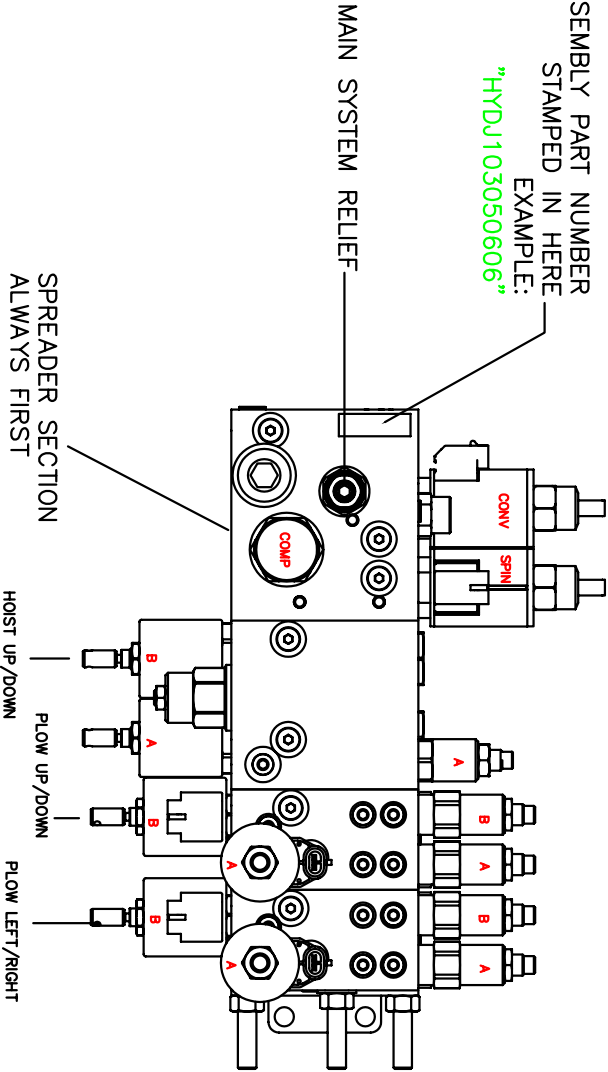


SECTION DETAILS ON FOLLOWING PAGES

ASSEMBLY PART NUMBER
STAMPED IN HERE
EXAMPLE:
"HYDJ103050606"



BLOCK OPTIONS:

00, 00C, 01, 02, 03, 04	SPREADER BLOCK / INLET
05, 07, 09	HOIST (OR HOOK) UP / DOWN
05, 09	HOOK JIB IN / OUT (IF PRESENT)
06, 08	FLOW UP/DOWN
06	FLOW LEFT / RIGHT
06, 08	WING TOE
06, 08	WING HEEL
06	WING BENCH (IF PRESENT)
06, 08	BLADE UP / DOWN
06	BLADE LEFT / RIGHT

BLOCK DETAILS CAN BE FOUND ON THE FOLLOWING PAGES
BY ADDING AN HYDJ IN FRONT OF THE ABOVE NUMBERS.
AN EXAMPLE IS HYDJ05

CYLINDER SECTIONS RUN FROM HIGH TO LOW FLOW

ASSEMBLY PART NUMBER BREAK OUT

HYDJ1 03 05 06 06

CIRUS MANIFOLD
SYSTEM DESIGNATOR

SPREADER OR
INLET BLOCK #

HIGH FLOW OR
HOIST BLOCK #

CYLINDER
BLOCK 1 #

CYLINDER
BLOCK 2 #

CIRUS

CONTROLS LLC

9210 WYOMING AVE., N., SUITE 200

BROOKLYN PARK, MN 55445

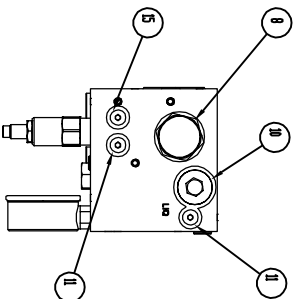
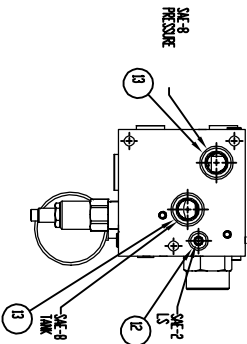
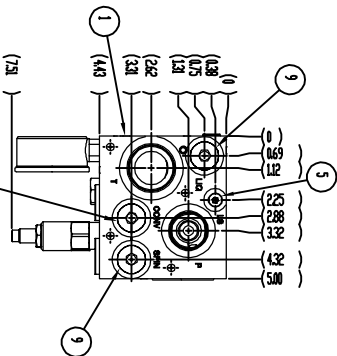
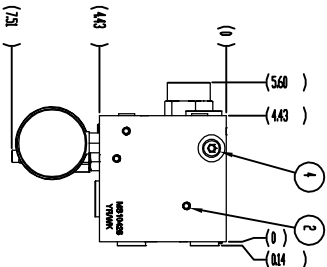
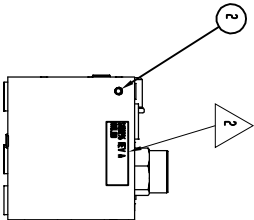
Phone: (763) 493-9380

Fax: (763) 493-9340

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REV.	DATE	DESCRIPTION	
A	-		
B	-		
C	-		
D	-		
E	-		
DESIGN:	JTM	DRAWN:	JTM
AS BUILT:	-		
PROJECT NUMBER:	OVERVIEW	SCALE:	DATE: 2-2-07
OVERVIEW		NONE	REV. SHT 1 OF 1

NOTES:
1. PART SIZE:
SAC-4
LUB. SWP. CDM/ SAC-10
SAC-5
SAC-20

2. APPLY SHIMMS KEY # AND MINOR LABEL IN AREA INDICATED



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION	Tolerance	Sealant
1	HYDRA-20-H	1	HYDRA-20-H MODIFIED VALVE BODY	5 FT/LBS	SNM-20-1
2	SAF-400-20	1	SAF-400-20 SAF-4	10 FT/LBS	NA
3	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
4	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
5	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
6	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
7	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
8	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
9	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
10	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
11	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
12	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
13	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
14	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
15	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
16	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
17	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
18	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
19	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
20	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
21	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
22	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
23	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
24	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
25	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
26	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
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30	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
31	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
32	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
33	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
34	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
35	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
36	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
37	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
38	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
39	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
40	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
41	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
42	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
43	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
44	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
45	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
46	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
47	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
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90	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
91	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
92	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
93	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
94	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
95	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
96	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
97	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
98	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
99	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA
100	SAF-400-20	2	SAF-400-20 SAF-4	NA	NA

