

CUSTOMER: INTL. SOUTHERN CHEMICAL SUQUIP INC.

P.O. No.: 201300011

**TEST CERTIFICATE
(ACCORDING TO 3.1 EN10204)**

**ALCO PROCESS
VALVES LIMITED**

Mission Works
Brighouse. UK.

Item No.	Q'ty (PCS)	Description	Rate	Size	Material						Hydrostatic Test		Air Test	Result
					Body/Bonnet	Disc	Stem	Seat	Bolt	Nut	Shell	Seat	Seat	
1	10	Gate Valve,RF	300LB	6"	WCB	CA15+STL	F6A	13Cr+STL	A193 B7M	A194 2HM	7.5Mpa	5.5Mpa	0.6Mpa	OK
2	70	Check Valve,RF	300LB	3"	WCB	CA15+STL	\	13Cr+STL	A193 B7M	A194 2HM	7.5Mpa	5.5Mpa	\	OK
3	100	Gate Valve,RF	300LB	2"	WCB	CA15+STL	F6A	13Cr+STL	A193 B7M	A194 2HM	7.5Mpa	5.5Mpa	0.6Mpa	OK

Material

Item No.	Series No.	Name of Parts	Heat No.	Chemical Analysis(%)											Mechanical Properties				
				C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Nb	Tensile	Yield	Elong	R.A	Hardness
															Strength	Point	Ation		
															(MPA)	(MPA)	(%)	(%)	HB
1	11111861262-11111861271	Body	H830	0.214	0.362	0.465	0.021	0.026	0.285	0.313	0.089	0.144	\	\	506	265	34	44	165
			H505	0.210	0.441	0.773	0.022	0.024	0.061	0.057	0.062	0.055	0.013	\	516	287	27	38	163
		Bonnet	H830	0.214	0.362	0.465	0.021	0.026	0.285	0.313	0.089	0.144	\	\	506	265	34	44	165
			8060	0.074	0.789	0.453	0.025	0.027	12.357	0.567	0.232	\	\	\	688	488	29	34	184
			H060	0.072	0.836	0.491	0.021	0.019	11.782	0.516	0.226	\	\	\	685	500	31	41	186
2	11111860326-11111860395	Body	H110	0.213	0.366	0.462	0.024	0.024	0.288	0.311	0.087	0.142	\	\	505	268	33	40	161
			H612	0.218	0.430	0.759	0.022	0.024	0.060	0.056	0.058	0.058	0.013	\	517	284	28	41	164
		Bonnet	H110	0.213	0.366	0.462	0.024	0.024	0.288	0.311	0.087	0.142	\	\	505	268	33	40	161
			H612	0.218	0.430	0.759	0.022	0.024	0.060	0.056	0.058	0.058	0.013	\	517	284	28	41	164
			H111	0.193	0.371	0.618	0.030	0.040	0.085	0.051	0.080	0.065	0.015	\	505	285	27	35	145
		Disc	5500	0.076	0.788	0.455	0.024	0.026	12.356	0.566	0.235	\	\	\	689	484	24	35	188
			1199	0.081	0.835	0.502	0.028	0.026	12.017	0.613	0.251	\	\	\	690	496	27	46	185
			3	11111860712-11111860812	Body	H301	0.195	0.521	0.876	0.025	0.019	0.052	0.064	0.014	0.041	\	\	495	265
H123	0.211	0.434				0.707	0.025	0.024	0.059	0.068	0.061	0.063	0.011	\	511	282	28	41	165
H300	0.250	0.426				0.884	0.021	0.021	0.031	0.042	0.074	0.041	0.006	\	497	260	30	45	162
Bonnet	H300	0.250			0.426	0.884	0.021	0.021	0.031	0.042	0.074	0.041	0.006	\	497	260	30	45	162
	H301	0.195			0.521	0.876	0.025	0.019	0.052	0.064	0.014	0.041	\	\	495	265	31	42	164
	H830	0.214			0.362	0.465	0.021	0.026	0.285	0.313	0.089	0.144	\	\	506	265	34	44	165
Disc	H000	0.219	0.445	0.848	0.021	0.023	0.062	0.062	0.056	0.065	0.013	\	515	276	26	40	167		
	H831	0.216	0.364	0.462	0.023	0.024	0.286	0.314	0.086	0.142	\	\	502	263	35	46	167		
			H506	0.075	0.523	0.917	0.015	0.031	12.006	0.518	0.261	\	\	697	502	28	48	190	

Remarks: We hereby certify that the material described above has been tested and complies with the terms of the order contract.

