

Bescheinigung Certificate Certificat

XOMOX International GmbH & Co. Postfach 3240 D-88114 Lindau/Bodensee

Air Liquide AGS GmbH
Werk Hanau

Depotstrasse 1

-63457 Hanau

Zeugnis-Nr.
Certificate No. 05/50018/1
No. de Certificat
Bestell-Nr./Order No./No. d'ordre
4500025377

Auftrags-Nr.
Order No. B622020
No. d'ordre

Bestell-Datum
Date of order 1.07.2005
Date d'ordre

Kd.-Nr.
Cust. No. 15692
No. de Client

Seite / Page

1

Abnahmeprüfzeugnis 3.1B nach EN 10204

Markierung der Teile Marking of Parts Repère des pes	Pos Item Pos	Menge Qty Qte	Typ Type Type	Werkstoff / Material / Material Gehäuse Body Corps	Abschlusskörper Closure Member Corps de fermeture	DN Size Diamètre	PN Class Classe	Prüfdruck/Bar Test Press. / bar Pression d'exa / bar
--	--------------------	---------------------	---------------------	---	---	------------------------	-----------------------	--

A) Dichtheitsprüfung des Gehäuses und Abschlusses
mit Luft (6 bar) nach DIN 3230/3 (BF und BO)

B) Festigkeitsprüfung des Gehäuses mit Wasser nach DIN 3230/3 (BA)

F) Funktionsprüfung

PV006	K115051	1	7500	1.4408	1.4021	300	10-16	A) 6 bar B) 24 bar
PV007	K115082	1	7500	1.4581	1.4021	150	10-16	A) 6 bar B) 24 bar
PV008	K115903	1	7500	1.4408	1.4021	300	10-16	A) 6 bar B) 24 bar
PV012	K120064	1	7500	1.4581	1.4021	100	10-16	A) 6 bar B) 24 bar
PV014	K120115	1	7500	1.4581	1.4021	100	10-16	A) 6 bar B) 24 bar
PV015	K120706	1	7500	1.4581	1.4021	100 150	10-16	A) 6 bar B) 24 bar

- 2 -

Datum / Date / Date 31.08.2005

SK

XOMOX Process Valves & Actuators

Qualitätswesen
Quality Assurance
Assurance de qualité

Joachim Röhling

Der Sachverständiger
The Authorized Inspector
L'inspecteur autorisé

Der Werkssachverständiger
Works Inspector
Inspecteur de l'usine

XOMOX International GmbH & Co. Postfach 3240 D-88114 Lindau/Bodensee

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PV017K12072	7	1	7500	1.4581	1.4021	150	10-16	A) 6 bar B) 24 bar
PV018K12074	8	1	7500	1.4581	1.4021	80	10-16	A) 6 bar B) 24 bar
PV035K13140	9	1	7500	1.4408	1.4021	200	10-16	A) 6 bar B) 24 bar
PV037K13151	10	1	7500	1.4408	1.4021	200	10-16	A) 6 bar B) 24 bar
PV042K13240	11	1	7500	1.4408	1.4021	200	10-16	A) 6 bar B) 24 bar
PV044K13251	12	1	7500	1.4408	1.4021	200	10-16	A) 6 bar B) 24 bar
PV053K14010	13	1	7500	1.4581	1.4021	80	10-16	A) 6 bar B) 24 bar
PV061K14130	14	1	7500	1.4581	1.4021	150	10-16	A) 6 bar B) 24 bar
PV063K14141	15	1	7500	1.4581	1.4021	100	10-16	A) 6 bar B) 24 bar

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Datum / Date / Date 31.08.2005

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PV067K1423016		1	7500	1.4581	1.4021	150	10-16	A) B)	6 bar 24 bar
PV069K1424117		1	7500	1.4581	1.4021	100	10-16	A) B)	6 bar 24 bar
PV090K1504218		1	7500	1.4408	1.4021	500	10	A) B)	6 bar 15 bar
PV109K1663019		1	7500	1.4408	1.4021	300	10-16	A) B)	6 bar 24 bar
PV110K1663120		1	7500	1.4581	1.4021	150	10-16	A) B)	6 bar 24 bar
PV111K1663221		1	7500	1.4408	1.4021	300	10-16	A) B)	6 bar 24 bar
PV172K7004022		1	7500	1.4408	1.4021	250	10-16	A) B)	6 bar 24 bar
PV173K7050523		1	7500	1.4581	1.4021	150	10-16	A) B)	6 bar 24 bar
PV174K7050624		1	7500	1.4581	1.4021	100	10-16	A) B)	6 bar 24 bar

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Datum / Date / Date 31.08.2005

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Quality Assurance
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Joachim Röhling

Der Sachverständiger
The Authorized inspector
L'inspecteur autorisé

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---	----------------------	---------------------	---------------------	---	--	------------------------	-----------------------	--

PV175K7058025	1	7500	1.4581	1.4021	150	10-16	A) 6 bar B) 24 bar
PV180K7704026	1	7500	1.4408	1.4021	250	10-16	A) 6 bar B) 24 bar
PV181K7750527	1	7500	1.4581	1.4021	150	10-16	A) 6 bar B) 24 bar
PV182K7750628	1	7500	1.4581	1.4021	100	10-16	A) 6 bar B) 24 bar
PV183K7759029	1	7500	1.4581	1.4021	150	10-16	A) 6 bar B) 24 bar

Die Prüfungen wurden ohne Beanstandung durchgeführt.
Die Ergebnisse entsprechen den Anforderungen Ihrer Bestellung.
All tests have been performed without any objection.
The results meet the order requirements.

