



MATERIAL TEST CERTIFICATE

Type 3-1 EN10204

METALLUM BELGIUM BVBA
 BROYDENBORGLAAN 93 2660 ANTWERP BELGIUM
 TEL. +32 3 825 85 22 FAX: + 32 3 825 85 23

Cert No.: MET24039-01

P.O. No.:
 PO 24519 Delta 200

QUANTITY
 2

DATE: Jan 7th, 2025

Serial No.
 MET2403901
 MET2403902

DESCRIPTION	Tag No.
API 602 Globe Valve, RF, Handwheel Operated	GLO-RU0001A02 GLO-RU0001B02

HYDROTEST RESULTS								PRESSURE: MPA TESTED TO: API 598			
SHELL		SEAT	A	SEAT	B	BACKSEAT					
Water	Air	Water	Air	Water	Air	Water	Air				
7.5Mpa		5.7Mpa			0.6Mpa	5.7Mpa					

VALVE
 1" 300LB, MATERIAL: A350 LF2 / A182 F316+STL.6

HOLDING TIME: SECOND							
OK	15	OK	15	OK	15	OK	15

PART	CHEMICALS											PHYSICALS				
BODY	MATERIAL:ASTM A350 LF2											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.30	0.60~1.35	≤0.035	≤0.040	0.15~0.30	≤0.40	≤0.30	≤0.12	≤0.08	≤0.40	485~655	Min.250	Min.30	Min.30	Max.197
B20	0.213	0.69	0.016	0.019	0.18	0.17	0.18	0.015	0.016	0.015	522	289	33	39	166	
BONNET	MATERIAL:ASTM A350 LF2											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.30	0.60~1.35	≤0.035	≤0.040	0.15~0.30	≤0.40	≤0.30	≤0.12	≤0.08	≤0.40	485~655	Min.250	Min.30	Min.30	Max.197
B20	0.213	0.69	0.016	0.019	0.18	0.17	0.18	0.015	0.016	0.015	522	289	33	39	166	
DISC	MATERIAL:ASTM A182 F316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.08	≤2.00	≤0.045	≤0.030	≤1.00	10.0~14.0	16.0~18.0	2.0~3.0	≤0.10	--	Min.515	Min.205	Min.30	Min.50	--
F86	0.031	0.77	0.021	0.013	0.54	10.35	16.45	2.35	0.016	--	576	264	42	61	--	
STEM	MATERIAL:ASTM A182 F316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.08	≤2.00	≤0.045	≤0.030	≤1.00	10.0~14.0	16.0~18.0	2.0~3.0	≤0.10	--	Min.515	Min.205	Min.30	Min.50	--
F86	0.031	0.77	0.021	0.013	0.54	10.35	16.45	2.35	0.016	--	576	264	42	61	--	

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Inspector: S.Parker

Quality Department (Stamp):

QUALITY CONTROL
 CHECKED BY S.P.
 DATE: 2025.1.7



MATERIAL TEST CERTIFICATE

Type 3-1 EN10204

METALLUM BELGIUM BVBA
 BROYDENBORGLAAN 93 2660 ANTWERP BELGIUM
 TEL. +32 3 825 85 22 FAX: + 32 3 825 85 23

Cert No.: MET24039-02

P.O. No.:
 PO 24519 Delta 200

QUANTITY
 2

DATE: Jan 7th, 2025

Serial No.
 MET2403903
 MET2403904

DESCRIPTION	Tag No.
API 602 Lift Check Valve, RF	CHV-RU0001A04 CHV-RU0001B04

HYDROTEST RESULTS								PRESSURE: MPA		TESTED TO: API 598	
SHELL		SEAT	A	SEAT	B	BACKSEAT					
Water	Air	Water	Air	Water	Air	Water	Air				
7.5Mpa		5.7Mpa									

