AUSTRALIAN PIPELINE VALVE®
Adelaide, South Australia
www.australianpipelinevalve.com.au
admin@australianpipelinevalve.com.au

Material Test Certificate

EN 10204 3.1:2004

Trace Sh Mill/Pressure

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 0016625PG PAGE NO: 1 OF 1 E: 24th uary 2018

PRODUCT INFORMATION

PRODUCT: GATE VALVE
DESIGN: API600, ASME B16.34
SPECIAL TEST:

CONFORMS: NACE M 75/MR 0103 ISO
CONFORMS:
NOTES:

PRESSURE TEST AND INSPECTION TEST ACCORDING TO API598/ISO 5208

☒ SHELL TEST (HYDROSTATIC)	PRESSURE: 3.10 MPa	DURATION: 120 SECO	TS: A	MENSIONAL INSPECTION:	☒ OK
☒ HP CLOSURE TEST (HYDROSTATIC)	PRESSURE: 2.24 MPa	DURATION: 120 S	TS: ACC	VISUAL INSPECTION:	☒ OK
☒ LP CLOSURE TEST (AIR)	PRESSURE: 0.55 MPa	DURATION: 12 SE	LTS: ACCEP	OPERATIONAL INSPECTION:	☒ OK
☒ BACK SEAT TEST (HYDROSTATIC)	PRESSURE: 2.24 MPa	DURATION SECO	ESULTS: ACCEPTED		

DESCRIPTION/MATERIAL

ITEM	DESCRIPTION	QTY (PCS)	CLASS (PN)	INCH (DN)	MM (DN)	S	D	BODY	DISC	STEM	SEAT	BOLTS
100	GATE VALVE, FB, BBOSY, HWOP Model No. AP15047XUNF, Graphite Packing	40	150	6”	150	51	40	A216 WCB	ASTM A216 WCB + ST#6	ASTM A182 F6A	ASTM A105N + ST#6	ASTM A193 B7M
101	GATE VALVE, FB, BBOSY, HWOP Model No. AP20047XUNF, Graphite Packing	30	150	8”	200	510498		AS A216 WCB	ASTM A216 WCB + ST#6	ASTM A182 F6A	ASTM A105N+ ST#6	ASTM A193 B7M
102	GATE VALVE, FB, BBOSY, HWOP Model No. AP25047XUNF, Graphite Packing	20	150			510498/15	92	ASTM A216 WCB	ASTM A216 WCB + ST#6	ASTM A182 F6A	ASTM A105N + ST#6	ASTM A193 B7M

DESCRIPTION **CHE ICAL CO ITIO** **MECHANICAL PROPERTIES**

PART NAME	HEAT NO.	MATERIAL	Si	Mn		Cr	Mo	Ni	Cu	V	Other	Other	CE	T.S MPa	Y.S MPa	E.L (%)	RA Ψ (%)	Hardn HB	Impact Test Temp.	AKV(J)
BODY	7019	ASTM A21 WCB	0.432	0.628	.02	0.046	0.046	0.001	0.053	0.001	-	-	0.35	523	271	27.8	38.6	164	-	-
BONNET	7959	AST	.39	0.39	.021	0.21	0.042	0.03	0.017	0.003	-	-	0.33	502	345	31	51	154	-	-
DISC	7959	TM A216 W		0 7	0.021	0.21	0.042	0.03	0.017	0.003	-	-	0.33	502	345	31	51	154	-	-
STEM	Y1680	TM A182 F6a			0.021	0.006	11.87	-	0.216	-	-	-	-	678	468	22	57	218	-	-
SEAT	20	ASTM A105N	0.22	0.93	0.019	0.005	0.02	0.001	0.01	0.01	0.001	-	-	523	320	36	52	143	-	-

HEAT TREATMEN Normalised, QU T & TEMPER 900ºx4H Air cooled. **A182 F6a** QUENCH 970ºCx3H Water cooled, TEMPER 690ºCx3H Air cooled. **A182 F316** SOLID SOLUTION 1040ºCx2H Water **5N** Norm 92 Cx2H and QUENCH & TEMPER (690ºCx2H Air cooled) as per ASTM A961.
3.0mm Corrosion al nvestm

WE HEREBY CERTIFY, L AND THE PRODUCT DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH THE TERMS OF THE ORDER

SIGNED: QA MANAGER:

AUSTRALIAN PIPELINE VALVE®

ADELAIDE • BRISBANE • PERTH

PAINTING PROCEDURE
PP WF 07.002
CAST BALL/GGC/STRAINER/PLUG/DUO

SH. 1 / 1
REV. 2

GENERAL SERVICE APPLICATION	Carbon steel surfaces
SCOPE	Standard level protection against weathering, fresh & salt water, chemical atmosphere, petroleum products, alcohols and solvents
TEMPERATURE RESISTANCE	-46ºC to 200ºC
PRELIMINARY SURFACE PREPARATION	Blasting to Grade Sa 2.1/2. Cleaning with degrea… washing with high pressure water at 100ºC, and th… in open air (over 8ºC) 24 hours between coats
PROTECTION OF UNPAINTED PARTS	Protection with suitable plastic pl… and with sealing ta… of: internal bore, flange sealing… welding ends
FINAL SURFACE PREPARATION	Final clean all surfaces f… of imp… dust etc. Machining to smo… 6,3µ… appli…
PAINT APPLICATION	Spraying wi… , dry… etween… manufactu… cificat… ainting pe… at 5 ~ …ºC at … …midity

NO. OF COATS	TYPE OF PROCESS	TYPE	FILM THICKNESS
1st & 2nd Coat Body	Anti-rust self c… Zinc p…	…nc… …sin Ep… …ide	40~50 µm total
3rd Coat Body	RAL9006 (Alu…	…e Ac… …Aluminium Resin	80 µm total
…AL DRY F… …HICKNESS (BODY):			120~130 µm

NO…

…ation temperature, drying times and other physical data of painting as per manufacturer specifications.