HYD100

REVISIONS			
CDR	REV.	DESCRIPTION	DATE
10/07	A	RELEASE FOR PRODUCTION	06/29/2008

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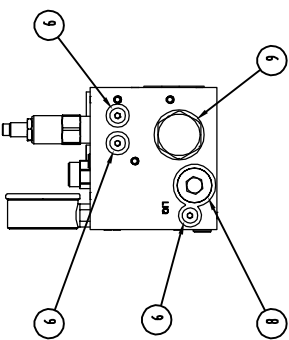
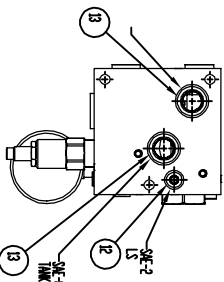
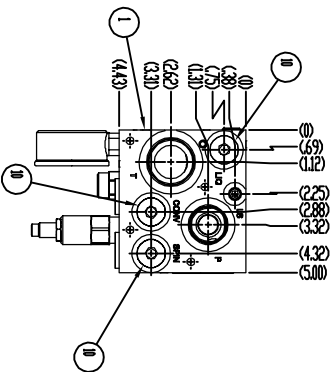
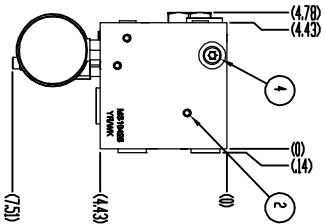
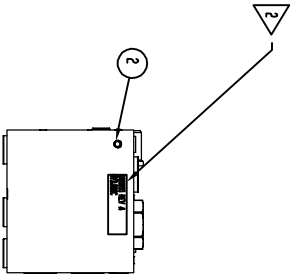
REV	DATE	DESCRIPTION
A	-	-
B	-	-
C	-	-
D	-	-
E	-	-
DESIGN:	JTM	DRAWN:
JTM	JTM	AS BUILT:
-	-	-
PROJECT NUMBER:	HYD100	SCALE:
HYD100	NONE	DATE: 12-1-08
		REV:
		SHFT 1 OF 1

CIRUS
CONTROLS LLC
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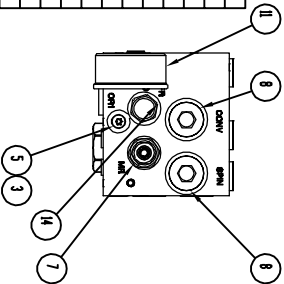
HYDRAULIC VALVE ASSEMBLY

REVISIONS				
ECN	REV.	DESCRIPTION	DATE	DRAWN BY
1463	A	RELEASE FOR PRODUCTION	06/29/2008	MMS

NOTES
1. PART SIZES
1/2" SPN. CONN. SEC-4
1/2" SPN. CONN. SEC-10
1/2" SPN. CONN. SEC-10
1/2" SPN. CONN. SEC-10
2. APPLY SAMSUNG REV H AND TITANUM LABEL IN APPROX LOCATION SHOWN.



ITEM NO.	PART NUMBER	DESCRIPTION	Tolerance	Spec#1
14	FR08-2F-4H-4L	1 REGULATOR, PRESSURE COMP	20 FT LBS	5008-2H-4
13	SC008	2 O-RING, 425, 3MM, 90	NA	NA
12	SC007	1 O-RING, 425, 3MM, 90	NA	NA
11	SEC-4T-3H-25	1 GATE, 200 PSI, SEC-4	10 FT LBS	NA
10	SEC-10	3 SEC PLUG, 50X1	75 FT LBS	-70
9	CPH-2H-4	3 GANTRY PLUG	5 FT LBS	5044-2H-1
8	SEC-12	3 SEC PLUG, 50X1	75 FT LBS	-92
7	R008-2H-4H-25/25	1 RELIEF VALVE	20 FT LBS	5008-2H-4
6	CPH-52H-4	1 GANTRY PLUG	30 FT LBS	5016-2H-4H
5	SC004	1 ZERO-LEAK SEC PLUG	20 FT LBS	NA
4	SC006	1 ZERO-LEAK SEC PLUG	25 FT LBS	NA
3	DR005-4H	1 DR005 WITH SCREEN	NA	NA
2	HA008-4H	12 EXPANDER PLUG, 7 MM	NA	NA
1	HC005	1 HANDED BLOK	NA	NA



HYDJ00C

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REV	DATE	DESCRIPTION
A	-	-
B	-	-
C	-	-
D	-	-
E	-	-
F	-	-
DESIGN: JTM	DRAWN: JTM	AS BUILT: -
PROJECT NUMBER: HYDJ00C		
SCALE: NONE		
DATE: 12-1-08		
REV: -		
SHEET 1 OF 1		

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HYDRAULIC VALVE ASSEMBLY

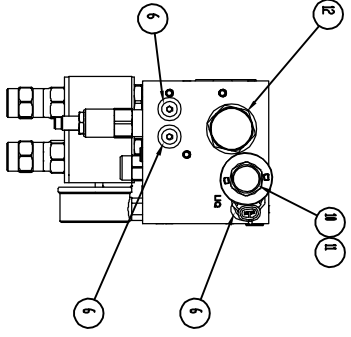
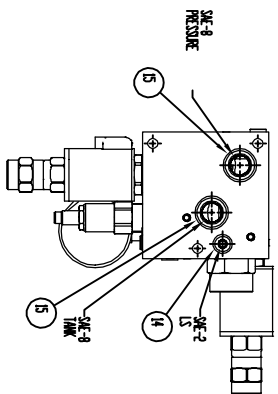
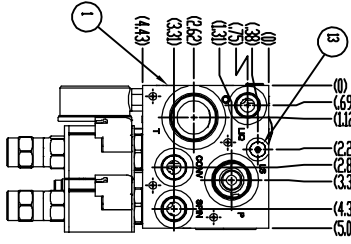
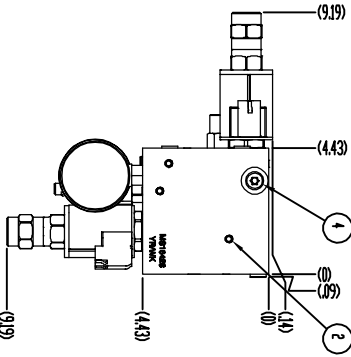
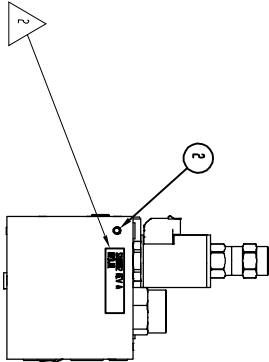
REVISIONS			
CDN	REV.	DESCRIPTION	DATE
1143	A	RELEASE FOR PRODUCTION	6/25/2008
			MAJ