VALVE
 3/4" 300LB, MATERIAL: A350 LF2 / A182 F316+STL.6

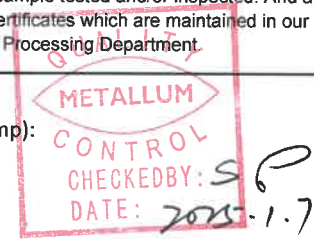
HOLDING TIME: SECOND							
OK	15	OK	15				

PART		CHEMICALS										PHYSICALS				
BODY	HEAT#	MATERIAL:ASTM A350 LF2										TENSILE	YIELD	EL	RA	Brinell Hardness
		C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.30	0.60~1.35	≤0.035	≤0.040	0.15~0.30	≤0.40	≤0.30	≤0.12	≤0.08	≤0.40	485~655	Min.250	Min.30	Min.30	Max.197
B20	0.213	0.69	0.016	0.019	0.18	0.17	0.18	0.015	0.016	0.015	522	289	33	39	166	
BONNET	HEAT#	MATERIAL:ASTM A350 LF2										TENSILE	YIELD	EL	RA	Brinell Hardness
		C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.30	0.60~1.35	≤0.035	≤0.040	0.15~0.30	≤0.40	≤0.30	≤0.12	≤0.08	≤0.40	485~655	Min.250	Min.30	Min.30	Max.197
B20	0.213	0.69	0.016	0.019	0.18	0.17	0.18	0.015	0.016	0.015	522	289	33	39	166	
DISC	HEAT#	MATERIAL:ASTM A182 F316										TENSILE	YIELD	EL	RA	Brinell Hardness
		C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.08	≤2.00	≤0.045	≤0.030	≤1.00	10.0~14.0	16.0~18.0	2.0~3.0	≤0.10	--	Min.515	Min.205	Min.30	Min.50	--
F86	0.031	0.77	0.021	0.013	0.54	10.35	16.45	2.35	0.016	--	576	264	42	61	--	

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Inspector: S.Parker

Quality Department (Stamp):





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Cert No.: MET24039-03

P.O. No.:
 PO 24519 Delta 200

QUANTITY
 2

DATE: Jan 7th, 2025

Serial No.
 MET2403905
 MET2403906

DESCRIPTION	Tag No.
API 602 Globe Valve, RF, Handwheel Operated, with Stem Extension	GLO-RU0001A03 GLO-RU0001B03

HYDROTEST RESULTS								PRESSURE: MPA		TESTED TO: API 598	
SHELL		SEAT	A	SEAT	B	BACKSEAT					
Water	Air	Water	Air	Water	Air	Water	Air	7.5Mpa	5.7Mpa	0.6Mpa	5.7Mpa

VALVE
 1" 300LB, MATERIAL: A350 LF2 / A182 F316+STL.6

HOLDING TIME: SECOND							
OK	15	OK	15	OK	15	OK	15

PART	CHEMICALS											PHYSICALS				
BODY	MATERIAL:ASTM A350 LF2											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	
		≤0.30	0.60~1.35	≤0.035	≤0.040	0.15~0.30	≤0.40	≤0.30	≤0.12	≤0.08	≤0.40	485~655	Min.250	Min.30	Min.30	Max.197
B20	0.213	0.69	0.016	0.019	0.18	0.17	0.18	0.015	0.016	0.015	522	289	33	39	166	
BONNET	MATERIAL:ASTM A350 LF2											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	
		≤0.30	0.60~1.35	≤0.035	≤0.040	0.15~0.30	≤0.40	≤0.30	≤0.12	≤0.08	≤0.40	485~655	Min.250	Min.30	Min.30	Max.197
B20	0.213	0.69	0.016	0.019	0.18	0.17	0.18	0.015	0.016	0.015	522	289	33	39	166	
DISC	MATERIAL:ASTM A182 F316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	
		≤0.08	≤2.00	≤0.045	≤0.030	≤1.00	10.0~14.0	16.0~18.0	2.0~3.0	≤0.10	--	Min.515	Min.205	Min.30	Min.50	--
F86	0.031	0.77	0.021	0.013	0.54	10.35	16.45	2.35	0.016	--	576	264	42	61	--	
STEM	MATERIAL:ASTM A182 F316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	
		≤0.08	≤2.00	≤0.045	≤0.030	≤1.00	10.0~14.0	16.0~18.0	2.0~3.0	≤0.10	--	Min.515	Min.205	Min.30	Min.50	--
F86	0.031	0.77	0.021	0.013	0.54	10.35	16.45	2.35	0.016	--	576	264	42	61	--	