Rev.	Date	Remarks	Issued by:
2	August 13th 2018	Third issue	GP

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API607 5th, 6th & 7th Edition Firesafe Certified

ISO 15848-1 Fugitive Emission Certified

Material Test Certificate

EN 10204 3.1:2004

Trace Sh Mill/Pressure

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 503539PG PAGE NO: 1 OF 1 E: 24th uary 2018

PRODUCT INFORMATION

PRODUCT: BALL VALVE – TRUNNION MOUNT
DESIGN: API6D/ ISO 143138
SPECIAL TEST: -50ºC CHARPIES IMPACT TEST, CT, DP

CONFORMS: ANTI ST C BS5351/ ISO172
CONFORMS: FIRES 10497, API607 5
CONFORMS: ASME RESSURE/ TEMP. IR0175

PRESSURE TEST AND INSPECTION

TEST ACCORDING TO API6D/ ISO 5208 RATE A

☒ SHELL TEST (HYDROSTATIC)	PRESSURE: 15.3 MPa	DURATION: 5	MINIU	TS: A	MENSIONAL INSPECTION:	☒ OK
☒ HP CLOSURE TEST (HYDROSTATIC)	PRESSURE: 11.2 MPa	DURATION: 5	M	TS: ACC	VISUAL INSPECTION:	☒ OK
☒ LP CLOSURE TEST (AIR)	PRESSURE: 0.6 MPa	DURATION: 5	MI	LTS: ACCE	OPERATIONAL INSPECTION:	☒ OK
☐ BACK SEAT TEST (HYDROSTATIC)	PRESSURE: MPa	DURATION	SECO	ESULTS:		

DESCRIPTION/MATERIAL

ITEM	DESCRIPTION	QTY (PCS)	CLASS (PN)	INCH MM (DN)	S	NO.		BODY	BALL	STEM	SEAT	BOLTS
32	TRUNNION BALL VALVE, RF, FB, 3P, F51, DBB, LOP	40		50	953	~ 40	RF	ASTM A182 F51	ASTM A182 F51	ASTM A182 F51	CPTFE	ASTM A193 B8M-2
33	TRUNNION BALL VALVE, RF, FB, 3P, F51, DBB, LOP	30	600		0/158	71	RF	ASTM A182 F51	ASTM A182 F51	ASTM A182 F51	CPTFE	ASTM A193 B8M-2
34	TRUNNION BALL VALVE, RF, FB, 3P, F51, DBB, LOP		600	100	158/72 ~ 92		RF	ASTM A182 F51	ASTM A182 F51	ASTM A182 F51	CPTFE	ASTM A193 B8M-2

DESCRIPTION / CHEMICA MPO %

PART NAME	HEAT NO.	MATERIAL	C	Si		P	Mo	Ni	Cu	V	N	Other	CE
BODY	1232	ASTM A182 F51	0.019	0.565	4	0.013	22.121	3.034	5.208	-	-	0.168	-
ENDS	1232	ASTM A182 F51	0.019	0.565	.014	0.013	22.121	3.034	5.208	-	-	0.168	-
BALL	2455	ASTM A182 F5	0.023	0.471	.016	0.015	22.11	3.076	5.201	-	-	0.171	-
STEM	3571	ASTM A182	020	0.505	.014	0.014	22.10	2.917	5.106	-	-	0.172	-
TRUNNION	D501	ASTM 182 F51	0.652	0	0.015	0.016	22.09	2.832	5.095	-	-	0.168	-
SEAT RETAINER	H890	AST 2 F51		0.20	0.012	0.010	22.096	3.075	5.423	-	-	0.169	-

MECHANICAL PROPERTIES

	T.S MPa	Y.S MPa	E.L (%)	RAΨ (%)	Hardn HB	Impact Test Temp. AKV(J)*
BODY	630	475	30	56	168	-50ºC 59 / 63 / 54
ENDS	630	475	30	546	168	-50ºC 59 / 63 / 54
BALL	640	476	33	55	174	-
STEM	635	460	30	52	174	-
TRUNNION	633	484	29	50	171	-
SEAT RETAINER	640	495	32	53	169	-

* 54J AVERAGE MINIMUM

HEAT TREATMENT QUENCH 60ºCX1H W oled.
OTHER: - Con ACE M 3.0mm Co allowance. Investment cast.

WE HEREBY CER ATERIAL AND PRODUCT DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH THE TERMS OF THE ORDER

SIGNED: CONFIDENTIAL

QA MANAGER: CONFIDENTIAL

EXAMPLE

AUSTRALIAN PIPELINE VALVE®
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Liquid Penetrant E mination

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 503539BT

PRODUCT INFORMATION

DESCRIPTION: BALL VALVE 3" 600LB RF ITEM 33 PARTS: BODY / P
MATERIAL: F51 NUMBER OF PARTS:
HEAT NUMBER: 1232

SURFACE CONDITIONS

TEMPERATURE: 21ºC

CASTING	☒
MACHINED OVERLAY	☐
AREA WELDED	☐
100%	☒
PRIOR CLEANING	☒

PENETRANT APPLICATION

PENETRATION TIME: 10 UTES
INTERPRETATION TIME: TES
MARK: -CHEC

SPRAY	
BRUSH	
DIP	☐

NG APPLICATION

MARK: HP-ST DYE-CHECK

SPRAY	☒

EXAMINATION TYPE

COLOURED	☒
FLORESCENT	☐
DRYING VERIFICATION	☐

R

W N	☐
EM Y	☐
SO	☒

ILLUMINATION

NATURAL	☐
ARTIFICIAL	☒

OBSERVATIONS: The surface condition of the are ected confor ality Level Appendix III of ASME/ANSI B16.34.
RESULT: OK

SIGNED: CONFIDENTIAL QA MANAGER: CONFIDENTIAL

AUSTRALIAN PIPELINE VALVE®
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Corrosion Test