CRANEProcess Flow Technologies
A Crane Co. CompanyK 11508, K 12072, K 14130,
K 12074, K 14010,
K 13140, K 13151, K 13240,
K 13251Abnahmeprüfzeugnis / Inspection certificate
EN 10204

Type	Zeugnis-Nr.	Datum	Seite	von
Type	Certificate No.	Date	Page	of
CENTERLINE Klappe Serie RS	20269 / bp	31.08.05	1	1

Auftraggeber Customer	XOMOX International GmbH & Co. / 231185
Bestell-Nr. Cust. Order No.	X50396-05 LN: 1/3690
Crane-Kom-Nr. Crane Order No.	400814

Umfang der Lieferung/Number of items supplied

Pos. Nr. Item No.	Stückzahl Quantity	Größe DN Size DN	Ident Nr.: Ident No.:	P max. PN [bar]	Δ P- PN [bar]	Serien-Nr. Serial No.	Chargen - Nr. Cast - No.	Gehäuse/ Body 3.1B 2.2	Schleibe/ Disc 3.1B 2.2	Sitz Seat 2.2
1	2	80	ALGD2E1V9H	16	10	0805 / 11-12	5 ASC / 11617 5 ATH / 11618	X		
2	3	80	ALGD2E1V9F	16	10	0805 / 265-267	5 ASD / 11666 5 ASC / 11617 5 CLC / 11655	X		
3	6	100	AMGD6E1H3H	16	10					
4	3	150	APGD6E1H3G	16	10					
5	1	150	APGD1E1V9H	16	10	0804 / 14	J 2 / 11238	X		
6	12	200	ARGB6E1V9G	10	3,5					

☒ Prüfverfahren/Testmethods acc. DIN 3230, Teil 3/Part 3 EN 10204☐ 2.2☒ 3.1B☐ Prüfverfahren/Testmethods acc. DIN 3230, Teil 5 PG 3/Part 5 PG 3 EN 10204

Bemerkungen / Remarks

- ☒ Leckrate 1 / Leak rate 1
☐ KKS Nr. und Charge siehe Anhang
(KKS No. and Heat No. see attached list)

Drücke in bar Überdruck
Pressures in bar

Position Item	BA	BN	BV	BV n. BA	BW	BO
1	24	11				
2	24	11				
3						
4						
5	24	11				
6						

Sonstige Prüfungen:
Other Test's:

- ☐ Prüfungen gem. TRD 110
(Test's in acc. with TRD 110)
- ☐ Armatur entspr. VBG62 öl- und fettfrei gereinigt
(Valve in acc. to VGB63 - free of grease and oil)
- ☐ Prüfung gem. DVGW - Reg. Nr.: NG - 4313 AN 0172
(Test in acc. with DVGW - Reg. Nr.: NG - 4313 AN 0172)

Das Original kann beim Hersteller eingesehen werden. The original is available in manufacture's files
Es wird hiermit bestätigt, daß die geprüften Erzeugnisse ohne Beanstandung sind
It is hereby certified, that the tested material is without any defect

CRANECrane Process Flow
Technologies GmbH
Postfach 11 12 40,
D-40512 Düsseldorf
Heerdter Lohweg 63-71
D-40549 Düsseldorf
Telefon (02 11) 59 56-0
Telefax (02 11) 59 56-111

Crane Process Flow Technologies GmbH

Postfach 11 12 40, D-40512 Düsseldorf, Heerdter Lohweg 63-71, D-40549 Düsseldorf
Telefon (02 11) 59 56-0, Telefax (02 11) 59 56-111, www.craneflow.de
Amtsgericht Düsseldorf, HR B 24702, Geschäftsführer: Hans D. Ptak

A.K.P. FOUNDRIES PVT. LTD.
INSPECTION CERTIFICATE ACC : TO EN 10204 3.1b

R.S. No. 689, Udyambag,
BELGAUM - 590 008
Phone : 440164,441530

CLIENTE	REDIDO NO.	CERTIFICADO
KUNDE CRANE PROCESS FLOW TECHNOLOGIES	DESTELL NO.	ZEUGNIS NO
CUSTOMER :	ORDER NO.:	CERTIFICATE NO. : 5755
CLIENT	ORDER DATE:	CERTIFICATE NO.
	COMMANDE NO.	

MATERIAL	NORMAS DE CONTROL EESPECIFICACIONES	EN 1563
WERKSOFF	KONTROLL NORM/SPEZIFICACIONES	DIN 50125
MATERIAL SG EN-GJS-400/15	TECHNICAL REQUIREMENT/DEMAND	
MATIERE	NORMOS DE CCNTROL ET SPECIFICATIONS	

DESINACION		
GEGENSTAD		
DESIGNATION	150MM WAFER BODY	(DRAWING NO. 7010554 B)
DESIGNATION		

ANALYSIS QUIMICO CHEMISCHE ANALYSE/CHEMICAL ANALYSE/ANALYSE-CHEMIQUE

COLADAN NO.	C	Si	Mn	P	S	Mg
SCHMELZE NO.						
HEAT NO. J.2	3.470	2.780	0.310	0.039	0.011	0.042
COULEE NO.						

