

ACTUATOR SHOWN ROTATED
IN THIS VIEW FOR CLARITY

VOGT POWER INTERNATIONAL
V17494-CIXD-7102-04
31-May-2016

VOGT POWER INTERNATIONAL
Released, Work May Proceed
Bell, Milton Jun-21-2016

REV.	DATE	DESCRIPTION	DRAWN	CHKD
0	04-19-2016	ISSUED FOR APPROVAL	VKP	SG
1	05-18-2016	UPDATED AS PER CUSTOMER COMMENTS	BJK	SG
2	05-24-2016	UPDATED AS PER CUSTOMER COMMENTS	BJK	SG


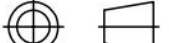
MECKMEC
Pump Curve Dependant Control Valves-3" IP Feedwater/PLCV3201

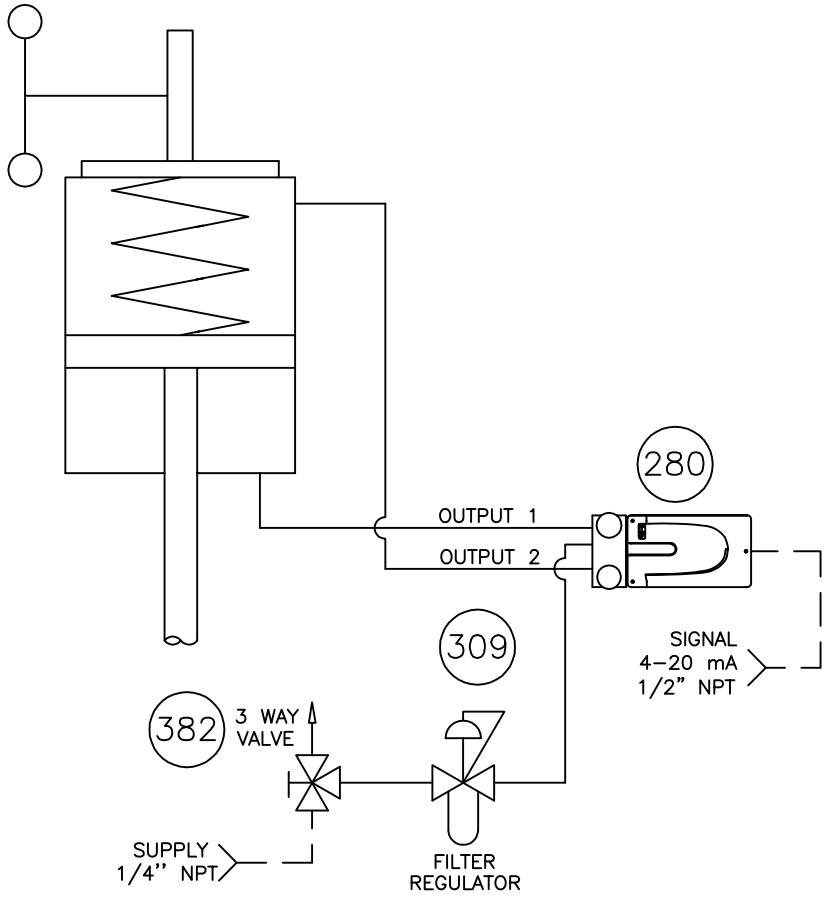
DESIGN CONDITIONS	
DESIGN PRESSURE	1275.00 psi(g)
DESIGN TEMPERATURE	577.00°F (303°C)
PIPE SCH UP	4.00/40 SCH
PIPE SCH DOWN	4.00/40 SCH
VALVE BODY MATERIAL	CARBON STEEL(WCC)

