREADS: CLASS 2	
REMOVE ALL BURRS	
MFG. SPEC. 60301	
DRAWING MADE IN THIRD ANGLE PROJECTION (DO NOT SCALE DRAWING)	

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