



Material & Test Certificates Valves

Client : Lurgi Oel und Gas Chemie GmbH
Lurgi-Order-No. : 4569245
Siekmann-Order-No. : 9035636

CERTIFICATE-NO.: 0010-1

Lurgi-Item-No.	Lurgi-I.D.	Quantity	Page	Remarks
10	S362	1		

Siekmann Econosto GmbH&Co.KG



QM Meinold Oestreich

If you need any Spare Parts or
technical support please contact:

Siekmann Econosto GmbH & Co. KG
P.O. Box 150440, D-44344 Dortmund
Freigrafenweg 2, D-44357 Dortmund
Germany

Tel.: 0049 - 231 937 50
Fax : 0049 - 231 937 5188
E-mail: info@siekmann-econosto.de
Web: www.siekmann-econosto.de

 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER		CERTIFICATE acc. to EN 10204 - 3.1.B.	CERT No.: SVR-3254-01
			REV.:
			DATE: 22/04/05

CONFORMITY AND GUARANTEE TEST CERTIFICATE

CLIENT: **SIEKMANN** P.O. No.: **9006221OP** LURGI ITEM: **00010** SERIAL No.:
 LURGI Ref.: **4569245-000/1.69690/136** V.E. Ref.: **10005-4019Add.1**
 SVR Ref.: **OF-3254** LURGI IDENT.NO: **S 362** QUANTITY: **1**
 FIGURE NO.: **1.600 RF** DESCRIPTION: **6" -600 Lbs.** ENDS: FLANGE (X)
GATE VALVE BUTT WELD ()

DESIGN AND TEST ACCORDING TO:

API 600	X	API 598	X	BS 6755 Part. 1 rate B	DIN 3230 - 3	MSS - SP 82	NACE MR 0175	X
OTHERS:								

TYPE OF TEST	SHELL & PACKING 100%	SEAT (WATER) 100%HP	BACKSEAT (WATER) 100% HP	SEAT (AIR) LP
DURATION (Sec)	60	60	60	60
PRESSURE (Kg/cm ²)	150	110	110	4-7
RESULT	SATISFACTORY	SATISFACTORY	SATISFACTORY	SATISFACTORY
MANOMETER SERIAL.: SVR-1098				

V.R. SPECIALTY VALVES RESEARCH, S.A. certifies that all valves described above are in compliance with purchase order and specification requirements. This test report represents the actual attributes of the valves furnished and the test results are in compliance with the applicable specification and purchase order requirements.

TEST REPORT EN 10204 - 3.1.B.

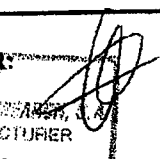
BODY & BONNET	ASTM A 216 WCB		
WEDGE	ASTM A 216 WCB + STL Overlay		
BODY RING	ASTM A 105 + STL Overlay		
STEM	ASTM A 182 F6		
PACKING	GRAPHITE		
GASKET	SPW F304 + GRAPHITE		
BOLTING	A 193 B7 / A 194 Gr.2H		

V.R. SPECIALTY VALVES RESEARCH, S.A. certifies that the above items are in full compliance with the listed material specifications and all purchase order requirements, giving a guarantee of the products against any fabrication defects for a period of 12 months from expedition date.

DIMENSIONAL EXAMINATION: ACCEPTABLE	VISUAL EXAMINATION: MSS SP 55 ACCEPTABLE	MARKING: MSS SP 25 ACCEPTABLE
-------------------------------------	--	-------------------------------

FOUNDRY MILL CERTIFICATE NUMBERS

BODY, BONNET, & WEDGE: S0001

QUALITY CONTROL MANAGER:  SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER 22 ABR 2005 QA/QC Department	CLIENT'S INSPECTOR:
--	---------------------

 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER	MATERIAL CERTIFICATES CERTIFICADO DE INSPECCION s/ INSPECTION CERTIFICATE Acc. To		Nº/Nr.: S0001 FECHA: DATE: 10/03/05
	Cliente/Cient.: VALVES ENTREPRISE LAS MERCEDES NO. 23 - 6º EDIFICIO ABRA NO.1 48930 LAS ARENAS -BIZKAIA-		Pedido Nº Purchase Order: P-10005-4019 Add.1 Cantidad: Quantity: 3
	Anagrama del Fabricante / sello del Inspector: Manufacturer's Logo / Inspector stamp:		

