

**AMS VALVES**

5001 Spring Valley Road, Suite 400 East, Dallas, TX 75244, United States.

PHONE : (903) 912-7717
FAX : (972) 8507757
WEB : amsvaives.com**MATERIAL TEST CERTIFICATE (EN: 10204 3.1)****CUSTOMER :** AL ZERWA TRADING CO LLC.
CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3065

HYDRO TEST DATA		SHELL TEST (Water)			H.P Pressure Seat (Water)			L.P Press Test (AIR)		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)		15sec			15sec			15sec		/					ACCEPTED			Cavity Relief : Passed						
DESIGN PARAMETERS		FACE TO FACE			END CONNECTION			DESIGN STANDARD				FIRE SAFE DESIGN			SOUR SPEC			Painting : /						
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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 Quality Manager

Other Stamp & Sign



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CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3066

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		BACK SEAT*		TEST STD		VISUAL INSPECTION				SPECIAL TESTS								
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55				Anti-static : Passed Cavity Relief : Passed Painting : / / / / /								
DURATION(Min)		15sec		15sec		15sec		/				ACCEPTED												
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN				SOUR SPEC										
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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.

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CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3067

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		BACK SEAT*		TEST STD		VISUAL INSPECTION				SPECIAL TESTS								
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55				Anti-static : Passed Cavity Relief : Passed Painting : /								
DURATION(Min)		15sec		15sec		15sec		/				ACCEPTED												
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN		SOUR SPEC												
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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.

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CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3068

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		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)		15sec		15sec		15sec		/					ACCEPTED			Cavity Relief : Passed								
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN			SOUR SPEC			Painting : /								
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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.

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CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3069

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		BACK SEAT*		TEST STD		VISUAL INSPECTION				SPECIAL TESTS								
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55				Anti-static : Passed Cavity Relief : Passed Painting : / / / / /								
DURATION(Min)		15sec		15sec		15sec		/				ACCEPTED												
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN		SOUR SPEC												
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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.

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CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3070

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		BACK SEAT*		TEST STD		VISUAL INSPECTION				SPECIAL TESTS								
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55				Anti-static : Passed Cavity Relief : Passed Painting : / / / / /								
DURATION(Min)		15sec		15sec		15sec		/				ACCEPTED												
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN		SOUR SPEC												
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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.

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CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3071

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		BACK SEAT*		TEST STD		VISUAL INSPECTION				SPECIAL TESTS								
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55				Anti-static : Passed Cavity Relief : Passed Painting : / / / / /								
DURATION(Min)		15sec		15sec		15sec		/				ACCEPTED												
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN		SOUR SPEC												
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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.

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PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3072

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		BACK SEAT*		TEST STD		VISUAL INSPECTION				SPECIAL TESTS								
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55				Anti-static : Passed Cavity Relief : Passed Painting : / / / / /								
DURATION(Min)		15sec		15sec		15sec		/				ACCEPTED												
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN		SOUR SPEC												
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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 Quality Manager

Other Stamp & Sign



Company Stamp



**AMS VALVES**

5001 Spring Valley Road, Suite 400 East, Dallas, TX 75244, United States.

PHONE : (903) 912-7717
FAX : (972) 8507757
WEB : amsvaives.com**MATERIAL TEST CERTIFICATE (EN: 10204 3.1)****CUSTOMER :** AL ZERWA TRADING CO LLC.
CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3073

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		BACK SEAT*		TEST STD		VISUAL INSPECTION				SPECIAL TESTS								
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55				Anti-static : Passed Cavity Relief : Passed Painting : /								
DURATION(Min)		15sec		15sec		15sec		/				ACCEPTED												
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN		SOUR SPEC												
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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.

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**AMS VALVES**

5001 Spring Valley Road, Suite 400 East, Dallas, TX 75244, United States.

PHONE : (903) 912-7717
FAX : (972) 8507757
WEB : amsv valves.com**MATERIAL TEST CERTIFICATE (EN: 10204 3.1)****CUSTOMER :** AL ZERWA TRADING CO LLC.
CERTIFICATE NO : 09323TRSA
DATE OF CERTIFICATE : 2nd Jan 2024**SIZE :** 2" (50MM)
PRESSURE : 300#
ENDS : FLANGED
QUANTITY : 19NOS**VALVE TYPE :** BALL VALVE
PROJECT : 09323TRSA
VALVE ID : AMS 2312 3074

HYDRO TEST DATA		SHELL TEST (Water)		H.P Pressure Seat (Water)		L.P Press Test (AIR)		BACK SEAT*		TEST STD		VISUAL INSPECTION		SPECIAL TESTS										
PRESSURE(Mpa)		6.0		4.4		0.6		/		API 598		MSS SP25/55		Anti-static : Passed Cavity Relief : Passed Painting : /										
DURATION(Min)		15sec		15sec		15sec		/				ACCEPTED												
DESIGN PARAMETERS		FACE TO FACE		END CONNECTION		DESIGN STANDARD				FIRE SAFE DESIGN		SOUR SPEC		/ / / /										
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 NO	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	AMS20231124	0.074	1.3	0.037	0.029	1.27	18.15	2.18	9.15	-	-	-	-	-	-	490	215	30	-	185	-	-	-	-
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.

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