



Material & Test Certificates Valves

Client : Lurgi Oel und Gas Chemie GmbH
Lurgi-Order-No. : 4568444
Siekmann-Order-No.: 8035036

CERTIFICATE-NO.: 010-1

Lurgi-Item-No.	Lurgi-I.D.	Pieces	Remarks
010	10SPP057	1	Key Lock

Date 21.03.05
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
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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: 04/02/05

CONFORMITY AND GUARANTEE TEST CERTIFICATE

CLIENT: SIKMANN	P.O. No.: 9005009OP	LURGI ITEM: 00010	SERIAL No.:
LURGI Ref.: 4568444-000/1.69690/136	V.E. Ref.: 10005-4019		
SVR Ref.: OF-3254	LURGI IDENT.NO: 10SPP057	QUANTITY: 1	
FIGURE NO.: 1.900 BW	DESCRIPTION: 12" -900 Lbs.	ENDS: FLANGE ()	
	GATE VALVE	BUTT WELD (X)	

DESIGN AND TEST ACCORDING TO:

API 600	☒	API 598	☒	BS 6755 Part. 1 rate B		DIN 3230 - 3		MSS - SP 82		NACE MR 0175	
OTHERS : B16.25 B16.10											

TYPE OF TEST	SHELL & PACKING 100%	SEAT (WATER) 100% HP	BACKSEAT (WATER) 100% HP	SEAT (AIR) LP
DURATION (Sec)	120	120	60	120
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.

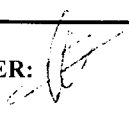
BODY & BONNET	ASTM A 217 WC6		
WEDGE	ASTM A 217 WC6 + STL Overlay		
BODY RING	ASTM A 182 F304 + STL Overlay		
STEM	ASTM A 182 F304		
PACKING	GRAPHITE		
GASKET	SPW 304 + GRAPHITE		
BOLTING	A 193 B16 / A 194 Gr.4		

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
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FOUNDRY MILL CERTIFICATE NUMBERS

BODY, BONNET, & WEDGE: W6324

QUALITY CONTROL MANAGER: 	CLIENT'S INSPECTOR:
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SPECIALTY VALVES RESEARCH, S.A.
VALVES MANUFACTURER

MATERIAL CERTIFICATES
CERTIFICADO DE INSPECCION s/
INSPECTION CERTIFICATE Acc. To

Nº/Nr.: W6324

FECHA:

DATE: 17/12/04

Cliente/Cliet.:

VALVES ENTREPRISE
LAS MERCEDES NO. 23 - 6º
EDIFICIO ABRA NO.1
48930 LAS ARENAS -BIZKAIA-

Pedido Nº

Purchase Order: **P-10005-4019**

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 + Tempered 630°C

MODO DE FUSION:

INDUCTION MELTING

TYPE OF MELTING:

DENOMINACION DE LA PIEZA:
CASTING DENOMINATION:

Gate Body

12" - 900 Lbs

Heat No.:

K43050

Gate Bonnet

12" - 900 Lbs

Heat No.:

K43050

Gate Wedge

12" - 900 Lbs

Heat No.:

K43050

CALIDAD DE ACERO:
STEEL QUALITY:

ASTM A 217 WC6

CONDICIONES DE ENTREGA:
TERMS OF DELIVERY:

NACE MR 01-75:00

ANÁLISIS QUÍMICO - CHEMICAL ANALYSIS

COLADA HEAT No.	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	W		Nº de Piezas Ner. Pieces	Peso kgs. Weight
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	
K43050	0.19	0.38	0.59	0.021	0.017	1.47	0.014	0.55	0.014	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		
K43050	Lo = 4D	12.5	360	570	24	39	157	40	44	35
Insp. Visual y C. Dimensional Visual Insp. And Dimens check		Ensayo Magnaflux Magnaflux test		Insp. Por Gammagrafia Gamma-graphic 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	ADDRESS:	ARETXALDE, 150 48196 LEZAMA -BIZKAIA- (SPAIN)
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	WEBB:	www.svrvalves.com
	E-mail:	webmaster@svrvalves.com