TRATAMIENTO TERMICO HEAT TREATMENT	Normalizado: ☒	Normalizado+Revenido: ☐	Templado+Revenido: ☐	Solubilización: ☐
	Normalized:	Normalized+Tempered	Quenched+Tempered:	Solution:

H.T. CONDICION CONDITION T.T.	NORMALIZED 980 °C x 3H	MODO DE FUSION: INDUCTION MELTING TYPE OF MELTING:
--	------------------------	---

DENOMINACION DE LA PIEZA: CASTING DENOMINATION:	Gate Body	6" - 600 Lbs	Heat No.:	LK920
	Gate Bonnet	6" - 600 Lbs	Heat No.:	Y998
	Gate Wedge	6" - 600 Lbs	Heat No.:	Y993

CALIDAD DE ACERO: STEEL QUALITY:	ASTM A 216 WCB	CONDICIONES DE ENTREGA: TERMS OF DELIVERY:	NACE MR 01-75:00
---	----------------	---	------------------

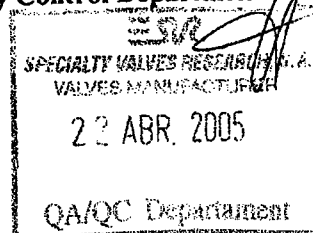
ANÁLISIS QUÍMICO - CHEMICAL ANALYSIS											Nº de Piezas Ner. Pieces	Peso kgs. Weight
COLADA HEAT No.	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V		
Solicitado (Norma) Requirements (max)	0.30	0.60	1.00	0.040	0.045	0.50	0.50	0.20	0.30	0.03		
LK920	0.19	0.32	0.68	0.017	0.020	0.05	0.018	0.014	0.011	0.001	1	
Y998	0.20	0.35	0.77	0.019	0.021	0.06	0.018	0.015	0.017	0.001	1	
Y993	0.18	0.34	0.81	0.020	0.022	0.06	0.190	0.019	0.012	0.001	1	

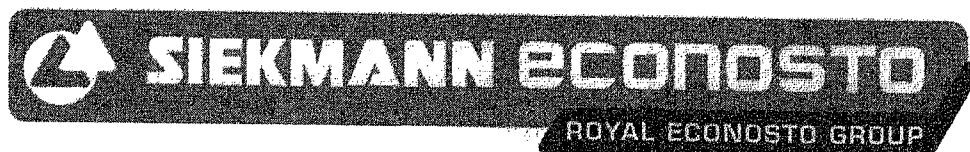
PROPIEDADES MECANICAS / MECHANICAL PROPERTIES Acc. To ASTM A 370										
COLADA HEAT No.	Probeta Test Sample	Diametro (mm) Diameter Ø	L. Elástico Yield Point N/mm²	Resistencia Tensile Str. N/mm²	Alargamiento Elongation %	Estricción Red. of Area %	Dureza Hardness HIB	Resiliencia Impact Test (ISO V Prob) J; T 20 °C		
Solicitado Requirements	Lo = 4D	12.5	250	485-655	22	35	232	27 J		
LK920	Lo = 4D	12.5	285	490	29	39	149	43	44	45
y998	Lo = 4D	12.5	285	485	28	38	150	42	41	40
y993	Lo = 4D	12.5	290	500	25	37	151	37	34	33
Insp. Visual y C. Dimensional Visual Insp. And Dimens check		Ensayo Magnaflux Magnaflux test		Insp. Por Gammagrafia Gainmagraphic Inspection		Ensayo de Presión Pressure Test		Insp. Por Ultrasonidos Ultrasonic Test		
S/ MSS-SP-55		Satisfactory								

Certificamos que el material descrito aquí ha sido ensayado y cumple con los requisitos solicitados por el cliente. Los resultados arriba indicados son fiel reflejo de los certificados 3.1.B. correspondientes s/ EN 10204, que obran en nuestro poder, emitidos por los suministradores homologados.