GENERAL COMMENTS

THE ABOVE VALVES ARE ISSUED FOR USE OUTSIDE "EC" AND THEREFORE ARE ISSUED WITHOUT A "CE" MARK.
VALVES 1" AND BELOW ARE RELEASED TO SEP.
RELEASED TO BS EN 10204 3.1 INSPECTION PROCEDURES.
TO NACE MR-01-75

WORKS ORDER No. P01406(P01490)

CERTIFICATE No.: 1111186

REF. No. AVG 270212.1

SIGNED



10/01/2013

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Brighouse. UK.

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					Body/Bonnet	Disc	Stem	Seat	Bolt	Nut	Shell	Seat	Seat	
4	150	Gate Valve,SW	1500LB	1"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	37.5Mpa	27.5Mpa	0.6Mpa	OK
5	15	Globe Valve,SW*NPT	1500LB	1/2"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	37.5Mpa	27.5Mpa	0.6Mpa	OK
6	385	Gate Valve,NPT	800LB	1/2"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	20.0Mpa	14.6Mpa	0.6Mpa	OK
7	50	Gate Valve,SW*NPT	800LB	1/2"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	20.0Mpa	14.6Mpa	0.6Mpa	OK
8	50	Gate Valve,SW*NPT	800LB	3/4"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	20.0Mpa	14.6Mpa	0.6Mpa	OK

Material

Item No.	Series No.	Name of Parts	Heat No.	Chemical Analysis(%)											Mechanical Properties				
				C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Nb	Tensile Strength	Yield Point	Elong Ation	R.A	Hardness
				(MPA)	(MPA)	(%)	(%)	HB											
															(MPA)	(MPA)	(%)	(%)	HB
4	11111862031-11111862180	Body	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189
5	11111861272-11111861286	Body	G39	0.224	0.195	0.786	0.021	0.026	0.173	0.267	0.057	0.202	0.012	\	498	266	32	41	155
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189
6	11111861287-11111861671	Body	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189
7	11111861672-11111861721	Body	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189
8	11111861861-11111861910	Body	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189

Remarks: We hereby certify that the material described above has been tested and complies with the terms of the order contract.

GENERAL COMMENTS

THE ABOVE VALVES ARE ISSUED FOR USE OUTSIDE "EC" AND THEREFORE ARE ISSUED WITHOUT A "CE" MARK.
VALVES 1" AND BELOW ARE RELEASED TO SEP.
RELEASED TO BS EN 10204 3.1 INSPECTION PROCEDURES.
TO NACE MR-01-75

WORKS ORDER No. P01406(P01490)

CERTIFICATE No.: 1111186

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VALVES LIMITED**
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VALVES LIMITED

Mission Works
Brighouse. UK.

Item No.	Qty (PCS)	Description	Rate	Size	Material						Hydrostatic Test		Air Test	Result
					Body/Bonnet	Disc	Stem	Seat	Bolt	Nut	Shell	Seat	Seat	
9	139	Gate Valve,NPT	1500LB	1/2"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	37.5Mpa	27.5Mpa	0.6Mpa	OK
10	50	Gate Valve,SW	1500LB	3/4"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	37.5Mpa	27.5Mpa	0.6Mpa	OK
11	50	Gate Valve,SW*NPT	1500LB	3/4"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	37.5Mpa	27.5Mpa	0.6Mpa	OK
12	20	Gate Valve,NPT	800LB	1"	A105N	13Cr(F6)+STL	F6A	13Cr(F6)+STL	A193 B7M	A194 2HM	20.0Mpa	14.6Mpa	0.6Mpa	OK
13	150	Ball Valve,RTJ	600LB	2"	WCB	A105+ENP	F6A	13Cr+NYLON	A193 B7M	A194 2HM	22.5Mpa	16.5Mpa	0.6Mpa	OK