NOTES

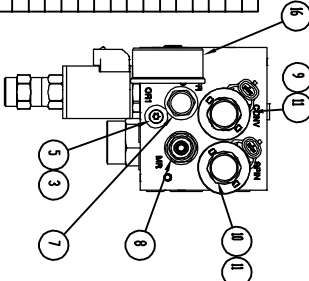
1. PART SIZES



APPLY SHORCE REV # AND FINISH LABEL IN APPROX LOCATION SHOWN



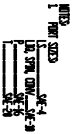
ITEM NO.	PART NUMBER	QTY.	DESCRIPTION	Torque	Sealkit
1	1000000-001	1	REGULATOR, 1000 PSI, SUE-4	10 FT LBS	NA
2	1000000-002	2	1000000-002, 1000 PSI, SUE-4	NA	NA
3	1000000-003	1	1000000-003, 1000 PSI, SUE-4	NA	NA
4	1000000-004	1	1000000-004, 1000 PSI, SUE-4	NA	NA
5	1000000-005	1	1000000-005, 1000 PSI, SUE-4	NA	NA
6	1000000-006	1	1000000-006, 1000 PSI, SUE-4	NA	NA
7	1000000-007	1	1000000-007, 1000 PSI, SUE-4	NA	NA
8	1000000-008	1	1000000-008, 1000 PSI, SUE-4	NA	NA
9	1000000-009	1	1000000-009, 1000 PSI, SUE-4	NA	NA
10	1000000-010	1	1000000-010, 1000 PSI, SUE-4	NA	NA
11	1000000-011	1	1000000-011, 1000 PSI, SUE-4	NA	NA
12	1000000-012	1	1000000-012, 1000 PSI, SUE-4	NA	NA
13	1000000-013	1	1000000-013, 1000 PSI, SUE-4	NA	NA
14	1000000-014	1	1000000-014, 1000 PSI, SUE-4	NA	NA
15	1000000-015	1	1000000-015, 1000 PSI, SUE-4	NA	NA
16	1000000-016	1	1000000-016, 1000 PSI, SUE-4	NA	NA
17	1000000-017	1	1000000-017, 1000 PSI, SUE-4	NA	NA
18	1000000-018	1	1000000-018, 1000 PSI, SUE-4	NA	NA
19	1000000-019	1	1000000-019, 1000 PSI, SUE-4	NA	NA
20	1000000-020	1	1000000-020, 1000 PSI, SUE-4	NA	NA
21	1000000-021	1	1000000-021, 1000 PSI, SUE-4	NA	NA
22	1000000-022	1	1000000-022, 1000 PSI, SUE-4	NA	NA
23	1000000-023	1	1000000-023, 1000 PSI, SUE-4	NA	NA
24	1000000-024	1	1000000-024, 1000 PSI, SUE-4	NA	NA
25	1000000-025	1	1000000-025, 1000 PSI, SUE-4	NA	NA
26	1000000-026	1	1000000-026, 1000 PSI, SUE-4	NA	NA
27	1000000-027	1	1000000-027, 1000 PSI, SUE-4	NA	NA
28	1000000-028	1	1000000-028, 1000 PSI, SUE-4	NA	NA
29	1000000-029	1	1000000-029, 1000 PSI, SUE-4	NA	NA
30	1000000-030	1	1000000-030, 1000 PSI, SUE-4	NA	NA
31	1000000-031	1	1000000-031, 1000 PSI, SUE-4	NA	NA
32	1000000-032	1	1000000-032, 1000 PSI, SUE-4	NA	NA
33	1000000-033	1	1000000-033, 1000 PSI, SUE-4	NA	NA
34	1000000-034	1	1000000-034, 1000 PSI, SUE-4	NA	NA
35	1000000-035	1	1000000-035, 1000 PSI, SUE-4	NA	NA
36	1000000-036	1	1000000-036, 1000 PSI, SUE-4	NA	NA
37	1000000-037	1	1000000-037, 1000 PSI, SUE-4	NA	NA
38	1000000-038	1	1000000-038, 1000 PSI, SUE-4	NA	NA
39	1000000-039	1	1000000-039, 1000 PSI, SUE-4	NA	NA
40	1000000-040	1	1000000-040, 1000 PSI, SUE-4	NA	NA
41	1000000-041	1	1000000-041, 1000 PSI, SUE-4	NA	NA
42	1000000-042	1	1000000-042, 1000 PSI, SUE-4	NA	NA
43	1000000-043	1	1000000-043, 1000 PSI, SUE-4	NA	NA
44	1000000-044	1	1000000-044, 1000 PSI, SUE-4	NA	NA
45	1000000-045	1	1000000-045, 1000 PSI, SUE-4	NA	NA
46	1000000-046	1	1000000-046, 1000 PSI, SUE-4	NA	NA
47	1000000-047	1	1000000-047, 1000 PSI, SUE-4	NA	NA
48	1000000-048	1	1000000-048, 1000 PSI, SUE-4	NA	NA
49	1000000-049	1	1000000-049, 1000 PSI, SUE-4	NA	NA
50	1000000-050	1	1000000-050, 1000 PSI, SUE-4	NA	NA
51	1000000-051	1	1000000-051, 1000 PSI, SUE-4	NA	NA
52	1000000-052	1	1000000-052, 1000 PSI, SUE-4	NA	NA
53	1000000-053	1	1000000-053, 1000 PSI, SUE-4	NA	NA
54	1000000-054	1	1000000-054, 1000 PSI, SUE-4	NA	NA
55	1000000-055	1	1000000-055, 1000 PSI, SUE-4	NA	NA
56	1000000-056	1	1000000-056, 1000 PSI, SUE-4	NA	NA
57	1000000-057	1	1000000-057, 1000 PSI, SUE-4	NA	NA
58	1000000-058	1	1000000-058, 1000 PSI, SUE-4	NA	NA
59	1000000-059	1	1000000-059, 1000 PSI, SUE-4	NA	NA
60	1000000-060	1	1000000-060, 1000 PSI, SUE-4	NA	NA
61	1000000-061	1	1000000-061, 1000 PSI, SUE-4	NA	NA
62	1000000-062	1	1000000-062, 1000 PSI, SUE-4	NA	NA
63	1000000-063	1	1000000-063, 1000 PSI, SUE-4	NA	NA
64	1000000-064	1	1000000-064, 1000 PSI, SUE-4	NA	NA
65	1000000-065	1	1000000-065, 1000 PSI, SUE-4	NA	NA
66	1000000-066	1	1000000-066, 1000 PSI, SUE-4	NA	NA
67	1000000-067	1	1000000-067, 1000 PSI, SUE-4	NA	NA
68	1000000-068	1	1000000-068, 1000 PSI, SUE-4	NA	NA
69	1000000-069	1	1000000-069, 1000 PSI, SUE-4	NA	NA
70	1000000-070	1	1000000-070, 1000 PSI, SUE-4	NA	NA
71	1000000-071	1	1000000-071, 1000 PSI, SUE-4	NA	NA
72	1000000-072	1	1000000-072, 1000 PSI, SUE-4	NA	NA
73	1000000-073	1	1000000-073, 1000 PSI, SUE-4	NA	NA
74	1000000-074	1	1000000-074, 1000 PSI, SUE-4	NA	NA
75	1000000-075	1	1000000-075, 1000 PSI, SUE-4	NA	NA
76	1000000-076	1	1000000-076, 1000 PSI, SUE-4	NA	NA
77	1000000-077	1	1000000-077, 1000 PSI, SUE-4	NA	NA
78	1000000-078	1	1000000-078, 1000 PSI, SUE-4	NA	NA
79	1000000-079	1	1000000-079, 1000 PSI, SUE-4	NA	NA
80	1000000-080	1	1000000-080, 1000 PSI, SUE-4	NA	NA
81	1000000-081	1	1000000-081, 1000 PSI, SUE-4	NA	NA
82	1000000-082	1	1000000-082, 1000 PSI, SUE-4	NA	NA
83	1000000-083	1	1000000-083, 1000 PSI, SUE-4	NA	NA
84	1000000-084	1	1000000-084, 1000 PSI, SUE-4	NA	NA
85	1000000-085	1	1000000-085, 1000 PSI, SUE-4	NA	NA
86	1000000-086	1	1000000-086, 1000 PSI, SUE-4	NA	NA
87	1000000-087	1	1000000-087, 1000 PSI, SUE-4	NA	NA
88	1000000-088	1	1000000-088, 1000 PSI, SUE-4	NA	NA
89	1000000-089	1	1000000-089, 1000 PSI, SUE-4	NA	NA
90	1000000-090	1	1000000-090, 1000 PSI, SUE-4	NA	NA
91	1000000-091	1	1000000-091, 1000 PSI, SUE-4	NA	NA
92	1000000-092	1	1000000-092, 1000 PSI, SUE-4	NA	NA
93	1000000-093	1	1000000-093, 1000 PSI, SUE-4	NA	NA
94	1000000-094	1	1000000-094, 1000 PSI, SUE-4	NA	NA
95	1000000-095	1	1000000-095, 1000 PSI, SUE-4	NA	NA
96	1000000-096	1	1000000-096, 1000 PSI, SUE-4	NA	NA
97	1000000-097	1	1000000-097, 1000 PSI, SUE-4	NA	NA
98	1000000-098	1	1000000-098, 1000 PSI, SUE-4	NA	NA
99	1000000-099	1	1000000-099, 1000 PSI, SUE-4	NA	NA
100	1000000-100	1	1000000-100, 1000 PSI, SUE-4	NA	NA



