



| | | |
|----------|--------------|-----------------|
| TABLE I | DASH NO./LTR | TYPE |
| | C | NORMALLY CLOSED |
| TABLE II | DASH NO./LTR | BODY |
| | 6 | 316 SST |

SERIES NUMBER
V A P 6 P E S 9 A 9 B 9 M 1 7 5

| DASH NO./LTR | SEAT MATERIAL | O-RING MATERIAL | MAX OPERATING PRESSURE | OPERATING TEMPERATURE |
|--------------|---------------|-----------------|-------------------------------|-----------------------|
| AB | TEFZEL ETFE | BUNA-N | SST BODY 3500 PSI (24.13 MPa) | -30°C TO +75°C |
| AK | | KALREZ | | -10°C TO +125°C |
| AV | | VITON | | -20°C TO +125°C |
| AE | | E.P. | | -30°C TO +125°C |
| AU | | URETHANE | | -30°C TO +75°C |
| CB | CTFE | BUNA-N | SST BODY 3500 PSI (24.13 MPa) | -30°C TO +75°C |
| CK | | KALREZ | | -10°C TO +75°C |
| CV | | VITON | | -20°C TO +75°C |
| CE | | E.P. | | -30°C TO +75°C |
| CU | | URETHANE | | -30°C TO +75°C |
| PB | PEEK (STD) | BUNA-N | SST BODY 7100 PSI (48.95 MPa) | -30°C TO +75°C |
| PK | | KALREZ | | -10°C TO +125°C |
| PV | | VITON | | -20°C TO +125°C |
| PE | | E.P. | | -30°C TO +125°C |
| PU | | URETHANE | | -30°C TO +75°C |
| VB | VESPEL | BUNA-N | SST BODY 7100 PSI (48.95 MPa) | -30°C TO +75°C |
| VK | | KALREZ | | -10°C TO +125°C |
| VV | | VITON | | -20°C TO +125°C |
| VE | | E.P. | | -30°C TO +125°C |
| VU | | URETHANE | | -30°C TO +75°C |

| | | | |
|------------|--------------|---------------------------|----|
| TABLE VIII | DASH NO./LTR | PORT LOCATION SIZE & TYPE | 12 |
| | 9 | NONE | |

| | | | |
|-----------|--------------|---------------------------|---|
| TABLE VII | DASH NO./LTR | PORT LOCATION SIZE & TYPE | 9 |
| | B | 1/4 NPT OUT | |

| | | | |
|----------|--------------|---------------------------|---|
| TABLE VI | DASH NO./LTR | PORT LOCATION SIZE & TYPE | 6 |
| | 9 | NONE | |

| | | |
|----------|--------------|---------|
| TABLE IV | DASH NO./LTR | OPTIONS |
| | 9 | NONE |

| | | |
|---------|--------------|--|
| TABLE V | DASH NO./LTR | PORT LOCATION SIZE & TYPE (INLET ONLY) |
| | A | 1/4 NPT IN |

VA SERIES AIR OPERATED VALVE

AIR OPERATED PISTON SENSED VALVE
 ACTUATION RANGE OF 30-60 PSI (.21-.41 MPa)

MODIFICATION FEATURES:

MET1 - 7,100 PSI INLET (48.95 MPa)

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 10 LBS
 ACTUATION PRESSURE RANGE: 30-60 PSI (.21-.41 MPa)
 MAX. ACTUATION PRESSURE: 125 PSI (.86 MPa)

MATERIALS CONTACTING LINE MEDIA:

SEAT: SEE TABLE III
 BODY & TRIM: SEE TABLE II
 VALVE STEM: 316 SST
 O-RINGS: BUNA-N & SEE TABLE III
 BACK-UP RINGS: CTFE

ASSEMBLY INFORMATION:

FOR ASSEMBLY OF THIS UNIT USE SPEC: A61871-51 (NORMALLY CLOSED)
 A61871-52 (NORMALLY OPEN)

* TABLE III - FLOW STREAM ONLY

| | | | | |
|---|---|--|----------------------------------|-----------------------------|
| AA 2-19-15 1407-15 DRM TWL REV. DATE ECO NO. BY: APPR REVISIONS REFERENCE DRAWING(S) | TESCOM CORPORATION INDUSTRIAL CONTROLS DIVISION ELK RIVER, MN USA | | MATERIAL: | |
| | INFORMATION CONTAINED ON THIS DOCUMENT IS THE PROPERTY OF TESCOM CORPORATION. NO RIGHTS ARE CONVEYED NOR IS PERMISSION TO DISCLOSE TO OTHERS GIVEN. | | FINISH: | |
| | UNLESS OTHERWISE SPECIFIED: .0 ± .020 ANGLES: ±1° .00 ± .010 .000 ± .005 SURFACE ROUGHNESS: 100 CORNER & FILLET RADI: .005-.020 | | | |
| | THREADS: CLASS 2 REMOVE ALL BURRS MFG. SPEC. 60301 | | | |
| | DRAWING MADE IN THIRD ANGLE PROJECTION (DO NOT SCALE DRAWING) | | | |
| | DRAWN BY: DRM 2-19-15 | | CHECKED BY: TWL 2-27-15 | APPROVED BY: TWL 2-27-15 |
| | NAME AIR OPERATED VALVE | | | |
| | SCALE: 1 : 1 | | SIZE NUMBER C VAXXXXXXXXXM175 | |
| | CODE NO. 13669 | | SHT. 1 OF 1 | |