

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

Bescheinigung Certificate Certificat

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 Repere des pieces | Pos. Item Pos. | Menge Qty Qte. | Typ Type Type | Werkstoff / Material / Material Gehäuse Body Corps | DN Size Diamètre | PN Class Classe | Prüfdruck/Bar Test Press. / bar Pression d'examen / 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 |

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Datum / Date / Date 31.08.2005

SK

XOMOX Process Valves & Actuators

Qualitätswesen
Quality Assurance
Assurance de qualité

Joachim Röhling

Der Werkssachverständiger
Works Inspector
Inspecteur de l'usine

Der Sachverständiger
The Authorized inspector
L'inspecteur autorisé

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| Markierung der Teile Marking of Parts Repere des pieces | Pos Item Pos | Menge Qty Qte. | Typ Type Type | Werkstoff / Material / Matériau Gehäuse Body Corps | Abschlußkörper Closure Member Corps de fermeture | DN Size Diamètre | PN Class Classe | Prüfdruck/Bar Test Press. / bar Pression d'examen / bar |
|---|--------------------|----------------------|---------------------|---|--|------------------------|-----------------------|---|
| 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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Abnahmeprüfzeugnis 3.1B nach EN 10204

| Markierung der Teile Marking of Parts Repere des pss | Pos Item Pos | Menge Qty Qte | Typ Type Type | Werkstoff / Material / Material Gehäuse Body Corps | | DN Size Diamètre | PN Class Classe | Prüfdruck/Bar Test Press. / bar Pression d'exam. / bar | |
|--|--------------------|---------------------|---------------------|---|--------|------------------------|-----------------------|--|-----------------|
| 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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Abnahmeprüfzeugnis 3.1B nach EN 10204

| Markierung der Teile Marking of Parts Repère des pcs. | Pos. Item Pos. | Menge Qty Qte. | Typ Type Type | Werkstoff / Material / Material Gehäuse Body Cops | Abachluß / Orner Closure Member Carns de fermeture | DN Size Diamètre | PN Class Classe | Prüfdruck / Bar Test Press. / bar Pression d'exam / bar |
|---|----------------------|----------------------|---------------------|--|--|------------------------|-----------------------|---|
|---|----------------------|----------------------|---------------------|--|--|------------------------|-----------------------|---|

| | | | | | | | |
|---------------|---|------|--------|--------|-----|-------|-----------------------|
| 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.

Datum / Date / Date 31.08.2005

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XOMOX Process Valves & Actuators

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Joachim Röhling

Der Sachverständiger
The Authorized inspector
L'inspecteur autorisé

Der Werkssachverständiger
Works Inspector
Inspecteur de l'usine

CRANE

Process Flow Technologies
A Crane Co. Company



K70040

Abnahmeprüfzeugnis / Inspection certificate
EN 10204

149561

| Typ Type | Zeugnis-Nr. Certificate No. | Datum Date | Seite Page | von of |
|----------------------------|--------------------------------|---------------|---------------|-----------|
| CENTERLINE Klappe Serie RS | 19948/bp | 18.05.05 | 1 | 1 |

| | |
|----------------------------------|---|
| Auftraggeber Customer | XOMOX International GmbH & Co. / 231185 |
| Bestell-Nr. Cust. Order No. | X50191-05 LN: 1/3690 |
| Crane-Kom-Nr. Crane Order No. | 392703 |

Umfang der Lieferung/Number of items supplied

| Poz. 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 | Scheibel/ Disc 3.1B 2.2 | Sitz Seat 2.2 |
|----------------------|-----------------------|---------------------|---------------------------|--------------------|-----------------|--------------------------|-----------------------------|------------------------------|-------------------------------|---------------------|
| 1 | 1 | 150 | APGN6E199G | ANSI 150 | 10 | | | | | |
| 2 | 1 | 250 | ASSD1E1V9G | 16 | 16 | 0405/737 | L 13 / 10554 | X | | |
| 3 | 1 | 150 | APSD2E1V9H | 16 | 16 | 0405/512 | 4 HQB / 10741 | 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 checked="" type="checkbox"/> Leckrate 1 / Leakrate 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) <input type="checkbox"/> Armatur entspr. VGB62 öl- und fettfrei gereinigt (Valve in acc. to VGB63 - 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 | | | | |
| 1 | | | | | | | | | | |
| 2 | 24 | 17,6 | | | | | | | | |
| 3 | 24 | 17,6 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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
 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

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, HR B 24702, Geschäftsführer: Joachim Lukosechek, Hans D. Plak