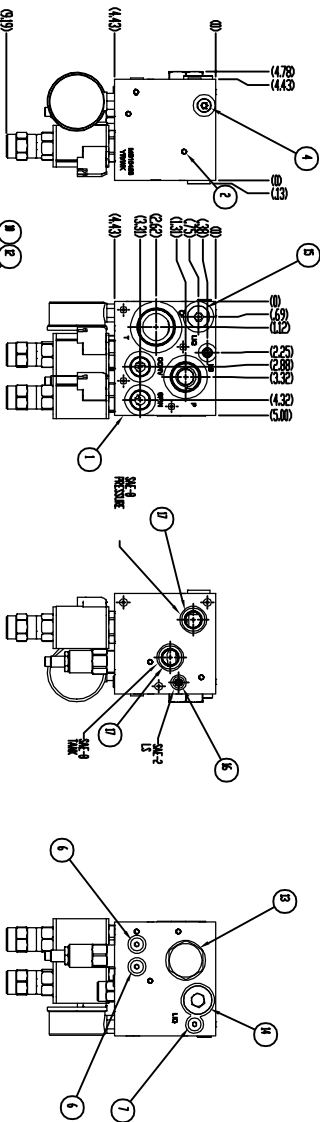
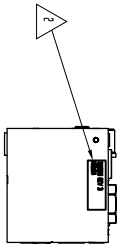
HYDJO1

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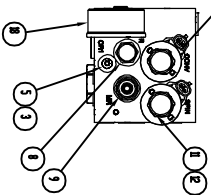
HYDRAULIC VALVE ASSEMBLY		
HYD001		
REV	DATE	DESCRIPTION
A	-	-
B	-	-
C	-	-
D	-	-
E	-	-
DESIGN: JTM		
DRAWN: JTM		
AS BUILT: -		PROJECT NUMBER: HYD001
SCALE: NONE		DATE: 12-1-08
SHT 1 of 1		REV: -



△ PART NUMBERS REV P AND HYDRAU LABEL IN APPROX LOCATIONS SHOWN



REV	DATE	DESCRIPTION
1	-	-
2	-	-
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ITEM	REV	DESCRIPTION	DATE	BY
1	A	REPLACE FOR PRODUCTION	10/1/2008	1000
2	B	REPLACE FOR PRODUCTION	10/1/2008	1000

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Fax: (763) 492-9340

HYDRAULIC VALVE ASSEMBLY

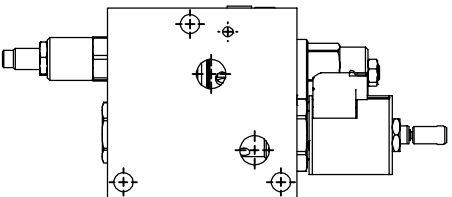
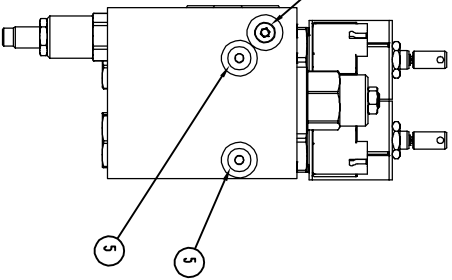
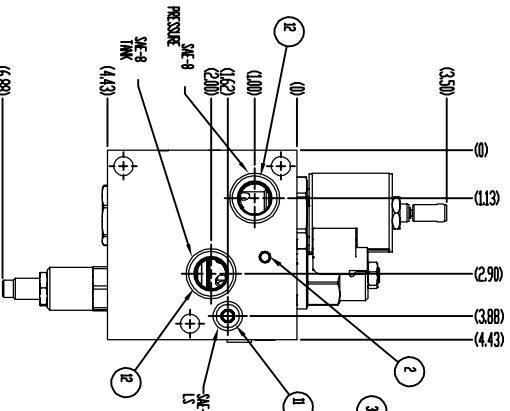
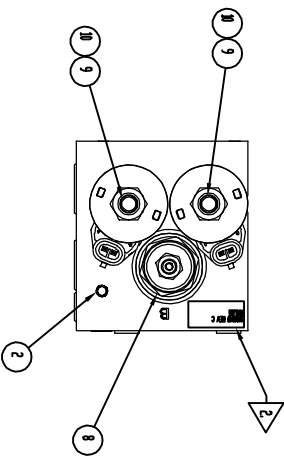
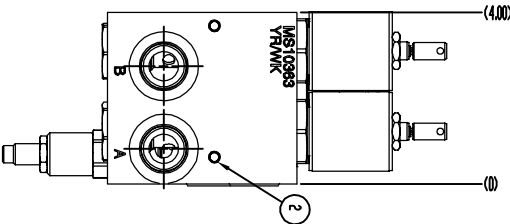
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REV	DATE	DESCRIPTION
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HYD004