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Inspector: S.Parker

Quality Department (Stamp):

QUALITY CONTROL
 CHECKED BY: S.P
 DATE: 2025.1.7



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Type 3-1 EN10204

METALLUM BELGIUM BVBA
 BROYDENBORGLAAN 93 2660 ANTWERP BELGIUM
 TEL. +32 3 825 85 22 FAX: + 32 3 825 85 23

Cert No.: MET24039-04

P.O. No.:
 PO 24519 Delta 200

QUANTITY
 2

DATE: Jan 7th, 2025

Serial No.
 MET2403907
 MET2403908

DESCRIPTION	Tag No.
ASME B16.34 Y STRAINER, NPT, MESH 100	YST-RU0001A01 YST-RU0001B01

HYDROTEST RESULTS PRESSURE: MPA TESTED TO: API 598							
SHELL		SEAT	A	SEAT	B	BACKSEAT	
Water	Air	Water	Air	Water	Air	Water	Air
7.5Mpa							

VALVE
 3/8" 300LB, MATERIAL: A105N / SS316

HOLDING TIME: SECOND							
OK	15						

PART	CHEMICALS											PHYSICALS				
BODY	MATERIAL:ASTM A105N											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Si.	Mn.	P.	S.	Cr.	Ni.	Mo.	Cu.	V	MPA	MPA	EL	RA	HB
		≤0.35	0.10~0.35	0.60~1.05	≤0.035	≤0.040	≤0.30	≤0.40	≤0.12	≤0.40	≤0.08	Min.485	Min.250	Min.30	Min.30	137-197
	GF6	0.213	0.17	0.75	0.017	0.017	0.12	0.15	0.033	0.014	0.011	521	289	41	49	165
COVER	MATERIAL:ASTM A105N											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Si.	Mn.	P.	S.	Cr.	Ni.	Mo.	Cu.	V	MPA	MPA	EL	RA	HB
		≤0.35	0.10~0.35	0.60~1.05	≤0.035	≤0.040	≤0.30	≤0.40	≤0.12	≤0.40	≤0.08	Min.485	Min.250	Min.30	Min.30	137-197
	GF6	0.213	0.17	0.75	0.017	0.017	0.12	0.15	0.033	0.014	0.011	521	289	41	49	165
SCREEN	MATERIAL:ASTM A276 316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.08	≤2.00	≤0.045	≤0.030	≤1.00	10.0~14.0	16.0~18.0	2.0~3.0	--	--	Min.515	Min.205	Min.40	Min.50	--
	S66	0.031	0.69	0.021	0.015	0.65	10.35	16.44	2.25	--	--	555	244	49	58	---

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Inspector: S.Parker

Quality Department (Stamp):

QUALITY CONTROL
 CHECKED BY: S.P
 DATE: 2025/1/7



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Type 3-1 EN10204

METALLUM BELGIUM BVBA
 BROYDENBORGLAAN 93 2660 ANTWERP BELGIUM
 TEL. +32 3 825 85 22 FAX: + 32 3 825 85 23

Cert No.: MET24039-05

P.O. No.:
 PO 24519 Delta 200

QUANTITY
 2

DATE: Jan 7th, 2025

Serial No.
 MET2403909
 MET2403910

DESCRIPTION	Tag No.
ASME B16.34 Y STRAINER, NPT, MESH 100	YST-RU0001A02 YST-RU0001B02

HYDROTEST RESULTS								PRESSURE: MPA TESTED TO: API 598			
SHELL		SEAT	A	SEAT	B	BACKSEAT					
Water	Air	Water	Air	Water	Air	Water	Air				
7.5Mpa											