CODIGO INENTIFICACION COLADA	CANTIDAD		
SCHMELZEIDENTIFIKATIONSKOD	MENGE	Inv No. 3859	Dt: 09/04/2004
HEAT IOENTIFIKATION CODE J.2	QUANTITY	123	Nos
CODE INDENTIFICATION COULEE	QUANTITE		

ENSAYOS MECHANICOS/MECHANISCHE PRUFUNGNM/MECHANICAL TEST/ESSAIS MECANIOVES

TRACCION/ZUGFESTIGKFT/TENSILE/TRACTION					RESILIENCIA KERBSCHLAAGARBEIT IMPACT STRENGTH/RESILIENCE		DUREZA/HARTE HARDNESS/CURETE	
PROBETA N PROBE Nr. TEST NO. EPRGUV Nr.	Temperatura de Ensayo Prüf temperatur Test temperature T dessais	Limite Elastico Dehngrenze Yield Strength Limite Elastique	Cargade Rotura Zugfestigkeit Tensile Strength Fasist a Traction	Alargamiento Bruchdehnung Elongation Allongement	Temperatura de Ensayo Prüf temperatur Test temperature T dessais	Energia Absorbida Schlagarbeit Energy of Impact Energie Absorbee	HB 10/3000	HB 2.5/187.5
HEAT NO.	°C	0.2% N/mm2	N/mm ²	%	J			
J.2		320.70	517.40	16.80			163, 163	

TRATAMIENTO TERMICO
WARMBEHANDLUNG
HEAT TREATMENT
TRAITEMENT THERM QUE
NOT APPLICABLE.

OBSERVACIONES/BEMERKUNGEN/REMARKS OBSERVATIONS
Graphite Nodules in Ferritic Matrix

LOS RESULTADOS INDICAN QUE EL MATERIAL ESTA DE
ACUERDO ALAS ESPECIFICACIONES

DIE RESULTATE ERGEBEN, DASS DAS MATERIAL DEN
SPEZIFIKATIONEN ENSPRICHT

THE RESULTS SHOW THAT THE MATERIAL IS IN ACCORDANCE
WITH REQUIREMENTS.

CASTINGS ARE VISUALLY INSPECTED AND ARE FREE FROM FOUNDRY DEFECT

PECHA / DATUM / DATE / DATE

DIRECTOR CHUD / Q.C. MANAGER

M. H. Talwar
4/9/04

AD-Matblatt-W-3/1

Registration No. 04202W130020013 Dtd. 01.03.2002

"Der RWTUV hat mit schreiben vom 30.06.03 auf die Gangzeichnung verzielt."

Inv. No. - 2733

Certificate No. : 2597

Date : 23/01/2005

BASKKO	3.1B MATERIAL TEST CERTIFICATE AS PER EN 1561
Customer Name C. P. F. T. (I) LTD., SATARA	Material: W3/1 DIN EN1561:1997
Part Name DN 080 Wafer Body	Symbol: EN-GJL-250
Drawing No. 7010762 Z	Number: EN-JL-1040
Rev. No. Z	Quantity: 64 Nos.
P.O.No. 5510450/09.01.2004	DIE No.: 1,23

CHEMICAL ANALYSIS									
Heat No. : 5ASC	Heat Code : _____								
Manufacturer's Symbol: BE									
	C%	Si%	Mn%	P%	S%	Cu%	Cr%	Mo%	Others
Specified Range	—Not Specified— Refer Clause-6 of DIN EN 1561:1997								
Actual Findings	3.400	1.850	0.660	0.062	0.075	—	—	—	—

STD. REFER-				Grain Size AS PER	
Inclusion Rating AS PER					
A	B	C	D		

Heat Treatment	i) Normalized	<input type="checkbox"/>	ii) Oil/Water Quenched & Tempered	<input type="checkbox"/>	iii) ISO-Annealed	<input type="checkbox"/>
	iv) Annealed	<input type="checkbox"/>	v) Stress-Relieved	<input type="checkbox"/>	vi) Normalized & Tempered	<input type="checkbox"/>

% of Hardness Checked 3 Nos./Lot	Flash Line	<input type="checkbox"/>	Hardness Specified: 175 TO 250 BHN
By 10/3000 Kg.	Flat Surface	<input checked="" type="checkbox"/>	Observed: 180-180 BHN
MICRO EXAMINATION	Graphite	_____	Size
	Matrix	_____	Carbide

MECHANICAL PROPERTIES						IMPACT (J)			
	Y.S.	TENSILE	UTS	%	%				
	0.2%	N/MM ²	N/MM ²	E.A.	ELONG	1	2	3	AVG.
Specified Range	-----	-----	250 to 350	-----	-----	-----	-----	-----	-----
Actual Findings	-----	-----	269.29	-----	-----	-----	-----	-----	-----

SPARK & SPECTRAL : _____ HEAT TREATMENT CYCLE : _____

SOAKING TIME : _____

PMI TEST : _____

IOC TEST AS PER DIN EN ISO 3651 - 2 : _____

VISUAL INSPECTION : _____

As per Attached P.D.I.R.