HYDJ05

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UNIT	PRICE
12	SEAL	O-RING - 1/2" BORE, 1/8" THICK	1	EA	1.50
11	SEAL	O-RING - 1/2" BORE, 1/8" THICK	1	EA	1.50
10	SEAL	O-RING - 1/2" BORE, 1/8" THICK	1	EA	1.50
9	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00
8	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00
7	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00
6	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00
5	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00
4	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00
3	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00
2	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00
1	SPRING	SPRING - 1/2" BORE, 1/8" THICK	2	EA	2.00



NOTES
1. PART SIZE
2. APPLY SHOWN REV 'C' AND PART LABEL IN AREA INDICATED

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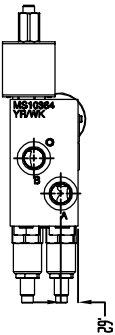
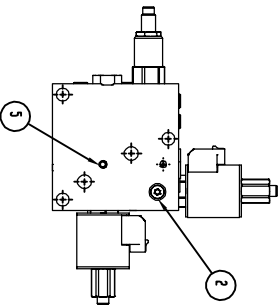
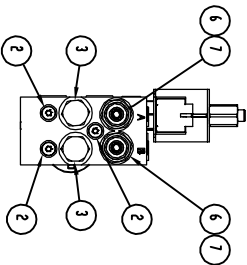
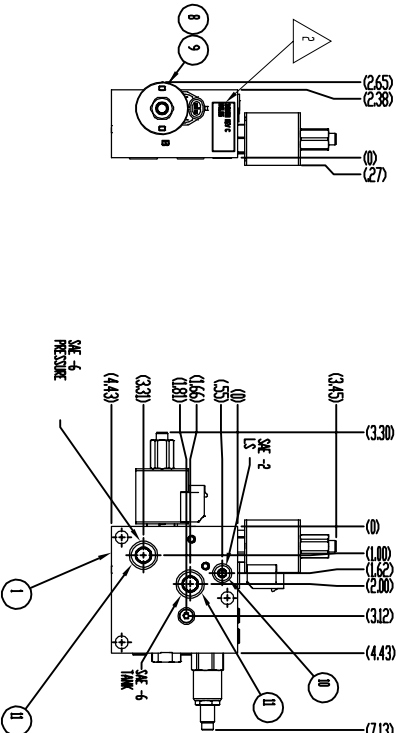
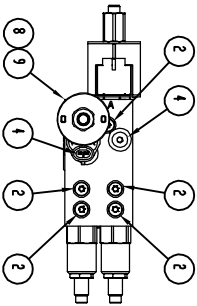
REV	DATE	DESCRIPTION
A	-	-
B	-	-
C	-	-
D	-	-
E	-	-
F	-	-

DESIGN: JTM	DRAWN: JTM	AS BUILT: -
PROJECT NUMBER: HYDJ05	SCALE: NONE	DATE: 12-1-08 REV: SH 1 OF 1

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HYDRAULIC VALVE ASSEMBLY

NOTES:
1. PART SIZES: A, B SAE-8
2. APPLY 'SA10050 REV C' AND 'HYDJ06' LABEL IN AREA INDICATED



11	SPIN99	2	11-100K, -40S, 100K, 90	W	W
10	SPIN92	1	11-100K, -40S, 100K, 90	W	W
9	40K302	2	12 VOLT, 1-100L, -10, 100K, 90	5 FT LBS	W
8	SPIN97-100K	2	PROPORTIONAL VALVE	25 FT LBS	SPIN97-100K
7	SPIN98	2	PISTON	W	W
6	SPIN97-100K	2	PISTON	20 FT LBS	SPIN97-100K
5	SPIN97-100K	5	SPINER PLUG	W	W
4	SPIN97-100K	2	SPINER PLUG	20 FT LBS	SPIN97-100K
3	SPIN97-100K	2	SPINER PLUG	20 FT LBS	SPIN97-100K
2	SPIN97-100K	1	SPINER PLUG	W	W
1	SPIN97-100K	1	SPINER PLUG	W	W

REVISIONS			
ITEM	REV.	DESCRIPTION	DATE
10053	A	RELEASE FOR PRODUCTION	06/09/09
10053	B	RELEASE FOR PRODUCTION	07/04/09
10053	C	RELEASE FOR PRODUCTION	06/25/09

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HYDRAULIC VALVE ASSEMBLY

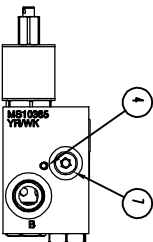
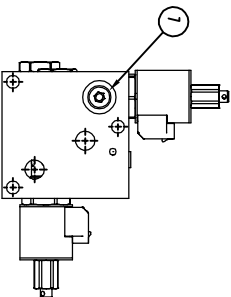
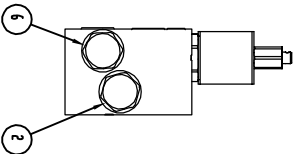
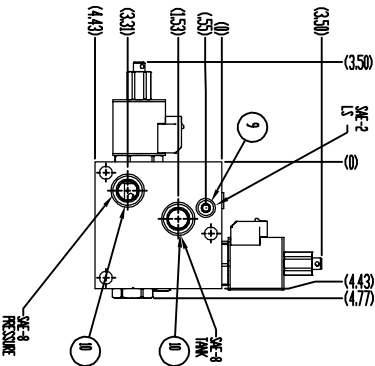
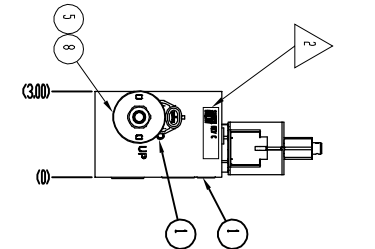
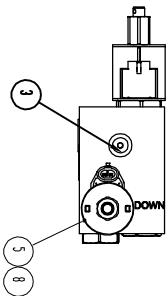
HYDJ06

REV	DATE	DESCRIPTION
A	-	-
B	-	-
C	-	-
D	-	-
E	-	-
DESIGN	JTM	DRAWN: JTM
AS BUILT:	-	-
PROJECT NUMBER:	HYDJ06	SCALE: NONE
DATE: 12-1-08	REV: -	SHIFT 1 OF 1

HYDJ06

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NOTES:
1. PORT SIZES
2.SAE-12
3. APPLY "SA10051 REV C" AND "HYDJO7" LABEL IN AREA INDICATED.