APPROXIMATE CENTER OF GRAVITY			
	X	Y	Z
in	0	0.7	23.3
mm	0	18	592

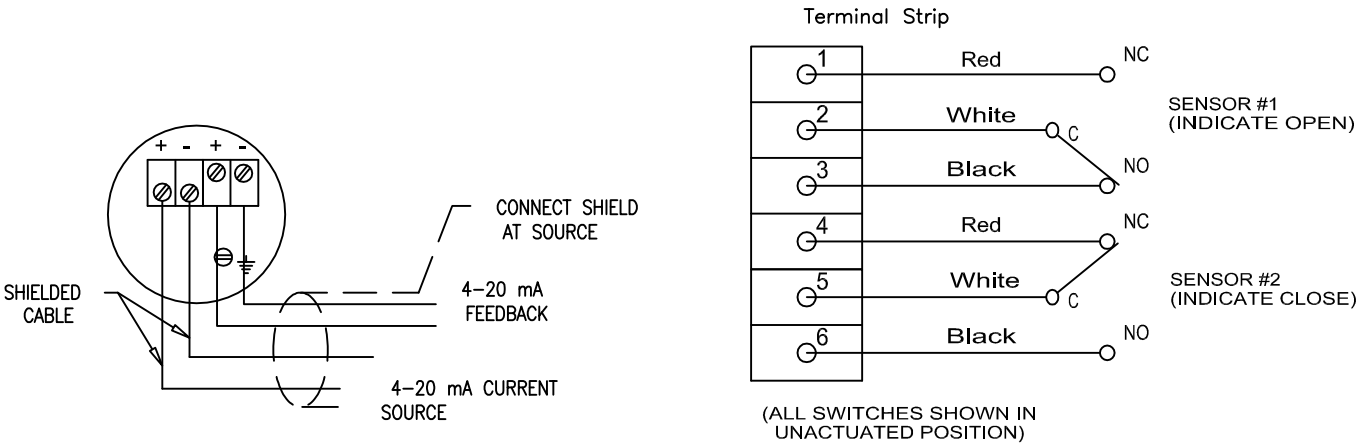
* - DISASSEMBLY/MAINTENANCE CLEARANCE

	A	E	F	J	K	L	M	N	P	APPROXIMATE WEIGHT
in	18.12	8.5	57.6	12.5	10.8	7.3	18.0	16.0	47.3	664 lbs
mm	460	216	1463	318	274	185	457	406	1201	301 kg

MODEL		MK I/CHNLSTRM		DRAWN BY BJK		DATE 05-24-2016		<div> CERTIFIED DIMENSIONAL DRAWING</div>		
SIZE		3.00 INCH		CERTIFIED BY		SG		CUSTOMER VOGT POWER INTERNATIONAL		
RATING	STD	900	S75.08.05	DATE 05-24-2016						
END PREP.		BW SCH 40		<div>THIRD ANGLE PROJECTION</div> <div></div>						
TRIM TYPE		UNBALANCED				PURCHASE ORDER NO.		PROJECT OR JOB		
TRIM NO	CV	2.00B	41(4stg)			V0009762		V17494-MIDDLE TOWN		
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	1 of 2	SIZE
SPRING		HEAVY DUTY				TAG NO.		SCALE:	NONE	C
AIR ACTION		OPEN				1IP-LCV3201 IP FEEDWATER DRUM LEVEL		VALTEK S/N		
FAIL MODE		CLOSE						8004233.003		2



PNEUMATIC SCHEMATIC



ELECTRICAL SCHEMATIC


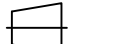
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0	04-19-2016	ISSUED FOR APPROVAL	VJK	SG
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NOTE:

1. BODY END PREPARATION ASME B16.25 FIG 2A
2. HYDROSTATIC TEST PRESSURE 3330 psi
3. NO LIFTING LUGS REQUIRED, VALVE CAN BE LIFTED FROM HANDWHEEL PEDESTAL