DIMENSIONAL INSPECTION : _____

NO WELDING DONE

THE CAST IRON HAS NOT COME INTO DIRECT CONTACT WITH MERCURY OR ANY OF ITS COMPONENTS OR ANY MERCURY CONTAINING DEVICES EMPLOYING A SINGLE BOUNDARY OF OR CONTAINMENT DURING MANUFACTURING PROCESS, INSPECTION AND STORAGE.

POSITIVE STATEMENT OF COMPLIANCE : WE CERTIFY THAT THE CONTENTS OF THIS REPORT ARE CORRECT AND ACCURATE & MEET THE REQUIREMENTS OF THE P.O. & THE MATERIAL SPECIFICATIONS

FOR BASKKO ENGINEERING PVT. LTD.

Name : *Shen2* M.S. KoreWorks Authorized Inspector
BEPL/TQC-15c

Authorized Inspector's Stamp

AD-Merblatt-W-3/1

Registration No.04202W130020013 Dtd.01.03.2002

Inv. No. 4298-2777

Certificate No. : 2622

Date : 28/01/2005

"Der RWTUV hat mit schreiben vom 30.06.03 auf die Gangzeichnung verzichtet".

BASHKO	3.1B MATERIAL TEST CERTIFICATE AS PER EN 10204
Customer Name C. P. F. T. (I) LTD., SATARA	Material: W3/1 DIN EN1561:1997
Part Name DN 060 Wafer Body	Symbol: EN-GJL-250
Drawing No. 7010762 Z	Number: EN-JL-1040
Rev. No. Z	Quantity: 25 Nos.
P.O.No. 5510050/09.01.2004	DIE No.: 1,2,3

CHEMICAL ANALYSIS									
Heat No. : 5ATH					Heat Code : -----				
Manufacturer's Symbol: BE.									
	C%	SP%	Me%	P%	S%	Ce%	Cr%	Mo%	Others
Specified Range	---Not Specified--- Refer Clause-6 of DIN EN 1561:1997								
Actual Findings	3.350	1.850	0.700	0.085	0.074	---	---	---	---

STD. REFER-			
Inclusion Rating AS PER		Grain Size AS PER	
A	B	C	D

Heat Treatment	i) Normalized	<input type="checkbox"/>	ii) Oil/Water Quenched & Tempered	<input type="checkbox"/>	iii) ISO-Annealed	<input type="checkbox"/>
	iv) Annealed	<input type="checkbox"/>	v) Stress Relieved	<input type="checkbox"/>	vi) Normalized & Tempered	<input type="checkbox"/>

% of Hardness Checked 3 Nos./Lot	Flash Line	<input type="checkbox"/>	Hardness Specified: 175 TO 250 BHN
By 10/3000 Kg.	Flat Surface	<input checked="" type="checkbox"/>	Observed: 207-207 BHN
MICRO EXAMINATION	Graphite	-----	Size
	Matrix	-----	Carbide

MECHANICAL PROPERTIES									
	Y.S. 0.2%	N/MM ² 1.00%	UTS N/MM ²	% R.A.	% ELONG	IMPACT (J)			
Specified Range	-----	-----	250 to 350	-----	-----	1	2	3	AVG.
Actual Findings	-----	-----	298.04	-----	-----	-----	-----	-----	-----

SPARK & SPECTRAL : -----	HEAT TREATMENT CYCLE : -----
PMI TEST : -----	SOAKING TIME : -----
IGC TEST AS PER DIN EN ISO 3651 - 2 : -----	
VISUAL INSPECTION : -----	
DIMENSIONAL INSPECTION : -----	As per Attached P.D.I.R.

NO WELDING DONE

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FOR BASHKO ENGINEERING PVT. LTD.

Name : *Praveen* M S Kote
 Works Authorized Inspector
 BEPL/FQC-15c


 Authorized Inspector's Stamp

Inv. No.- 3143

rlblatt-W-3/1

Registration No.04202W130020013 Dtd.01.03.2002

Certificate No. : 2913

Date : 16/03/2005

"Der RWTUV hat mit schreiben vom 30.06.03 auf die Gegenseichnung verzichtet".

BASHKO

3.1B MATERIAL TEST CERTIFICATE AS PER EN 10204

Customer Name	C. P. F. T. (I) LTD., SATARA	Material:	W3/1 DIN EN1561:1997
Part Name	DN 080 Wafer Body	Symbol:	EN-GJL-250
Drawing No.	7010762 Z	Number:	EN-JL-1040
Rev. No.	Z	Quantity:	88 Nos.
P.O.No.	5510050/09.01.2004	DIE No.:	1,23

CHEMICAL ANALYSIS

Heat No. : 5CLC						Heat Code : _____			
Manufacturer's Symbol BE.									
	C%	Si%	Mn%	P%	S%	Cr%	Cr%...	Mo%	Others
Specified Range	---Not Specified --- Refer Clause-6 of DIN EN 1561:1997								
Actual Findings	3.375	1.820	0.650	0.064	0.076	---	---	---	---

