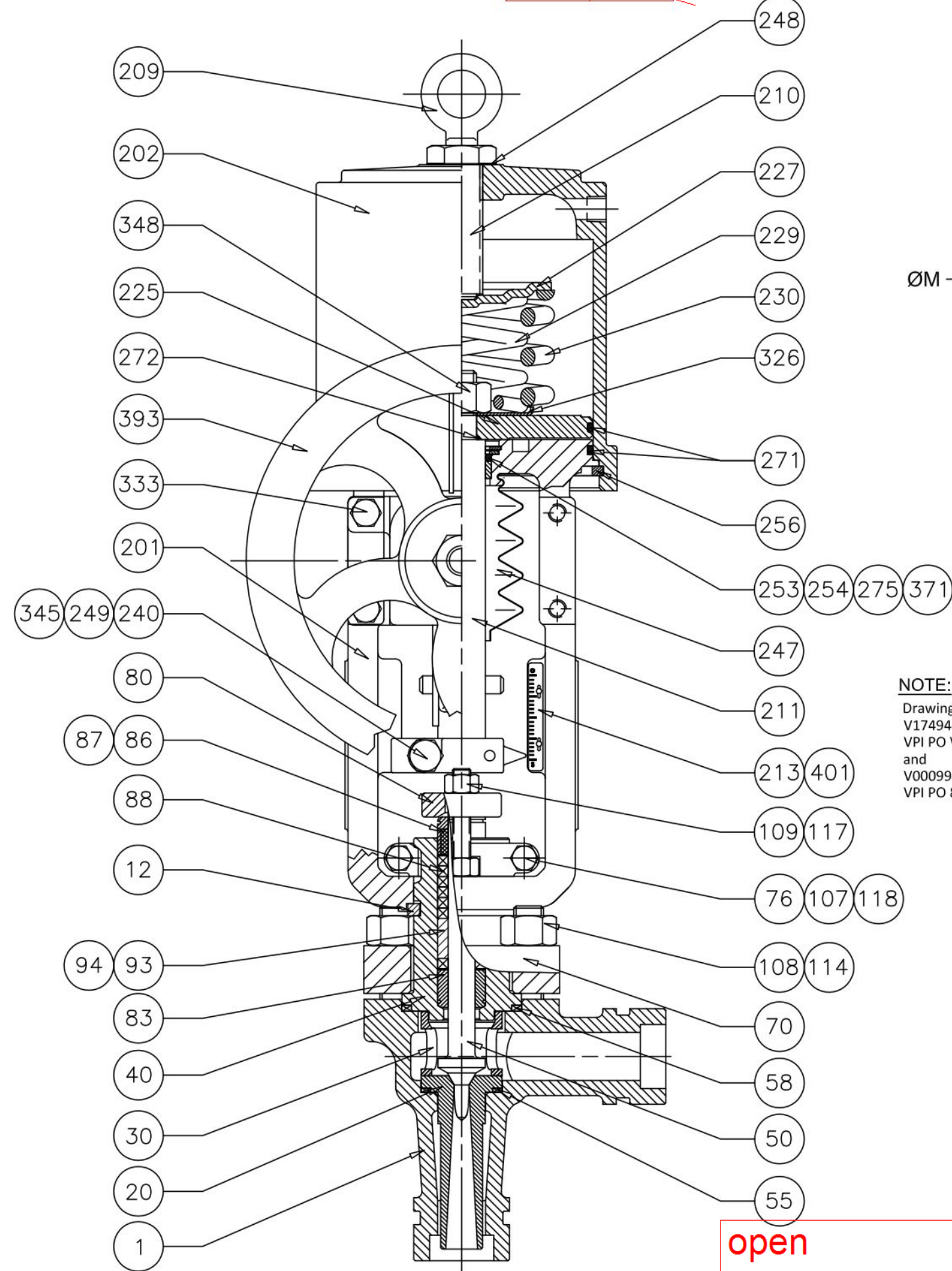


ACTUATOR SHOWN ROTATED
IN THIS VIEW FOR CLARITY

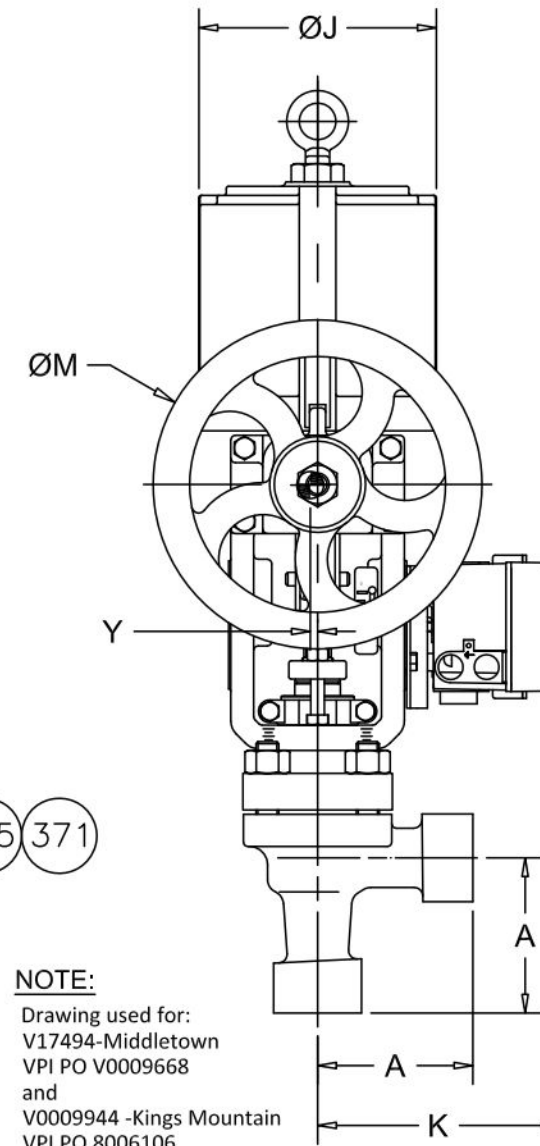
VOGT POWER INTERNATIONAL
Released: Work May Proceed
Bell, Milton Jul-06-2016

MECK/MEC
Non-Pump Dependent Control Valves 1" IP CBD 1IP-FCV3204

REV.	DATE	DESCRIPTION	DRAWN	CHKD
0	03-01-2016	ISSUED FOR APPROVAL	VKP	SG
1	06-18-2016	UPDATE AS PER CUSTOMER COMMENT	VGN	SG



