

**CERTIFICATE OF TEST REPORT (PHYSICALS AND CHEMICALS)
CERTIFICATE OF VALVE TEST REPORT**

Client		Client's Order No.		Client's Mark										
UNIMECH ENGINEERING (M) SDN BHD WISMA UNIMECH 4934, JALAN CHAIN FERRY 12100 BUTTERWORTH, PENANG, MALAYSIA		ZPO-2012-0001		UNIMECH PENANG MALAYSIA										
Q'ty:	Size:	Description:												
40PCS	4"	ARITA SS304 2PC BODY BALL VALVE F/E JIS 10K												
Heat No.	CHEMICALS% (SCS13A)											PHYSICALS		
	C	Si	Mn	P	S	Ni	Cr	Mo	Tensile σ _b (Mpa)	Yield σ _s (Mpa) (0.2%)	Elongation δ (%)	Hardness HB		
SCS13A	≤0.08	≤2.00	≤1.50	≤0.04	≤0.04	8~11	18~21	—	≥481	≥206	≥33	≤183		
SLG02 (4" BODY/BONNET)	0.06	0.471	0.54	0.015	0.002	8.06	18.14	—	530	260	33	150		
SLG04 (4" BODY/BONNET)	0.058	0.47	0.55	0.012	0.0025	8.05	18.16	—	525	260	35	152		
SLG06 (4" BODY/BONNET)	0.053	0.473	0.541	0.014	0.0024	8.04	18.11	—	530	255	34	156		
SLG07 (4" BODY/BONNET)	0.059	0.471	0.541	0.011	0.0025	8.15	18.13	—	525	255	33	153		
SLG08 (4" BODY/BONNET)	0.055	0.477	0.546	0.013	0.0023	8.1	18.1	—	530	265	33	155		
SLG09 (4" BODY/BONNET)	0.058	0.473	0.545	0.014	0.0029	8.12	18.14	—	520	250	34	151		
SLG10 (4" BODY/BONNET)	0.051	0.466	0.551	0.012	0.0026	8.05	18.16	—	525	260	35	152		
SLF020 (4" BODY/BONNET)	0.049	0.669	0.944	0.014	0.0021	8.35	18.35	—	530	250	34	156		
SLG01 (4" BODY)	0.052	0.475	0.544	0.018	0.0026	8.1	18.12	—	530	255	34	156		
SLG03 (4" BODY)	0.055	0.477	0.546	0.013	0.0023	8.1	18.1	—	520	250	34	151		
SLG05 (4" BODY)	0.054	0.468	0.547	0.016	0.003	8.07	18.13	—	520	255	33	153		
SLG11 (4" BONNET)	0.052	0.469	0.545	0.015	0.0029	8.08	18.13	—	530	255	33	153		
Pressure Test	Shell	TEST CONDITIONS TO API598 UNLESS OTHERWISE STATED												
Hydraulic(MPa)	3.1	Back seat	Seal											
Air(MPa)			0.6											
We hereby certify that the valves of the above order comply in all records with the material specification and the pressure tests have been carried out and witnessed under the test condition shown above.												Leakage Test	OK	
Date:2021/01/30												Inspection By		
INSPECTION DEPARTMENT:WUXI FUSHENG VALVE INDUSTRIAL CO., LTD (QA DEPARTMENT)														

**CERTIFICATE OF TEST REPORT (PHYSICALS AND CHEMICALS)
CERTIFICATE OF VALVE TEST REPORT**

Client UNIMECH ENGINEERING (M) SDN BHD WISMA UNIMECH 4934, JALAN CHAIN FERRY 12100 BUTTERWORTH, PENANG, MALAYSIA		Client's Order No. ZPO-2012-0001		Client's Mark UNIMECH PENANG MALAYSIA									
Qty: 5PCS 60PCS	Size: 1-1/2" 2"	Description: ARITA SS304 2PC BODY BALL VALVE F/E JIS 10K ARITA SS304 2PC BODY BALL VALVE F/E JIS 10K											
Heat No.	CHEMICALS% (SCS13A)										PHYSICALS		
	C	Si	Mn	P	S	Ni	Cr	Mo	Tensile σ_b (Mpa)	Yield σ_s (Mpa) (0.2%)	Elongation δ (%)	Hardness HB	
SCS13A	≤0.08	≤2.00	≤1.50	≤0.04	≤0.04	8-11	18-21	—	≥481	≥206	≥33	≤183	
LAV1 (1-1/2" BODY/BONNET)	0.059	0.671	0.751	0.017	0.0022	8.41	18.45	—	525	260	35	150	
SLF01 (2" BODY/BONNET)	0.053	0.472	0.552	0.015	0.0031	8.42	18.12	—	530	254	35	151	
SLF02 (2" BODY/BONNET)	0.062	0.668	0.921	0.017	0.0024	8.31	18.37	—	530	250	34	156	
SLF03 (2" BODY/BONNET)	0.052	0.671	0.948	0.02	0.0021	8.42	18.29	—	530	259	36	152	
SLF04 (2" BODY/BONNET)	0.045	0.669	0.931	0.017	0.002	8.39	18.34	—	525	250	34	150	
SLF05 (2" BODY/BONNET)	0.065	0.673	0.934	0.016	0.0023	8.46	18.42	—	521	254	35	151	
SLF06 (2" BODY/BONNET)	0.049	0.673	0.944	0.015	0.0021	8.35	18.35	—	520	260	35	155	
SLF07 (2" BODY/BONNET)	0.053	0.665	0.939	0.017	0.0025	8.42	18.39	—	525	255	36	150	
SLF08 (2" BODY/BONNET)	0.062	0.668	0.921	0.017	0.0024	8.31	18.37	—	530	250	34	156	
SLF09 (2" BODY/BONNET)	0.052	0.671	0.948	0.02	0.0021	8.42	18.29	—	530	259	36	152	
SLF10 (2" BODY/BONNET)	0.045	0.669	0.931	0.017	0.002	8.39	18.34	—	525	250	34	150	
SLF11 (2" BODY/BONNET)	0.055	0.673	0.934	0.016	0.0023	8.46	18.42	—	521	254	35	151	
SLF14 (2" BODY)	0.058	0.669	0.938	0.019	0.0022	8.37	18.31	—	525	245	34	156	
SLF15 (2" BODY)	0.061	0.668	0.935	0.023	0.0025	8.41	18.27	—	530	259	36	152	
Pressure Test	Shell	TEST CONDITIONS TO API598 UNLESS OTHERWISE STATED											
Hydraulic (MPa)	3.1	Back seat	Seal										
Air (MPa)			0.6										
		Inspection By											
		Leakage Test											
		OK											

