



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

CER0417

MONTH OF MANUFACTURING : August 2012

DGM (QA)



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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.

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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)			IMPACT TESTED AT (-)DEG.C
								VALUE 1	VALUE 2	VALUE 3	
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)

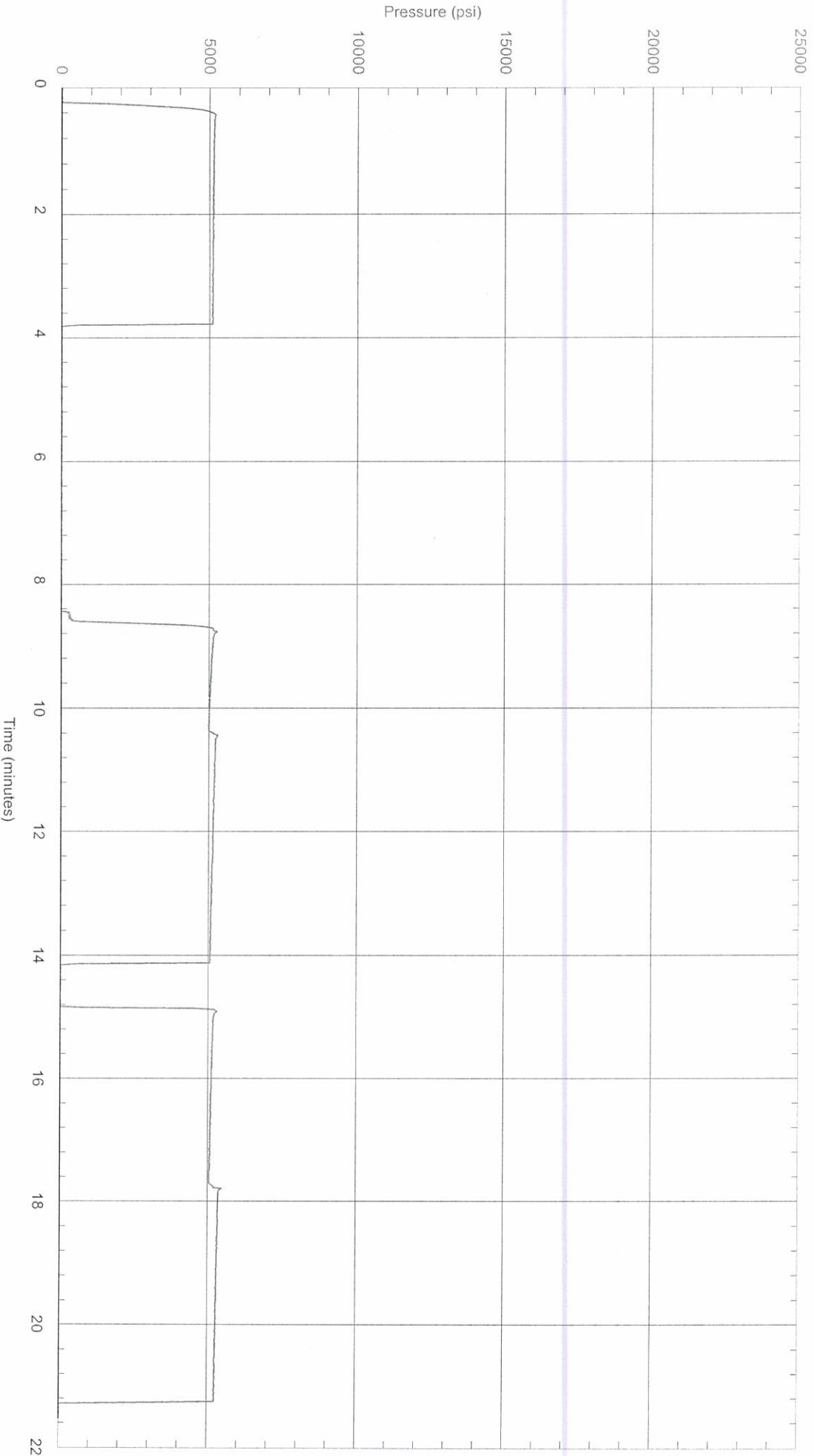
HOLDING PERIOD.
(Min.)

QUENCH BATH TEMP
Deg.C

	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" Barton Threaded Gate Valve



Date: April 04, 2014 01:02:48 PM
W/O 34482
S/N CER-0417
Test Unit: Chart 4
Tested By: Frank