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



	X	Y	Z
in	0.4	0.2	10.2
mm	10	5	259

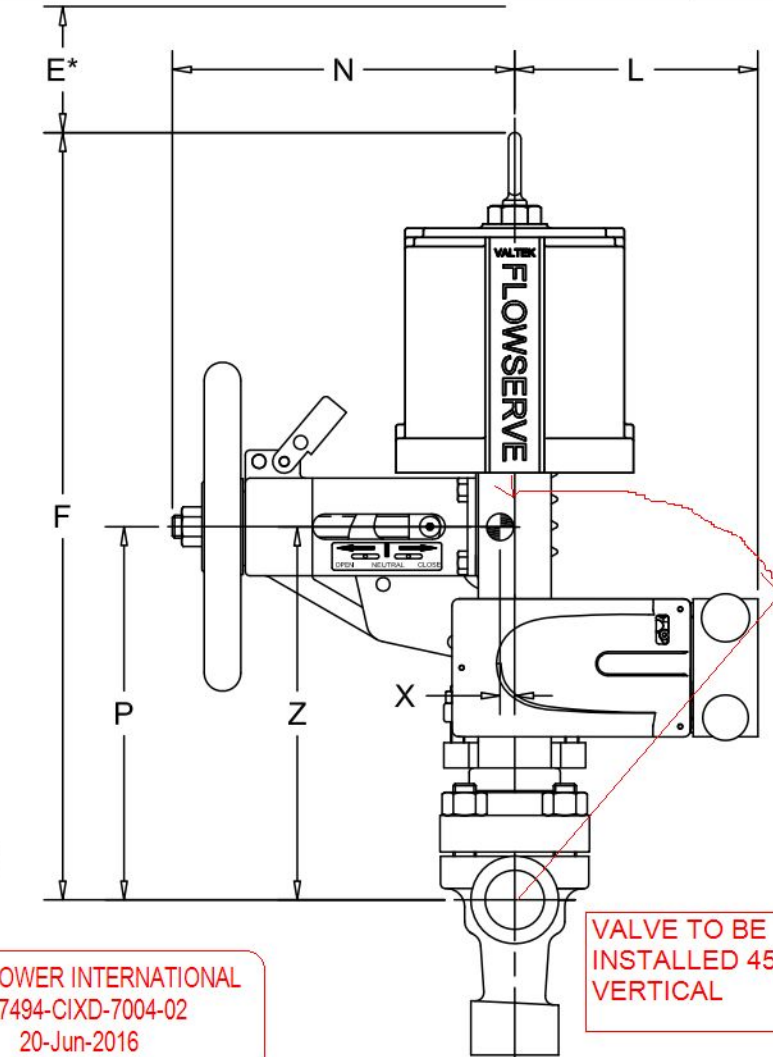
	A	E	F	J	K	L	M	N	P	APPROXIMATE WEIGHT
in	4.25	2.5	21.1	6.5	8.3	7.3	9.0	9.5	10.4	70 lbs
mm	108	64	536	165	211	185	229	241	264	32 kg

* - DISASSEMBLY/MAINTENANCE CLEARANCE

VOGT POWER INTERNATIONAL
ReSubmit per Comments, Work May Proceed
Bell, Milton Oct-12-2016

← FLOW

VOGT POWER INTERNATIONAL
V17494-CIXD-7004-02
20-Jun-2016



VALVE TO BE
INSTALLED 45° FROM
VERTICAL

DESIGN CONDITIONS	
DESIGN PRESSURE	850.00 psi(g)
DESIGN TEMPERATURE	528°F (276°C)
PIPE SCH UP	1.00/80 SCH
PIPE SCH DOWN	2.00/80 SCH
VALVE BODY MATERIAL	CARBON STEEL(WCC)
SERVICE DESCRIPTION	IP CONTINUOUS BLOWDOWN CONTROL VALVE