STD. REFER-

Inclusion Rating AS PER	Grain Size AS PER
A B C D	---

Heat Treatment	iv) Normalized	---	ii) Oil Water Quenched & Tempered	---	iii) ISO-Annealed	---
	iv) Annealed	---	v) Stress Relieved	---	vi) Normalized & Tempered	---

% of Hardness Checked 3 Nos./Lot	Flash Line	---	Hardness Specified: 175 TO 250 BHN
By 10/3000 Kg.	Flat Surface	✓	Observed: 197-207 BHN

MICRO EXAMINATION	Graphitic Matrix	---	Size	---
		---	Carbide	---

MECHANICAL PROPERTIES

	Y.S. 0.2%	N/MM2 1.00%	UTS N/MM2	% P.A.	% ELONG	IMPACT (J).			
						1	2	3	AVG.
Specified Range	---	---	250 to 350	---	---	---	---	---	---
Actual Findings	---	---	290.20	---	---	---	---	---	---

SPARK & SPECTRAL :	HEAT TREATMENT CYCLE :	---
	SOAKING TIME :	---

PET TEST : _____
IGC TEST AS PER DIN EN ISO 3651 - 2 : _____

VISUAL INSPECTION : }
DIMENSIONAL INSPECTION : } As per Attached P.D.I.R.

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FOR BASHKO ENGINEERING PVT. LTD.

Name : M S Kore
Works Authorized Inspector
BEPL/FQC-15c

(K)

Authorized Inspector's Stamp

AD-Merblatt-W-3/1

Registration No.04202W130020013 Dtd.01.03.2002

Certificate No. : 3015

Date : 31/03/2005

"Der RWTUV hat mit schreiben vom 30.06.03 auf die Gengenseichnung verzichtet"

BASHKO**3.1E MATERIAL TEST CERTIFICATE AS PER EN 10204**

Customer Name	C. P. F. T. (I) LTD., SATARA	Material:	W3/1 DIN EN1561:1997
Part Name	DN 080 Wafer Body	Symbol:	EN-GJL-250
Drawing No.	7010762 Z	Number:	EN-JL-1040
Rev. No.	Z	Quantity:	2 Nos.
P.O.No.	5510050/09.01.2004	DIE No.:	1,2,3

CHEMICAL ANALYSIS

Heat No. : 5ASD						Heat Code : -----			
Manufacturer's Symbol BE.									
	C%	Si%	Mn%	P%	S%	Cu%	Cr%	Mo%	Others
Specified Range	---Not Specified -- Refer Clause-6 of DIN EN 1561:1997								
Actual Findings	3.370	1.870	0.660	0.052	0.075	---	---	---	---

STD. REFER-

Inclusion Rating AS PER				Grain Size AS PER	
A	B	C	D	-----	

Heat

Treatment i) Normalized

☐

ii) Oil/Water Quenched & Tempered

☐

iii) ISO-Annealed

☐

iv) Annealed

☐

v) Stress Relieved

☐

vi) Normalized & Tempered

☐

% of Hardness Checked 3 Nos./Lot	Flash Line	<input type="checkbox"/>	Hardness Specified: 175 TO 250 BHN
By 10/3000 Kg.	Flat Surface	<input checked="" type="checkbox"/>	Observed: 187.197 BHN

MICRO EXAMINATION	Graphite	-----	Size	-----
	Matrix	-----	Carbide	-----

MECHANICAL PROPERTIES

	Y.S. 0.2%	N/MM2 1.86%	UTS N/MM2	% R.A.	% ELONG	IMPACT (J)			
						1	2	3	AVG.
Specified Range	-----	-----	250 to 350	-----	-----	-----	-----	-----	-----
Actual Findings	-----	-----	274.51	-----	-----	-----	-----	-----	-----

SPARK & SPECTRAL : -----

HEAT TREATMENT CYCLE : -----

SOAKING TIME : -----

PMI TEST : -----

IGC TEST AS PER DIN EN ISO 3651 - 2 : -----

VISUAL INSPECTION : }

As per Attached P.D.I.R.

DIMENSIONAL INSPECTION : }

NO WELDING DONE

THE CAST IRON HAS NOT COME INTO DIRECT CONTACT WITH MERCURY OR ANY OF ITS COMPONENTS OR ANY MERCURY CONTAINING DEVICES EMPLOYING A SINGLE BOUNDARY OF ON CONTAINMENT DURING MANUFACTURING PROCESS, INSPECTION AND STORAGE.

POSITIVE STATEMENT OF COMPLIANCE : WE CERTIFY THAT THE CONTENTS OF THIS REPORT ARE CORRECT AND ACCURATE & MEET THE REQUIREMENTS OF THE P.O. & THE MATERIAL SPECIFICATIONS

FOR BASHKO ENGINEERING PVT. LTD.

