

4

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2

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MECK/MEC
Non-Pump Dependent Control Valves 8" IP Pressure Decay 1IP-PCV3202

| REV. | DATE | DESCRIPTION | DRAWN | CHKD |
|------|------------|--------------------------------|-------|------|
| 0 | 02-26-2016 | ISSUED FOR APPROVAL | SSA | SG |
| 1 | 06-18-2016 | UPDATE AS PER CUSTOMER COMMENT | VGN | SG |

VOGT POWER INTERNATIONAL

ReSubmit per Comments, Work May Proceed

Bell, Milton

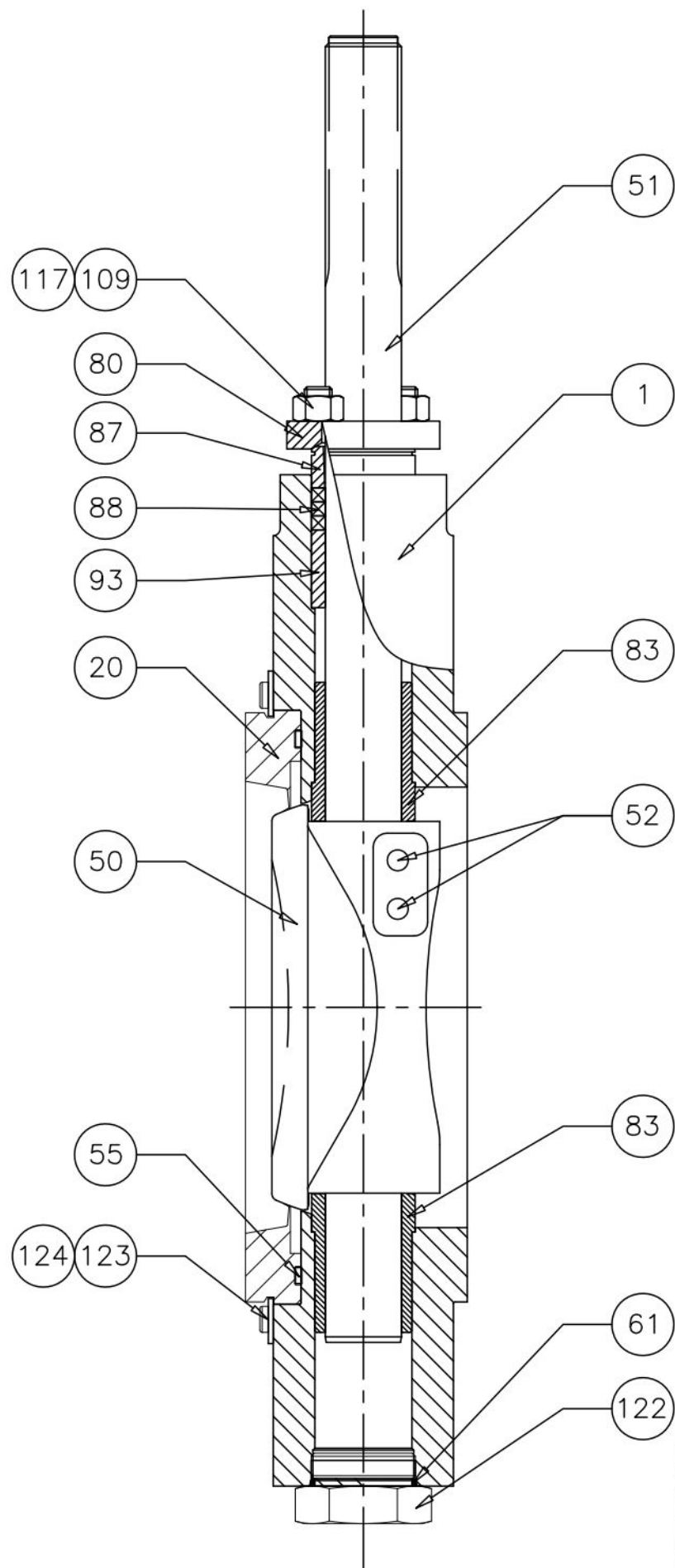
Oct-12-2016

VOGT POWER INTERNATIONAL

Released, Work May Proceed

Bell, Milton

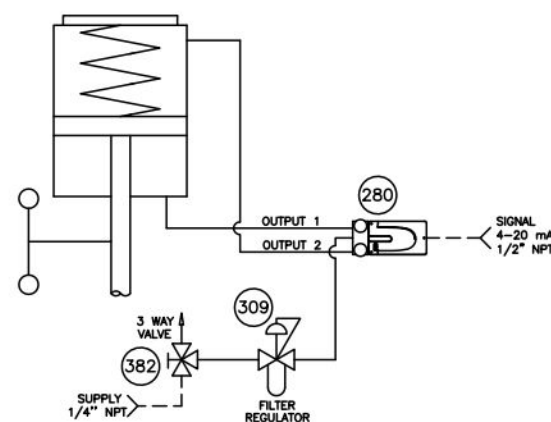
Jul-06-2016



| APPROXIMATE CENTER OF GRAVITY | | | |
|----------------------------------|------|-----|-----|
| | X | Y | Z |
| in | 14.4 | 2.7 | 3.9 |
| mm | 366 | 69 | 99 |

| | A | B | C | D | E | F | G | H | J | K | M | N | P | R | T | APPROXIMATE WEIGHT |
|----|------|-----|------|------|------|------|-----|-----|------|------|------|------|-----|------|-----|-----------------------|
| in | 4.00 | 8.6 | 16.3 | 55.7 | 11.0 | 22.7 | 7.6 | 2.4 | 12.5 | 11.4 | 18.0 | 13.3 | 2.5 | 10.1 | 5.0 | 359 lbs |
