

FOR VALVE

Valid for products not subject to DNV GL classification requirements.

Particulars of Product

Product Name:	Ball, Butterfly, Gate, Globe, and Plug Valve
Type designation:	Ref. to attachement
Application/context:	As per witness certificates
ID/Serial/Tag no:	N.A.
The product is intended for:	Stock/Projects
Requirements are based on:	Fugitive Emission ISO 15848-1, ISO 15848-2, ISO 10497-2010, Cycle & Reliability Endurance test, API622- 2nd Edition 2011, Fire safe Tests API 607 6th Edition

Deviations and limitations, if any, are stated on page 2 onwards.

Particulars of Vendor and Purchaser

Vendor:	Global Supply Line Pty. Ltd.
Vendor reference:	
Purchaser:	
Purchaser reference:	

Issued at **New York** on **2016-07-29**



for **DNV GL**

This document has been digitally signed and will therefore not have handwritten signatures

Fu, Guoqiang
Surveyor

Except for any liability caused by DNV GL's gross negligence or wilful misconduct, DNV GL's maximum cumulative liability arising out of or related to the use of or reliance on this document shall be limited to USD 300 000.

Verification extent and result

Verification extent:

Witness fire tests fugitive emission tests and endurance tests on valves and actuators

Verification result/comments:

Refer to attached spread sheet and each DNVGL certificate.

Report

At the request of Global Supply Line Pty Ltd, DNVGL New York Office did attend Yarmouth Research and Technology in Maine, USA to witness the fire tests fugitive emission tests and endurance tests. The tests for selected size was witnessed by DNVGL surveyor, as we have mentioned on our survey reports.

Details refer to our survey reports (report number has been listed on attached spread sheet attached: Annex 1. Firesafe tests-001, Annex II Fugitive emission tests-002, Annex III- Valve and actuator endurance - reliability cycle test coverage-003 .)