31.08.2005, 14:12 KLOEP 149561.- - P1/3

70559

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 149561

| | | |
|--|--|---|
| CLIENTE KUNDE CUSTOMER : CRANE PROCESS FLOW TECHNOLOGIES CLIENT | RECIBO NO. DESTELL NO. ORDER NO.: /5114554/ ORDER DATE: 21/Apr/2003 COMMANDE NO. | CERTIFICADO ZEUGNIS NO CERTIFICATE NO.: 6509 CERTIFICATE NO. |
|--|--|---|

| | | | |
|--|------------------|---|----------------------|
| MATERIAL WERKSTOFF MATERIAL MATIERE | SG EN-GJS-400/15 | NORMAS DE CONTROL EESPECIFICACIONES KONTROLL NORM/SPEZIFIKATIONEN TECHNICAL REQUIREMENT/DEMAND NORMES DE CONTROL ET SPECIFICATIONS | EN 1563 DIN 50125 |
|--|------------------|---|----------------------|

| | |
|--|--|
| DESTINACION GEGENSTAD DESIGNATION DESIGNATION | DN 250 WAFER BODY (DRAWING NO. 7010556 C) |
|--|--|

| ANALYSIS QUIMICO CHEMISCHE ANALYSE/CHEMICAL ANALYSE/ANALYSE CHIMIQUE | | | | | | | |
|--|-----|-------|-------|-------|-------|-------|-------|
| COLADAN NO. SCHMELZE NO. EAT NO. COULEE NO. | L13 | C | SI | Mn | P | S | Mg |
| | | 3.540 | 2.730 | 0.230 | 0.020 | 0.009 | 0.043 |

| | | | | |
|--|-----|---|-----------------------|----------------|
| CODIGO IDENTIFICACION COLADA SCHMELZEIDENTIFIKATIONSKOD HEAT IDENTIFICATION CODE CODE IDENTIFICATION COULEE | L13 | CANTIDAD MENGE QUANTITY QUANTITE | Inv No. 4398 S Nos | DE: 11/10/2003 |
|--|-----|---|-----------------------|----------------|

| ENSAYOS MECANICOS/MECHANISCHE PRUFUNGEN/MECHANICAL TEST/ESSAIS MECANIOVES | | | | | | | | |
|---|--|---|---|---|--|---|---------------------------------|--------------|
| TRACCION/ZUGFESTIGKEIT/TENSILE/TRACTION | | | | | RESILIENCIA KERBSCHLAGARBEIT IMPACT STRENGTH/RESILIENCE | | DUREZA/HARTE HARDNESS/CURETE | |
| PROBETA II PROBE Nr. TEST NO. EPRGUV Nr. | Temperatura de Ensayo Prüf temperatur Test temperature T details | Limite Elastico Dehnance Yield Strength Limite Elastique | Cargado Rotura Zugfestigkeit Tensile Strength Fessile a Traction | Alargamiento Bruchdehnung Elongation Allongement | Temperatura de Ensayo Prüf temperatur T details | Energia Absorbida Schlagarbeit Energy of Impact Energie Absorbée | HB 10/3000 | HB 2.5/187.5 |
| EAT NO. | oC | 0.2% N/mm ² | N/mm ² | % | J | | | |
| L13 | | 338.40 | 539.20 | 17.00 | | | 170 , 170 | |

| | |
|---|-----------------|
| 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. | PECHA / DATUM / DATE / DATE 17/11 DIRECTOR CALIDAD / Q.C. MANAGER |
|--|---|

149561

10799

Inv. No. 1282

AP-3/1

Registration No. 04202W130020013 Dtd. 01.03.2002

Certificate No.: 1340 Date: 20/08/2004

"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. T. (I) LTD., SATARA | Material: W3/1 DIN EN15161:1997 |
| Part Name: DN 150 Wafer Body | Symbol: EN-GJL-250 |
| Drawing No.: 7010765 C | Number: EN-JL-1040 |
| Rev. No.: C | Quantity: 27 Nos. |
| P.O. No.: 5510051/09.01.2004 | DIE No.: 1.1 |

| CHEMICAL ANALYSIS | | | | | | | | | |
|---------------------------|--|-------|-------|-------|-------|------|------|------|--------|
| Heat No.: 4H00 | 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 | 3.340 | 1.850 | 0.690 | 0.082 | 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: 197-207 BHN |

| | | | | |
|-------------------|-----------------|-------|--------------|-------|
| MICRO EXAMINATION | Graphite Matrix | _____ | Size Carbide | _____ |
|-------------------|-----------------|-------|--------------|-------|

MECHANICAL PROPERTIES

| | Y.S. 0.2 % | N/NM2 1.00 % | UTS N/MM2 | % R.A. | % ELONG | IMPACT (J) | | | |
|-----------------|---------------|-----------------|--------------|-----------|------------|------------|-----|-----|-----|
| Specified Range | --- | --- | 250 to 350 | --- | --- | 1 | 2 | 3 | 4 |
| Actual Findings | --- | --- | 290.20 | --- | --- | --- | --- | --- | --- |

| | |
|------------------------|-----------------------------|
| SPARK & SPECIAL: _____ | 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 OR 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.

Name: *M S Koro*
Works Authorised Inspector
BEPL/F/QC - 15c



Authorised Inspector's Stamp