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 503539BT

PRODUCT INFORMATION

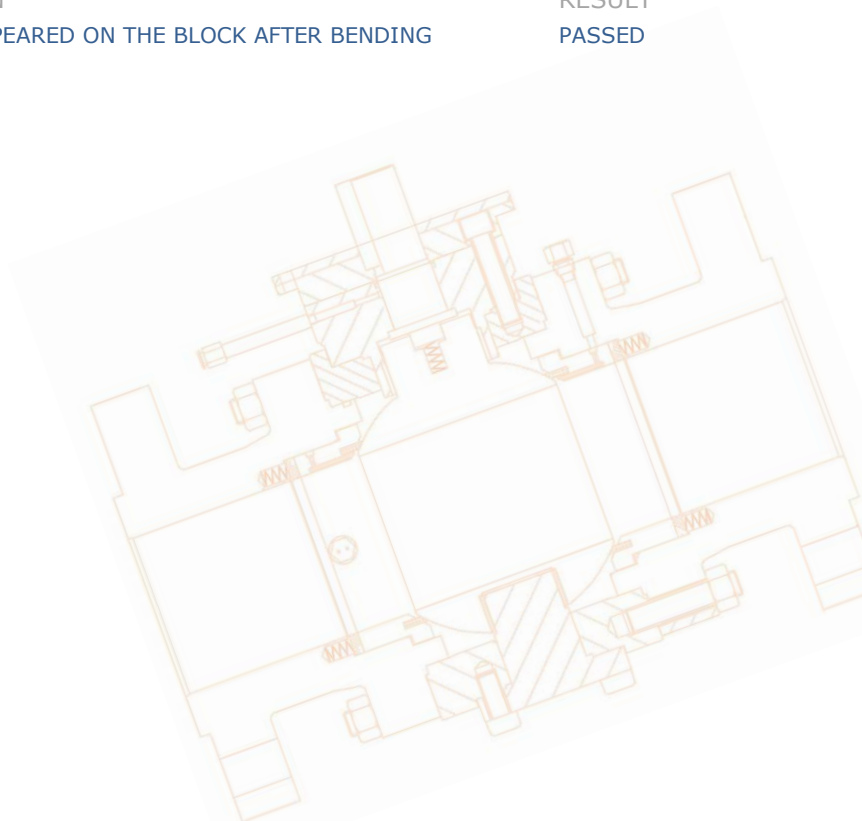
NAME OF SAMPLE: TEST BLOCK
MATERIAL: F51
STATE: SOLID SOLUTION TREATED

TEST PERFORMED: CORR EST
TEST STANDARD: ASTM A

DESCRIPTION

1. THE TEST BLOCK BEEN SENSITISING TREATED, AT 675ºC, FOR 1 HOUR.
2. GRIND, WASH AND DRY, THEN IMMERSE IN BOILING COPPER SULPHATE SOLUTION FOR 16 H REMO ST BLOCK, CLEAN AND DRY.
3. PIN DIAMETER FOR THE TEST IS d=a. BENDING ANGLE IS 180º.

DESCRIPTION	NO	CO ION	RESULT
BODY & END CAPS – 600LB-3”	12	NO C APPEARED ON THE BLOCK AFTER BENDING	PASSED



AUSTRALIAN PIPELINE VALVE®

ADELAIDE • BRISBANE • PERTH

FINAL INSPECTION REPORT

Ball Valves – Trunnion Mounted - API 6D

Date :
Cert No. :
Order No. :
Page No. :

I. ASSEMBLY

1) Check proper alignment of pipe flange holes or weld ends/ schedule to ANSI B16 or ANSI B16.25. ☑

2) For flange connections check finish & that both faces are clean & unmarked. ☑

3) Check the overall length of the valve against the appropriate specification. ☑

4) Check that all stop devices have been set correctly ☑

II. FITTINGS

1) Check studs for [illegible] height [illegible] bearance. ☑

2) Check [illegible] se fittings, d[illegible] for tightnes ☑

III. GENERAL APPEARANCE

1) Check that the paint fi[illegible] free from defects & cove[illegible] external m[illegible]s. ☑

2) Ch[illegible] the na[illegible] is co[illegible] ible & [illegible]ely faste[illegible] ☑

[illegible]eck th[illegible]les and tags [illegible] correct[illegible] & securely [illegible]ed. ☑

4) Fo[illegible] asting finish 100% visua[illegible]SS SP-55). ☑

5) [illegible]0% Dimensional inspection API6D/ B16.34 ☑

6) Marking/ tagging to MSS SP-25. ☑

IV. STANDARD

1)	Testing to:	API6D (ISO 5208-A)	☑
2)	Dimensions:	ANSI B16.10	☑
3)	Ends to:	ANSI B16.5	☑
4)	Manufactured to:	API6D	☑
5)	Firesafe to:	API607 5th & 6th Edition	☑
		API6FA 3rd Edition	☑
		To NACE MR-0175 (where shown)	☑

Inspector's Signature: GPeric

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API607 5th & API6FA 3rd Edition Firesafe Certified

Material Test Certificate

EN 10204 3.1:2004

Trace Sh Mill/Pressure

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 0016625PG PAGE NO: 1 OF 1 E: 24th uary 2018

PRODUCT INFORMATION

PRODUCT: PLUG VALVE
DESIGN: API6D/ ISO 143138
SPECIAL TEST: ≥.08MM MINIMUM NITRIDING, ENP SURFACING HARDNESS PLUG/ STEM 900VHN (67RC) FREE OF POROSITY

CONFORM ANTI STATIC BS5 010
CONF IRESAFE ISO 104 API6FA
CONFOR ESS/TEMP. ASME NACE MR-01-75

PRESSURE TEST AND INSPECTION

TEST ACCORDING TO API6D/ ISO 5208 RATE A

☒ SHELL TEST (HYDROSTATIC)	PRESSURE: 3.10 MPa	DURATION: 5	MINU	TS: A	DIMENSIONAL INSPECTION:	☒ OK
☒ HP CLOSURE TEST (HYDROSTATIC)	PRESSURE: 2.24 MPa	DURATION: 5	M	TS: ACC	VISUAL INSPECTION:	☒ OK
☒ LP CLOSURE TEST (AIR)	PRESSURE: 0.55 MPa	DURATION: 5	MI	LTS: ACCE D	OPERATIONAL INSPECTION:	☒ OK
☐ BACK SEAT TEST (HYDROSTATIC)	PRESSURE: MPa	DURATION	SECO	RESULTS:		

DESCRIPTION/MATERIAL

ITEM	DESCRIPTION	QTY (PCS)	CLASS (PN)	INCH (DN)	MM (D	RIAL N	BO	PLUG	STEM	SEAT	BOLTS
100	PRESSURE BALANCED PLUG VALVE, RF, WCB, LOP Model No. SSCR-RHG63WFBN, Firesafe, VITON AED O-ring, NACE MR-01-75	40	150	2"		158/1	STM A21 CB	ASTM A216 WCB +NITRIDING ≥.08mm	ASTM A182 F6A +.076mm ENP	LUBRICATED	ASTM A193 B7+ZP
101	PRESSURE BALANCED PLUG VALVE, RF, WCB, LOP Model No. SSCR-RHG63WFBN, Firesafe, VITON AED O-ring, NACE MR-01-75	30	150	3"		60	RF A216 WCB	ASTM A216 WCB +NITRIDING ≥.08mm	ASTM A182 F6A +.076mm ENP	LUBRICATED	ASTM A193 B7+ZP
102	PRESSURE BALANCED PLUG VALVE, RF, WCB, LOP Model No. SSCR-RHG63WFBN, Firesafe, VITON AED O-ring, NACE MR-01-75	20	0	4"	100	158/	F ASTM A216 WCB	ASTM A216 WCB +NITRIDING ≥.08mm	ASTM A182 F6A +.076mm ENP	LUBRICATED	ASTM A193 B7+ZP