We hereby certify that the material described above, has been tested and complies to the material requirements of the purchase order. The results above indicated are exact transcription from the corresponding 3.1.B. certificates acc. to EN 10204, which are field in our factory, emitted by our homologated suppliers.

Quality Control Department





Material & Test Certificates Valves

Client : Lurgi Oel und Gas Chemie GmbH
Lurgi-Order-No. : 4569245
Siekmann-Order-No. : 8035636

CERTIFICATE-NO.: 0020-1

Lurgi-Item-No.	Lurgi-I.D.	Quantity	Page	Remarks
20	S421	1		

Siekmann Econosto GmbH & Co. KG

QM Meinold Oestreich

If you need any Spare Parts or
technical support please contact:

Siekmann Econosto GmbH & Co. KG
P.O. Box 150440, D-44344 Dortmund
Freigrafenweg 2, D-44357 Dortmund
Germany

Tel.: 0049 - 231 937 50
Fax : 0049 - 231 937 5188
E-mail: info@siekmann-econosto.de
Web: www.siekmann-econosto.de

 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER		CERTIFICATE acc. to	CERT No.: SVR-3254-02
		EN 10204 - 3.1.B.	REV.:
			DATE: 22/04/05

CONFORMITY AND GUARANTEE TEST CERTIFICATE

CLIENT: **SIEKMANN** P.O. No.: **9006221OP** LURGI ITEM: **00020** SERIAL No.:
LURGI Ref.: **4569245-000/1.69690/136** V.E. Ref.: **10005-4019Add.1**
SVR Ref.: **OF-3254** LURGI IDENT.NO: **S 421** QUANTITY: **1**
FIGURE NO.: **1.900 BW** DESCRIPTION: **6" -900 Lbs.** ENDS: **FLANGE ()**
GATE VALVE **BUTT WELD (X)**

DESIGN AND TEST ACCORDING TO:

API 600	X	API 598	X	BS 6755 Part. 1 rate B	DIN 3230 - 3	MSS - SP 82	NACE MR 0175	X
OTHERS :								

TYPE OF TEST	SHELL & PACKING 100%	SEAT (WATER) 100% HP	BACKSEAT (WATER) 100% HP	SEAT (AIR) LP
DURATION (Sec)	60	60	60	60
PRESSURE (Kg/cm ²)	225	165	165	4-7
RESULT	SATISFACTORY	SATISFACTORY	SATISFACTORY	SATISFACTORY
MANOMETER SERIAL: SVR-1098				

V.R. SPECIALTY VALVES RESEARCH, S.A. certifies that all valves described above are in compliance with purchase order and specification requirements. This test report represents the actual attributes of the valves furnished and the test results are in compliance with the applicable specification and purchase order requirements.

TEST REPORT EN 10204 - 3.1.B.

BODY & BONNET	ASTM A 217 WC6		
WEDGE	ASTM A 217 WC6 + STL Overlay		
BODY RING	ASTM A 182 F304 + STL Overlay		
STEM	ASTM A 182 F304		
PACKING	GRAPHITE		
GASKET	SPW F304 + GRAPHITE		
BOLTING	A 193 B16 / A 194 Gr.4		

V.R. SPECIALTY VALVES RESEARCH, S.A. certifies that the above items are in full compliance with the listed material specifications and all purchase order requirements, giving a guarantee of the products against any fabrication defects for a period of 12 months from expedition date.

DIMENSIONAL EXAMINATION: ACCEPTABLE	VISUAL EXAMINATION: MSS SP 55 ACCEPTABLE	MARKING: MSS SP 25 ACCEPTABLE
--	---	--------------------------------------

FOUNDRY MILL CERTIFICATE NUMBERSBODY, BONNET, & WEDGE: **S0002**

QUALITY CONTROL MANAGER:

SPECIALTY VALVES RESEARCH, S.A.
VALVES MANUFACTURER

22 ABR. 2005

QA/QC Department

CLIENT'S INSPECTOR:

 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER	MATERIAL CERTIFICATES CERTIFICADO DE INSPECCION s/ INSPECTION CERTIFICATE Acc. To		N°/Nr.: S0002 FECHA: DATE: 10/03/05

Cliente/Cient.: VALVES ENTREPRISE LAS MERCEDES NO. 23 - 6° EDIFICIO ABRA NO.1 48930 LAS ARENAS -BIZKAIA-	Pedido N° Purchase Order: P-10005-4019 Add.1 Cantidad: Quantity: 3
Anagrama del Fabricante / sello del Inspector: Manufacturer's Logo / Inspector stamp: 	

TRATAMIENTO TERMICO HEAT TREATMENT	Normalizado: ☐ Normalized:	Normalizado+Revenido ☒ Normalized+Tempered	Templado+Revenido: ☐ Quenched+Tempered:	Solubilización: ☐ Solution:
---------------------------------------	--	---	---	---

H.T. CONDICION CONDITION T.T.	NORMALIZED 980 °C x 3H+Tempered630 °C	MODO DE FUSION: INDUCTION MELTING TYPE OF MELTING:
----------------------------------	---------------------------------------	--

DENOMINACION DE LA PIEZA: CASTING DENOMINATION:	Gate Body	6" - 900 Lbs	Heat No.:	K53117
	Gate Bonnet	6" - 900 Lbs	Heat No.:	K53117
	Gate Wedge	6" - 900 Lbs	Heat No.:	K53117

CALIDAD DE ACERO: STEEL QUALITY:	ASTM A 217 WC6	CONDICIONES DE ENTREGA: TERMS OF DELIVERY:	NACE MR 01-75:00
-------------------------------------	----------------	---	------------------

ANÁLISIS QUÍMICO - CHEMICAL ANALYSIS											N° de Piezas Ner. Picces	Peso kgs. Weight
COLADA HEAT No.	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	W		
Solicitado (Norma) Requirements (max)	0.05- 0.20	0.60	0.50- 0.80	0.040	0.045	1.00- 1.50	0.50	0.45- 0.65	0.50	0.10	3	
K53117	0.16	0.42	0.65	0.021	0.025	1.15	0.026	0.48	0.025	0.001		

PROPIEDADES MECANICAS / MECHANICAL PROPERTIES Acc. To ASTM A 370										
COLADA HEAT No.	Probeta Test Sample	Diametro (mm) Diameter Ø	L. Elástico Yield Point N/mm²	Resistencia Tensile Str. N/mm²	Alargamiento Elongation %	Estricción Red. of Area %	Dureza Hardness HB	Resiliencia Impact Test (ISO V Prob) J: T 20 °C		
Solicitado Requirements	Lo = 4D	12.5	275	485-655	20	35	232	27 J		
K53117	Lo = 4D	12.5	280	525	22	40	165	36	34	35
Insp. Visual y C. Dimensional Visual Insp. And Dimens check		Ensayo Magnaflux Magnaflux test		Insp. Por Gammagrafia Gammagraphic Inspection		Ensayo de Presión Pressure Test		Insp. Por Ultrasonidos Ultrasonic Test		
S/ MSS-SP-55		Satisfactory								

Certificamos que el material descrito aquí ha sido ensayado y cumple con los requisitos solicitados por el cliente. Los resultados arriba indicados son fiel reflejo de los certificados 3.1.B correspondientes s/ EN 10204, que obran en nuestro poder, emitidos por los suministradores homologados.

We hereby certify that the material described above, has been tested and complies to the material requirements of the purchase order. The results above indicated are exact transcription from the corresponding 3.1.B. certificates acc. to EN 10204, which are field in our factory, emitted by our homologated suppliers.