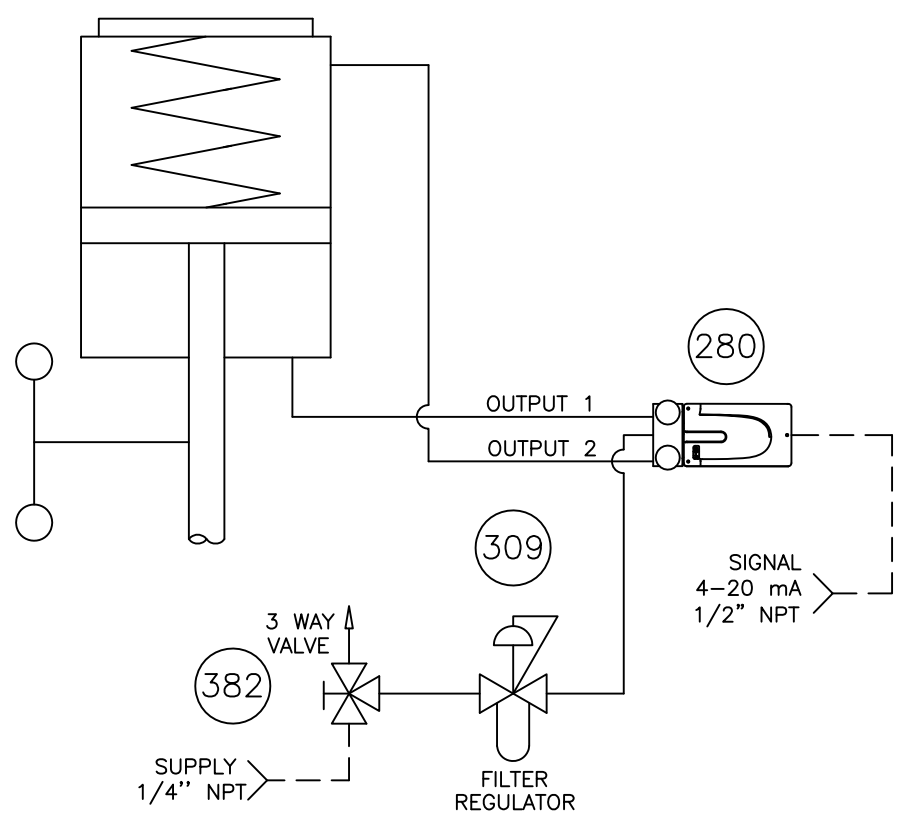
MODEL	MARK I ANGLE	DRAWN BY VGN DATE 06-18-2016	FLOWSERVE CERTIFIED DIMENSIONAL DRAWING		
SIZE	1.00 INCH	CERTIFIED BY SG	CUSTOMER		
RATING STD	600 VALTEK	DATE 06-18-2016	VOGT POWER INTERNATIONAL		
END PREP.	SOC WELD	THIRD ANGLE PROJECTION	PURCHASE ORDER NO.	PROJECT OR JOB	
TRIM TYPE	UNBALANCED		V0009668	V17494-MIDDLETOWN	
TRIM NO CV	.31 2.9		ITEM NO.	SHEET	1 of 2
ACT. SIZE	25 SQ IN		1IP-FCV3204	SCALE:	NONE
SPRING	DUAL		TAG NO.	VALTEK S/N	8003477.005
AIR ACTION	OPEN				
FAIL MODE	CLOSE				
		TOLERANCES DECIMALS: IN/[mm]			SIZE
		.X ±.25/[6.4]			C
		.XX ±.12/[3.1]			REV
		.XXX ±.06/[1.5]			1
		ANGLES: ±1/2°			

D

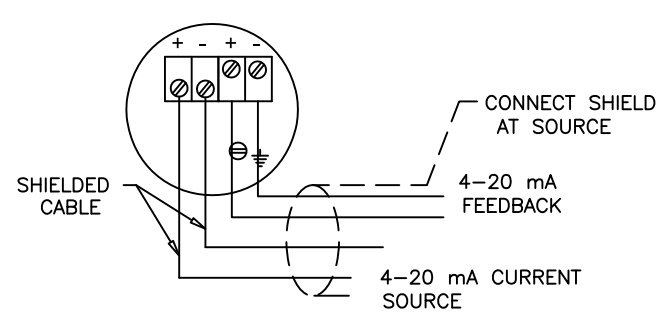
C

B

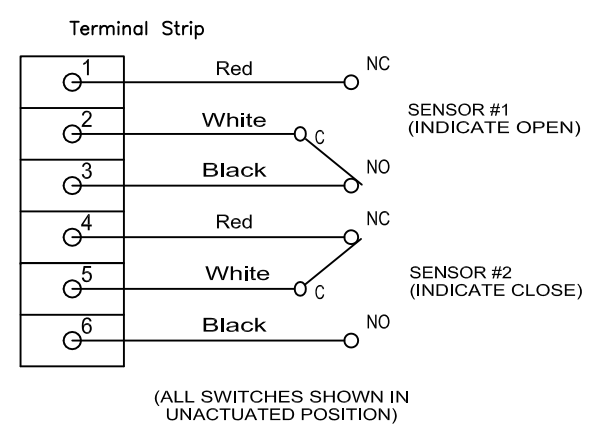
A



PNEUMATIC SCHEMATIC



280 LOGIX 500 POSITIONER

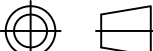


305 POSITION PAC A2 (2 SPDT)

ELECTRICAL SCHEMATIC

REV.	DATE	DESCRIPTION	DRAWN	CHKD
0	03-01-2016	ISSUED FOR APPROVAL	VKP	SG
1	06-18-2016	UPDATE AS PER CUSTOMER COMMENT	VGN	SG