RADIOGRAPHIC EXAMINATION REPORT FOR CASTINGS

Procedure:	ASME B 16.34	Report No.:	W6324
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Page: 1 / 2

Customer :	VALVES ENTREPRISE, S.L.	Contract:	P-10005-4019
Description :	GATE BODY	Extension of Test:	BW-ENDS
Drawing :	900LB 12"	Radiographed at:	Shop: ☒ Field: ☐
Material :	WC6 Heat Number: K43050		

X Rays KV	Γ RAYS	Isotope :	IR 192	Curies:	40	Focal Spot Size:	3x3
Film Type, Brand and Size :	KODAK AA400,355x100			IQI:	ASTM IC.16		
Screens Type and Thickness :	Pb,0.05/0.20			Material Thickness:	50-55		
Density :	1.5-4.0	Source Film Distance :	450MM	Exposure Time:	5 min - 5 min 30		

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

Identification	Interval	Viewing	Evaluation	Observed Defects							
				Porosity	Sand	Shrinkage	Cracks	Hot Tears	Others	Superf.	Accepted
R1	1-2		II	/	/	/	/	/	/	I	OK
R2	2-3		II	/	/	/	/	/	/	II	OK
R3	3-4		II	/	/	/	/	/	/	I	OK
R4	4-5		II	/	/	/	/	/	/	I	OK
R5	5-1		II	/	/	/	/	/	/	I	OK
R6	6-7		II	/	/	/	/	/	/	I	OK
R7	7-8		II	/	/	CA2	/	/	/	II	OK
R8	8-9		II	/	/	/	/	/	/	I	OK
R9	9-10		II	/	/	/	/	/	/	I	OK
R10	10-6		II	/	/	/	/	/	/	I	OK
R11	11-12		II	/	/	/	/	/	/	I	OK
R12	12-13		II	/	/	/	/	/	/	I	OK
R13	13-14		II	/	/	/	/	/	/	I	OK
R14	14-15		II	/	/	/	/	/	/	I	OK
R15	15-11		II	/	/	/	/	/	/	I	OK
R16	16		II	/	/	CB3	/	/	/	III	OK
R17	17		II	/	/	/	/	/	/	I	OK
R18	18		II	/	B2	/	/	/	/	II	OK
R19	19		II	/	/	/	/	/	/	I	OK
R20	20		II	/	/	CB2	/	/	/	II	OK
R21	21		II	/	/	/	/	/	/	I	OK

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 field in our factory. emitted by homologated suppliers.

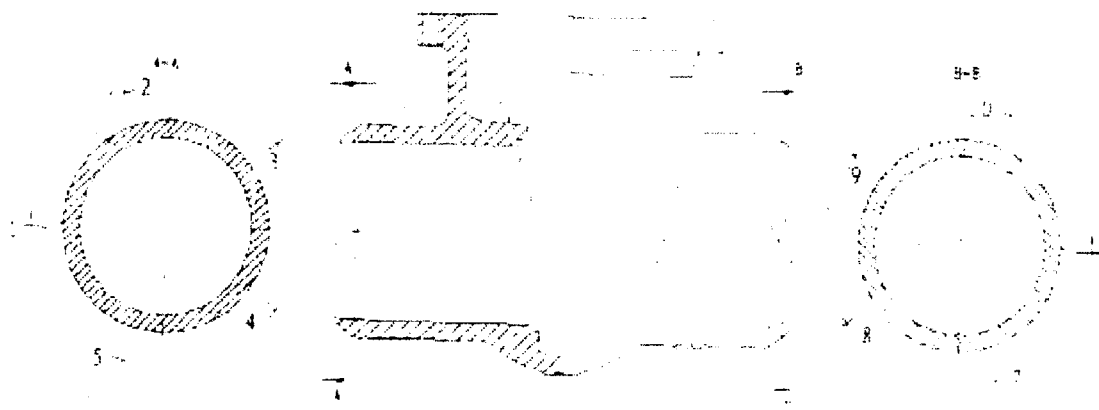
 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER	ADDRESS:	ARETXALDE, 150 48196 LEZAMA -BIZKAIA- (SPAIN)
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	E-mail:	webmaster@svrvalves.com