Quality Control Department
SPECIALTY VALVES RESEARCH, S.A.
VALVES MANUFACTURER

22 ABR 2005

QA/QC Department



ADDRESS:	ARETXALDE, 150 48196 LEZAMA -BIZKAIA- (SPAIN)
PHONE:	+ (34) 94. 455. 51. 51
FAX:	+ (34) 94. 455. 51. 50
WEBB:	www.svrvalves.com
E-mail:	webmaster@svrvalves.com

RADIOGRAPHIC EXAMINATION REPORT FOR CASTINGS

Page: 1 / 2

Procedure:	ASME B 16.34	Report No.:	S0002
------------	--------------	-------------	-------

Customer :	VALVES ENTREPRISE, S.L.	Contract:	P-10005-4019 Add.1
Description :	GATE BODY	Extension of Test:	BW-ENDS
Drawing :	900LB 6"	Radiographed at:	Shop: ☒ Field: ☐
Material :	WC6 Heat Number: K53117		

Material :	WCB	Heat Number :	
X Rays KV :	7 RAYS	Isotope :	IR 192
Film Type, Brand and Size :	AGFA C7,360x80	Curies :	50
Screens Type and Thickness :	Pb,0.05/0.20	Focal Spot Size :	2x2
Density :	1.5-4.0	IQT :	ASTM B
Source Film Distance :	450MM	Material Thickness :	Thickness + 2
		Exposure Time :	1 min - 30 seg

Evaluation standard for steel castings radiographic examination (See Back)		Acceptance Standard	
Sketch of geometric arrangement of radiographs and location markers in attached form		ASME B 16.34	

[illegible]

Certificamos que el material descrito aquí ha sido ensayado y cumple con los requisitos solicitados por el cliente. Los resultados arriba indicados son fiel reflejo de los certificados correspondientes, que abran en nuestro poder, emitidos por los suministradores homologados.

We hereby certify that material described above, have been tested and complies to the material requirements of the purchase order. The results above indicated are exact transcription from the corresponding certificates, which are filed in our factory, emitted by homologated suppliers.

SPECIALTY VALVES RESEARCH, INC.
VALVES MANUFACTURER
22 ABR. 2005
QA/QC Department

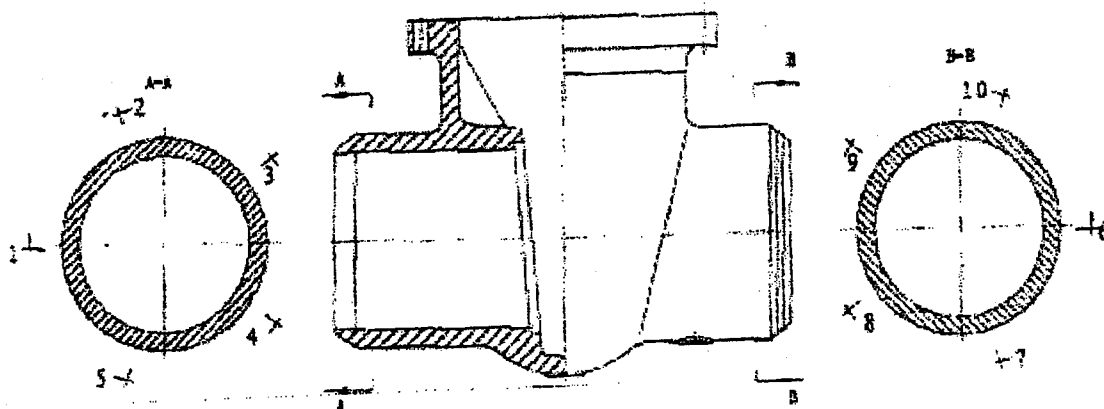
 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER	ADDRESS:	ARETXALDE, 150 48196 LEZAMA -BIZKAIA- (SPAIN)
	PHONE:	+ (34) 94. 455. 51. 51
	FAX:	+ (34) 94. 455. 51. 50
	WEBB:	www.svrvalves.com
	E-mail:	webmaster@svrvalves.com

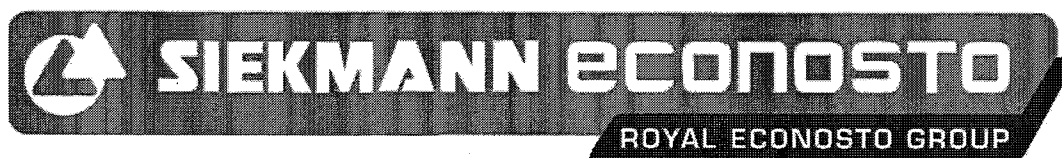
RADIOGRAPHIC MAP

Page: 2 / 2

Procedure:	ASME B 16.34	Heat:	K53117
Customer:	VALVES ENTREPRISE, S.L.	Part No:	S0002
Contract:	P-10005-4019 Add.1	Descriptions:	GATE BODY
Drawing:	900LB 6"		