10	SC10138	2	11-PIN, -623, 30M, 30	NA	NA
9	SC1012	1	11-PIN, -623, 30M, 30	NA	NA
8	576-201-4-40	2	PROPORTIONAL VALVE	30 FT LBS	SC16-20-1
7	610088	2	220V-120V SAE PLUG	30 FT LBS	NA
6	CV12-21-4-16	1	MANIFOLD BLOCK	30 FT LBS	SC12-21-4
5	430302	2	12 VDC E-COL, -M, 4000PSI	5 FT LBS	NA
4	HM1026-010	2	SPRINGER PLUG	NA	NA
3	CV14-20-4-4	1	DECK VALVE	20 FT LBS	SC14-20-1
2	CV12-20-4-5	1	DECK VALVE	25 FT LBS	SC12-20-1
1	HM1026-010	1	MANIFOLD BLOCK	NA	NA

REVISIONS				
ECO#	REV.	DESCRIPTION	DATE	BY/APP'D
1064	A	RELEASE FOR PRODUCTION	09/29/2006	RFM
1064	B	UPDATED INGV VIEW LETTERING CHANGES	04/05/2007	RFM
11633	C	ADDED NOTES 2 AND 3, AND SAE-20M-4-40, 30 FT LBS IN COLUMNS	06/07/2008	NRL

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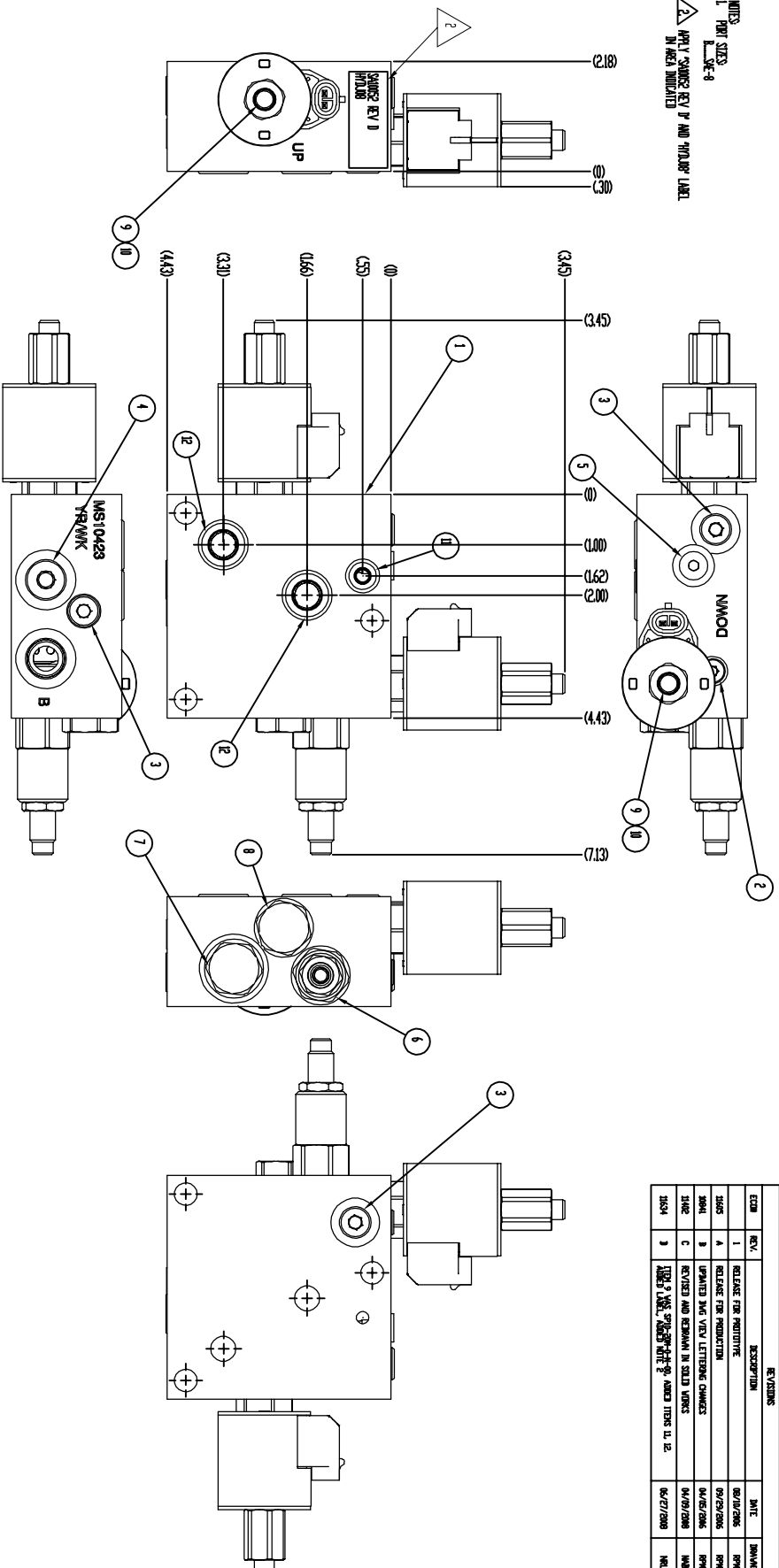
HYDRAULIC VALVE ASSEMBLY

REV			DATE			DESCRIPTION		
A			-			-		
B			-			-		
C			-			-		
D			-			-		
DESIGN:			JTM			AS BUILT:		
JTM			JTM			-		
PROJECT NUMBER:						HYDJO7		
SCALE:						DATE: 12-1-08		
NONE						REV:		
SHT 1 OF 1						-		

HYDJO7

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NOTES:
1. PORT SIZES:
R-3/4"-8
2. APPLY "SAFES REV D" AND "HOLD" LABEL
IN AREA INDICATED



EXHIBITS				
EXID	REV.	DESCRIPTION	DATE	REMARKS
1		RELEASE FOR ROUTING	06/10/2006	RPV
1045		RELEASE FOR PROSECUTION	06/11/2006	RPV
1046	A	UPDATED BAO AND LETTERS CHARGES	06/05/2006	RPV
1047	B	REVISED AND REBORN IN SOLID WORKS	06/09/2006	RPV
1048	B	REVISOR'S NAME: JAMES D. LE REVISOR'S TITLE: JAMES D. LE REVISOR'S PHONE: 301-251-1111	06/27/2006	REL.