1	BODY, MK1, ANGLE, 1", CL 150/600, SOCKET WELD	1	073041.076.2441209	A-216-WCC
12	HALF RING, 2.25 OD, 1.75 ID, 0.25 THICK	2	001047.029.002	Steel, Carbon
20	SEAT RING, MK1, VENTURI, 1", TN 0.31, CL 150/600, BODY, SOCKETWELD, NPT	1	355555.158.000	A-582-416
30	SEAT RET, MK1, 1", CL 150/600	1	001139.158.000	A-582-416
40	BONNET, MK1, 1", 2.00 SPUD, CL 150/600, 0.56 STEM, 3.50 BD	1	002119.127.2441209	A-675-Gr.70
50	PLUG, MK1, 1", -%, TN 0.31, CL 150/600, 0.75 STROKE	1	002196.674.0001209	A-276-420
55	GASKET, SPIRAL, 1.69 X 1.31, 0.12 THICK	1	001224.868.000	Graphite
58	GASKET, SPIRAL, 2.50 X 2.12, 0.19 THICK	1	001228.868.000	Graphite
70	FLANGE, BONNET, MK1, 1", CL 150/600	1	001131.028.2441209	A-516-70
76	HALF CLAMP, YOKE, 2.00 SPUD, BOLT, HEX HEAD, ECN 7421	2	094677.211.000	A-743-CF8M
80	FLANGE, GLAND, 0.56 STEM, 2.00 SPUD, CL 150/1500	1	008454.211.000	A-743-CF8M
83	GUIDE, 0.56 STEM, ECN 3753	1	001044.825.000	Stellite #6 Casting
86	GUIDE LINER, 0.56 STEM, GRAFOIL	1	007603.842.000	Grafoil
87	GUIDE RETAINER, 0.56 STEM, GRAFOIL/PTFE, ECN 3753	1	007842.150.000	316 Stainless Steel
88	PACKING SET, STD SQUARE, 0.56 STEM	1	024238.CDT.000	Packing, Garlock 1303 FEP
93	PKG SPR, 0.56 STEM, 0.04 L, NOTCHED	2	089397.150.000	316 Stainless Steel
94	PKG SPR, 0.56 STEM, 1.50 L	1	002283.150.000	316 Stainless Steel
107	BOLT, HEX HEAD, 0.31-18, 1.50 L	2	001116.015.002	SAE Grade 5
108	STUD, 0.62-11, 2.62 L	4	005620.012.0021209	A-193-B7
109	BOLT, HEX HEAD, 0.38-16, 2.00 L	2	001860.015.002	SAE Grade 5
114	NUT, 0.62-11, HEAVY HEX	4	005110.014.0021209	A-194-2H
117	NUT, 0.38-16, FINISH PATTERN	2	001155.013.002	Mild Steel
118	LOCKNUT, 0.31-18	2	003833.013.002	Mild Steel
126	PLATE, FLOW ARROW, 2.62 X 0.62	1	002442.153.000	302 Stainless Steel
201	YOKE, SIZE 25, 2.00 SPUD, SMHW	1	031570.300.465	Iron, Ductile
202	CYLINDER, SIZE 25 LIN, 1/4" NPT, STD	1	016681.609.465	Aluminum
209	BOLT, EYE, 0.38-16, 1.00 ID, 1.00 L, SHOULDER PATTERN	1	046117.999.002	Purchased Item
210	ADJ SCREW, SIZE 25, 2.72 L	1	087910.C65.002	A-108 Grade 1018
211	ASSY, ACTUATOR STEM, SIZE 25 LIN, 2.00 SPUD, 0.50-20, 1.50 STROKE, SMHW, HD SPRING	1	041504.159.000	A-582-416
213	PLATE, STROKE, 0.75 STROKE	1	001156.603.000	Aluminum
225	PISTON, SIZE 25	1	001004.601.003	Aluminum