| mm | 102 | 218 | 414 | 1415 | 279 | 577 | 193 | 61 | 318 | 290 | 457 | 338 | 64 | 257 | 127 | 163 kg |

* - DISASSEMBLY/MAINTENANCE CLEARANCE



PNEUMATIC SCHEMATIC

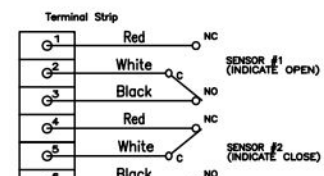
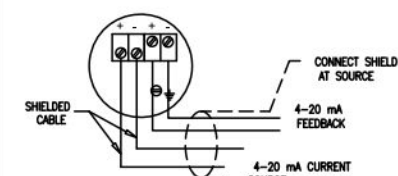
VOGT POWER INTERNATIONAL
V17494-CIXD-7002-02
20-Jun-2016

NOTE:

Drawing used for:
V17494-Middletown
VPI PO V0009668
and
V0009944 -Kings Mountain
VPI PO 8006106

| DESIGN CONDITIONS | |
|---------------------|------------------------------------|
| DESIGN PRESSURE | 715.00 psf(g) |
| DESIGN TEMPERATURE | 775°F (413°C) |
| PIPE SCH UP | 8.00/40 SCH |
| PIPE SCH DOWN | 8.00/40 SCH |
| VALVE BODY MATERIAL | CARBON STEEL(WCC) |
| SERVICE DESCRIPTION | IP MAIN STEAM PRESSURE DECAY VALVE |

| | | | |
|------------|-------------------|--|-----------------|
| MODEL | VALDISK | DRAWN BY VGN | DATE 06-18-2016 |
| SIZE | 8.00 INCH | CERTIFIED BY | SG |
| RATING | STD 600 MSS SP 68 | DATE | 06-18-2016 |
| END PREP. | WAFFER | THIRD ANGLE PROJECTION | |
| SHAFT | UPSTREAM | | |
| TRIM # | CV 8.00 1571 | | |
| ACT. SIZE | 100 SQ IN | | |
| SPRING | DUAL | | |
| AIR ACTION | OPEN | TOLERANCES DECIMALS: IN/[mm] .X ±.25/[6.4] .XX ±.12/[3.1] .XXX ±.06/[1.5] ANGLES: ±1/2° | |
| FAIL MODE | CLOSE | | |