ITEM NO.	PART NUMBER	PRO. d./O. TV.	DESCRIPTION	torque	Scale
12	32009	2	12-20K, -42K, 3MM, 39	MM	MM
11	32002	1	12-20K, -42K, 3MM, 39	MM	MM
10	43632	2	12-20K, -42K, 3MM, 39	5 FT LBS	MM
9	370-20-24-40	2	PROPERDIAL, WAVE	25 FT LBS	300-24-1
8	170-24-44-5	1	CHEK WAVE	25 FT LBS	300-24-3
7	170-24-44-5	1	CHEK WAVE	25 FT LBS	300-24-1
6	170-20-24-42-75	1	18 FT WAVE	20 FT LBS	300-24-1
5	170-24-44-1	1	CHEK WAVE	20 FT LBS	300-24-1
4	60808	1	120-12K, 5K, FLG	50 FT LBS	MM
3	60805	3	120-12K, 5K, FLG	20 FT LBS	MM
2	60804	1	120-12K, 5K, FLG	20 FT LBS	MM
1	100423	1	PARALLEL FLUX	MM	MM

REV	DATE	DESCRIPTION
A	-	-
B	-	-
C	-	-
D	-	-
E	-	-

DESIGN:	DRAWN:	AS BUILT:
JTM	JTM	-

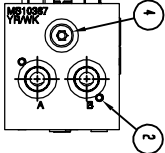
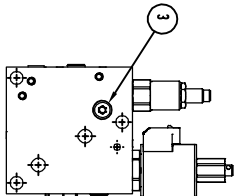
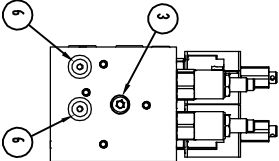
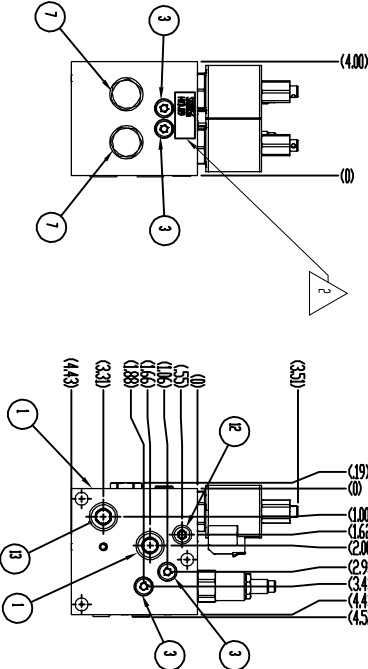
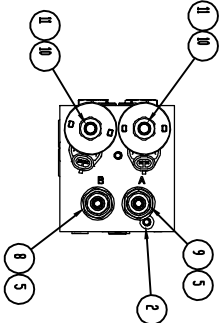
HYDRAULIC VALVE ASSEMBLY		
HYDJ08		
PROJECT NUMBER:	SCALE:	DATE: 12-1-08
HYDJ08	NONE	REV:
		SHT 1 OF 1
		-

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HYDJ08

NOTES:

1. PORT SIZES:
A, BSAE-10
△ APPLY 'SA10056' & 'HYDJ09' LABEL IN AREA INDICATED



ITEM NO.	PART NUMBER	QTY	DESCRIPTION	Torque	Sealkit
13	ST009	2	0-200G, 400, 800A, 90	NA	NA
12	ST002	1	0-200G, 400, 800A, 90	NA	NA
11	40002	2	12 VDC E-VAL, 30, 4000MAX	5 FT LBS	NA
10	SPF-20-4-H-40	2	PROPORTIONAL VALVE	5 FT LBS	500-20-1
9	000-20-4-H-13-5	1	RELIEF VALVE	25 FT LBS	500-20-1
8	000-20-4-H-20-20	1	RELIEF VALVE, 200 PSI	25 FT LBS	500-20-1
7	000-20-4-H-5	2	CHECK VALVE	25 FT LBS	500-20-1
6	000-20-4-H-4	2	CHECK VALVE	20 FT LBS	500-20-1
5	PT004	2	PISTON POSITION	NA	NA
4	60000	1	000-14-4K, 500, 700	50 FT LBS	NA
3	60000	6	000-14-4K, 500, 700	25 FT LBS	NA
2	00000-00	12	SPRINGER PLUG, 7 MM	NA	NA
1	00000-07	1	00000-07	NA	NA

REVISIONS			
ITEM	REV.	DESCRIPTION	DATE
1	1	RELEASE FOR PRODUCTION	06/08/14
2	2	RELEASE FOR PRODUCTION	06/09/18
3	3	RELEASE FOR PRODUCTION	07/04/12
4	4	RELEASE FOR PRODUCTION	07/04/12
5	5	RELEASE FOR PRODUCTION	07/04/12
6	6	RELEASE FOR PRODUCTION	07/04/12
7	7	RELEASE FOR PRODUCTION	07/04/12
8	8	RELEASE FOR PRODUCTION	07/04/12
9	9	RELEASE FOR PRODUCTION	07/04/12
10	10	RELEASE FOR PRODUCTION	07/04/12
11	11	RELEASE FOR PRODUCTION	07/04/12
12	12	RELEASE FOR PRODUCTION	07/04/12
13	13	RELEASE FOR PRODUCTION	07/04/12
14	14	RELEASE FOR PRODUCTION	07/04/12
15	15	RELEASE FOR PRODUCTION	07/04/12
16	16	RELEASE FOR PRODUCTION	07/04/12
17	17	RELEASE FOR PRODUCTION	07/04/12
18	18	RELEASE FOR PRODUCTION	07/04/12
19	19	RELEASE FOR PRODUCTION	07/04/12
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100	100	RELEASE FOR PRODUCTION	07/04/12

CIRUS
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BROOKLYN PARK, MN 55445

