



**Ghatage Patil Industries Limited**

Uchgaon, Tal -Karveer, Dist Kolhapur Maharashtra Pin - 416005

(EN 10204-3.1)

CERTIFICATE OF COMPLIANCE

VALVE SR.NO

:

137224

GHATAGE PATIL INDUSTRIES LTD. - VALVE DIVISION - UCHGAON, KOLHAPUR, MAHARASHTRA, INDIA - CERTIFIES THAT THE PRODUCT

VALVE TYPE : CX 295M 8RD DDNL-LU-1-2  
CUSTOMER PART NO. : 110026-L32144-AC0500-00000-A  
SERIAL NO. : 137224  
PURCHASE ORDER NO. : 0002906 - 1 & 3 , Dated May .11, 2012  
BUYER : OMNI VALVE

are manufactured and comply the technical specification

API 6A 20TH EDITION, OCTOBER 2010.

GPI Marking Spec. : 475 102 000

Product Code : 94531710

The Product Confirms to the following Requirements:

MATERIAL CLASS DD-NL  
MAX HARDNESS 235 HBW  
PR 2  
PSL 1  
TEMP CLASS L+U  
TRIM CS,CS,CS,TFE  
BODY ASTM A487-4C-60K  
BONNET AISI 4130-60K  
STEM AISI 4130-75K - NITRIDED + MOLYCOATED  
GATE MAJOR AISI 4130-75K - NITRIDED + MOLYCOATED  
GATE MINOR AISI 4130-75K - NITRIDED + MOLYCOATED  
SEAT 1 AISI 4130-75K - NITRIDED + MOLYCOATED  
SEAT 2 AISI 4130-75K - NITRIDED + MOLYCOATED  
STUD ASTM A320 L7M

MONTH OF MANUFACTURING : August 2012

DGM (QA)

CER0417



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CERTIFICATE OF PRESSURE TEST		VALVE SR.NO. : 137224			
TYPE OF VALVE	6A GATE VALVE				
MATERIAL CLASS	MAX HARDNESS	PR	PSL	TEMP CLASS	TRIM
DD-NL	235 HBW	2	1	L+U	CS,CS,CS,TFE
BODY,BONNET,EXPANDING GATE,NON RISING STEM.					
TEST	PRESSURE HOLDING PERIOD	TEST PARAMETERS MINIMUM		TEST RESULTS	
		PRESSURE (PSI)	DURATION (Min)		
HYDROSTATIC BODY TEST	Primary	7500	3	NO VISIBLE LEAKAGE UNDER TEST PRESSURE HOLD PERIOD.	
HYDROSTATIC BODY TEST.	Secondary	7500	3	NO VISIBLE LEAKAGE UNDER TEST PRESSURE HOLD PERIOD.	
HYDROSTATIC SEAT TEST (BOTH SIDE)	Primary	5000	3	NO VISIBLE LEAKAGE UNDER TEST PRESSURE HOLD PERIOD.	
HYDROSTATIC SEAT TEST (BOTH SIDE).	Secondary	5000	3	NO VISIBLE LEAKAGE UNDER TEST PRESSURE HOLD PERIOD.	
Pressure Test Methods	: AS PER ISO:10423:2009:MOD,& API 6A 20TH EDITION OCTOBER 2010				
Testing Fluid	: WATER WITH EMULSIFIED CUTTING OIL AS RUST PREVENTIVE.				
DRIFT TEST	The Drift mandrell pass through the valve bore .	Yes	No		
		X			



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MATERIAL CERTIFICATE VALVE SR.NO. : 137224

HEAT CODE OF VALVE PARTS							
BODY	BONNET	STEM	GATE MAJOR	GATE MINOR	SEAT 1	SEAT 2	STUD
12T176	PP70	DT57	JF116	B2A013	34GX12	34GX12	D-838

CHEMICAL COMPOSITION (%)											
HEATCD	MATERIAL	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Cu %	V %
12T176	ASTM A487-4C-60K	0.230	0.450	0.910	0.010	0.030	0.690	0.620	0.210	0.040	0.020
PP70	AISI 4130-60K	0.310	0.220	0.500	0.010	0.010	0.900	0.100	0.170	-	-
DT57	AISI 4130-75K	0.330	0.220	0.590	0.020	-	0.880	0.080	0.160	-	-
JF116	AISI 4130-75K	0.290	0.330	0.580	0.020	0.020	0.980	0.140	0.170	-	-
B2A013	AISI 4130-75K	0.300	0.180	0.540	0.010	0.010	1.060	0.050	0.160	-	-
34GX12	AISI 4130-75K	0.290	0.220	0.430	0.020	0.020	0.890	0.150	0.190	-	0.020
34GX12	AISI 4130-75K	0.290	0.220	0.430	0.020	0.020	0.890	0.150	0.190	-	0.020
D-838	ASTM A320 L7M	0.380	0.220	0.770	-	0.030	1.030	-	0.220	-	-