DESCRIPTION / CHEMICAL C OS / MECHANICAL PROPERTIES

PART NAME	HEAT NO.	MATERIAL	C	Si	Mn	S	P	Mo	Ni	Cu	V	Other	Other	CE	T.S MPa	Y.S MPa	E.L (%)	RA Ψ (%)	Hardn HB	Impact Test Temp. AKV(J)
BODY	B00008	ASTM A216 WCB		0.37	0.7			0.010	0.005	0.02	0.01	-	-	0.36	531	306	32	49	159	-
BONNET	B00008	ASTM A216 WCB		0.37	0.70		022	0.018	0.010	0.005	0.02	0.01	-	-	0.36	531	306	32	49	159	-
STEM	V5108	ASTM A1 NP		0.660	0.830		0.019	12.5	-	0.160	-	-	-	-	-	640	530	42	68	203	-
PLUG	B29655	ASTM A2		160	1.080		0.013	0.090	0.020	0.026	0.029	0.006	-	-	-	530	320	29	55	156	-
BOLTS	510452	M A193 B7+ZP			.013	0.004	0.94	0.017	-	-	-	-	-	-	-	932	836	25	62	286	-
NUT	OC022	STM A194 2HM +ZP		0	0.2	360	0.014	0.006	-	-	-	-	-	-	-		-	-	-	195	-

HEAT TREATM 16 W alised, QU & TEMPER 920ºx4H Air cooled. **A182 F6A** QUENCHED 970ºCx3H Water Cooled, TEMPERED 690ºCx3H Water Cooled.
OTHER: - 3.0mr ce. Investme t.

WE HEREBY CERTI HE MATER D THE PRODUCT DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH THE TERMS OF THE ORDER

SIGNED: CONFIDENTIAL QA MANAGER: CONFIDENTIAL

AUSTRALIAN PIPELINE VALVE®

ADELAIDE • BRISBANE • PERTH

FINAL INSPECTION REPORT

Lubricated Plug Valves

Date : 00-00-0000
Cert No. : 000000
Order No. : 00000000
Page No. : 1 of 2

I. ASSEMBLY

1) Check proper alignment of pipe flange holes or weld ends/ schedule to ANSI B16 or ANSI B16.25. ☑
2) For flange or weld connections check finish & that both faces are clean & unmarked. ☑
3) Check the overal length of the valve against the appropriate specification. ☐
4) Check that all stops have been set correctly. ☐

II. FITTINGS

1) Check body & bonn[illegible] height & [illegible]ppearance ☐
2) Che[illegible]ase fittings, plug[illegible]ghtness & a[illegible] ([illegible]plicable). ☑
3) [illegible]valves [illegible]eck that the[illegible] bolt have be[illegible]vided, [illegible]ver operated, co[illegible]ver. ☑

III. GENERAL APPEARANCE

1) Check that the pai[illegible] free from defects & [illegible]mal metal surfa[illegible] ☑
2) Check tha[illegible]e [illegible]orrect, [illegible]e & se[illegible]d. ☑
[illegible]at all la[illegible] tags are [illegible]ible & [illegible]fastened. ☑
4) [illegible]ing [illegible] finish (MSS SP-55). ☑

IV. [illegible]ARD

Testing to:	API6D/ISO 14313 (ISO 5208 Leakage Rate A)	☑
2) Dimensions:	ANSI B16.1	☑
3) Ends to:	ANSI B16.5/B16.25/B1.20.1	☑
4) manufactured to:	API6D	☑
5) Firesafe to:	API607 5th Edition	☑
	API6FA 3rd Editon	☑

Inspector's Signature: GPeric

DNV
Firesafe Certified
API 607 5th Edition,
API 6FA 3rd Edition

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AUSTRALIAN PIPELINE VALVE®

ADELAIDE • BRISBANE • PERTH

ELECTROLESS NICKEL PLATING CONFORMITY DECLARATION

Customer:	**Global Supply Line Pty Ltd**	*Reference:*	
Order Number:	*XXXXXXXX*	*Date:*	*XX-XX-XXXX*
Item Numbers:	*XXX*		

All ENP surfaces (Stem) hardened to thickness 0.75mm (.003”) minimum 746 HV hardness.

WE HEREBY CERTIFY THAT THE MATERIAL SUPPLIED IS CONFORM TH T PLICABLE RDER.

STANDARD METHODS OF NICKEL PLATING INSPECTION

- VISUAL INSPECTION ON 100% OF PLATED SURFAC
- THICKNESS VERIFICATION;
- ADHESION INSPECTION WITH IMPACT LAT O NTS;
- REFERENCE STANDARD ASTM B733.

NOTES
Covers: - Ste

INSPECTOR	***ISSUED BY***
	GP

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FLOWTURN®

Material Test Certificate

EN 10204 3.1:2004

Trace Sh Mill/Pressure

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 0016628PG PAGE NO: 1 OF 1 E: 24th uary 2018

PRODUCT INFORMATION

PRODUCT: GATE VALVE
DESIGN: EN 558, BSEN1171/BS5163 & AS 2638.1
SPECIAL TEST:

CONFORMS: AS4087 1092-2 PN16/AS3
CONFORMS: DRIL 129 TABLE E
OTHER: FUSION D EPOXY PAINTED

PRESSURE TEST AND INSPECTION

TEST ACCORDING TO EN12266-1 PN16 & ISO 5208 & AS SS 16

☒ SHELL TEST (HYDROSTATIC)	PRESSURE: 2.40	MPa	DURATION: 60	SECO	TS: A	DIMENSIONAL INSPECTION:	☒ OK
☒ HP CLOSURE TEST (HYDROSTATIC)	PRESSURE: 1.76	MPa	DURATION: 60	S	TS: ACC	VISUAL INSPECTION:	☒ OK
☐ LP CLOSURE TEST (AIR)	PRESSURE:	MPa	DURATION:	SEC	LTS:	OPERATIONAL INSPECTION:	☒ OK
☐ BACK SEAT TEST (HYDROSTATIC)	PRESSURE:	MPa	DURATION	SECO	ESULTS:		