VALVE
 1/2" 300LB, MATERIAL: A350 LF2 / SS316

HOLDING TIME: SECOND							
OK	15						

PART	CHEMICALS											PHYSICALS				
BODY	MATERIAL:ASTM A350 LF2											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu	MPA	MPA	EL	RA	HB
		≤0.30	0.60~1.35	≤0.035	≤0.040	0.15~0.30	≤0.40	≤0.30	≤0.12	≤0.08	≤0.40	485~655	Min.250	Min.30	Min.30	Max.197
B20	0.213	0.69	0.016	0.019	0.18	0.17	0.18	0.015	0.016	0.015	522	289	33	39	166	
COVER	MATERIAL:ASTM A350 LF2											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu	MPA	MPA	EL	RA	HB
		≤0.30	0.60~1.35	≤0.035	≤0.040	0.15~0.30	≤0.40	≤0.30	≤0.12	≤0.08	≤0.40	485~655	Min.250	Min.30	Min.30	Max.197
B20	0.213	0.69	0.016	0.019	0.18	0.17	0.18	0.015	0.016	0.015	522	289	33	39	166	
SCREEN	MATERIAL:ASTM A276 316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.08	≤2.00	≤0.045	≤0.030	≤1.00	10.0~14.0	16.0~18.0	2.0~3.0	--	--	Min.515	Min.205	Min.40	Min.50	--
S66	0.031	0.69	0.021	0.015	0.65	10.35	16.44	2.25	--	--	555	244	49	58	---	

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Inspector: S.Parker

Quality Department (Stamp):

CONTROL
 CHECKED BY: S-P
 DATE: 2025.1.7



MATERIAL TEST CERTIFICATE

Type 3-1 EN10204

METALLUM BELGIUM BVBA
 BROYDENBORGLAAN 93 2660 ANTWERP
 BELGIUM
 TEL. +32 3 825 85 22 FAX: + 32 3 825 85 23

Cert No.: MET24039-06

P.O. No.:
 PO 24519 Delta 200

QUANTITY
 4

DATE: Jan 7th, 2025

Serial No.
 MET2403911~
 MET2403914

DESCRIPTION	Tag No.
Sight Glass, FNPT	SG-RU0001A01 SG-RU0001A02 SG-RU0001B01 SG-RU0001B02

HYDROTEST RESULTS PRESSURE: MPA TESTED TO: API 598							
SHELL		SEAT	A	SEAT	B	BACKSEAT	
Water	Air	Water	Air	Water	Air	Water	Air
2.5Mpa							

VALVE
 1/2" PN20 MATERIAL: A182 F316

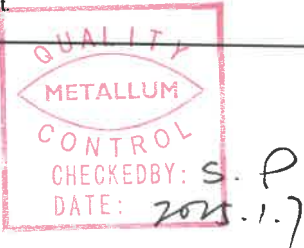
HOLDING TIME: SECOND							
OK	15						

PART		CHEMICALS										PHYSICALS				
BODY		MATERIAL:ASTM A182 F316										TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
		≤0.08	≤2.00	≤0.045	≤0.030	≤1.00	10.0~14.0	16.0~18.0	2.0~3.0	≤0.10	--	Min.515	Min.205	Min.30	Min.50	--
	MN1109	0.029	0.855	0.021	0.016	0.644	10.56	16.75	2.340	0.015	--	522	219	39	63	--

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Quality Department (Stamp):