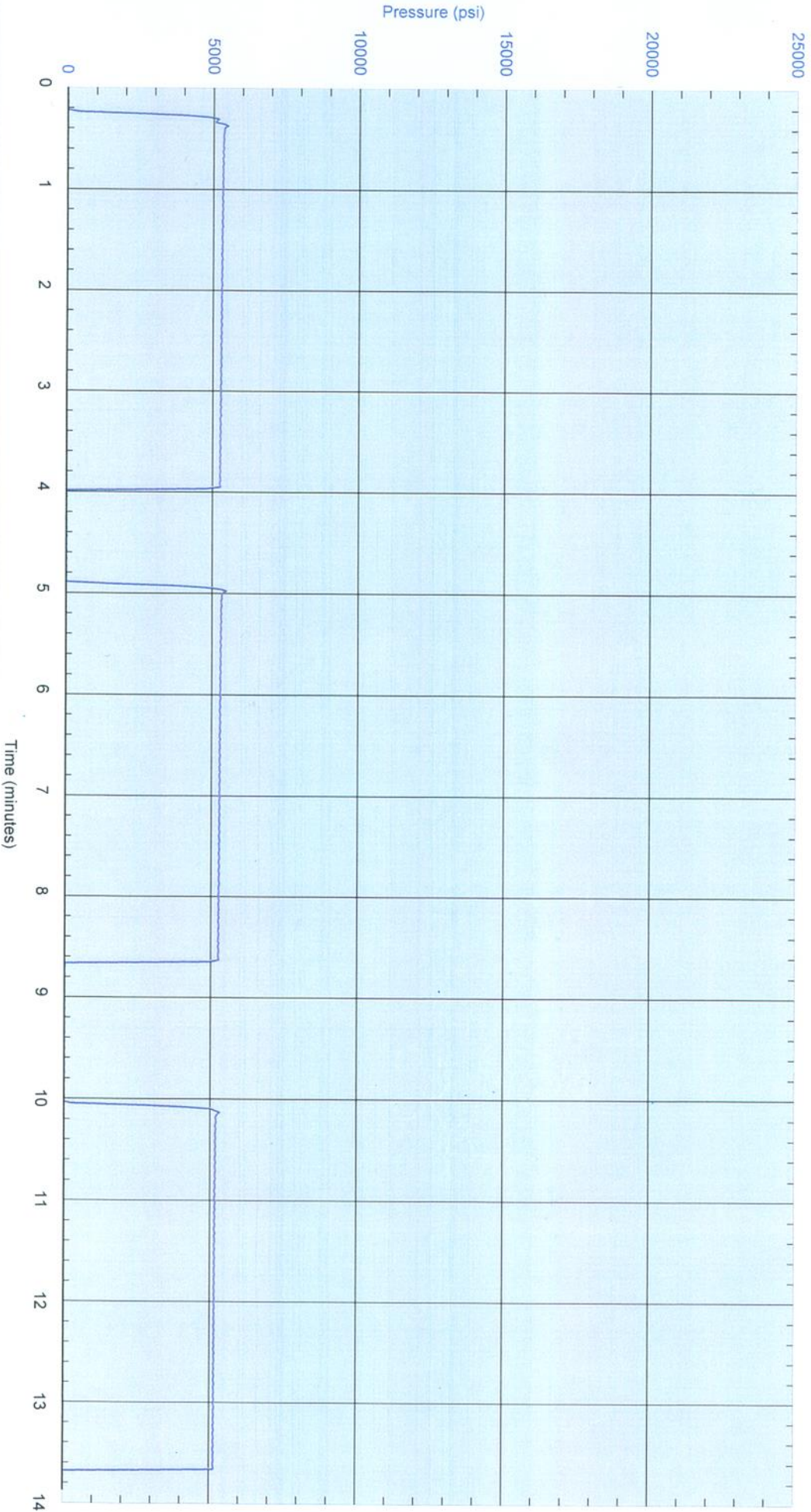
MECHANICAL PROPERTIES												
HEATCD	MATERIAL	PART	YIELD PSI	TENSILE PSI	ELONG %	REDU %	QTC HARDNESS HBW	IMPACT (J) VALUE 1	IMPACT (J) VALUE 2	IMPACT (J) VALUE 3	IMPACT TESTED AT (-)DEG.C	
12T176	ASTM A487-4C-60K	BODY	79178.000	99504.000	23.000	51.560	200.000	46.000	52.000	55.000	-46.000	
PP70	AISI 4130-60K	BONNET	78997.000	95382.000	26.640	69.380	217.000	86.000	96.000	100.000	-46.000	
DT57	AISI 4130-75K	STEM	111817.000	127118.000	20.720	61.730	212.000	84.000	94.000	92.000	-	
JF116	AISI 4130-75K	GATE MAJOR	82429.000	101625.000	21.200	66.750	235.000	35.000	37.000	45.000	-	
B2A013	AISI 4130-75K	GATE MINOR	89481.740	110502.600	24.630	71.600	217.000	180.000	190.000	200.000	-	
34GX12	AISI 4130-75K	SEAT 1	76727.000	96992.000	25.270	46.250	212.000	35.000	47.000	52.000	-46.000	
34GX12	AISI 4130-75K	SEAT 2	76727.000	96992.000	25.270	46.250	212.000	35.000	47.000	52.000	-46.000	
D-838	ASTM A320 L7M	STUD	97398.000	119337.000	20.000	64.950	215.000	62.000	60.000	54.000	-72.000	

MATERIAL CERTIFICATE VALVE SR.NO. : 137224

H.T PERFORMED IN ACCORDING WITH ROUTING SHEET	HEATING TEMP. (DEG.C)		HOLDING PERIOD. (Min.)		TYPE	QUENCH BATH TEMP Deg.C		
	SET	EFFECTIVE	SET	EFFECTIVE		BEFORE	AFTER	
BODY								
NORMALISING	925 +/-	5	920	3 Hrs.	3 Hrs.	Air	-	-
QUENCHING	875 +/-	5	880	3 Hrs.	3 Hrs.	Water	35	45
TEMPERING 1	675 +/-	5	680	3 Hrs.	3 Hrs.	Air	-	-

Shelf life of Elastomer is five years when stored properly

Caliber Energy Systems  
2 9/16" Omni Threaded Gate Valve  
S/N: CER-0417



Date: July 29, 2019 02:00:47 PM  
Work Order #: 97114  
Tested By: Keith McIsaac