DESCRIPTION/MATERIAL

ITEM	DESCRIPTION	QTY (PCS)	CLASS (PN)	INCH (DN)	MM (DN)	SE	D	E		DISC	STEM	SEAT	BOLTS
100	GATE VALVE Model No. SL601	40	150	4"	100	51	10	F	ENGJL 250 (GG25)	ENGJL-250 (GG25)	ASTM A276-316	BRONZE	A3+ZP
101	GATE VALVE Model No. SL601	30	150	6"	150	51114		FF	ENGJL-250 (GG25)	ENGJL-250 (GG25)	ASTM A276-316	BRONZE	A3+ZP
102	GATE VALVE Model No. SL601	20	150			511147/13	92	F	ENGJL-250 (GG25)	ENGJL-250 (GG25)	ASTM A276-316	BRONZE	A3+ZP

DESCRIPTION / CHEMICAL COMPOSITION / MECHANICAL PPROPERTIES

PART NAME	HEAT NO.	MATERIAL	Si	Mn		Mo	Ni	Cu	V	Other	Other	CE	T.S MPa	Y.S MPa	E.L (%)	RA Ψ (%)	Hardn HB	Impact Test Temp. AKV(J)
BODY & BONNET	2026	CAST IRON GG25	1.52	0.99	103	-	-	-	-	-	-	-	258	178	0.85	-	-	-
GATE	6439	CAST I	1.49	0.97	0.100	-	-	-	-	-	-	-	260	176	0.82	-	-	-
STEM	01710-5	ASTM A	45	0.94	0.012	16.24	2.45	10.25	-	-	-	-	525	231	34	55	-	-

HEAT TREATM 76 F31 D SOLUTI 0ºCx2H Water Cooled. **A351 CF8M** Normalised, QUENCH & TEMPER 1050ºCx1.5H Water cooled.
OTHER: - 2.0m on e. Investme

WE HEREBY CERTI E MATERI ND E PRODUCT DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH THE TERMS OF THE ORDER

SIGNED: CONFIDENTIAL QA MANAGER: CONFIDENTIAL

EXAMPLE

AUSTRALIAN PIPELINE VALVE®
Adelaide, South Australia
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admin@australianpipelinevalve.com.au

Material Test Certificate

EN 10204 3.1:2004

Trace Sh Mill/Pressure

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 510496BT PAGE NO: 1 OF 1 E: 24th uary 2018

PRODUCT INFORMATION

PRODUCT: GATE VALVE
DESIGN: API600/ASME B16.34/AS2129/AS4087 PN35
SPECIAL TEST:

CONFORMS: NACE M 75/MR0103 ISO 1
CONFORMS: ANSI SS FLANGED & D 29 TABLE H & AS408

PRESSURE TEST AND INSPECTION

TEST ACCORDING TO ISO 5208

☒ SHELL TEST (HYDROSTATIC)	PRESSURE: 7.75 MPa	DURATION: 120 SEC	TS: A	MENSIONAL INSPECTION:	☒ OK
☒ HP CLOSURE TEST (HYDROSTATIC)	PRESSURE: 5.61 MPa	DURATION: 120 S	TS: ACC	VISUAL INSPECTION:	☒ OK
☒ LP CLOSURE TEST (AIR)	PRESSURE: 0.55 MPa	DURATION: 1 SE	LTS: ACCEP	OPERATIONAL INSPECTION:	☒ OK
☒ BACK SEAT TEST (HYDROSTATIC)	PRESSURE: 5.61 MPa	DURATION SEC	RESULTS: ACCEPTED		

DESCRIPTION/MATERIAL

ITEM	DESCRIPTION	QTY (PCS)	CLASS (PN	CH (D	NO.	DS	BODY	DISC	STEM	SEAT	BOLTS
100	PARALLEL SLIDE GATE VALVE, FF, FB, BBOSY, HWOP, AST-H Model No. AP-316SUS, INCONEL X750 SPRING	40		100 04	1 ~ 40	FF	A216 WCB	ASTM A105 + ST#6	ASTM A182 F6A	ASTM A105N + ST#6	A193 B7
101	PARALLEL SLIDE GATE VALVE, FF, FB, BBOSY, HWOP, AST-H Model No. AP-316SUS, INCONEL X750 SPRING	30	300	96/1	41 ~ 71	FF	A216 WCB	ASTM A105 + ST#6	ASTM A182 F6A	ASTM A105N + ST#6	A193 B7
102	PARALLEL SLIDE GATE VALVE, FF, FB, BBOSY, HWOP, AST Model No. AP-316SUS, INCONEL X750 SPRING		300	200	96/167/72 ~ 92	FF	A216 WCB	ASTM A105 + ST#6	ASTM A182 F6A	ASTM A105N + ST#6	A193 B7

DESCRIPTION / CHEMICAL COMPOSITION / MECHANICAL PROPERTIES

PART NAME	HEAT NO.	MATERIAL	Si	Mn	C	Mo	Ni	Cu	V	Other	Other	CE	T.S MPa	Y.S MPa	E.L (%)	RA Ψ (%)	Hardn HB	Impact Test Temp. AKV(J)
BODY	A9202	ASTM A216 WCB	0.41	0.92	0.012	0.087	0.012	0.033	0.023	0.003	-	-	0.39	524	300	27	52	152	-
BONNET	A9204	ASTM A	0.40	1.00	0.013	0.107	0.024	0.050	0.024	0.003	-	-	0.40	511	297	28	54	154	-
DISC	16-102332	ASTM A105		0.91	0.004	0.030	0.010	0.010	0.010	0.04	-	-	0.379	512	282	29	46	172	-
STEM	Y16800928	A182 F6a			0.021	0.006	11.87	-	0.216	-	-	-	-	678	468	22	57	218	-
SEAT	204844	TM A105N+ST#6		93	0.019	0.005	0.02	0.001	0.01	0.01	0.001	-	-	523	320	36	52	143	-

HEAT TREATM **16 W** alised, QU & TEMPER 900ºx4H Air cooled. **A182 F6a** QUENCH 970ºCx3H Water cooled, TEMPER 690ºCx3H Air cooled. **A182 F316** SOLID SOLUTION 1040ºCx2H Wat ormalise 92 and QUENCH & TEMPER (690ºCx2H Air cooled) as per ASTM A961.
OTHER: - 3.0mm vance. Inv tme ast.

