





 HEAD OFFICE AND PLANT Via G. Mazzini, 6 24060 S. Paolo D'Argon (BG) - ITALY Tel +39.035.4255211 - Fax +39.035.959210 Internet: www.lv.it - E-mail: info@lv.it FORGED STEEL VALVES Cod. Fisc. e P.IVA 03076750169 - Cap. Soc. € 8.000.000,00 I.V. Registro Imprese BG 03076750169 - R.E.A. 347477 VAT Registration Number: IT 03076750169 Soggetta all'art. 6 del D.Lgs. n. 286/1998 art. 1 Reg. BG n° 0280528/169		INSPECTION CERTIFICATE according to <input checked="" type="checkbox"/> UNI EN 10204 - 3.1 B <input type="checkbox"/>		CERTIFICATE N° C 040791-005/01 Page No. 001 / 001																																																																																																																																																																																																																	
TEST PROCEDURE & SPECIFICATION <input checked="" type="checkbox"/> API 598 <input checked="" type="checkbox"/> ANSI/ASME B 16.34 <input type="checkbox"/> <input checked="" type="checkbox"/> MSS SP.61 <input checked="" type="checkbox"/> BS 6755 <input type="checkbox"/> <input checked="" type="checkbox"/> DIN 3230 T.3 <input type="checkbox"/>		CUSTOMER SIEKMANN ECONOSTO GMBH & CO. KG FREIGRAFENWEG 2 D-44357 DORTMUND (D)																																																																																																																																																																																																																			
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ITEM 5 QTY 300		DESCRIPTION GLOBE VALVE OS#Y BB FB FL DIN DN25 " C22.8/1.4006"/INT+13Cr PN40 FORM B1 4B SK 215 FORM B1																																																																																																																																																																																																																			
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NOTES * HARD FACING OVERLAY: AWS R Co Cr A (STELLITE GR. 6) MATERIAL ACCORDING TO AD2000-MERKBLATT A4 V15046 V15081 V15082 V15083 V15085 V15088 V43080 V81008 V82011 V82021 V82033 V82041 V82053 V84033 V84034 V84092 V84093 V87020 V87021 V87060 V87061 V87062 V87063 V87064 V88083 V88084 V88085 V88086 V88087 V88088 V88089 V88090 V90081 V90082 V90083 V90085		We declare that this product has been manufactured in accordance with the "Sound Engineering Practice" as per European Directive 97/23/EC - PED Article 3.3.		EACH SINGLE COMPONENT OF THE VALVE WHICH IS MENTIONED IN THIS CERTIFICATE HAS BEEN MANUFACTURED, TESTED AND TESTED FULLY IN ACCORDANCE WITH ITS OWN MATERIAL SPECIFICATION AS ABOVE INDICATED - THE REPORTED VALUES ARE STRICTLY IN ACCORDANCE WITH THE ORIGINAL MILL CERTIFICATES																																																																																																																																																																																																																	
COMPONENT PART NAME MATERIAL HEAT NR BONNET DIN 17243 (1.0460) C22.8 B-CUO 131373 BOLTS EN 10269 (1.7709) 21CrMoV 5.7 006235 STEM EN 10272 (1.4006) X12Cr13 239019 DISC EN 10272 (1.4006) X12Cr13 072041 BODY DIN 17243 (1.0460) C22.8 B-DCC 141200 BONNET DIN 17243 (1.0460) C22.8 B-AFR 29642885		CHEMICAL ANALYSIS <table border="1"> <tr> <th>C</th> <th>Mn</th> <th>Si</th> <th>S</th> <th>P</th> <th>Cr</th> <th>Mo</th> <th>Ni</th> <th>Ti</th> <th>Cu</th> <th>Fe</th> <th>MILL #</th> </tr> <tr> <td>Al</td> <td>Co</td> <td>N</td> <td>V</td> <td>Nb</td> <td>Sn</td> <td>CE</td> <td>Nb+Ta</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		C	Mn	Si	S	P	Cr	Mo	Ni	Ti	Cu	Fe	MILL #	Al	Co	N	V	Nb	Sn	CE	Nb+Ta					MECHANICAL PROPERTIES, IMPACT TESTS <table border="1"> <tr> <th>TENSILE</th> <th>Yield</th> <th>ELONGATION</th> <th>RED. OF AREA</th> <th>1 JOULE</th> <th>2 JOULE</th> <th>3 JOULE</th> <th>TEST TEMP.