(K)

Name : *J. Kumar*
M S Kore
Works Authorized Inspector
BEPL/F/QC-15c

Authorized Inspector's Stamp

CRANE

Process Flow Technologies
A Crane Co. Company



14 309 1

Abnahmeprüfzeugnis / Inspection certificate

EN 10204

Typ Type	Zertifikat-Nr. Certificate No.	Datum Date	Seite Page	von of
CENTERLINE Klappe Serie RS	18444 / bp	13.01.04	1	1

Auftraggeber Customer	XOMOX International GmbH & Co. / 231185
Bestell-Nr. Cust. Order No.	X30039-03
Crane-Kom-Nr. Crane Order No.	351462

Umfang der Lieferung/Number of items supplied

Pos. Nr. Item No.	Stückzahl Quantity	Größe DN Size DN	Ident.Nr.: Ident No.:	P max. PN [bar]	Δ P PN [bar]	Serien-Nr. Serial No.	Chargen-Nr. Cast - No.	Gehäuse/ Body 3.1B 2.2	Schelle/ Disc 3.1B 2.2	Sitz Seat 2.2
1	2	80	ALGDIE18MH	16	10	0104 / 47-48	G 24 / 8890 J 11 / 9123	X		

☐ Prüfverfahren/Testmethods acc. DIN 3230, Teil 3/Part 3 EN 10204

☐ 2.2

☐ 3.1B

☐ Prüfverfahren/Testmethods acc. DIN 3230, Teil 5 PG 3/Part 5 PG 3 EN 10204

Bemerkungen / Remarks

- ☐ Leckrate 1 / Leak rate 1
☐ KKS Nr. und Charge siehe Anhang
 (KKS No. and Heat No. see attached list)

Drücke in bar Überdruck Pressures in bar

Position Item	BA	BN	BV	BY n. BA	BW	BO

Sonstige Prüfungen: Other Test's:

Other Test's:

- ☐ Prüfungen gem. TRD 110
 (Test's in acc. with TRD 110)

- ☐ Armatur entspr. VBG62 öl- und fettfrei gereinigt
 (Valve in acc. to VBG63 - free of grease and oil)

- ☐ Prüfung gem. DVGW - Reg. Nr.: NG - 4313 AN 0172
 (Test in acc. with DVGW - Reg. Nr.: NG - 4313 AN 0172)

Das Original kann beim Hersteller eingesehen werden. The original is available in manufacture's files
 Es wird hiermit bestätigt, daß die geprüften Erzeugnisse ohne Beanstandung sind
 It is hereby certified, that the tested material is without any defect

Crane Process Flow Technologies GmbH

Postfach 11 12 40, D-40512 Düsseldorf, Heerdter Lohweg 63-71, D-40549 Düsseldorf

Telefon (0211) 59 56-0, Telefax (0211) 59 56-111, www.craneflow.de

Amtsgericht Düsseldorf, HRB 24702, Geschäftsführer: Joachim Lukoschek, Hans D. Plak

CRANE
 Crane Process Flow
 Technologies GmbH
 Postfach 11 12 40
 D-40512 Düsseldorf
 Heerdter Lohweg 63-71
 D-40549 Düsseldorf
 Telefon (0211) 59 56-0
 Telefax (0211) 59 56-111

31.08.2005, 14:12 KLOEP 143091.- - P1/3

8890

A.K.P. FOUNDRIES PVT. LTD.

INSPECTION CERTIFICATE ACC : TO EN 10204 3.1b

R.S. No. 639, Udyambag, 14 3 0 9 1

BELGAUM - 590 008

Phone: 440164, 441530

CLIENTE KUNDE CUSTOMER : CRANE PROCESS FLOW TECHNOLOGIES CLIENT	REDIDO NO. DESTELL NO. ORDER NO. : 75114563/ ORDER DATE: 21/Apr/2003 COMMANDE NO.:	CERTIFICADO ZEUGNIS NO. CERTIFICATE NO. 2876 CERTIFICATE NO.
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MATERIAL WERKSTOFF MATERIAL SG EN-GJS-400/15 MATIERE	NORMAS DE CONTROL EESPECIFICACIONES KONTROLL NORM/SPEZIFIKATIONEN TECHNICAL REQUIREMENT/DEMAND NORMES DE CONTROL ET SPECIFICATIONS	EN 10051 DIN 50125
---	---	-----------------------

DESINACION GEGENSTAD DESIGNATION DESIGNATION	DN 80 W/L WAFER BODY (DRAWING NO. 7010527 A)
---	---

ANALYSIS QUIMICO/CHEMISCHE ANALYSE/CHEMICAL ANALYSE/ANALYSE CHIMIQUE						
COLADAN NO. SCHMELZE NO. HEAT NO. G.24 COULEE NO.	1	SI	Mn	P	S	PHOS
	15.00	2.170	0.200	0.042	0.012	0.005

CODIGO IDENTIFICACION COLADA SCHMELZEIDENTIFIKATIONS-KOD HEAT IDENTIFICATION CODE CODE IDENTIFICATION COULEE	CANTIDAD MENGE QUANTITY QUANTITE	Inv No. 2114 87 Nos.
---	---	-------------------------