RADIOGRAPHIC MAP

Page: 2 / 2

Procedure: ASME B 16.34			
Customer: VALVES ENTREPRISE, S.L.		Heat:	K43050
Contract P-10005-4019		Part No.	W6324
Drawing: 90OLB 12"		Descriptions:	GATE BODY

Radiografy No.	Type and Size of Film	Thickness	Source	I.Q.I.	Focus-Film Distance	Density	Back Shielding
R1-R21	KODAK AA400	50-55	IR 192	ASTM 1C.1E	450MM	1.5-4.0	Pb
*****	*****	*****	*****	*****	*****	*****	*****
*****	*****	*****	*****	*****	*****	*****	*****





Material & Test Certificates Valves

Client : Lurgi Oel und Gas Chemie GmbH
Lurgi-Order-No. : 4568444
Siekmann-Order-No.: 8035036

CERTIFICATE-NO.: 020-1

Lurgi-Item-No.	Lurgi-I.D.	Pieces	Remarks
020	10SPP052	1	Key Lock

Date 21.03.05
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-3254-02

REV.:

DATE: 04/02/05

CONFORMITY AND GUARANTEE TEST CERTIFICATE

CLIENT: **SIKMANN** P.O. No.: **9005009OP** LURGI ITEM:: **00020** SERIAL No.:
LURGI Ref.: **4568444-000/1.69690/136** V.E. Ref.: **10005-4019**
SVR Ref.: **OF-3254** LURGI IDENT.NO: **10SPPO52** QUANTITY: **1**
FIGURE NO.: **1.900 BW** DESCRIPTION: **16" -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
OTHERS : B16.25 B16.10							

TYPE OF TEST	SHELL & PACKING 100%	SEAT (WATER) 100%HP	BACKSEAT (WATER) 100% HP	SEAT (AIR) LP
DURATION (Sec)	300	120	60	120
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 304 + 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
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FOUNDRY MILL CERTIFICATE NUMBERS

BODY, BONNET, & WEDGE: **W6325**

QUALITY CONTROL MANAGER:	CLIENT'S INSPECTOR:
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SPECIALTY VALVES RESEARCH, S.A.
VALVES MANUFACTURER

MATERIAL CERTIFICATES
CERTIFICADO DE INSPECCION s/
INSPECTION CERTIFICATE Acc. To

N°/Nr.: W6325

FECHA:

DATE: 17/12/04

Cliente/Cliet.:

VALVES ENTREPRISE
LAS MERCEDES NO. 23 - 6°
EDIFICIO ABRA NO.1
48930 LAS ARENAS -BIZKAIA-

Pedido N°

Purchase Order: P-10005-4019

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 + Tempered 630°C

MODO DE FUSION:

INDUCTION MELTING

TYPE OF MELTING:

DENOMINACION DE LA PIEZA:
CASTING DENOMINATION:

Gate Body

16" - 900 Lbs

Heat No.:

K43051

Gate Bonnet

16" - 900 Lbs

Heat No.:

K43051

Gate Wedge

16" - 900 Lbs

Heat No.:

K43051

CALIDAD DE ACERO:
STEEL QUALITY:

ASTM A 217 WC6

CONDICIONES DE ENTREGA:
TERMS OF DELIVERY:

NACE MR 01-75:00

ANÁLISIS QUÍMICO - CHEMICAL ANALYSIS

COLADA HEAT No.	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	W		N° de Piezas Ncr. Pieces	Peso kgs. Weight
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	
K43051	0.18	0.33	0.64	0.018	0.019	1.36	0.019	0.52	0.019	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		
K43051	Lo = 4D	12.5	285	490	22	40	152	38	35	32
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.