</th> <th>HARDNESS</th> </tr> <tr> <th>N/mm²</th> <th>N/mm²</th> <th>%</th> <th>%</th> <th></th> <th></th> <th></th> <th>°C</th> <th>HRC</th> </tr> <tr> <td>0.181</td> <td>0.848</td> <td>0.199</td> <td>0.003</td> <td>0.006</td> <td>0.085</td> <td>0.023</td> <td>0.139</td> <td>0.238</td> </tr> <tr> <td>0.023</td> <td></td> <td></td> <td>0.001</td> <td>0.001</td> <td>0.015</td> <td>0.370</td> <td></td> <td>0.006</td> </tr> <tr> <td>507.00</td> <td>348.00</td> <td>27.75</td> <td>86.94</td> <td></td> <td></td> <td></td> <td></td> <td>157.00</td> </tr> <tr> <td>0.220</td> <td>0.570</td> <td>0.290</td> <td>0.004</td> <td>0.005</td> <td>1.300</td> <td>0.710</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>0.280</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>787.00</td> <td>715.00</td> <td>18.70</td> <td>68.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.111</td> <td>0.390</td> <td>0.480</td> <td>0.022</td> <td>0.016</td> <td>12.140</td> <td>0.340</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>710.00</td> <td>655.00</td> <td>20.00</td> <td>68.00</td> <td></td> <td></td> <td></td> <td></td> <td>216.00</td> </tr> <tr> <td>0.105</td> <td>0.570</td> <td>0.330</td> <td>0.020</td> <td>0.018</td> <td>12.250</td> <td>0.030</td> <td>0.250</td> <td>0.070</td> </tr> <tr> <td>0.005</td> <td></td> <td>0.052</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>688.00</td> <td>481.00</td> <td>22.20</td> <td>72.10</td> <td></td> <td></td> <td></td> <td></td> <td>222.00</td> </tr> <tr> <td>0.207</td> <td>0.842</td> <td>0.230</td> <td>0.001</td> <td>0.006</td> <td>0.099</td> <td>0.025</td> <td>0.145</td> <td>0.267</td> </tr> <tr> <td>0.035</td> <td></td> <td></td> <td>0.001</td> <td>0.002</td> <td>0.021</td> <td>0.383</td> <td>0.010</td> <td></td> </tr> <tr> <td>509.00</td> <td>357.00</td> <td>27.40</td> <td>55.11</td> <td>112</td> <td>120</td> <td>118</td> <td>-20.00</td> <td>161.00</td> </tr> <tr> <td>0.181</td> <td>0.890</td> <td>0.257</td> <td>0.007</td> <td>0.011</td> <td>0.030</td> <td>0.002</td> <td>0.020</td> <td>0.060</td> </tr> <tr> <td>0.031</td> <td></td> <td></td> <td>0.002</td> <td>0.001</td> <td>0.004</td> <td></td> <td></td> <td></td> </tr> <tr> <td>480.60</td> <td>313.50</td> <td>28.40</td> <td>68.40</td> <td>173</td> <td>177</td> <td>170</td> <td>20.00</td> <td>129.00</td> </tr> </table>		TENSILE	Yield	ELONGATION	RED. OF AREA	1 JOULE	2 JOULE	3 JOULE	TEST TEMP.	HARDNESS	N/mm ²	N/mm ²	%	%				°C	HRC	0.181	0.848	0.199	0.003	0.006	0.085	0.023	0.139	0.238	0.023			0.001	0.001	0.015	0.370		0.006	507.00	348.00	27.75	86.94					157.00	0.220	0.570	0.290	0.004	0.005	1.300	0.710						0.280						787.00	715.00	18.70	68.00						0.111	0.390	0.480	0.022	0.016	12.140	0.340												710.00	655.00	20.00	68.00					216.00	0.105	0.570	0.330	0.020	0.018	12.250	0.030	0.250	0.070	0.005		0.052							688.00	481.00	22.20	72.10					222.00	0.207	0.842	0.230	0.001	0.006	0.099	0.025	0.145	0.267	0.035			0.001	0.002	0.021	0.383	0.010		509.00	357.00	27.40	55.11	112	120	118	-20.00	161.00	0.181	0.890	0.257	0.007	0.011	0.030	0.002	0.020	0.060	0.031			0.002	0.001	0.004				480.60	313.50	28.40	68.40	173	177	170	20.00	129.00	THIRD AUTHORITY CLIENT INSPECTION DEPT DATE		DATE 19/11/2004	
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