227	SPRING BUTTON, SIZE 25, DUAL HD	1	036133.029.176	Steel, Carbon
229	SPRING, COMPRESSION, 2.75 DIA, 4.03 L, 189 LBS/IN	1	015264.999.000	Purchased Item
230	SPRING, COMPRESSION, 3.88 DIA, 4.31 L, 267 LBS/IN	1	036134.999.000	Purchased Item
233	WASHER, FLAT, 0.56 OD, 0.25 ID, 0.05 THICK, 0.25 THD	2	098692.195.000	Stainless Steel 18-8
234	BOLT, HEX HEAD, 0.25-20, 0.38 L	2	025519.195.000	Stainless Steel 18-8
235	TAKEOFF ARM, LOGIX 500SI, SIZE 25/50, 2.00 SPUD, SMHW, ECN 5718, 5898	1	228472.151.000	304 Stainless Steel
236	FOLLOWER ARM, 0.75-3 STROKE, LINEAR, LOGIX 500SI DIGITAL POSITIONER	1	198783.151.000	304 Stainless Steel
240	BOLT, HEX HEAD, 0.38-16, 2.00 L	1	001860.195.000	Stainless Steel 18-8
247	BELLOWS, STEM, SIZE 25	1	015498.652.000	Rubber, Neoprene
248	GASKET, ELASTOMER, 1.31 X 0.75, 0.06 THICK	1	001501.655.000	Rubber, Neoprene
249	STEM CLAMP, SIZE 25, 2.00 SPUD, SIZE 50, 2.00 SPUD	1	134253.211.000	A-743-CF8M
252	PLATE, SERIAL, VALTEK, UNIVERSAL, TEMPLATE STD TAG.CDL	1	254784.151.000	304 Stainless Steel
253	BUSHING, 1.25 OD, 1.00 ID, 0.31 L, SIZE 25, STEM	1	017665.431.000	Bronze, B-438, Gr1
254	RETAINER, 1.50 X 1.00, 0.06 THICK	1	032266.402.000	Brass, B-16-HO2
256	RET RING, CYLINDER, SIZE 25 LIN	1	016680.029.002	Steel, Carbon
271	O-RING	2	001114.650.000	Rubber, Buna-N
272	O-RING	1	001112.650.000	Rubber, Buna-N
275	O-RING	1	001113.650.000	Rubber, Buna-N
280	520MD+37-W1D300-GM1-0100, G, ASSY, LOGIX PLUS 500, ATEX/IECEx, WHITE, GLASS, NPT	1	338926.999.000	Purchased Item
289	TRIP, LIMIT SWITCH, SIZE 25	1	035108.151.000	304 Stainless Steel
290	BRACKET, SIZE 25/50 LIN, ALL SPUDS, DOUBLE ACTING, LOGIX 500SI, ECN 2638, 2768, 2924	1	198781.151.000	304 Stainless Steel
296	BRACKET, POSITION PAC, 2.00/2.62 SPUD, SIZE 25/50, 1.50-3 STROKE, ECN 8228	1	055972.029.465	Steel, Carbon
305	POSITION PAC, ASSY, A2, 12CX104, 2X LIMIT SWITCH	1	055578.999.000	Purchased Item
307	LEVER, LIMIT SWITCH, MICRO LS252J	1	035457.999.000	Purchased Item
309	FILTER REGULATOR, NORGREN, B08-251-M1MA, 1/4" NPT, W/GAUGE, MPA/BAR/PSI, ECN 7673	1	138114.999.000	Purchased Item
321	CONDUIT BOX, SANDELIUS, E44D-CP140-4	1	121582.999.000	Purchased Item
326	SPRING GUIDE, SIZE 25, DUAL HD	1	036132.029.176	Steel, Carbon
333	BOLT, HEX HEAD, 0.38-16, 1.00 L	4	001713.010.002	SAE Grade 2, 4, or 5