Annex II FUGITIVE EMISSION TESTS-002

ITEM	MANUFACTURER	VALVE TYPE	MODEL RANGE TESTED	BODY	SEAT/ SEALS	PRODUCT DESCRIPTION	STANDARD	F.E. & TEMP CLASS	YARMOUTH CERTIFICATE NUMBER	DNV CERTIFICATE NUMBER	DATE OF TEST/ WITNESS	COVERAGE RANGE
2.31	AUSTRALIAN PIPELINE VALVE (APV)	BALL VALVE FLOATING C/W 'JC' SERIES APV-TORQTURN ACTUATOR	MODEL BV100 C/W JC SERIES TORQTURN ACTUATOR	CARBON STEEL	VITON/ GRAPHITE/ PTFE	BALL VALVE C/W JC SERIES QUARTER TURN R & P APV-TORQTURN ACTUATOR	ISO 15848-2 LEAKAGE CLASS 'CH', CYCLE TESTED SIMULATED LIFETIME CL.02 50 PPMv MAXIMUM ALLOWABLE LEAKAGE	ENDURANCE CLASS CO2, 3 THERMAL CYCLES (CLASS B) LEAKAGE CLASS "CH"	215066-2.3.1	N1414UNX	7/6/2015	800 TO 2500 CLASS UP TO 4"
2.1	AUSTRALIAN PIPELINE VALVE (APV)	BALL VALVE FLOATING C/W JA SERIES TORQTURN ACTUATOR	MODEL SLFSBV01 C/W JA SERIES TORQTURN ACTUATOR	CARBON STEEL	PTFE/ GRAPHITE	BALL VALVE C/W JA SERIES TORQTURN HEAVY DUTY QUARTER TURN PNEUMATIC SCOTCH YOKE ACTUATOR	ISO 15848-2 LEAKAGE CLASS 'CH' CYCLE TESTED SIMULATED LIFETIME CL.02 50 PPMv MAXIMUM ALLOWABLE LEAKAGE	ENDURANCE CLASS CO2, 3 THERMAL CYCLES (CLASS B) LEAKAGE CLASS "CH"	215066-2.1	N1414UNW	7/6/2015	150 TO 600 CLASS 1/2" TO 12"
2.3	AUSTRALIAN PIPELINE VALVE (APV)	BALL VALVE TRUNNION C/W A-SK SERIES TORQTURN ACTUATOR	MODEL BVF100 C/W ASK SERIES TORQTURN ACTUATOR	A105 CARBON STEEL	PTFE/ GRAPHITE/ VITON	BALL VALVE C/W ASK SERIES TORQTURN HEAVY DUTY QUARTER TURN PNEUMATIC SCOTCH YOKE ACTUATOR	ISO 15848-1 LEAKAGE CLASS 'CH', CYCLE TESTED SIMULATED LIFETIME CL.02 50 PPMv MAXIMUM ALLOWABLE LEAKAGE	ENDURANCE CLASS CO2, 3 THERMAL CYCLES (CLASS B) LEAKAGE CLASS "CH"	213104	NYK-14-7415-10	1/10/2014	150 TO 1500 CLASS 1" TO 20"
2.2	AUSTRALIAN PIPELINE VALVE (APV)	BALL VALVE TRUNNION C/W HD SERIES TORQTURN ACTUATOR	MODEL FS9000 C/W HD SERIES TORQTURN ACTUATOR	A216 WCB CARBON STEEL	PTFE/ GRAPHITE/ VITON	BALL VALVE C/W HD SERIES TORQTURN HEAVY DUTY QUARTER TURN PNEUMATIC SCOTCH YOKE ACTUATOR	API 622 2ND EDITION 2011 CYCLE TESTED 100 PPMv MAXIMUM ALLOWABLE LEAKAGE SIMULATED LIFETIME (DUAL CONFORMING ISO 15848-1 CL C03) LEAKAGE CLASS "CH"	77 (CLASS B) ENDURANCE 3 THERMAL CYCLES	213078	NYK-14-7415-10	1/20/2014	150 TO 600 CLASS 2" TO 20"
2.6	AUSTRALIAN PIPELINE VALVE (APV) - SUPERSEAL	BUTTERFLY VALVE HIGH PERFORMANCE	MODEL SLHBF-FS C/W JA SERIES TORQTURN ACTUATOR	A216 WCB CARBON STEEL	PTFE/ GRAPHITE	WAFER BUTTERFLY C/W JA SERIES HEAVY DUTY QUARTER TURN PNEUMATIC SCOTCH YOKE TORQTURN ACTUATOR	API 622 2ND EDITION 2011 CYCLE TESTED SIMULATED LIFETIME 100 PPMv MAXIMUM ALLOWABLE LEAKAGE (DUAL CONFORMING TO API 624 AND ISO 15848-1 CL C03) LEAKAGE CLASS "CH"	CL02 EQUIVELANT 3 THERMAL CYCLES	213078	NYK-14-7415-3	1/20/2014	150 TO 600 CLASS 2" TO 24"
2.32	AUSTRALIAN PIPELINE VALVE (APV)	GATE VALVE	MODEL GA1RAA8RN GATE VALVE BBOSY RF 150LB	CARBON STEEL	METAL/ GRAPHITE	40NB (1 1/2") CLASS 150 GATE VALVE GRAPHITE PACKING	ISO 15848-2 CL C03 LEAKAGE CLASS "CH" DUAL CONFORMING API 622 2ND EDITION AND API 624 2011 & CYCLE TESTED SIMULATED LIFETIME 50 PPMv MAXIMUM ALLOWABLE LEAKAGE	3 THERMAL CYCLES	215066-2.32	NYK-14-7415-10	5/25/2016	150 TO 1500 CLASS 1/2" TO 2 1/2"
2.4	AUSTRALIAN PIPELINE VALVE (APV)	GATE VALVE	MODEL P47XUF	A216 WCB CARBON STEEL	METAL/ GRAPHITE	GATE VALVE C/W APV-DIAMOND GEAR 107B GEARBOX	API 622 2ND EDITION 2011 & CYCLE TESTED SIMULATED LIFETIME 100 PPMv MAXIMUM ALLOWABLE LEAKAGE (DUAL CONFORMING TO API 624 AND ISO 15848-1 CL C03) LEAKAGE CLASS "CH"	T5 & T7 (CLASS B) ENDURANCE 3 THERMAL CYCLES	213078	NYK-14-7415-10	1/27/2014	150 TO 600 CLASS 2" TO 30"
2.4.1	AUSTRALIAN PIPELINE VALVE (APV)	GATE VALVE	MODEL P47LXUF	ASTM A351 CF8 STEEL	METAL/ GRAPHITE	150NB (6") CLASS 150 RF GATE VALVE (GRAPHITE PACKING) C/W APV-DIAMOND GEAR 107B GEARBOX	ISO 15848-2 LEAKAGE LEVEL 'CH' (CLASS C) 3 THERMAL CYCLES	ISO15848-2 CL02, 3 THERMAL CYCLES	215233-2.4.1	N1419FZ1	7/21/2015	150 TO 600 CLASS 2" TO 30"
2.5	AUSTRALIAN PIPELINE VALVE (APV)	GLOBE VALVE	MODEL P143XU	A216 WCB CARBON STEEL	METAL/ GRAPHITE	GLOBE VALVE	API622- 2ND EDITION 2011 ENDURANCE CYCLE TESTED SIMULATED LIFETIME 100 PPMv MAXIMUM ALLOWABLE LEAKAGE LEAKAGE CLASS "CH" (CLASS C) DUAL CONFORMING API 624	CL02 EQUIVELANT 3 THERMAL CYCLES	215233-2.5	N141673V	7/21/2015	150 TO 600 CLASS 2" TO 24"