1	BODY, MK1, 3", CL 900/1500, ISA-75.08.05, BW, SCH 40	1	048936.076.2441209	A-216-WCC
12	HALF RING, 3.75 OD, 3.00 ID, 0.38 THICK, ECN 6342	4	003984.029.002	Steel, Carbon
20	SEAT RING, MK1, CHNLSTRM, 3", TN 2.00, CL 150/1500	1	049822.158.000	A-582-416
30	SEAT RET, MK1, CHNLSTRM, 3", LIN, TN 2.00B, CV 41, CL 900/1500, 4 STAGE, 2.50 STROKE, DPR 1500	1	273690.158.000	A-582-416
40	BONNET, MK1, CHNLSTRM, 3", 3.38 SPUD, CL 900/1500	1	192112.127.2441209	A-476-S-70
43	ADAPTER, YOKE, 3.38 SPUD, HALF RING, 0.38 THICK, ECN 6342	1	007841.029.465	Steel, Carbon
50	PLUG, MK1, CHNLSTRM, 3", TN 2.00, CL 900/1500, 2.50 STROKE	1	192111.674.0001209	A-276-420
55	GASKET, SPIRAL, 3.75 X 3.38, 0.12 THICK, ECN 5623	1	001231.868.000	Gasket, Spiral Wound
58	GASKET, SPIRAL, 4.62 X 4.25, 0.19 THICK, ECN 5622	1	001233.868.000	Gasket, Spiral Wound
70	FLANGE, BONNET, MK1, 3", CL 900/1500, 3.38 SPUD	1	181021.028.2441209	A-516-70
80	FLANGE, GLAND, 1.50 STEM, 3.38 SPUD, CL 150/2500, ECN 6342	1	001969.211.000	A-743-CF8M
83	GUIDE, 1.50 STEM	2	001967.433.000	Bronze, B-505-C93200
88	PACKING SET, STD SQUARE, 1.50 STEM	1	024246.516.000	Packing, Garlock 1298
93	PKG SPR, 1.50 STEM, 0.06 L, NOTCHED	2	089400.150.000	316 Stainless Steel
94	PKG SPR, 1.50 STEM, 4.00 L, ECN 4810	1	020903.150.000	316 Stainless Steel
95	PKG SPR, 1.50 STEM, 0.25 L, ECN 4088	1	020933.150.000	316 Stainless Steel
96	PKG SPR, 1.50 STEM, 0.09 L, STAMPING, ECN 4088	1	051861.150.000	316 Stainless Steel
107	BOLT, HEX HEAD, 0.62-11, 2.50 L	4	002566.015.002	SAE Grade 5
108	STUD, 1.00-8, 5.00 L	8	001796.012.0021209	A-193-B7
109	STUD, 0.62-11, 6.25 L	2	006254.012.002	A-193-B7
114	NUT, 1.00-8, HEAVY HEX	5	001750.014.0021209	A-194-291
117	NUT, 0.62-11, HEAVY HEX	4	005110.014.002	A-194-291
126	PLATE, FLOW ARROW, 2.62 X 0.62	1	020442.153.000	302 Stainless Steel
201	YOKE, SIZE 100, 3.38 SPUD, 4 STROKE, 3/4" NPT	1	017681.300.465	Iron, Ductile
202	CYLINDER, SIZE 100 LIN, HANDWHEEL, LIMITORQUE AND LIMIT STOPS, 8 STROKE	1	049852.609.465	Aluminum
211	ACTUATOR STEM, SIZE 100/200 LIN, 3.38/4.75 SPUD, 1.31-12 THD, 4 STROKE	1	002437.159.000	A-582-416
213	PLATE, STROKE, 2.50 STROKE	1	001252.603.000	Aluminum
225	PISTON, SIZE 100	1	001311.601.003	Aluminum
227	SPRING BUTTON, SIZE 100, DUAL HD, LIMITORQUE, B320	1	038799.029.176	Steel, Carbon
228	SPACER, SIZE 100, 2.62/4.75 SPUD, Aluminum, 6061-T6 (Bar, Plate, Tube)	1	008272.601.000	Aluminum
229	SPRING, COMPRESSION, 9.00 DIA, 10.00 L, 561 LBS/IN	1	042529.999.000	Purchased Item
235	TAKEOFF ARM, SIZE 100/200, 3.38/4.75 SPUD, LOGIX 500SI DIGITAL POSITIONER	1	229043.151.000	304 Stainless Steel
236	FOLLOWER ARM, LOGIX, 500, 0.50-4 STROKE	1	184593.151.000	304 Stainless Steel
237	PIN, FOLLOWER, LEVER ARM, POSITIONER, LOGIX 500SI	1	222516.999.000	Purchased Item