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Cert No.: MET24039-07

P.O. No.:
 PO 24519 Delta 200

QUANTITY
 2

DATE: Jan 7th, 2025

Serial No.
 MET2403915
 MET2403916

DESCRIPTION	Tag No.
BS 1873 GLOBE VALVE, RF, HANDWHEEL OPERATED WITH STEM EXTENSION: 100MM	GLO-RU0001A04 GLO-RU0001B04

HYDROTEST RESULTS							PRESSURE: MPA		TESTED TO: API 598	
SHELL		SEAT	A	SEAT	B	BACKSEAT				
Water	Air	Water	Air	Water	Air	Water	Air	Water	Air	
7.7Mpa		5.7Mpa				0.6Mpa	5.7Mpa			

VALVE
 6" 300LB, MATERIAL: A352 LCB / A182 F316+STL.6

HOLDING TIME: SECOND							
OK	60	OK	60	OK	60	OK	60

PART	CHEMICALS											PHYSICALS				
BODY	MATERIAL:ASTM A352 LCB											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	V	Cu	MPA	MPA	EL	RA	HB
	L589	0.215	0.57	0.019	0.016	0.34	0.14	0.15	0.063	0.017	0.11	450~620	Min.240	Min.24	Min.35	--
BONNET	MATERIAL:ASTM A352 LCB											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	V	Cu	MPA	MPA	EL	RA	HB
	5683	0.209	0.59	0.021	0.017	0.32	0.12	0.12	0.013	0.016	0.13	450~620	Min.240	Min.24	Min.35	--
DISC	MATERIAL:ASTM A182 F316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
	F86	0.031	0.77	0.021	0.013	0.54	10.35	16.45	2.35	0.016	--	Min.515	Min.205	Min.30	Min.50	--
STEM	MATERIAL:ASTM A182 F316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	HB
	F86	0.031	0.77	0.021	0.013	0.54	10.35	16.45	2.35	0.016	--	Min.515	Min.205	Min.30	Min.50	--

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Inspector: S.Parker

Quality Department (Stamp):

METALLUM
 CONTROL
 CHECKED BY: S.P
 DATE: 2025.1.7



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Cert No.: MET24039-08

P.O. No.:
 PO 24519 Delta 200

QUANTITY
 2

DATE: Jan 7th, 2025

Serial No.
 MET2403917
 MET2403918

DESCRIPTION	Tag No.
API 6D SWING CHECK VALVE, RF	CHV-RU0001A03 CHV-RU0001A04

VALVE
 2" 300LB, MATERIAL: A216 WCB / A182 F316+STL.6

HYDROTEST RESULTS PRESSURE: MPA TESTED TO: API 598							
SHELL		SEAT	A	SEAT	B	BACKSEAT	
Water	Air	Water	Air	Water	Air	Water	Air
7.7Mpa		5.7Mpa					

HOLDING TIME: SECOND							
OK	60	OK	60				

PART	CHEMICALS											PHYSICALS				
BODY	MATERIAL:ASTM A216 WCB											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	V	Cu	MPA	MPA	EL	RA	
		1087	0.221	0.55	0.018	0.022	0.29	0.11	0.16	0.001	0.011	0.012	523	302	32	44
COVER	MATERIAL:ASTM A216 WCB											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	V	Cu	MPA	MPA	EL	RA	
		1087	0.221	0.55	0.018	0.022	0.29	0.11	0.16	0.001	0.011	0.012	523	302	32	44
DISC	MATERIAL:ASTM A182 F316											TENSILE	YIELD	EL	RA	Brinell Hardness
	HEAT#	C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	N.	Cu.	MPA	MPA	EL	RA	
		F86	0.031	0.77	0.021	0.013	0.54	10.35	16.45	2.35	0.016	--	576	264	42	61

Our letters are for the exclusive use of the client to whom they are addressed. The use of our name must receive our written approval. Our letters and reports apply only to the sample tested and/or inspected. And are not necessarily indicative of the qualities of apparently identical or similar products. We certify the materials meet the referenced specifications as reported on the material manufacturer's test certificates which are maintained in our files. The information contained in this report is true and correct to the best of my knowledge. This report is issued by the Quality Assurance Department which is independent of the Manufacturing or Processing Department.

Inspector: S.Parker

Quality Department (Stamp):