WE HEREBY CERTIF HE MAT D THE PRODUCT DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH THE TERMS OF THE ORDER

SIGNED: QA MANAGER:

CONFIDENTIAL CONFIDENTIAL

EXAMPLE

AUSTRALIAN PIPELINE VALVE®
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SUPER·CHECK®

Material Test Certificate

To EN 10204 3.1:2004

Traceability Sheets/Mill/Pressure

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 0016625PG PAGE NO: 1 OF 1 DATE: 24th January 2018

PRODUCT INFORMATION

PRODUCT: CHECK VALVE WAFER STYLE
DESIGN: API594
SPECIAL TEST:

CONFORMS: NACE MR0175/MR0103 ISO 15156
CONFORMS: PRESSURE/ TEMPERATURE ASME B16.34
OTHER: ASME B16.10, B16.5

PRESSURE TEST AND INSPECTION TEST ACCORDING TO API598

☒	SHELL TEST (HYDROSTATIC)	PRESSURE: 3.10	MPa	DURATION: 120	SECONDS	RESULTS: ACCEPTED	DIMENSIONAL INSPECTION:	☒	OK
☒	HP CLOSURE TEST (HYDROSTATIC)	PRESSURE: 2.24	MPa	DURATION: 120	SECONDS	RESULTS: ACCEPTED	VISUAL INSPECTION:	☒	OK
☐	LP CLOSURE TEST (AIR)	PRESSURE:	MPa	DURATION:	SECONDS	RESULTS:	OPERATIONAL INSPECTION:	☒	OK
☐	BACK SEAT TEST (HYDROSTATIC)	PRESSURE:	MPa	DURATION:	SECONDS	RESULTS:			

DESCRIPTION/MATERIAL

ITEM	DESCRIPTION	QTY (PCS)	CLASS (PN)	INCH (DN)	MM (DN)	SERIAL NO.	ENDS	BODY	DISC	HINGE PIN	SEAT	SPRING
100	WAFER CHECK VALVE, RF, Dual Flap Model No. 100ASG15SPF-N94-42B	40	150	4"	100	511147/158/1 ~ 40	RF LUGGED	ASTM A216 WCB	ASTM A351 CF8M	ASTM A276-316	ST#6	X750
101	WAFER CHECK VALVE, RF, Dual Flap Model No. 150ASG15SPF-N94-42B	30	150	6"	150	511147/158/41 ~ 71	RF LUGGED	ASTM A216 WCB	ASTM A351 CF8M	ASTM A276-316	ST#6	X750
102	WAFER CHECK VALVE, RF, Dual Flap Model No. 200ASG15SPF-N94-42B	20	150	8"	200	511147/158/72 ~ 92	RF LUGGED	ASTM A216 WCB	ASTM A351 CF8M	ASTM A276-316	ST#6	X750

DESCRIPTION / **CHEMICAL COMPOSITION %** / **MECHANICAL PROPERTIES**

PART NAME	HEAT NO.	MATERIAL	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Other	Other	CE	T.S MPa	Y.S MPa	E.L (%)	RA Ψ (%)	Hardn HB	Impact Test Temp. AKV(J)
BODY	2026	ASTM A216 WCB	0.193	0.432	0.847	0.038	0.021	0.067	0.009	0.035	0.014	0.006	-	-	0.35	565	291	25	41	158	
DISC	6439	ASTM A351 CF8M	0.047	0.78	1.160	0.036	0.008	18.51	2.082	9.13	-	-	-	-	-	580	350	47	-	169	
HINGE PIN	01710-5	ASTM A276-316	0.054	0.45	0.94	0.016	0.012	16.24	2.45	10.25	-	-	-	-	-	525	231	34	55	156	

HEAT TREATMENT: - **A216 WCB** Normalised, QUENCH & TEMPER 900ºx4H Air cooled. **A276 F316** SOLID SOLUTION 1040ºCx2H Water Cooled. **A351 CF8M** Normalised, QUENCH & TEMPER 1050ºCx1.5H Water cooled.
OTHER: - 2.0mm Corrosion allowance. Investment cast.

WE HEREBY CERTIFY, THAT THE MATERIAL AND THE PRODUCT DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH THE TERMS OF THE ORDER

SIGNED: CONFIDENTIAL QA MANAGER: CONFIDENTIAL

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API607 5th & 6th Ed. ISO 10497 Firesafe Certified

API 622 Endurance Test Certified

Material Test Certificate

EN 10204 3.1:2004

Trace Sh Mill/Pressure

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 0016625PG PAGE NO: 1 OF 1 E: 24th uary 2018

PRODUCT INFORMATION

PRODUCT: BUTTERFLY VALVE
DESIGN: API609-B, ANSI B16.34
SPECIAL TEST:

CONFORMS: NACE M 75/MR0103
CONFORMS: FIRES 607/ ISO 10497
OTHER: ASME B 16.5

PRESSURE TEST AND INSPECTION

TEST ACCORDING TO API598 ISO 5208 RATE A

☒ SHELL TEST (HYDROSTATIC)	PRESSURE: 15.3 MPa	DURATION: 120 SEC	TS: A	DIMENSIONAL INSPECTION:	☒ OK
☒ HP CLOSURE TEST (HYDROSTATIC)	PRESSURE: 2.24 MPa	DURATION: 120 S	TS: ACC	VISUAL INSPECTION:	☒ OK
☒ LP CLOSURE TEST (AIR)	PRESSURE: 0.55 MPa	DURATION: 1 SEC	LTS: ACCEP D	OPERATIONAL INSPECTION:	☒ OK
☐ BACK SEAT TEST (HYDROSTATIC)	PRESSURE: MPa	DURATION SECO	ESULTS:		