LOGIX 500 POSITIONER

POSITION PAC A2 (2 SPDT)

ELECTRICAL SCHEMATIC



CERTIFIED DIMENSIONAL DRAWING

| | | | |
|--------------------|-------------|--------------------------|-------------------|
| CUSTOMER | | VOGT POWER INTERNATIONAL | |
| PURCHASE ORDER NO. | V0009668 | PROJECT OR JOB | V17494-MIDDLETOWN |
| ITEM NO. | | SHEET | 1 of 2 |
| TAG NO. | 11P-PCV3202 | SCALE: | NONE |
| | | VALTEK S/N | 8003477.003 |
| | | SIZE | C |
| | | REV | 1 |

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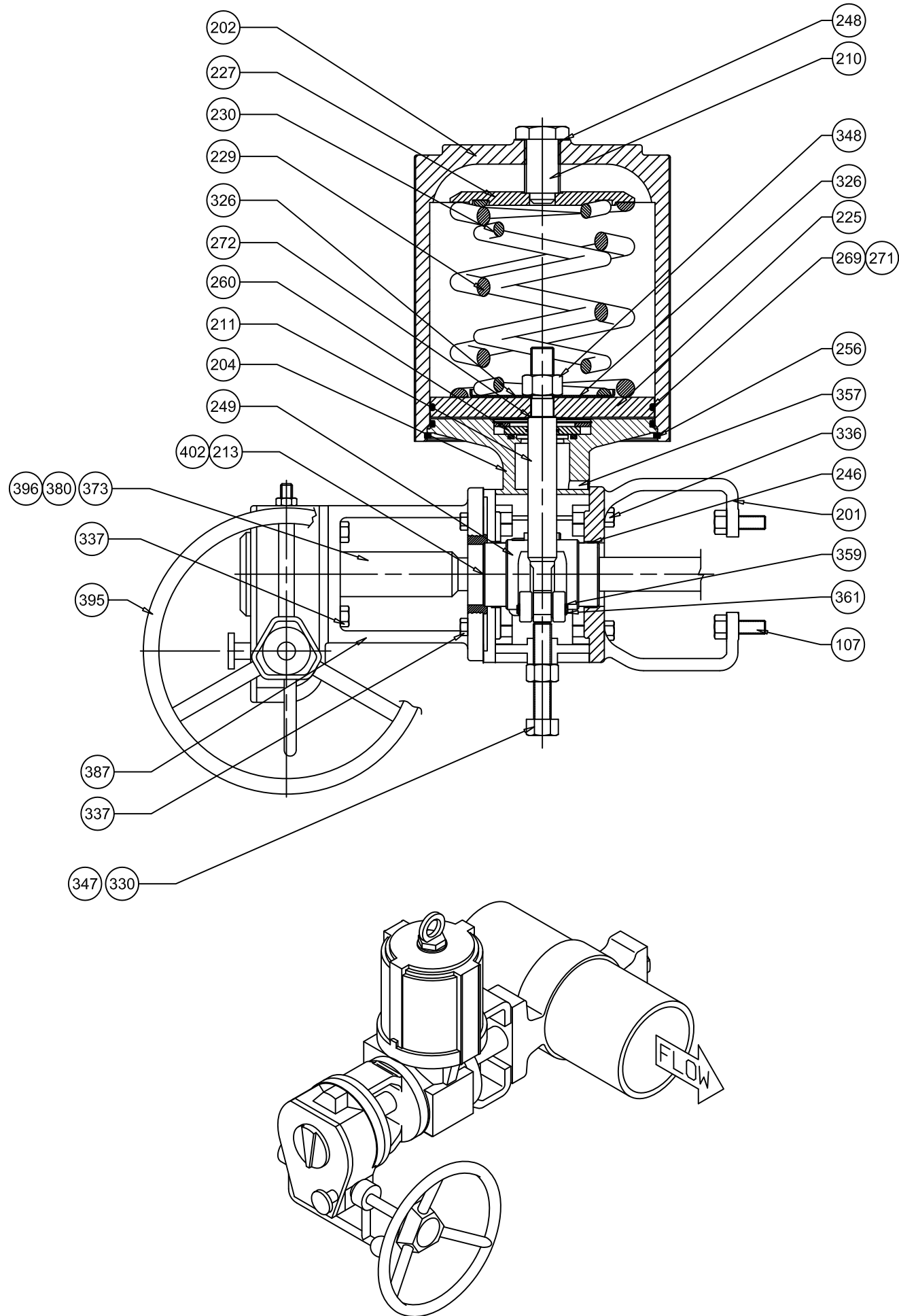
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D

