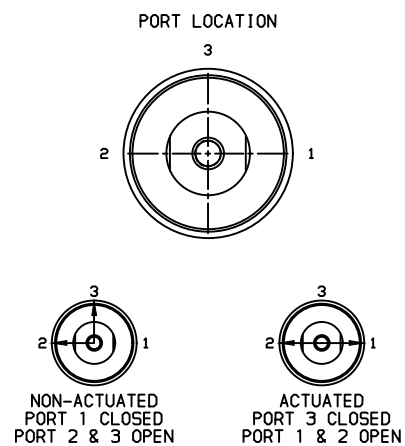


VT SERIES AIR OPERATED VALVE
AIR OPERATED PISTON SENSED 3-WAY VALVE
ACTUATION RANGE OF 80-110 PSI

MODIFICATION FEATURES:
SST SOLENOID VALVE

GENERAL SPECIFICATIONS:
OPERATING PRESSURE: SEE TABLE II
DESIGN PROOF PRESSURE: 150% OF RATED PRESSURE
DESIGN BURST PRESSURE: PER CRITERIA OF ANSI/ASME B31.3
OPERATING TEMPERATURE: LIMIT DETERMINED BY MOST RESTRICTIVE ELEMENT (SEE TABLES I, II & III)
LEAKAGE: INTERNAL: BUBBLE TIGHT
EXTERNAL: BUBBLE TIGHT
FLOW CAPACITY (Cv): Cv=.75
WEIGHT: APPROXIMATELY 5 LBS
MIN. ACTUATION PRESSURE: 80 PSI
MAX. ACTUATION PRESSURE: 110 PSI
MAX. ACTUATION PRESSURE WITH SOLENOID VALVE: 100 PSI

MATERIALS CONTACTING LINE MEDIA:
SEATS: SEE TABLE II
BODY & TRIM: SEE TABLE I
VALVE STEM: 17-4 SST
O-RINGS: SEE TABLE II
BACK-UP RINGS: PTFE FOR PCTFE & TEFZEL SEATS
PCTFE FOR PEEK & VESPEL SEATS

ASSEMBLY INFORMATION:
PEEK & VESPEL SEAT UNITS USE SPEC: JTA100873-01
TEFZEL & CTFE SEAT UNITS USE SPEC: JTA100873-03

* TABLE II - FLOW STREAM ONLY

TABLE I	DASH NO./LTR	BODY	OPERATING TEMPERATURE
	1	BRASS	-30°F TO 200°F
	6	316 SST	-30°F TO 250°F

TABLE II *	DASH NO./LTR	SEAT MATERIAL	O-RING MATERIAL	MAX OPERATING PRESSURE	OPERATING TEMPERATURE
TEFZEL ETFE	AB	BUNA-N			-30°F TO 140°F
	AK	KALREZ			+20°F TO 140°F
	AV	FKM		BRASS BODY 3500 PSI	+20°F TO 140°F
	AE	E.P.		SST BODY 3500 PSI	-15°F TO 140°F
	AU	URETHANE			-30°F TO 140°F
	CB	BUNA-N			-30°F TO 140°F
PCTFE	CK	KALREZ		BRASS BODY 3500 PSI	+20°F TO 140°F
	CV	FKM		SST BODY 3500 PSI	-15°F TO 140°F
	CE	E.P.			-30°F TO 140°F
	CU	URETHANE			-30°F TO 140°F
	PB	BUNA-N			-30°F TO 165°F
	PK	KALREZ		BRASS BODY 6000 PSI	+20°F TO 250°F
PEEK (STD)	PV	FKM		SST BODY 10000 PSI	-15°F TO 250°F
	PE	E.P.			-30°F TO 250°F
	PU	URETHANE			-30°F TO 250°F
	VB	BUNA-N			-30°F TO 165°F
	VK	KALREZ		BRASS BODY 6000 PSE	+20°F TO 250°F
	VV	FKM		SST BODY 10000 PSI	-15°F TO 250°F
VESPEL	VE	E.P.			-30°F TO 250°F
	VU	URETHANE			-30°F TO 250°F

TABLE VI	DASH NO./LTR	PORT LOCATION SIZE & TYPE	3
	A	1/4 NPT	
	C	3/8 NPT	
	E	1/4 SAE	
	J	3/8 SAE	

TABLE V	DASH NO./LTR	PORT LOCATION SIZE & TYPE	2
	A	1/4 NPT	
	C	3/8 NPT	
	E	1/4 SAE	
	J	3/8 SAE	

TABLE IV	DASH NO./LTR	PORT LOCATION SIZE & TYPE	1
	A	1/4 NPT	
	C	3/8 NPT	
	E	1/4 SAE	
	J	3/8 SAE	

TABLE III	DASH NO./LTR	OPTIONS	OPERATING TEMPERATURE
V	SOLENOID VALVE	24 VOLT DC	+32°F TO 140°F
W	SOLENOID VALVE	12 VOLT DC	+32°F TO 140°F

TESCOM CORPORATION
INDUSTRIAL CONTROLS DIVISION
22K 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. 00301

DO NOT SCALE DRAWING

MATERIAL: ~

FINISH: ~

DRAWN BY: DRM 2-25-16
CHECKED BY: DRM 2-29-16
APPROVED BY: TWL 2-29-16

NAME: AIR OPERATED 3-WAY VALVE

SCALE: 1 : 1 SIZE: C NUMBER: VTXXXX-XXX-012
CODE NO. 13669 SHT. 1 OF 1

AB 3-17-20	50949-19	NO	TWL
AA 2-25-16	1658-16	DRM	TWL
REV.	DATE	ECO NO.	BY: APPR
REVISIONS			
REFERENCE DRAWING(S)			