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Quality Control Department

04 FEB 10

 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER	ADDRESS:	ARETXALDE, 150 48196 LEZAMA -BIZKAIA- (SPAIN)
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	E-mail:	webmaster@svrvalves.com

RADIOGRAPHIC EXAMINATION REPORT FOR CASTINGS

Procedure:	ASME B 16.34	Report No.:	W6325
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Page: 1 / 2

Customer :	VALVES ENTREPRISE, S.L.	Contract:	P-10005-4019
Description :	GATE BODY	Extension of Test:	BW-ENDS
Drawing :	900LB 16"	Radiographed at:	Shop: ☒ Field: ☐
Material :	WC6 Heat Number: K43051		

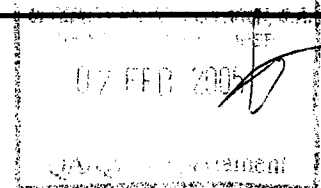
X Rays KV	7 RAYS	Isotope :	IR 192	Curies:	40	Focal Spot Size:	3x3
Film Type, Brand and Size :	KODAK AA400,360x100			IQT:	ASTM 1C.16		
Screens Type and Thickness :	Pb,0.05/0.20			Material Thickness:	55-80		
Density :	1.5-4.0	Source Film Distance :	450MM	Exposure Time:	6 min - 30 s		

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

Identification	Interval	Viewing	Evaluation	Observed Defects								Superf.	Accepted
				Porosity	Sand	Shrinkage	Cracks	Hot Tears	Others				
R1	1-2		II	/	/	/	/	/	/			I	OK
R2	2-3		II	/	/	CA1	/	/	/			I	OK
R3	3-4		II	/	/	/	/	/	/			I	OK
R4	4-5		II	/	/	/	/	/	/			I	OK
R5	5-1		II	/	/	/	/	/	/			I	OK
R6	6-7		II	/	/	/	/	/	/			I	OK
R7	7-8		II	/	/	/	/	/	/			I	OK
R8	8-9		II	/	/	/	/	/	/			I	OK
R9	9-10		II	/	/	/	/	/	/			I	OK
R10	10-6		II	/	/	/	/	/	/			I	OK
R11	11		II	/	B3	/	/	/	/			III	OK
R12	12		II	/	/	CA2	/	/	/			II	OK
R13	13		II	A1	/	/	/	/	/			I	OK
R14	14		II	/	/	/	/	/	/			I	OK
R15	15		II	/	/	CA1	/	/	/			I	OK
R16	16		II	/	/	CA2	/	/	/			II	OK
R17	17-18		II	/	B3	/	/	/	/			III	OK
R18	18-19		II	/	/	/	/	/	/			I	OK
R19	19-20		II	/	/	/	/	/	/			I	OK
R20	20-21		II	/	/	/	/	/	/			I	OK
R21	21-22		II	/	/	/	/	/	/			I	OK
R22	22-17		II	/	/	CA1	/	/	/			I	OK

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.

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are exact transcription from the corresponding certificates, which are filed in our factory, emitted by homologated suppliers.

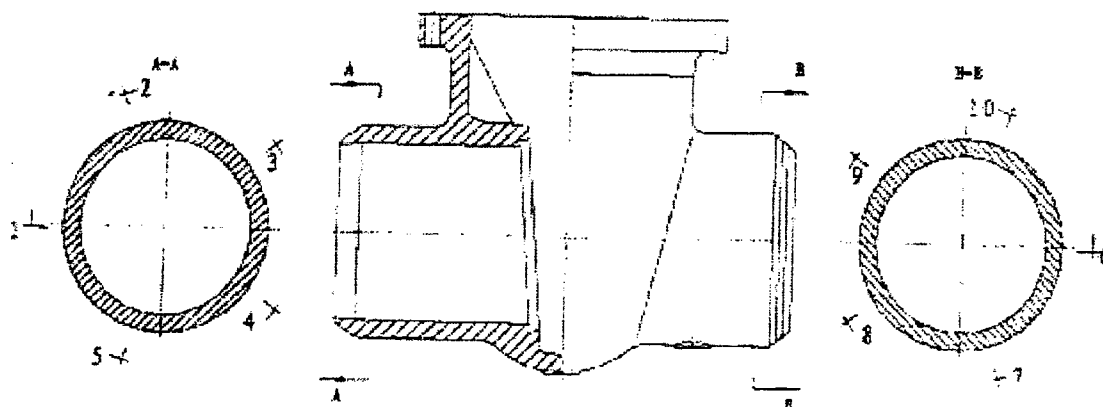
 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER	ADDRESS:	ARETXALDE, 150 48196 LEZAMA -BIZKAIA- (SPAIN)
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	FAX:	+ (34) 94. 455. 51. 50
	WEBB:	www.svrvalves.com
	E-mail:	webmaster@svrvalves.com