ENSAYOS MECANICOS/MECHANISCHE PRUEFUNG/MECHANICAL TEST/ESSAIS MECANIOVES

TRACCION/ZUGFESTIGKEIT/TENSILE/TRACTION					RESILIENCIA KERBSCHLAGARBEIT IMPACT STRENGTH/RESILIENCE	DUREZA/HARTE HARDNESS/DURETE
PROBETA N PROBE Nr. TEST NO. EPRGUY Nr.	Temperatura de Ensayo prii temperatur Test temperature T deessais	Limite Elastico Dehnigrenze Yield strength Limite Elasticque	Cargada Rotura Bruchlast Tensile strength Rupture load	Alargamiento Bruchdehnung Elongation Allongement	Temperatura de Ensayo Prii temperature T deessais	Energia Absorbida Schlagarbeit Energy of impact Energie Absorbée
HEAT NO. G.24	oC	0.2% N/mm ²	N/mm ²	%	1	HB 10/3000 HB 2.5/187.5
		339.50	523.70	17.40		170 , 170

TRATAMIENTO TERMICO
WARMEBEHANDLUNG
HEAT TREATMENT
TRATMENT THERM QUE

NOT APPLICABLE

OBSERVACIONES/BEMERKUNGEN/REMARKS OBSERVATIONS

LOS RESULTADOS INDICAN QUE EL MATERIAL ESTA DE ACUERDO ALAS ESPECIFICACIONES

DIE RESULTATE ERGEBEN, DASS DAS MATERIAL DEN SPEZIFIKATIONEN ENSPRICHT

THE RESULTS SHOW THAT THE MATERIAL IS IN ACCORDANCE WITH REQUIREMENTS.

PECHA / DATUM / DATE / DATE

DIRECTOR CALIDAD / Q.C. MANAGER

14 3 0 9 1

9123

A.K.P. FOUNDRIES PVT. LTD.**INSPECTION CERTIFICATE ACC : TO EN 10204 3.1b****R.S. No. 689, Udyambag,****BELGAUM - 590 008****Phone : 440164,441530**

CLIENTE KUNDE CUSTOMER : CRANE PROCESS FLOW TECHNOLOGIES CLIENT	RECIBO NO. DESTELL NO. ORDER NO. : 75114563/ ORDER DATE : 21/Apr/2003 COMMANDE NO.	CERTIFICADO ZEUGNIS NO CERTIFICATE NO. : 4728 CERTIFICATE NO.
--	--	--

MATERIAL WERKSCH MATERIAL : SG EN-GJS-400/15 MATIERE	NORMAS DE CONTROL Y ESPECIFICACIONES KONTROLL NORM/SPEZIFIKATIONEN TECHNICAL REQUIREMENT/DENAND NORMES DE CONTROL ET SPECIFICATIONS	EN 1563 DIN 50125
---	--	----------------------

DESIGNACION GEGENSTAND DESIGNATION : DH 80 W/L WAFER BODY DESIGNATION	(DRAWING NO. : 7010527 A)
--	---------------------------

ANALYSIS QUIMICO / CHEMISCHE ANALYSE / CHEMICAL ANALYSE / ANALYSE CHIMIQUE						
COLADA NO. SCHNELZE NO. HEAT NO. COULEE NO.	C	Si	Mn	P	S	Mo
1.11	3.430	2.560	0.210	0.038	0.011	0.043

CODIGO IDENTIFICACION COLADA SCHNELZE IDENTIFIKATIONS KOD HEAT IDENTIFICATION CODE CODE IDENTIFICATION COULEE	1.11	CANTIDAD MENGE QUANTITY QUANTITE	Inv No. : 3237 100 Nos	DE : 09/20/2003
--	------	---	---------------------------	-----------------

ENSAYOS MECANICOS / MECHANISCHE PRUFUNGEN / MECHANICAL TEST / ESSAIS MECANIOVES									
TRACCION/ZUGFESTIGKEIT/TENSILE/TRACTION					RESILIENCIA KERBSCHLAGARBEIT IMPACT STRENGTH/RESILIENCE		DUREZA/HARTE HARDNESS/CURETE		
PROBETA N PROBE Nr. TEST NO. EPRGVU Nr.	Temperatura de Ensayo pruf temperatur T desaisla	Limite Elastico Dehngrenze Yield Strength Limite Elastique	Capacidad Rotura Zugfestigkeit Tensile Strength Flasul a Traction	Alargamiento Bruchdehnung Elongation Allongement	Temperatura de Ensayo pruf temperatur T desaisla	Energia Absorbida Schlagarbeit Energy of Impact Energie Absorbee	HB 10/3000		HB 2.5/187.5
HFAT NO.	eC	0.2% N/mm2	N/mm ²	%	J				
1.11		329.50	523.70	18.40			170, 170		

TRATAMIENTO TERMICO**WARMEBEHANDLUNG****HEAT TREATMENT****TRAITEMENT THERM QUE**

NOT APPLICABLE.

OBSERVACIONES/BEMERKUNGEN/REMARKS OBSERVATIONS

Graphite Nodules in Ferritic Matrix

LOS RESULTADOS INDICAN QUE EL MATERIAL ESTA DE ACUERDO ALAS ESPECIFICACIONES

DIE RESULTATE ERGEBEN, DASS DAS MATERIAL DEN SPEZIFIKATIONEN ENSPRICHT

THE RESULTS SHOW THAT THE MATERIAL IS IN ACCORDANCE WITH REQUIREMENTS.