C



B

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| REV. | DATE | DESCRIPTION | DRAWN | CHKD |
|------|------------|--------------------------------|-------|------|
| 0 | 02-26-2016 | ISSUED FOR APPROVAL | SSA | SG |
| 1 | 06-18-2016 | UPDATE AS PER CUSTOMER COMMENT | VGN | SG |

| | | | | |
|-----|--|---|--------------------|----------------------------|
| 1 | BODY, VLDSK2, 8", CL 600, DISK, CL 600, 125/250 RA, MSS SP-68, THRU HOLES | 1 | 273075.076.2441209 | A-216-WCC |
| 20 | SEAT RING, VLDSK2, 8", CL 600, 125/250, MSS SP-68, Stellite #6 | 1 | 264099.827.0001209 | Stellite #6, 316 |
| 50 | DISK, VLDSK2, 8", CL 600, 1.38 BORE | 1 | 254697.181.017 | A-351-CF8M |
| 51 | SHAFT, VLDSK2, 8", CL 600, 1.38 STEM, 1.38 SPLINE | 1 | 264109.C9X.000 | Stellite #6 |
| 52 | PIN, 3 DEG TAPER, VLDSK2, 8", CL 600 | 2 | 254961.C9W.000 | A-479-S20910 |
| 55 | GASKET, SPIRAL, 9.96 X 9.38, 0.12 THICK | 1 | 064338.868.000 | Gasket, Spiral Wound |
| 61 | SEAL, GRAFOIL, RIBBON, 40" L | 1 | 055008.687.000 | Grafoil |
| 80 | FLANGE, GLAND, VLDSK2, 1.38 STEM | 1 | 256007.183.000 | A-240-316 |
| 83 | BEARING, 1.38 STEM, VLDSK2, 2.50 L, 1.75 OD | 2 | 257585.825.000 | Stellite #6 Casting |
| 87 | FOLLOWER, PACKING, 1.38 STEM, 1.88 OD | 1 | 257586.150.000 | 316 Stainless Steel |
| 88 | PACKING SET, STD SQUARE, 1.38 STEM, VLDSK2 | 1 | 257599.CDT.000 | Packing, Garlock 1303 FEP |
| 93 | PKG SPR, 1.38 STEM, 1.88 OD, 0.25 L | 3 | 253385.150.000 | 316 Stainless Steel |
| 105 | SCREW, DRIVE, #4, 0.25 L | 4 | 007516.195.000 | Stainless Steel 18-8 |
| 107 | BOLT, HEX HEAD, 0.75-10, 1.50 L | 4 | 006873.015.002 | SAE Grade 5 |
| 109 | STUD, 0.50-13, 2.25 L | 2 | 003258.012.002 | A-193-B7 |
| 117 | NUT, 0.50-13, FINISH PATTERN | 2 | 001730.013.002 | Mild Steel |
| 122 | PLUG, HEX HEAD, 1.88-12, A-675-Gr.70 (Bar) | 1 | 054460.127.0021209 | A-675-Gr.70 |
| 123 | CLIP, SEAT RET, VLDSK2, 2"/3"/4"/6"/8"/10"/12" | 4 | 050256.151.000 | 304 Stainless Steel |
| 124 | CAP SCREW-SOCKET HEAD, LOW HD.TYPE, 5/16-18UNRC-3A | 4 | 051016.LUR.002 | Bolting, A-574 |
| 125 | STICKER | 1 | 072215.999.000 | Purchased Item |
| 126 | PLATE, FLOW ARROW, 1.50 L (ARROW ONLY) | 1 | 029356.153.000 | 302 Stainless Steel |
| 201 | YOKE, SIZE 100, ROTARY, 5.88 BOLT SPACING, 3.25 HUB | 1 | 126625.300.465 | Iron, Ductile, ASTM A-536 |
| 202 | CYLINDER, SIZE 100 LIN, STD | 1 | 001307.609.465 | Aluminum |
| 204 | TRANSFER CASE, SIZE 100, ROTARY, 4 STROKE, SLIDING SEAL | 1 | 056039.609.244 | Aluminum |
| 210 | ADJ SCREW, SIZE 100/600, 3.50 L | 1 | 001356.029.002 | Steel, Carbon |
| 211 | ACTUATOR STEM, SIZE 100, ROTARY, 4 STROKE | 1 | 056022.159.000 | A-582-416 |
| 225 | PISTON, SIZE 100, ROTARY, BACKUP RING | 1 | 064274.601.003 | Aluminum |
| 227 | SPRING BUTTON, SIZE 100, DUAL HD | 1 | 036280.029.176 | Steel, Carbon |
| 229 | SPRING, COMPRESSION, 9.00 DIA, 10.00 L, 561 LBS/IN | 1 | 042529.999.000 | Purchased Item |
| 230 | SPRING, COMPRESSION, 6.69 DIA, 10.00 L, 350 LBS/IN | 1 | 042530.999.000 | Purchased Item |