RADIOGRAPHIC MAP

Page: 2 / 2

Procedure:	ASME B 16.34		
Customer:	VALVES ENTREPRISE, S.L.	Heat:	K43051
Contract:	P-10005-4019	Part No.:	W6325
Drawing:	900LB 16"	Descriptions:	GATE BODY

Radiography No.	Type and Size of Film	Thickness	Source	I.Q.I.	Focus-Film Distance	Density	Back Shielding
R1-R22	KODAK AA400	55-80	IR 192	ASTM 1C.16	450MM	1.5-4.0	Pb
*****	*****	*****	*****	*****	*****	*****	*****
*****	*****	*****	*****	*****	*****	*****	*****





Material & Test Certificates Valves

Client : Lurgi Oel und Gas Chemie GmbH
Lurgi-Order-No. : 4568444
Siekmann-Order-No.: 8035036

CERTIFICATE-NO.: 030-1

Lurgi-Item-No.	Lurgi-I.D.	Pieces	Remarks
030	10SPP051	1	Key Lock

Date 21.03.05
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
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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-3254-03
			REV.:
			DATE: 04/02/05

CONFORMITY AND GUARANTEE TEST CERTIFICATE

CLIENT: SIKMANN	P.O. No.: 90050090P	LURGI ITEM: 00030	SERIAL No.:
LURGI Ref.: 4568444-000/1.69690/136	V.E. Ref.: 10005-4019		
SVR Ref.: OF-3254	LURGI IDENT.NO: 10SPPO51	QUANTITY: 1	
FIGURE NO.: 1.900 BW	DESCRIPTION: 16" -900 Lbs.	ENDS: FLANGE ()	BUTT WELD (X)
	GATE VALVE		

DESIGN AND TEST ACCORDING TO:

API 600	☒	API 598	☒	BS 6755 Part. 1 rate B		DIN 3230 - 3		MSS - SP 82		NACE MR 0175	
OTHERS : B16.25 B16.10											

TYPE OF TEST	SHELL & PACKING 100%	SEAT (WATER) 100%HP	BACKSEAT (WATER) 100% HP	SEAT (AIR) LP
DURATION (Sec)	300	120	60	120
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.

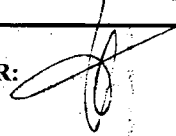
TEST REPORT EN 10204 - 3.1.B.

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 304 + 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
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FOUNDRY MILL CERTIFICATE NUMBERS

BODY, BONNET, & WEDGE: W6326	
QUALITY CONTROL MANAGER:  04 FEB 2005	CLIENT'S INSPECTOR:



SPECIALTY VALVES RESEARCH, S.A.
VALVES MANUFACTURER

MATERIAL CERTIFICATES
CERTIFICADO DE INSPECCION s/
INSPECTION CERTIFICATE Acc. To

Nº/Nr.: W6326

FECHA:

DATE: 17/12/04

Cliente/Cliet.:

VALVES ENTREPRISE
LAS MERCEDES NO. 23 - 6°
EDIFICIO ABRA NO.1
48930 LAS ARENAS -BIZKAIA-

Pedido Nº

Purchase Order: P-10005-4019

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 + Tempered 630°C

MODO DE FUSION:

INDUCTION MELTING

TYPE OF MELTING:

DENOMINACION DE LA PIEZA:
CASTING DENOMINATION:

Gate Body

16" - 900 Lbs

Heat No.:

K43052

Gate Bonnet

16" - 900 Lbs

Heat No.:

K43052

Gate Wedge

16" - 900 Lbs

Heat No.:

K43051

CALIDAD DE ACERO:
STEEL QUALITY:

ASTM A 217 WC6

CONDICIONES DE ENTREGA:
TERMS OF DELIVERY:

NACE MR 01-75:00

ANÁLISIS QUÍMICO - CHEMICAL ANALYSIS

COLADA HEAT No.	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	W		Nº de Piezas Ner. Pieces	Peso kgs. Weight
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			
K43052	0.13	0.40	0.59	0.018	0.020	1.13	0.026	0.50	0.026	0.001		2	
K43051	0.18	0.33	0.64	0.018	0.019	1.36	0.019	0.52	0.019	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 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		
K43052	Lo = 4D	12.5	285	510	29	41	160	45	41	36
K43051	Lo = 4D	12.5	285	490	22	40	152	38	35	32
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

04 FEB 2005

are exact transcription from the corresponding certificates, which are filed in our factory, emitted by homologated suppliers.

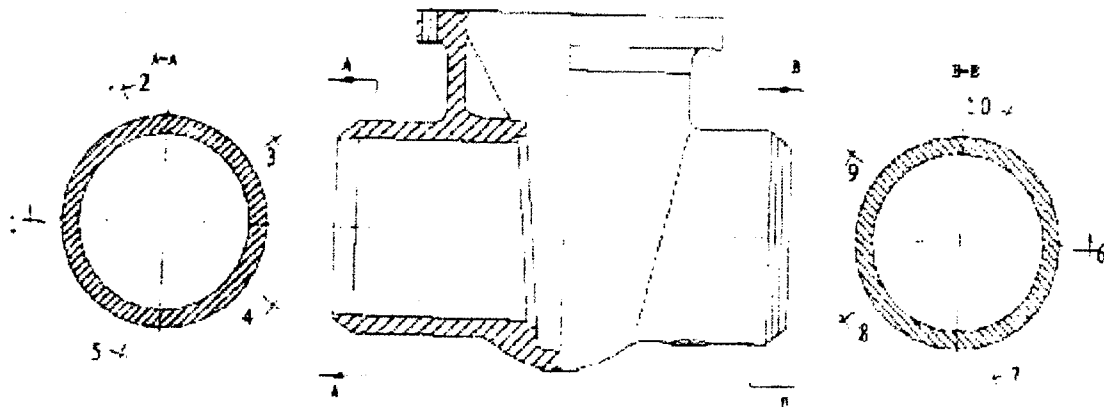
 SPECIALTY VALVES RESEARCH, S.A. VALVES MANUFACTURER	ADDRESS:	ARETXALDE, 150 48196 LEZAMA -BIZKAIA- (SPAIN)
	PHONE:	+ (34) 94. 455. 51. 51
	FAX:	+ (34) 94. 455. 51. 50
	WEBB:	www.svrvalves.com
	E-mail:	webmaster@svrvalves.com

RADIOGRAPHIC MAP

Page: 2 / 2

Procedure:	ASME B 16.34		
Customer:	VALVES ENTREPRISE, S.L.	Heat:	K43052
Contract	P-10005-4019	Part No.	W6326
Drawing:	900LB 16"	Descriptions:	GATE BODY

Radiography No.	Type and Size of Film	Thickness	Source	I.Q.I.	Focus-Film Distance	Density	Back Shielding
R1-R22	KODAK AA400	55-80	IR 192	ASTM 1C.1E	450MM	1.5-4.0	Pb
*****	*****	*****	*****	*****	*****	*****	*****
*****	*****	*****	*****	*****	*****	*****	*****



are exact transcription from the corresponding certificates, which are filed in our factory, emitted by homologated suppliers.

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