Material

Item No.	Series No.	Name of Parts	Heat No.	Chemical Analysis(%)											Mechanical Properties				
				C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Nb	Tensile Strength	Yield Point	Elong Ation	R.A	Hardness
				(MPA)	(MPA)	(%)	(%)	HB											
9	11111861722-11111861860	Body	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189
10	11111861911-11111861960	Body	G39	0.224	0.195	0.786	0.021	0.026	0.173	0.267	0.057	0.202	0.012	\	498	266	32	41	155
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189
11	11111861961-11111862010	Body	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189
12	11111862011-11111862030	Body	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Bonnet	C03	0.235	0.196	0.788	0.022	0.027	0.172	0.269	0.056	0.201	0.011	\	499	265	30	43	153
		Disc	1144	0.064	0.652	0.541	0.021	0.014	12.019	0.236	\	\	\	\	603	425	26	41	189
13	11111862100-11111862199 11111862181-11111862200 11111862301-11111862330	Body	F886	0.211	0.336	0.788	0.024	0.021	0.076	0.061	0.044	0.030	0.003	\	506	297	30	41	154
		Bonnet	F886	0.211	0.336	0.788	0.024	0.021	0.076	0.061	0.044	0.030	0.003	\	506	297	30	41	154
		Disc	7010	0.225	0.185	0.823	0.017	0.024	0.155	0.232	0.063	0.225	0.016	0.013	504	275	26	38	157

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GENERAL COMMENTS

THE ABOVE VALVES ARE ISSUED FOR USE OUTSIDE "EC" AND THEREFORE ARE ISSUED WITHOUT A "CE" MARK.
VALVES 1" AND BELOW ARE RELEASED TO SEP.
FIRESAFE DESIGN TO API 607
RELEASED TO BS EN 10204 3.1 INSPECTION PROCEDURES.
TO NACE MR-01-75

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Item No.	Qty (PCS)	Description	Rate	Size	Material						Hydrostatic Test		Air Test	Result
					Body/Bonnet	Disc	Stem	Seat	Bolt	Nut	Shell	Seat	Seat	
14	25	Ball Valve,RTJ	900LB	2"	WCB	A105+ENP	F6A	13Cr+NYLON	A193 B7M	A194 2HM	22.5Mpa	16.5Mpa	0.6Mpa	OK
15	26	Ball Valve,RTJ	900LB	4"	WCB	A105+ENP	F6A	13Cr+NYLON	A193 B7M	A194 2HM	22.5Mpa	16.5Mpa	0.6Mpa	OK

Material

Item No.	Series No.	Name of Parts	Heat No.	Chemical Analysis(%)											Mechanical Properties				
				C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Nb	Tensile Strength	Yield Point	Elong Ation	R.A	Hardness
				(MPA)	(MPA)	(%)	(%)	HB											
14	11111862331-11111862355	Body	8888	0.196	0.451	0.860	0.028	0.030	0.019	0.011	0.014	0.016	\	\	505	280	27	75	162
			F886	0.211	0.336	0.788	0.024	0.021	0.076	0.061	0.044	0.030	0.003	\	506	297	30	41	154
		Bonnet	F886	0.211	0.336	0.788	0.024	0.021	0.076	0.061	0.044	0.030	0.003	\	506	297	30	41	154
			8888	0.196	0.451	0.860	0.028	0.030	0.019	0.011	0.014	0.016	\	\	505	280	27	75	162
15	11111862356-11111862381	Disc	7010	0.225	0.185	0.823	0.017	0.024	0.155	0.232	0.063	0.225	0.016	0.013	504	275	26	38	157
			7378	0.217	0.363	0.465	0.023	0.024	0.287	0.135	0.084	0.146	\	\	506	269	32	46	165
			8888	0.196	0.451	0.860	0.028	0.030	0.019	0.011	0.014	0.016	\	\	505	280	27	75	162
			F886	0.211	0.336	0.788	0.024	0.021	0.076	0.061	0.044	0.030	0.003	\	506	297	30	41	154
15	11111862356-11111862381	Body	7378	0.217	0.363	0.465	0.023	0.024	0.287	0.135	0.084	0.146	\	\	506	269	32	46	165
			8888	0.196	0.451	0.860	0.028	0.030	0.019	0.011	0.014	0.016	\	\	505	280	27	75	162
		Bonnet	F886	0.211	0.336	0.788	0.024	0.021	0.076	0.061	0.044	0.030	0.003	\	506	297	30	41	154
			8888	0.196	0.451	0.860	0.028	0.030	0.019	0.011	0.014	0.016	\	\	505	280	27	75	162
15	11111862356-11111862381	Disc	F886	0.211	0.336	0.788	0.024	0.021	0.076	0.061	0.044	0.030	0.003	\	506	297	30	41	154
			7010	0.225	0.185	0.823	0.017	0.024	0.155	0.232	0.063	0.225	0.016	0.013	504	275	26	38	157

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