| 246 | BEARING, 3.44 OD, 3.25 ID, 0.75 L, PTFE LINED | 2 | 126537.999.000 | Purchased Item |
| 248 | GASKET, ELASTOMER, 2.12 X 1.50, 0.06 THICK | 1 | 001631.655.000 | Rubber, Neoprene |
| 249 | ASSY, SPLINED LEVER, 1.38 SPLINE, SIZE 100, ROTARY, CLAMPED, HW | 1 | 131153.999.000 | Purchased Item |
| 252 | PLATE, SERIAL, VALTEK, UNIVERSAL, TEMPLATE STD TAG.CDL | 1 | 254784.151.000 | 304 Stainless Steel |
| 256 | RET RING, CYLINDER, SIZE 100 LIN | 1 | 001403.029.002 | Steel, Carbon |
| 260 | ASSY, SLIDING SEAL, ACTUATOR, SIZE 100/200, ROTARY, 4 STROKE, CONTINUOUS LEVER | 1 | 062471.990.000 | Kit or Assy |
| 269 | BACKUP RING, 11.00 OD, DASH #450 | 1 | 064273.976.000 | Plastic, PTFE |
| 271 | O-RING | 2 | 001313.650.000 | Rubber, Buna-N |
| 272 | O-RING | 1 | 001312.650.000 | Rubber, Buna-N |
| 280 | 520MD+37-W1D300-GM1-0100, G, ASSY, LOGIX PLUS 500 | 1 | 338926.999.000 | Purchased Item |
| 280 | COVER PLATE, WITHOUT POSITIONER, ROTARY, ACT | 1 | 026567.029.465 | Steel, Carbon |
| 290 | KIT, MTG, LOGIX 500, POSITION PAC, 1.38 STEM, VR, SIZE 100/200, HW, ROTARY | 1 | 348532.029.465 | Steel, Carbon |
| 305 | POSITION PAC, ASSY, A2, 12CX104, 2X, LIMIT SWITCH | 1 | 055578.999.000 | Purchased Item |
| 309 | FILTER REGULATOR, NORGREN, B08-251-M1MA | 1 | 138114.999.000 | Purchased Item |
| 326 | SPRING GUIDE, SIZE 100, DUAL HD | 1 | 036184.029.176 | Steel, Carbon |
| 330 | BOLT, HEX HEAD, 1.25-7, 3.50 L, FULL THREAD | 2 | 019256.015.002 | SAE Grade 5 |
| 336 | BOLT, LUG, 0.62-11, 0.94 L | 4 | 072249.C07.002 | A-29-1144 |
| 337 | BOLT, HEX HEAD, 0.62-11, 1.50 L | 8 | 001670.015.002 | SAE Grade 5 |
| 347 | NUT, JAM, 1.25-7 | 2 | 019810.013.002 | Mild Steel |
| 348 | LOCKNUT, 1.12-7 | 1 | 001357.013.002 | Mild Steel |
| 357 | SCREEN, VENT, POSITIONER BETA | 1 | 044671.164.000 | 300 Series |
| 359 | RET RING, SNAP, OUTSIDE, 0.75 DIA, TRUARC 5555-75 | 2 | 056045.999.000 | Purchased Item |
| 361 | PIN, ACTUATOR, SIZE 100, ROTARY, 2.16 L | 1 | 056044.201.000 | 17-4Ph, Cond H1025 |
| 373 | KEY, 0.50 X 0.50, 2.75 L | 1 | 053793.C2V.002 | A-108/A-29 |
| 380 | ASSY, SHAFT, HANDWHEEL, SIZE 100/200, VR, AMEYA | 1 | 324828.999.000 | Purchased Item |
| 382 | VALVE, 3-WAY, 1/4" NPT-F, TYPE L, 700-4F4F4F-B, SPECIALTY 3420590 | 1 | 034747.402.000 | Brass, B-16-HO2 |
| 386 | STICKER, INDICATOR, AUTO-MANUAL | 1 | 007194.675.000 | Plastic, Mylar |
| 387 | YOKE, GEAR OPERATOR, DECLUTCHABLE, ROTARY ACTUATOR | 1 | 126627.300.465 | Iron, Ductile, ASTM A-536, |
| 395 | ACTUATOR, AMEYA, MOR2.5, SIZE 100, ROTARY, DECLUTCHABLE, CW OUT | 1 | 303213.999.465 | Purchased Item |
| 400 | STICKER, FLOWSERVE, SIZE 100, LINEAR, CYLINDER | 2 | 216068.999.000 | Purchased Item |
| 404 | SCREW, PAN HEAD, #10-24, 0.38 L, THD FORMING | 3 | 035771.029.002 | Steel, Carbon |
| 420 | STICKER, CAUTION, ROTARY, ACT, HW | 1 | 175160.675.000 | Plastic, Mylar |
| 421 | STICKER, DUAL HD, SPRING | 1 | 044607.675.000 | Plastic, Mylar |
| 422 | STICKER, 150 PSI | 1 | 076564.675.000 | Plastic, Mylar |