We hereby certify that the valves of the above order comply in all records with the material specification and the pressure tests have been carried out and witnessed under the test condition shown above.

Date: 2021/01/30 INSPECTION DEPARTMENT: WUXI FUSHENG VALVE INDUSTRIAL CO., LTD (QA DEPARTMENT)

CERTIFICATE OF TEST REPORT (PHYSICALS AND CHEMICALS)
CERTIFICATE OF VALVE TEST REPORT

Client UNIMECH ENGINEERING (M) SDN BHD WISMA UNIMECH 4934, JALAN CHAIN FERRY 12100 BUTTERWORTH, PENANG, MALAYSIA	Client's Order No. ZPO-2012-0001	Client's Mark UNIMECH PENANG MALAYSIA													
Q'ty: 40PCS	Size: 3"	Description: ARITA SS304 2PC BODY BALL VALVE F/E JIS 10K													
Heat No.		CHEMICALS% (SCS13A)											PHYSICALS		
C	Si	Mn	P	S	Ni	Cr	Mo	Tensile σ _b (Mpa)	Yield σ _s (MPa) (0.2%)	Elongation δ (%)	Hardness HB				
SCS13A	≤0.08	≤2.00	≤0.04	≤0.04	8-11	18-21	---	≥481	≥206	≥33	≤183				
SLG016 (3" BODY/BONNET)	0.051	0.474	0.553	0.012	0.0027	8.12	18.15	525	260	35	152				
SLG017 (3" BODY/BONNET)	0.054	0.468	0.548	0.018	0.0029	8.11	18.13	520	255	33	153				
SLG018 (3" BODY/BONNET)	0.052	0.471	0.546	0.015	0.0028	8.09	18.12	530	255	34	156				
SLG019 (3" BODY/BONNET)	0.061	0.468	0.554	0.018	0.0026	8.09	18.13	530	255	34	155				
SLG04 (3" BODY/BONNET)	0.058	0.47	0.55	0.012	0.0025	8.05	18.16	525	260	35	152				
SLG08 (3" BODY/BONNET)	0.055	0.477	0.546	0.013	0.0023	8.1	18.1	530	265	33	155				
SLG09 (3" BODY/BONNET)	0.058	0.473	0.545	0.014	0.0029	8.12	18.14	520	250	34	151				
SLG11 (3" BODY/BONNET)	0.052	0.469	0.545	0.015	0.0029	8.08	18.13	530	255	33	153				
SLG14 (3" BODY/BONNET)	0.058	0.472	0.551	0.015	0.002	8.08	18.14	530	260	33	150				
SLG15 (3" BODY/BONNET)	0.056	0.475	0.545	0.016	0.0021	8.1	18.1	520	250	34	151				
SLG01 (3" BODY)	0.052	0.475	0.544	0.018	0.0026	8.1	18.12	530	255	34	156				
SLG02 (3" BODY)	0.06	0.471	0.54	0.015	0.002	8.06	18.14	530	260	33	150				
SLG05 (3" BODY)	0.054	0.468	0.547	0.016	0.003	8.07	18.13	520	255	33	153				
SLG03 (3" BONNET)	0.055	0.477	0.546	0.013	0.0023	8.1	18.1	520	250	34	151				
TEST CONDITIONS TO API598 UNLESS OTHERWISE STATED															
Pressure Test	Shell			Back seat				Seal		Leakage Test					
Hydraulic (MPa)	3.1							0.6		OK					
Air (MPa)										Inspection By					
We hereby certify that the valves of the above order comply in all records with the material specification and the pressure tests have been carried out and witnessed under the test condition shown above.															
Date: 2021/01/30	INSPECTION DEPARTMENT: WUKI FUSHENG VALVE INDUSTRIAL CO., LTD (QA DEPARTMENT)														