



MATERIAL TEST CERTIFICATE (EN: 10204/3.1)

CUSTOMER : AL ZERWA TRADING	SIZE : 1/2"	VALVE TYPE : BALL VALVE	
CERTIFICATE NO : 11619RTUY 039	PRESSURE : 300#	PROJECT : 11619RTUY	
DATE OF CERTIFICATION : 23rd Nov 2019	ENDS : Flanged	VALVE ID : AMS 1910 039	
	QUANTITY : 50pcs		

HYDRO TEST DATA		SHELL TEST*		H.P CLOSURE*,**		L.P(AIR) TEST**		BACK SEAT*		TEST STD		VISUAL INSPECTION				SPECIAL TESTS							
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55				Anti-static : passed							
DURATION(Min)		15S		15S		15S		/				ACCEPTED				Cavity Relief : passed							
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD		FIRE SAFE DESIGN		SOUR SPEC				Painting : passed									
STANDARDS		ASME B16.10		ASME B16.5		ASME B16.34		/		NACE MR-01-75				/		/							
RESULT		Within Tolerance		Within Tolerance		Within Tolerance		/		Complied				/		/							
PARTS		BODY ADAPTOR		BALL/PLUG/DISC		STEM/HINGE		OPERATOR		SEAT RING		SOFT SEAT		SPRING		GASKET		PACKING					
MATERIAL GRADE		CF8M		CF8M		316		SS201		PTFE		PTFE		/		PTFE		PTFE					
COATING																							
DESCRIPTION		CHEMICAL ANALYSIS														MECHANICAL ANALYSIS				IMPACT TEST			
PART	HEAT/BATCH	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb	Al	Oth	Oth	T.S.	Y.P	EL	RA	BH	J		
		≤ 0.08	≤ 1.50	≤ 0.04	≤ 0.04	≤ 1.50	18.0 21.0	2.00 3.00	9.0 12.0								≥485 Mpa	≥ 205h	≥ 30%			(-Deg C)	
BODY	29I5/29H1	0.039	1.14	0.036	0.006	0.917	18.46	2.11	9.61	0.356	/					510	217	34					
BALL		0.047	0.81	0.019	0.007	0.76	18.25	2.23	9.54														
STEM		≤ 0.08	≤ 2.00	≤ 0.045	≤ 0.030	≤ 1.00	16.0 18.0	2.00 3.00	10.0 14.0							≥515 Mpa							
		0.049	0.92	0.027	0.013	0.65	16.54	2.16	10.31							526							

Notes: "Hydrostatic medium is water.,** Seat test is conducted on both sides for bi-directional valves.

We here by confirm that the valves referred in this certificate is confirmed to meet the referred data and approved for release to customer.

Check Witnessed

Jack

Quality Manager