240	BOLT, HEX HEAD, 0.50-13, 3.25 L	1	044411.195.000	Stainless Steel 18-8
241	BOLT, HEX HEAD, 0.31-18, 0.62 L	4	004403.195.000	Stainless Steel 18-8
242	WASHER, LOCK, 0.31 BOLT	2	004730.195.000	Stainless Steel 18-8
247	BELLOWS, STEM, SIZE 100/200, 4 STROKE, 3.38/4.75 SPUD	1	015526.652.000	Rubber, Neoprene
249	STEM CLAMP, SIZE 100/200, 3.38/4.75 SPUD, LOGIX 1000, ANTI-ROTATION	1	134257.211.000	A-743-CF8M
250	CLAMP, SIZE 100 LIN, CYLINDER	1	015672.150.000	316 Stainless Steel
252	PLATE, SERIAL, VALTEK, UNIVERSAL, TEMPLATE STD TAG CDL	1	254784.151.000	304 Stainless Steel
253	BUSHING, 2.62 OD, 2.25 ID, 0.94 L	2	017740.431.000	Bronze, B-438, Gr1
256	RET RING, CYLINDER, SIZE 100 LIN	1	001403.029.002	Steel, Carbon
271	O-RING	2	001313.650.000	Rubber, Buna-N
272	O-RING	1	001312.650.000	Rubber, Buna-N
275	O-RING	1	001718.650.000	Rubber, Buna-N
276	O-RING	1	005494.650.000	Rubber, Buna-N
280	520MD+37-W1D300-GM1-0100, G, ASSY, LOGIX PLUS 500	1	338926.999.000	Purchased Item
290	BRACKET, POSITIONER, LOGIX 500SI, SIZE 100/200, 3.38/4.75 SPUD	1	229042.151.000	304 Stainless Steel
296	BRACKET, POSITION PAC, SIZE 100/200, 2.62/4.75 SPUD, 1-4 STROKE	1	055984.029.465	Steel, Carbon
299	SPACER, BRACKET, POSITION PAC, 0.38 BOLT, 0.50 L	2	055986.999.000	Purchased Item
305	POSITION PAC, ASSY, A2, 1/2" DIA, 2" LIMIT SWITCH	1	055676.999.000	Purchased Item
307	LEVER, LIMIT SWITCH, MICRO LS25J	1	036457.999.000	Purchased Item
309	FILTER REGULATOR, NORGREN, B09-251-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
323	SPACER, ACTUATOR STEM, SIZE 100 LIN, LIMITORQUE, DUAL HD, Aluminum, 6061-T6 (Bar, Plate, Tube)	1	104740.601.000	Aluminum
326	SPRING GUIDE, SIZE 100, DUAL HD	1	036184.029.176	Steel, Carbon
333	BOLT, HEX HEAD, 0.62-11, 5.00 L, FULL THD	6	006175.015.002	SAE Grade 5
334	BOLT, HEX HEAD, 0.62-11, 2.25 L	4	001283.010.002	SAE Grade 2, 4, or 5
345	LOCKNUT, 0.50-13, FLEX LOCK, 50 FAF-813	1	063620.195.000	Stainless Steel 18-8
350	LOCKNUT, 1.12-7	1	001357.013.002	Mild Steel
351	BOLT, SOCKET HEAD, 0.31-18, 2.00 L, 1.75 L, THD	3	018202.195.000	Stainless Steel 18-8
372	PIN, SPIRAL, 0.25 DIA, 1.50 L, HEAVY DUTY	1	244863.999.000	Purchased Item
373	KEY, ROUND END, #2	1	017039.029.000	Steel, Carbon
374	LINER, HW CAP, SIZE 100, 4 STROKE	1	001885.676.000	Plastic, Tubing
376	GASKET, NONMETALLIC, 4.00 X 3.88, 0.06 THICK, ECN 7341	1	348936.925.000	Plastic, PTFE
378	GASKET, NONMETALLIC, 9.50 OD, 5.38 ID, 0.06 THICK, 6 HOLES, 0.75 DIA, 6.00 B.C	1	048671.813.000	Rubber, Neoprene
379	GASKET, FLAT METAL, 1.19 X 0.66, 0.06 THICK, AN660/1016	6	001624.506.000	Aluminum
380	HW STEM, CONT CONN, SIZE 100, 4 STROKE, AMEYA, ATB-11F, HD SPRING	1	352831.159.000	A-582-416