Radiography No.	Type and Size of Film	Thickness	Source	I.Q.I.	Focus-Film Distance	Density	Back Shielding
R1-R11	AGFA C7	Thickness + 2	IR 192	ASTM B	450MM	1.5-4.0	Pb
*****	*****	*****	*****	*****	*****	*****	*****
*****	*****	*****	*****	*****	*****	*****	*****





Material & Test Certificates Valves

Client : Lurgi Oel und Gas Chemie GmbH
Lurgi-Order-No. : 4569245
Siekmann-Order-No.: 8035636

CERTIFICATE-NO.: 30-1

Lurgi-Item-No.	Lurgi-I.D.	Quantity	Page	Remarks
30	S485	1	2-4	

Siekmann Econosto GmbH & Co. KG

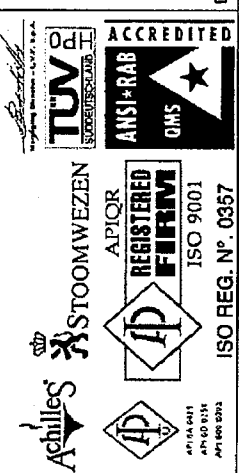
QM Meinold Oestreich

If you need any Spare Parts or
technical support please contact:

Siekmann Econosto GmbH & Co. KG
P.O. Box 150440, D-44344 Dortmund
Freigrafenweg 2, D-44357 Dortmund
Germany

Tel.: 0049 - 231 937 50
Fax : 0049 - 231 937 5188
E-mail: info@siekmann-econosto.de
Web: www.siekmann-econosto.de

INSPECTION CERTIFICATE according to		CERTIFICATE	
☒ UNI EN 10204 - 3.1 B ☐		N° C 046601-001/01 Page No. 001 / 001	
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.lvi.it - E-mail: info@lvi.it FORGED STEEL VALVES		CUSTOMER STIEKMANN ECONOSTO GMBH & CO. KG FREIGRAFENWEG 2 D-44357 DORTMUND ()	
TEST PROCEDURE & SPECIFICATION ☒ API 598 ☐ ANSI/ASME B 16.34 ☒ MSS SP.61 ☐ BS 6755 ☐ DIN 2520 T.3 ☐ EN 12286-1			
COMPONENT PART NAME MATERIAL HEAT CODE HEAT NR BONNET A182 F22 Cl.3 R-M36 65333 NUT A194 gr.4 61366 B/B STUDS A193 B16 B06995 STEM A479 Tp410 445022 WEDGE A479 Tp410 440021 SEAT A479 Tp410 502003 BODY A182 F22 Cl.3 IPG 2150434		CHEMICAL ANALYSIS C Mn Si S P Nb Cr Mo Ni Nb+Ta Ti Cu Fe AL CO N V Nb CE MECHANICAL PROPERTIES IMPACT TESTS TENSILE YIELD ELONGATION RED. 3 JOULE 2 JOULE 3 JOULE N/mm ² N/mm ² % N/mm ² % N/mm ² % 0.122 0.433 0.172 0.014 0.010 2.146 0.927 0.117 0.000 0.018 0.000 557.00 424.00 26.40 72.00 0.000 0.430 0.820 0.280 0.013 0.011 0.230 195.00 0.366 0.520 0.260 0.001 0.005 0.880 0.500 0.015 0.262 934.00 842.00 19.70 63.80 273.00 0.106 0.460 0.420 0.023 0.019 12.080 0.340 0.108 713.00 562.00 22.00 71.00 216.00 0.109 0.430 0.400 0.025 0.017 12.180 0.360 693.00 550.00 24.00 74.00 210.00 0.107 0.450 0.220 0.020 0.023 12.240 0.410 663.00 506.00 26.00 75.00 200.00 0.113 0.510 0.270 0.002 0.014 2.220 0.940 535.00 386.00 34.60 77.00 165.00	
OUR JOB N° POSITION Q.TY 046601 001 1 YOUR P.O. N° 90056440P/ZAGROS II -LURGI-			
ITEM: 1 DESCRIPTION GATE VALVE OS#Y BB FB 2" F22/F6* 1500 LBS BW160 15B 108 BW160 sc.368 flex			
TAG : S 485 - 00030 Serial Number:			
TEST PRESSURES ☒ BAR ☐ PSI HYDROSTATIC PNEUM. BODY & SEAT BACKSEAT 390 285 6		TEST RESULT TEST HYDROSTATIC AND PNEUMATIC VISUAL AND DIMENSIONAL TEST ☒ CONFORM ☐ NOT CONFORM ☒ CONFORM ☐ NOT CONFORM	
NOTES * HARD FACING OVERLAY: AWS R Co Cr A (STELLITE GR. 6)		We declare that this product is in compliance with the directive 97/23/EC and was subjected to the conformity assessment procedure H (for Category III). The monitoring is performed by TÜV Italy srl Notified Body 0948. - EACH SINGLE COMPONENT OF THE VALVE WHICH IS MENTIONED IN THIS CERTIFICATE HAS BEEN MANUFACTURED, HEAT TREATED 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 THIRD AUTHORITY CLIENT INSPECTION DEPT INSPECTION DEPT. DATE DATE DATE 11/05/2005	