DESCRIPTION/MATERIAL

ITEM	DESCRIPTION	QTY (PCS)	CLASS (PN)	INCH (DN)	MM (DN)	DISC	STEM	SEAT	BOLTS
100	BUTTERFLY VALVE, RF, LUGGED, HP, LO Model No. SLHBFFS-CLABRG,	40	600	2”	50	ASTM A216 WCB	ASTM A351 CF8M	ASTM A564 T630	SS316+RPTFE
101	BUTTERFLY VALVE, RF, LUGGED, HP, LO Model No. SLHBFFS-CLABRG,	30	600	3”	80	ASTM A216 WCB	ASTM A351 CF8M	ASTM A564 T630	SS316+RPTFE
102	BUTTERFLY VALVE, RF, LUGGED, HP, LO Model No. SLHBFFS-CLABRG,	20	600			ASTM A216 WCB	ASTM A351 CF8M	ASTM A564 T630	SS316+RPTFE

DESCRIPTION

PART NAME	HEAT NO.	MATERIAL
BODY	J78G5	ASTM A216 WCB
DISC	J79L1	CF8M
STEM	N07087	AST

CHEMICAL CO SIT

Si	Mn			Ni	Cu	V	Other	Other	CE
0.35	0.87	9	0.013	0.01	0.02	0.01	0.006	-	-	0.35
0.89	1.03	0.013	18.62	2.19	9.55	-	-	-	-	-
0.311	0.692	002	15.43	0.130	4.079	3.142	-	-	-	-

MECHANICAL PROPERTIES

T.S MPa	Y.S MPa	E.L (%)	RA Ψ (%)	Hardn HB	Impact Test Temp. AKV(J)
546	302	29	55	167	
535	282	61	-	166	
162	157	20	64	35	-46ºC 30 / 30 / 33

HEAT TREATMENT **WCB** N malised, QU & TEMPER 900ºx4H Air cooled. **ASTM A564 T630** QUENCH 970ºCx3H Water cooled, TEMPER 690ºCx3H Air cooled. **A182 F316** SOLID SOLUTION 104 Water C **A105N** No 920ºCx2H and QUENCH & TEMPER (690ºCx2H Air cooled) as per ASTM A961. **A351 CF8M** Normalise, QUENCH & TEMPER 1050ºCx1.5H Water cooled.
OTHER: - 2.0mm nce. Investme st.

WE HEREBY CERTIF HE MATE D THE PRODUCT DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIED WITH THE TERMS OF THE ORDER

SIGNED: CONFIDENTIAL

QA MANAGER: CONFIDENTIAL

APV TORQTURN
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CYCLE TESTED
ISO 15848-1
ndurance Test Certified

Customer: Global Supply Line Australia (Pty. Ltd.)
Purchase Order No.: 000157BT

MATERIAL TEST CERTIFICATE according to EN 10204.3.1

1. SUPPLY DESCRIPTION

Item	Qty	Tag No.	Actuator Model	No.
11	1	Not Applicable	GP14S-200SR5.5V-S	-1
	1	Not Applicable	GP14S-200SR5	C-
	1	Not Applicable	GP14S-200 STC	C-17
	1	Not Applicable	GP14 200SR	C-1708 4
	1	Not Applicable	0SR5.	C-170883-5
	1	Not Applicable	R5.5V	C-170883-6
	1	Not Applicable	5.5V-S	C-170883-7
	1	Not Appli	V-STC	C-170883-8
	1	Not Applica	STC	C-170883-9
	1	Not Applicabl	SR5 V-STC	C-170883-10

2. MATE L SPECI TIO

Part Nam	Material	Reference Standard
Y &	Ductile Iron	FCD45
	Ductile Iron	FCD45
THR		PTFE
SPRING	Alloy Steel	60Si2Mn
SPRING E	Carbon Steel	A106
PNEUM CYLINDER	Carbon Steel	A106
PISTON	Ductile Iron	FCD45
ON ROD	Alloy Steel	AISI 4140
AD & BOTTOM FLANGES	Ductile Iron	FCD45
GUIDE ROD	Alloy Steel	AISI 4140

** PTFE lined*

Australian Pipeline Valve certifies the above listed supply complies with your purchase order and relevant technical specifications.

QUALITY CONTROL APPROVED

Date: 17-05-2018

FACTORY ACCEPTANCE TEST CERTIFICATE - QUARTER TURN ACTUATOR - SERIES G RANGE

CUSTOMER:	Global Supply Line (Pty. Ltd.)	AMBIENT TEMP.:	-20/+ 80ºC
PURCHASE ORDER NO.:	00015741BT	NORM.:	NAMUR
DATE:	17-05-2018	LABLE LANGUAGE:	English
TAG NO.:	Not Available	MECHANICAL PROTECTION:	IP65
ACTUATOR MODEL:	GP14S-200SR5.5V-STC	PAINTING SPEC.:	APV PHI - .001
SERIAL NO.:	C-170883-1	COMP. LABEL:	ENGLISH
OPERATED VALVE:	Quarter Turn Type		

HAZARDOUS AREA PROTECTION FOR ELECTRICAL APPARATUS

LIMIT SWITCH ENCLOSURE	Not Applicable	
LIMIT SWITCHES	Not Applicable	
SOLENOID VALVE	Not Applicable	
JUNCTION BOX	Not Applicable	
CABLE GLAND	Not Applicable	

INTERMEDIATE TESTING

PRESSURE TEST OF CYLINDER WITH DRY AIR a/o HYDRAULIC FLUID AT 8.3 BarG	OK	
PISTON SEALS TEST WITH DRY AIR a/o HYDRAULIC FLUID AT 6 Barg		

ACTUATOR PERFORMANCE TESTING

START TORQUE TO	1.0 OPEN WITH 5.5 BarG	995	1.1 CLOSE WITH SPRING:	969	N.m
RUNNING TORQUE TO	2.0 OPEN WITH 5.5 BarG		2.1 CLOSE WITH SPRING:	470	N.m
END TORQUE IN	3.0 OPEN WITH 5.5 BarG	60	3.1 CLOSE WITH SPRING:	598	N.m
OPERATING TIME TO	4.0 OPEN WITH 5.5 BarG	< 5	4.1 CLOSE WITH SPRING:	< 4 Sec.	