381	HW CAP, SIZE 100, 4 STROKE	1	002821.300.465	Iron, Ductile
382	VALVE, 3-WAY, 1/4" NPT-F, TYPE L, 700-4F4F-8, SPECIALTY 3420590	1	034747.402.000	Brass, B-16-H02
383	SPACER, SPRING BUTTON, 5.19 OD, 3.12 ID, 2.08 L	1	104736.029.176	Steel, Carbon
384	GASKET, NONMETALLIC, 3.00 X 2.50, 0.03 THICK	2	001886.925.000	Plastic, PTFE
385	PLATE, HW, INSTRUCTIONS	1	002114.999.000	Purchased Item
386	STICKER, INDICATOR, AUTO-MANUAL	1	007194.675.000	Plastic, Mylar
387	HW CAP, EXTN, CONT CONN, 4 STROKE, AMEYA, ATB-11F, ECN 7341	1	348617.029.465	Steel, Carbon
388	HW SCREW, SIZE 100/200, LIMITORQUE, B320-20, 4 STROKE, 2-12-4 ACME	1	074953.402.000	Brass, B-16-H02
389	PEDESTAL, SIZE 100/200, LIMITORQUE, B320, 4 STROKE	1	074954.300.465	Iron, Ductile
390	BUSHING, 1.88 OD, 1.62 ID, 1.00 L	1	023478.431.000	Bronze, B-438, Gr1
391	HW NUT, AMEYA, ATB-11F, 2-12-4, ACME, LH, AMEYA NO. A132 035 19(1) 00, ECN 6653	1	342694.999.000	Purchased Item
393	ACTUATOR, AMEYA, ATB-11F, RATIO 4:1, NO ADAPTER, NO HW, NO. C88 A132 01 10	1	345965.999.465	Purchased Item
394	GASKET, NONMETALLIC, 6.88 OD, 3.75 ID, 0.03 THICK, 4 HOLES, 0.69 DIA, 5.50 B.C	1	019146.813.000	Rubber, Neoprene
395	HANDWHEEL, 450 MM (17.72 IN), AMEYA ATB-11, NO. C88 027 003 00	1	348615.999.465	Purchased Item
400	STICKER, FLOWSERVE, SIZE 100, LINEAR, CYLINDER	2	216068.999.000	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, 0.38-16, 0.75 L	2	001819.195.000	Stainless Steel 18-8
404	LOCKNUT, M8 X 1, NYLON INSERT	1	185159.195.000	Stainless Steel 18-8
405	WASHER, FLAT, 0.69 OD, 0.34 ID, 0.07 THICK, 0.31 THD	2	044390.195.000	Stainless Steel 18-8
406	NUT, 6MM	1	034142.195.000	Stainless Steel 18-8
407	WASHER, FLAT, M6	1	106296.195.000	Stainless Steel 18-8
414	BOLT, HEX HEAD, 0.38-16, 1.25 L	2	002937.010.002	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
419	LOCKNUT, 0.31-18	4	003833.013.002	Mild Steel
420	STICKER, 150 PSI	1	076564.675.000	Plastic, Mylar
420	WASHER, FLAT, 0.78 OD, 0.31 ID, 0.06 THICK	4	032496.029.002	Steel, Carbon
426	STICKER, CAUTION, PINCH POINT, CONSULT MANUAL	2	187800.999.000	Purchased Item

* Parts listed but not shown

MODEL		MK I/CHNLSTRM		DRAWN BY BJK DATE 05-24-2016		<div> CERTIFIED DIMENSIONAL DRAWING</div>					
SIZE		3.00 INCH		CERTIFIED BY SG							
RATING	STD	900	S75.08.05	DATE 05-24-2016		CUSTOMER					
END PREP.		BW SCH 40		<div>THIRD ANGLE PROJECTION</div> <div></div>		VOGT POWER INTERNATIONAL					
TRIM TYPE		UNBALANCED				PURCHASE ORDER NO.		PROJECT OR JOB			
TRIM NO		CV 2.00B 41(4stg)				V0009762		V17494-MIDDLE TOWN			
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		HEAVY DUTY				TAG NO.		SCALE: NONE		C	
AIR ACTION		OPEN				11P-LCV3201 IP FEEDWATER DRUM LEVEL		VALTEK S/N		REV	
FAIL MODE		CLOSE						8004233.003		2	