ULTRASONIC TEST REPORT

RAPPORTO ESAME ULTRASUONI

Mod. UTR Rev. B

Certificate n. 046601 / 001

GENERAL INFORMATION – INFORMAZIONI GENERALI

Customer Cliente	SIEKMANN ECONOSTO GMBH & CO.		
P. Order Ordine	9005644OP ZAGROS II -LURGI-	Position/s Posizione/i	1
LVE Job Commessa LVE	046601	Item/s Item/s	001
Quantity Quantità	1	TAG TAG	S 485 – 00030
Test subject Oggetto di esame	BODY – BONNET	Material(s) Materiale(i)	ASTM A182 F22
Test apparatus Apparecchiatura di prova	RP 3000	Manufacturer Costruttore	Sirio
Couplant Accoppiante	Gel	Specification Specificazione	LVE Procedure CQ 30

SURFACE CONDITIONS – CONDIZIONI SUPERFICIALI

☐ As welded Come saldato	☐ Sand blasted Sabbato	☐ Ground Molato	☐ Machined Lavorato di macchina	☒ Forged Forgiato
--	--	---	---	--

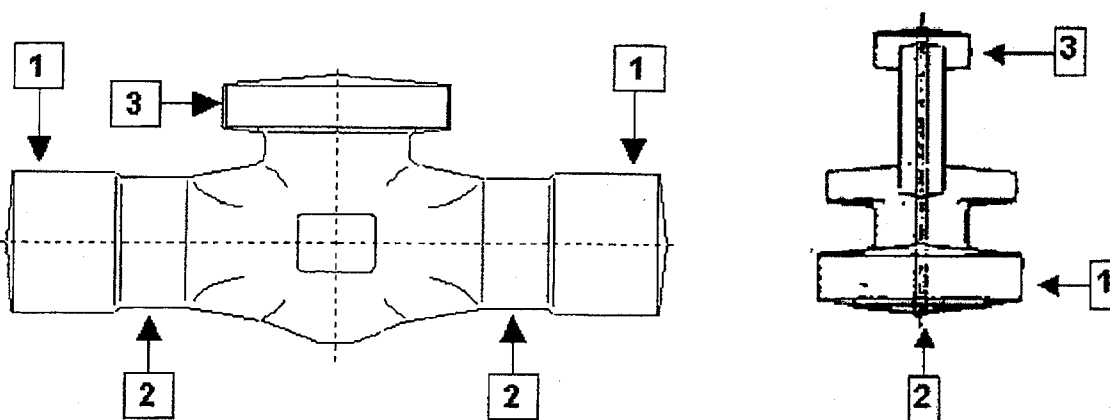
TECHNIQUE – TECNICA

☒ DAC Diagram Diagramma DAC	☐ AVG Scale Scala AVG	☐ Ref. point echo Eco di riferimento	☐ Back reflection Riflesso di fondo	☐
--	---	--	---	--------------------------