PECHA / DATUM / DATE / DATE

DIRECTOR CALIDAD / Q.C. MANAGER

CRANE

Process Flow Technologies
A Crane Co. Company



Abnahmeprüfzeugnis / Inspection certificate
EN 10204

Typ Type	Zeugnis-Nr. Certificate No.	Datum Date	Seite Page	Von of
CENTERLINE Klappe Serie RS	19215 / bp	03.09.04	1	1

Auftraggeber Customer	XOMOX International GmbH & Co. / 231185			
Bestell-Nr. Cust. Order No.	X40470-04	27202353100		
Crane-Kom-Nr. Crane Order No.	373515			

Umfang der Lieferung/Number of items supplied

Pos. Nr. Item No.	Stückzahl Quantity	Größe DN Size DN	Ident. Nr.: Ident. No.:	P max. PN [bar]	Δ P PW [bar]	Serial-Nr. Serial No.	Chargen - Nr. Cast - No.	Gehäuse/ Body 3.1B 2.2	Schleib/ Disc 3.1B 2.2	Sitz Seat 2.2
1	1	200	ARGDIE1V8H	16	10	0986 / 16	M 16 / 8338	X		

☐ Prüfverfahren/Testmethods acc. DIN 3230, Teil 3/Part 3 EN 10204

☐ 2.2

☐ 3.1B

☐ Prüfverfahren/Testmethods acc. DIN 3230, Teil 5 PG 3/Part 5 PG 3 EN 10204

Bemerkungen / Remarks <input type="checkbox"/> Leckrate 1 / Leak rate 1 <input type="checkbox"/> KKS Nr. und Charge siehe Anhang (KKS No. and Heat No. see attached list)							Sonstige Prüfungen: Other Test's: <input type="checkbox"/> Prüfungen gem. TRD 110 (Test's in acc. with TRD 110) <div style="text-align: right; font-size: 2em;">146214</div> <input type="checkbox"/> Armatur entspr. VBG62 Öl- und fettfrei gereinigt (Valve in acc. to VBG63 - free of grease and oil) <input type="checkbox"/> Prüfung gem. DVGW - Reg. Nr.: NG - 4313 AN 0172 (Test in acc. with DVGW - Reg. Nr.: NG - 4313 AN 0172)			
Drücke in bar Überdruck Pressures in bar										
Position Item	BA	BN	BV	BV n. BA	BW	BO				

Das Original kann beim Hersteller eingesehen werden. The original is available in manufacturer's files.
 Es wird hiermit bestätigt, daß die getesteten Erzeugnisse ohne Beanstandung sind.
 It is hereby certified, that the tested material is without any defect.

CraneFlow
 Crane Process Flow
 Technologies GmbH
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 D-40549 Düsseldorf
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Crane Process Flow Technologies GmbH
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 Telefon (02 11) 59 56-0, Telefax (02 11) 59 56-111, www.craneflow.de
 Amtsgericht Düsseldorf, HR B 24702, Geschäftsführer: Joachim Lukoschek, Hans O. Plak

8338

A. K. P. FOUNDRIES PVT LTD.,

R.E.No. 689, Udyamga,
DELHI - 570 008.
Phone: 410164, 441530

INSPECTION CERTIFICATE ACC: TO 5.18 OF EN 10204

CUSTOMER: CRANE PROCESS FLOW TECHNOLOGIES
ORDER NO. 5113604
DT: 22/04/2002
CERTIFICATE NO.
7257 - 06/02/2003

MATERIAL: SG GG10
TECHNICAL REQUIREMENTS/DEMAND: EN 1563

DESIGNATION: EN200 WATERBURY 7010SSS Z
INVOICE NO.: 6959
INVOICE DATE: 06/02/2003

CHEMICAL ANALYSIS %

HEAT NO.	C	Si	Mn	P	S	Cu	Cr	Ni	Mg
H.16	3.640	2.800	0.220	0.041	0.012				0.051

HEAT IDENTIFICATION CODE: H.16
QUANTITY: 1

MECHANICAL TEST/PROPERTIES

TENSILE					IMPACT STRENGTH		HARDNESS IN DIN	
TEST NO.	Test temperature	Yield Strength	Tensile Strength	Elongation	Test Temperature	Energy off	HB	HV
					T tests	Impact	10/3000	12.5/107.5
HEAT NO.	°C	0.2% N/mm ²	N/mm ²	%	°C	J		
H.16		329.20	537.50	17.40			170	

HEAT TREATMENT: NOT APPLICABLE.
Microstructure: GRAPHITE NODULES IN FERRITIC MATRIX.

POSITIVE STATEMENT OF COMPLIANCE: WE CERTIFY THAT THE CONTENTS OF THIS REPORT ARE CORRECT AND ACCURATE & MEET THE REQUIREMENT OF THE PD & THE MATERIAL SPECIFICATIONS.

For A. K. P. FOUNDRIES PVT. LTD.,

Name: *[Signature]*
Works Authorised Inspector.

CRANE PROCESS FLOW TECHNOLOGIES
(INDIA) LTD.
Office: Crane Dept.
Vandana GK
Sign: *[Signature]*
Date: 10/2

146214

31.08.2005 14:12 KLOEP 146214... - P2/2