VISUAL INSPECTION OF CONTROL S

PNEUMATIC CONTROL SYSTEM/ OPERATING DIAG	Not Applicable	
HYDRAULIC CONTROL SYST ATING DIAGRA	Not Applicable	
ELECTRIC CONTROL SYST RAM No.:	Not Applicable	
PNEUMATIC a/o HYDRAULIC ATOR	Not Applicable	
Serial No.: ty: Pressure Test: Barg		

FINAL C NG AND T

RALL IONS CHECK	According to DWG No.	115690/1	
& JOINT CHE	According to DWG No.	115690/1	
TIG UMATIC HYDRAULIC PIPING AT 5.5 BarG		OK	
RUNNIN		OK	
CONTRO EM FUNCTIONAL TEST		Not Applicable	
MANUAL ENCY OPERATION TEST		Not Applicable	
LIMIT SW OPERATION TEST		Not Applicable	

INSPECTION

INAL VISUAL INSPECTION	OK	x
PAINTING CHECK	According to APV standard painting, orange colour	x
PACKING CHECK	According to APV standard packing	x

NOTE: ALL TEST ARE PERFORMED AT THE TEMPERATURE OF ABOUT 25ºC

QUALITY CONTROL	CUSTOMER INSPECTOR
Signed by: QUALITY CONTROL APPROVED CONFIDENTIAL	Signed by: CONFIDENTIAL

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EN 10204 3.1:2004

Trace Sh Mill/Pressure

CUSTOMER: GLOBAL SUPPLY LINE PTY LTD PO NO: 00015741BT ITEM NO: 11 17th May 2018

PRODUCT INFORMATION

PRODUCT: PNEUMATIC ACTUATOR SPRING RETURN
MODEL: GP14S-200SR5.5V-STC
QUANTITY: 10

SERIAL NO: C170883 ~10
NOTES: -
NOTES: -

DESCRIPTION | **CHEMICAL COMPOSITION %** | **MECHANICAL PROPERTIES**

PART NAME	HEAT NO.	MATERIAL	C	Si	Mn	P	S	Cr	Mo	Ni	V	HEAT TREAT	Pa	Y.S MPa	E.L (%)	RA Ψ (%)	Hardn HB
CYLINDER*	105-04842	A106	0.21	0.18	0.42	0.02	0.01	0.26	-	0.28	000		430	270	38	-	175
PISTON	170415	FCD45	3.68	2.56	0.28	0.32	0.01	-	-	-	-	ANNEAL	457	312	13	-	168
BODY	170503	FCD45	3.61	2.51	0.34	0.04	0.01	-	-	-	-	ANNEAL	497	371	14	-	176
CAP	170706	FCD45	3.68	2.56	0.28	0.03	0.01	-	-	-	-	ANNEAL	463	332	13	-	168
SPRING CASE*	105-02006	A106	0.2	0.18	0.47	0.02	0	-	-	29	9 0.0	-	445	270	32	-	176
POSITION INDICATOR	160301054	304SS	0.073	0.62	1.57	0.04				6	-	SOLID SOLUTION	567	357	43	-	-
HEAD & BOTTOM FLANGES	170706	FCD45	3.68	2.56	0.28	0.03	0.0			-	-	ANNEAL	463	332	13	-	168

*+PTFE Lined

WE HEREBY CERTIFY, THAT THE MATERIAL AND THE PRODUCT DES D AL EEN TE D AND COMPLIED WITH THE TERMS OF THE ORDER

SIGNED: CONFIDENTIAL QA MANAGER: CONFIDENTIAL

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ACTUATOR DATA SHEET

ACKNOW NO. REV. 1 ITEM 11
QTY 10 CLIENT

Ambient temp. -20/+ 80 ^{0}C Mechanical Protection **IP65**
Norm. NAMUR Painting Spec: APV standard painting
Lable Language: ENGLISH Comp.Label: ENGLISH

Valve mark Type
Top mounting NAMUR
Spool piece type N/A Size/Class Medium
supply Fluid type

Actuator type: PNEUMATIC Model: GP14S-200SR5.5V-STC
Manual override N/A Series "GP"
Displ.(it)
Valve stem Cylinder axis

Oper.Time(sec) Open Close
Adjustable oper. Time
Min/Norm/Max Press. / / / 5.5Bar Supply fluid

Oper. Diagram NA Wiring diagram N/A

Press Regulator Setting Value Barg

Separate Junction Box NO Electric conn. Size

Limit switch box NO Maker
Type Protection
L/S maker Qty
Type Model
Electric conn. size

Air tank Initial charge pressure/final
Accord to Volume(it)
Strokes No.
Relief valve Setting value Barg

Valve/Actuator Torque Figure N.m Pr.Supply 5.5 Barg

Safety F	Valve	Actuator	Tag No.
Break to open 0^0		944	
Running to open 45^0		458	
End to open 90^0		582	
Break to close 90^0		940	
Running to close 45^0		455	
End to close 0^0		578	
M.A.S.T./M.O.T.		944	

Notes:

AUSTRALIAN PIPELINE VALVE®

ADELAIDE • BRISBANE • PERTH

PAINTING PROCEDURE PHI - .001 ACTUATOR

SH. 2 / 1
REV. 2

GENERAL SERVICE APPLICATION	Carbon steel and Ductile Iron surfaces
SCOPE	Standard industrial level protection against weathering, brackish water, etc. for petroleum plants, pipelines & refineries.
TEMPERATURE RESISTANCE	-20ºC ~ 150ºC
PRELIMINARY SURFACE PREPARATION	Blasting to Grade Sa 2.1/2 then cleaning with deg and washing with high pressure water at 100ºC, an drying in open air for 24 hours.
PROTECTION OF UNPAINTED PARTS	Protection with suitable plastic n and with sealing ta where applicable.
FINAL SURFACE PREPARATION	Machining to smoothn of ≤ 6,3 re applicabl Prepare all surfac prop ion of m by polishing a moving ater, oil or othe es.
PAINT APPLICATION	Spr ing wi d between co as per cturer on. Painting performed at 5 ~ ss tha midity. Allow at least 24 hours ats fo me. Dip coating allowed for some

NO. OF COATS	TYPE OF PRO	T E	FILM THICKNESS
Primer Coats Body (2 coats)	self curing primer	Zin ch Epoxy Polyamide	60 µm
Top Coats Body (2 oats)	crylic e	Resin	60 µm
TOTAL DRY F HICKN S:			120 µm

NOTE

Orange RAL2001. Application temperature, drying times and other physical data of painting as manufacturer specifications. Spring case is also tropicalised internally with grease.

Rev.	Date	Remarks	Issued by:
2	June 5th 2018	Third issue	GP

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