



Ghatage Patil Industries Limited

Uchgaon, Tal -Karveer, Dist Kolhapur Maharashtra Pin - 416005
(EN 10204-3.1)

CERTIFICATE OF COMPLIANCE

VALVE SR.NO

:

137912

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. : 137912
PURCHASE ORDER NO. : 0002906 - 1 & 3 , Dated May .11, 2012
BUYER : OMNI VALVE

CER0415

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 : September 2012

DGM (QA)



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CERTIFICATE OF PRESSURE TEST		VALVE SR.NO.		:		137912
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.	:	137912
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HEAT CODE OF VALVE PARTS

BODY	BONNET	STEM	GATE MAJOR	GATE MINOR	SEAT 1	SEAT 2	STUD
12V106	PP70	DT57	B1L007	JF116	123E12	123E12	DT-BS-2

CHEMICAL COMPOSITION (%)

HEATCD	MATERIAL	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Cu %	V %
12V106	ASTM A487-4C-60K	0.230	0.480	0.930	0.010	0.030	0.630	0.650	0.220	0.030	0.010
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	-	-
B1L007	AISI 4130-75K	0.310	0.240	0.530	0.010	0.010	1.090	0.120	0.150	-	-
JF116	AISI 4130-75K	0.290	0.330	0.580	0.020	0.020	0.980	0.140	0.170	-	-
123E12	AISI 4130-75K	0.290	0.220	0.430	0.020	0.020	0.890	0.150	0.190	-	0.020
123E12	AISI 4130-75K	0.290	0.220	0.430	0.020	0.020	0.890	0.150	0.190	-	0.020
DT-BS-2	ASTM A320 L7M	0.410	0.210	0.820	0.040	0.030	0.900	-	0.150	-	-

MECHANICAL PROPERTIES

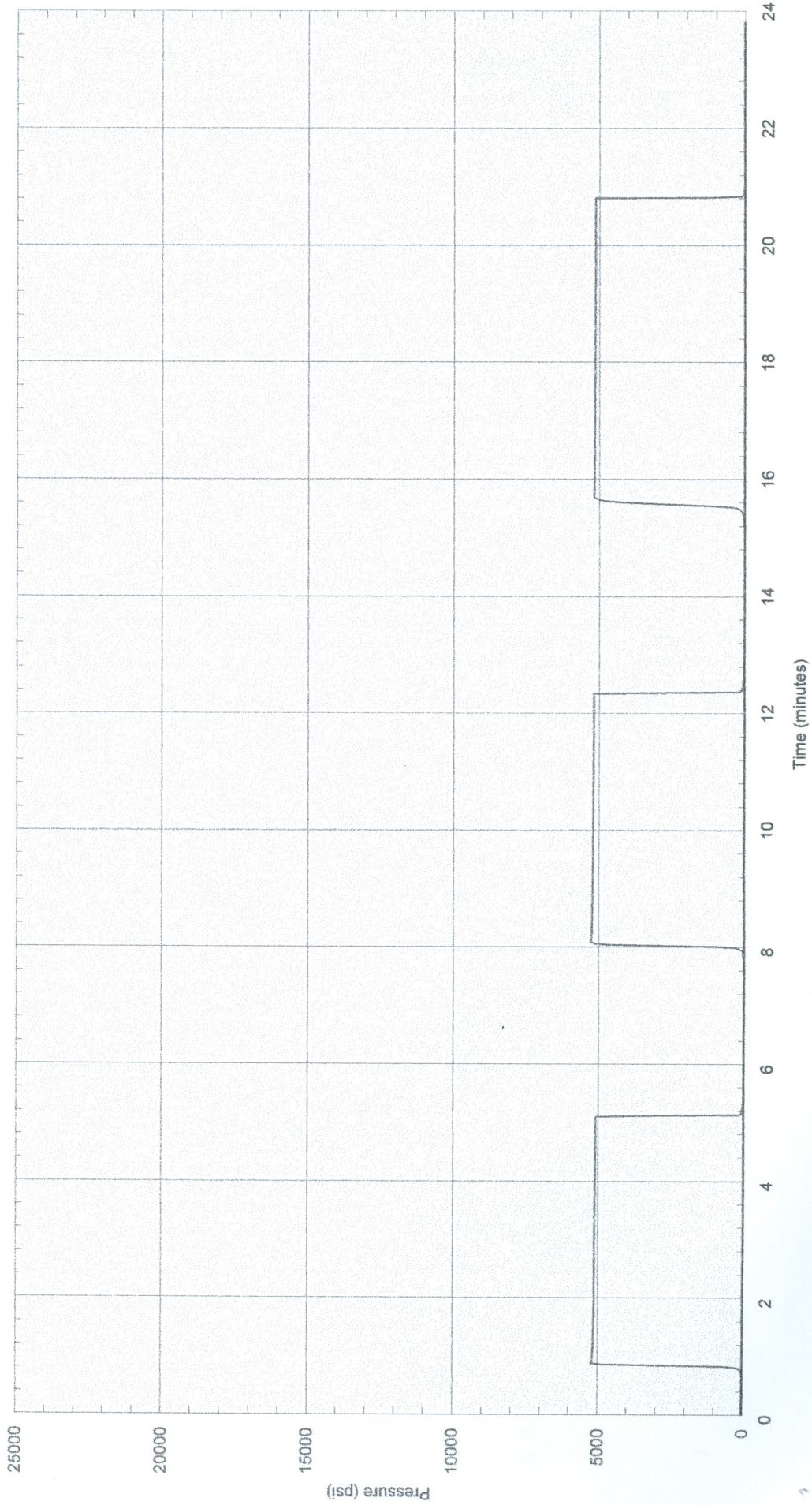
HEATCD	MATERIAL	PART	YIELD PSI	TENSILE PSI	ELONG %	REDU %	QTC HARDNESS HBW	IMPACT (J) VALUE 1	IMPACT (J) VALUE 2	IMPACT (J) VALUE 3	IMPACT TESTED AT (-)DEG.C
12V106	ASTM A487-4C-60K	BODY	75368.000	98839.000	22.400	50.590	221.000	38.000	40.000	45.000	-46.000
PP70	AISI 4130-60K	BONNET	78997.000	95382.000	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	-
B1L007	AISI 4130-75K	GATE MAJOR	86276.000	103419.000	27.170	71.670	217.000	180.000	190.000	200.000	-
JF116	AISI 4130-75K	GATE MINOR	82429.000	101625.000	21.200	66.750	235.000	35.000	37.000	45.000	-
123E12	AISI 4130-75K	SEAT 1	76727.000	96992.000	25.270	46.250	212.000	35.000	47.000	52.000	-46.000
123E12	AISI 4130-75K	SEAT 2	76727.000	96992.000	25.270	46.250	212.000	35.000	47.000	52.000	-46.000
DT-BS-2	ASTM A320 L7M	STUD	91796.000	103416.000	20.800	64.650	222.000	60.000	78.000	72.000	-72.000

MATERIAL CERTIFICATE	VALVE SR.NO.	:	137912
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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 Barton Threaded Gate Valve



Date: March 20, 2013 03:57:27 PM

Work Order #: 82788

Serial #: CER - 0403

Chart #: Chart 4

By: Frank