

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: 130PCS			Description: ARITA SSS04 2PC BODY BALL VALVE F/E PNI6													
Size: 3"																
Heat No.	CHEMICALS% (CF8)									PHYSICALS						
	C	Si	Mn	P	S	Ni	Cr	Mo	Tensile σ_b (Mpa)	Yield σ_s (Mpa) (0.2%)	Elongation δ (%)	Hardness HB				
CF8	0.008	0.041	0.06	0.059	0.062	0.057	0.055	0.053	0.055	0.049	0.052	0.052	>485	>205	>35	
	0.041	0.518	0.71	0.017	0.0034	8.14	18.32	0.11	515	250	260	35				
SKM20 (3" BONNET)	0.06	0.481	0.72	0.01	0.0051	8.14	18.17	0.13	515	250	260	35				
SKM26 (3" BONNET)	0.059	0.477	0.77	0.017	0.004	8.141	18.18	0.11	520	260	260	35				
SLA24 (3" BONNET)	0.062	0.546	0.72	0.016	0.0056	8.39	18.29	0.11	525	260	260	35				
SLA25 (3" BONNET)	0.057	0.552	0.63	0.012	0.0051	8.31	18.31	0.09	520	258	260	36				
SLA26 (3" BONNET)	0.055	0.546	0.71	0.009	0.0046	8.36	18.38	0.16	525	260	260	37				
SJJ18 (3" BONNET)	0.053	0.568	0.68	0.013	0.0046	8.53	18.56	0.16	520	255	255	35				
SLM18 (3" BONNET)	0.055	0.562	0.64	0.013	0.0045	8.53	18.56	0.14	520	255	255	35				
SLM20 (3" BONNET)	0.049	0.563	0.68	0.021	0.0037	8.48	18.51	0.19	520	255	260	37				
SLM21 (3" BONNET)	0.052	0.559	0.62	0.019	0.0043	8.52	18.68	0.15	515	260	260	38				
SLM23 (3" BONNET)	0.063	0.462	0.763	0.024	0.0049	8.12	18.31	0.14	515	250	250	36				
SLM24 (3" BONNET)	0.067	0.469	0.761	0.025	0.0051	8.16	18.36	0.16	520	250	250	37				
SLM25 (3" BONNET)	0.061	0.466	0.758	0.033	0.0059	8.17	18.33	0.19	520	260	260	35				
SLM26 (3" BONNET)	0.068	0.468	0.755	0.029	0.0044	8.22	18.39	0.14	525	250	250	35				
SLM27 (3" BONNET)	0.057	0.459	0.753	0.022	0.0055	8.14	18.42	0.17	515	255	250	36				
SLM28 (3" BONNET)	0.034	0.578	0.78	0.009	0.0039	8.22	18.38	0.12	520	250	250	35				
SLM30 (3" BONNET)	0.045	0.559	0.65	0.012	0.0035	8.31	18.47	0.13	520	255	255	35				
SKJ18 (3" BONNET)	0.049	0.551	0.61	0.013	0.0031	8.31	18.42	0.16	525	260	260	36				
SKJ19 (3" BONNET)	0.053	0.553	0.65	0.011	0.0036	8.35	18.49	0.19	515	255	255	36				
SLC28 (3" BONNET)	0.045	0.667	0.72	0.017	0.0036	8.14	18.35	0.11	523	258	258	35				
TEST CONDITIONS TO API598 UNLESS OTHERWISE STATED																
Pressure Test Hydraulic (MPa)	Shell 2.4			Back seat Seal			Seal 0.6			Leakage Test OK			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)													

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Client UNIMECH ENGINEERING (M) SDN BHD WISMA UNIMECH 4934, JALAN CHAIN FERRY 12100 BUTTERWORTH, PENANG, MALAYSIA			Client's Order No. ZPO-2012-0002			Client's Mark UNIMECH PENANG MALAYSIA		
Q' ty: 8PCS 6PCS			Description: ARITA C.S 2PC BODY BALL VALVE FLANGE END TO ANSI 600#-TRUNION BALL ARITA C.S 2PC BODY BALL VALVE FLANGE END TO ANSI 600#-TRUNION BALL					
Size: 2" 4"								

Heat No.

		CHEMICALS%												PHYSICALS	
		C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	Tensile σ_b (MPa)	Yield σ_s (Mpa) (0.2%)		
WCB		£0.30	£0.60	£1.00	£0.04	£0.045	£0.50	£0.50	£0.25	£0.03	£0.3	485-655	≥250		
8688 (2" BODY/BONNET)		0.198	0.32	0.76	0.014	0.009	0.044	0.09	0.01	0.015	0.069	547	266		
H889 (4" BODY/BONNET)		0.201	0.35	0.82	0.017	0.009	0.036	0.08	0.02	0.012	0.035	531	269		
TEST CONDITIONS TO API598 UNLESS OTHERWISE STATED															
Pressure Test	Shell				Back seat				Seal				Leakage Tes		
Hydraulic (MPa)	16.5								12.1				OK		
Air (MPa)									0.6			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 the test condition shown above.

Date 2021/01/25

INSPECTION DEPARTMENT: WUXI FUSHENG VALVE INDUSTRIAL CO., LTD (QA DEPARTMENT)