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REV. DATE DESCRIPTION

DESIGN: JTM DRAWN: JTM AS BUILT: -

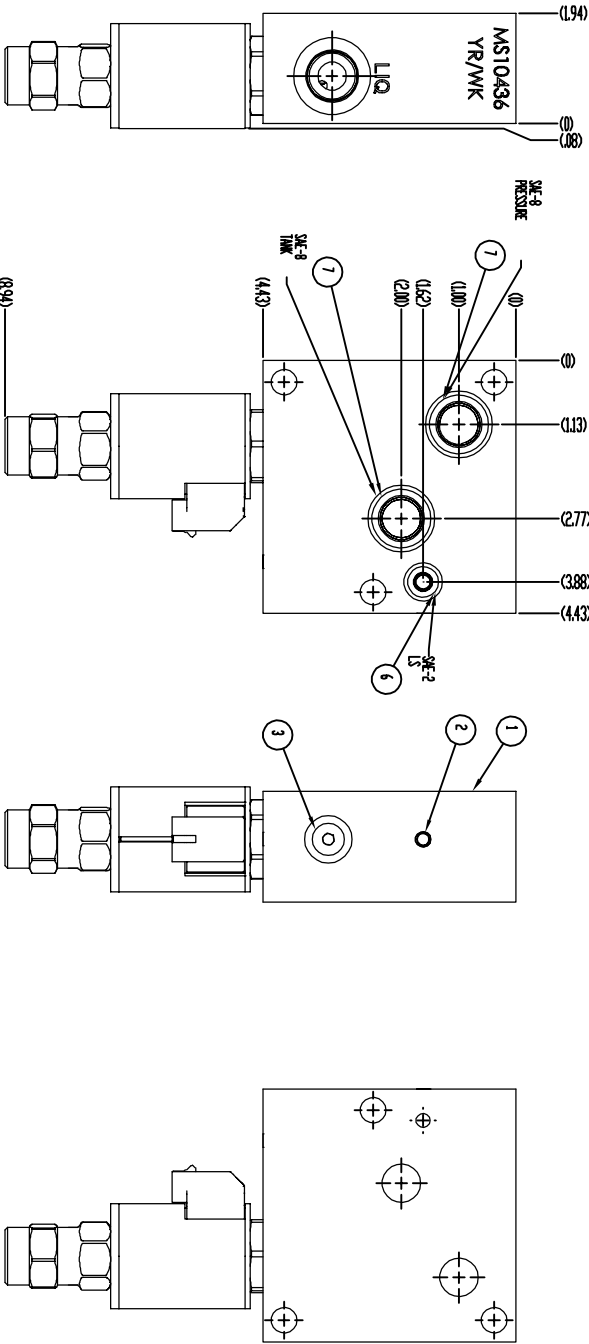
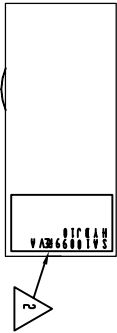
PROJECT NUMBER: HYDJ09 SCALE: NONE DATE: 12-1-08 REV. SHFT 1 OF 1

HYDJ09

HYDRAULIC VALVE ASSEMBLY

NOTES
1. PART SIZE
A.1.1 _____ SEC-10
2. APPLY SHOWN REV. # AND TOLERANCE IN AREA INDICATED

REVISIONS			
ITEM	REV.	DESCRIPTION	DATE
15956	A	RELEASE FOR PRODUCTION, REF. DATE 5/10/05	06/27/2008



ITEM NO.	PART NUMBER	DESCRIPTION	Qty	Unit
7	SC1038	1/2-20x.453 BUNA 90	NA	NA
6	SC1012	1/2-20x.453 BUNA 90	NA	NA
5	SC1012	1/2-20x.453 BUNA 90	NA	NA
4	SC1012	1/2-20x.453 BUNA 90	NA	NA
3	SC1012	1/2-20x.453 BUNA 90	NA	NA
2	SC1012	1/2-20x.453 BUNA 90	NA	NA
1	SC1012	1/2-20x.453 BUNA 90	NA	NA

HYDJO10

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REV	DATE	DESCRIPTION
A	-	-
B	-	-
C	-	-
D	-	-
E	-	-

DESIGN	DRAWN	AS BUILT
JTM	JTM	-

PROJECT NUMBER	SCALE	DATE	REV.
HYDJO10	NONE	12-1-08	-

CIRUS CONTROLS LLC

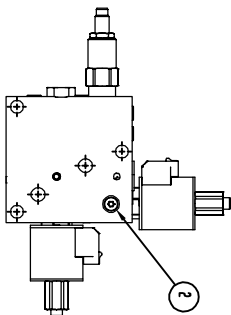
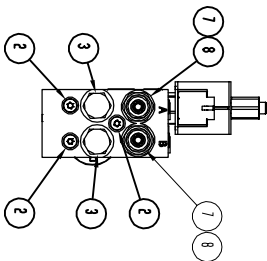
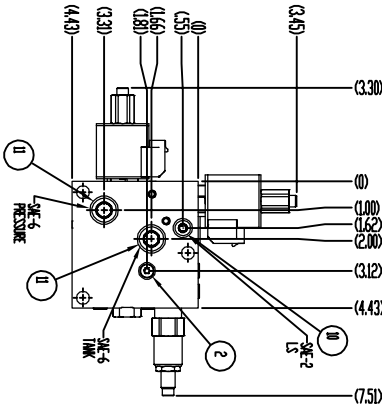
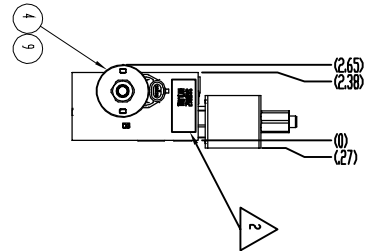
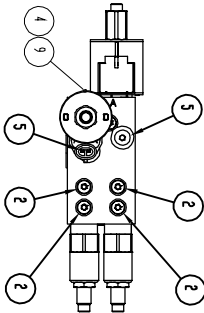
9210 WYOMING AVE. N. SUITE 200
BROOKLYN PARK, MN 55445

Phone: (763) 493-9380
Fax: (763) 493-9340

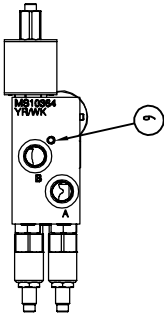
HYDRAULIC VALVE ASSEMBLY

NOTES:
1. PORT SIZES:
A, B

2. APPLY "SA10062" AND "HYDJ011" LABEL IN AREA INDICATED.



ITEM	PART NUMBER	REV	DESCRIPTION	QTY	UNIT
1	SA10062	1	SA10062 VALVE	1	EA
2	HYDJ011	1	HYDJ011 VALVE	1	EA
3	SA10062-01	1	SA10062-01 VALVE	1	EA
4	SA10062-02	1	SA10062-02 VALVE	1	EA
5	SA10062-03	1	SA10062-03 VALVE	1	EA
6	SA10062-04	1	SA10062-04 VALVE	1	EA
7	SA10062-05	1	SA10062-05 VALVE	1	EA
8	SA10062-06	1	SA10062-06 VALVE	1	EA
9	SA10062-07	1	SA10062-07 VALVE	1	EA
10	SA10062-08	1	SA10062-08 VALVE	1	EA
11	SA10062-09	1	SA10062-09 VALVE	1	EA
12	SA10062-10	1	SA10062-10 VALVE	1	EA
13	SA10062-11	1	SA10062-11 VALVE	1	EA
14	SA10062-12	1	SA10062-12 VALVE	1	EA
15	SA10062-13	1	SA10062-13 VALVE	1	EA
16	SA10062-14	1	SA10062-14 VALVE	1	EA
17	SA10062-15	1	SA10062-15 VALVE	1	EA
18	SA10062-16	1	SA10062-16 VALVE	1	EA
19	SA10062-17	1	SA10062-17 VALVE	1	EA
20	SA10062-18	1	SA10062-18 VALVE	1	EA
21	SA10062-19	1	SA10062-19 VALVE	1	EA
22	SA10062-20	1	SA10062-20 VALVE	1	EA
23	SA10062-21	1	SA10062-21 VALVE	1	EA
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29	SA10062-27	1	SA10062-27 VALVE	1	EA
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REVISIONS			
REV.	DESCRIPTION	DATE	DRAWN BY
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