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|------------|-----|-----------|-----------|---|--|--------------------------|--|--|--------|------|---|
| MODEL | | VALDISK | | DRAWN BY VGN | | DATE 06-18-2016 | | <div> CERTIFIED DIMENSIONAL DRAWING</div> | | | |
| SIZE | | 8.00 INCH | | CERTIFIED BY | | SG | | | | | |
| RATING | STD | 600 | MSS SP 68 | DATE 06-18-2016 | | CUSTOMER | | | | | |
| END PREP. | | WAFER | | <div>THIRD ANGLE PROJECTION</div> <div></div> | | VOGT POWER INTERNATIONAL | | | | | |
| SHAFT | | UPSTREAM | | | | PURCHASE ORDER NO. | | PROJECT OR JOB | | | |
| TRIM # | CV | 8.00 | 1571 | | | V0009668 | | V17494-MIDDLETOWN | | | |
| ACT. SIZE | | 100 SQ IN | | <div>TOLERANCES</div> <div>DECIMALS: IN/[mm]</div> <div>.X ±.25/[6.4]</div> <div>.XX ±.12/[3.1]</div> <div>.XXX ±.06/[1.5]</div> <div>ANGLES: ±1/2°</div> | | ITEM NO. | | SHEET | 2 of 2 | SIZE | |
| SPRING | | DUAL | | | | TAG NO. | | SCALE: | NONE | | C |
| AIR ACTION | | OPEN | | | | 11P-PCV3202 | | VALTEK S/N | | REV | |
| FAIL MODE | | CLOSE | | | | | | 8003477.003 | | | |

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