345	LOCKNUT, 0.38-16, FLEX LOCK, 50 FAF-616	1	063619.195.000	Stainless Steel 18-8
348	LOCKNUT, 5/8-11	1	001120.013.002	Mild Steel
371	RET RING, SNAP, INSIDE, 1.56 DIA	1	032265.029.002	Steel, Carbon
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
393	ASSY, SMHW, SIZE 25, ACTUATOR, HANDWHEEL, 9.00 DIA	1	021535.999.465	Purchased Item
400	STICKER, FLOWSERVE, SIZE 25, LINEAR, CYLINDER	2	216066.999.000	Purchased Item
401	SCREW, PHILLIPS, #4-40, 0.25 L, THD CUTTING	2	001118.012.002	A-193-B7
401	SCREW, PHILLIPS, #4-40, 0.25 L, THD CUTTING	2	001118.012.002	A-193-B7
402	SCREW, DRIVE, #4, 0.25 L	4	007516.195.000	Stainless Steel 18-8
403	BOLT, HEX HEAD, 0.31-18, 0.62 L	4	004403.195.000	Stainless Steel 18-8
404	WASHER, FLAT, 0.69 OD, 0.34 ID, 0.07 THICK, 0.31 THD	2	044390.195.000	Stainless Steel 18-8
414	BOLT, HEX HEAD, 0.31-18, 0.75 L	2	001290.010.002	SAE Grade 2, 4, or 5
415	BOLT, HEX HEAD, 0.31-18, 1.75 L	4	002482.010.002	SAE Grade 2, 4, or 5
416	WASHER, FLAT, 0.69 OD, 0.34 ID, 0.07 THICK, 0.31 THD	4	044390.006.002	Steel, Spring
419	LOCKNUT, 0.31-18	4	003833.013.002	Mild Steel
421	STICKER, DUAL HD, SPRING	1	044607.675.000	Plastic, Mylar
422	STICKER, 150 PSI	1	076564.675.000	Plastic, Mylar
426	STICKER, CAUTION, PINCH POINT, CONSULT MANUAL	2	187800.999.000	Purchased Item
461	BOLT, HEX HEAD, M8 X 1.25, 15MM L	2	166114.195.000	Stainless Steel 18-8
462	LOCKNUT, M8 X 1, NYLON INSERT	1	185159.195.000	Stainless Steel 18-8
463	PIN, FOLLOWER, LEVER ARM, POSITIONER, LOGIX 500SI	1	222516.999.000	Purchased Item
464	WASHER, FLAT, M6	1	106296.195.000	Stainless Steel 18-8
465	NUT, 6MM	1	034142.195.000	Stainless Steel 18-8

ITEM				DESCRIPTION		QTY	PART NO.	MATERIAL CODE		
MODEL		MARK I ANGLE		DRAWN BY VGN DATE 06-18-2016		<div>FLOWERVE</div> CERTIFIED DIMENSIONAL DRAWING				
SIZE		1.00 INCH		CERTIFIED BY SG		CUSTOMER VOGT POWER INTERNATIONAL				
RATING	STD	600	VALTEK	DATE 06-18-2016						
END PREP.		SOC WELD		<div>THIRD ANGLE PROJECTION</div> <div></div>		PURCHASE ORDER NO. V0009668			PROJECT OR JOB V17494-MIDDLETOWN	
TRIM TYPE		UNBALANCED								
TRIM NO	CV	.31	2.9							
ACT. SIZE		25 SQ IN		ITEM NO.		SHEET		2 of 2	SIZE	
SPRING		DUAL		TAG NO.		SCALE:		NONE	C	
AIR ACTION		OPEN		11P-FCV3204		VALTEK S/N		REV		
FAIL MODE		CLOSE				8003477.005		1		