TRANSDUCERS – SONDE

Model Modello	Frequency Frequenza	Type Tipo	Manufacturer Costruttore	Position Posizione
MSEB4H	4 MHz	Straight beam	Gilardoni	1 – 2 – 3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

SKETCH OF EXAMINATION ZONE – SCHIZZO DELLA ZONA D'ESAME



EXAMINATION RESULT AND SIGNATURE – ESITO DELL'ESAME E FIRME

Date of execution Data di esecuzione	26/04/2005	Result Risultato	☒ Satisfactory Soddisfacente	☐ Unsatisfactory Non soddisfacente
Remarks Note				

Inspection Authority
Ente Ispettivo

Customer Inspector
Ispettore Cliente

Quality Control Operator
Operatore Controllo qualità

LVE S.p.A.
LEVEL II NDE
[Signature]


DATA SHEET FOR MAGNETIC PARTICLE EXAMINATION
 SCHEDA DI CONTROLLO ESAME CON PARTICELLE MAGNETICHE

Mod. MPR Rev. B

MPR n. 046601/001

GENERAL INFORMATION – INFORMAZIONI GENERALI

Customer Cliente	SIEKMANN ECONOSTO GMBH & CO.		
P. Order Ordine	9005644OP ZAGROS II -LURGI-	Item/s Item/s	1
LVF Job Commessa LVF	046601	Position/s Posizione/i	001
Test subject Oggetto di esame	BODY - BONNET		
Quantity Quantità	1	TAG TAG	S 485 - 00030
Material(s) Materiale(i)	ASTM A182 F22		
Reference Specification Specifica di riferimento	LVF CQ 15 - ASME/ANSI B 16.34 Annex C		
Manufacturing stage Stadio di fabbricazione	AFTER MACHINED		
Date of execution Data di esecuzione	03/05/2005		

SURFACE CONDITIONS – CONDIZIONI SUPERFICIALI

☐ As welded Come saldato	☐ Sand blasted Sabbato	☐ Ground Molato	☒ Machined Lavorato di macchina	☒ Forged Forgiato
--	--	---	--	--

MAGNETIZATION TECHNIQUE – TECNICA DI MAGNETIZZAZIONE

☐ Yoke Giogo	☐ Longitudinal Longitudinale	☐ Circular (direct contact) Circolare (contatto diretto)	☒ Multidirectional Multidirezionale
Current Corrente	220V 50Hz	Current Corrente	HW Rectified AC
Poles Spacing Distanza poli	100÷150mm	Ampere-turns Ampere spire	Ampere Ampere
			1700
			Ampere-turns Ampere spire
			17000

EXAMINATION MEDIUM – MEZZO DI ISPEZIONE

Method Metodo	☒ Wet method ☐ Dry method			
Manufacturer Produttore	☒ CGM	☐ METAL-CEK	☐ NDT	☐
Pre-cleaner Pulitore	Not necessary – Non necessario			
Trade Name Marca	R2.60 VELNET	MET-L-CHECK NPU	DR 61	
Particles' type Tipo di particelle	Fluorescent (suspension in water) – Florescente (sospensione in acqua)			
Trade Name Marca	PAD 755/50	FW1	DRY GR	
Equipment Apparecchiatura	HORIZ. UNIT CGM MAGISCOP CEMSA FOS 600 SN 10599			

EXAMINATION RESULT – ESITO DELL'ESAME

☒ Satisfactory Soddisfacente	☐ Unsatisfactory Non soddisfacente
Remarks Note	Field adequacy verified by ASME M.P. field indicator according to ASME V art. 7 T-727

SIGNATURE – FIRME

Inspection Authority Ente Ispettivo	Customer Inspector Ispettore Cliente	Quality Control Operator Operatore Controllo qualità
		LVF S.p.A. LEVILAUDE Mazzoleni G.