



MATERIAL TEST CERTIFICATE (EN: 10204/3.1)

CUSTOMER : AL ZERWA TRADING

SIZE : 1-1/2"

VALVE TYPE : BALL VALVE

CERTIFICATE NO : 22018MTSE 096

PRESSURE : 300#

PROJECT : 22018MTSE

DATE OF CERTIFICATION : 10th Oct 2018

ENDS : Flanged

VALVE ID : AMS1809 096

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	4004	0.052	0.76	0.024	0.008	0.75	18.31	2.19	9.43							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

