













4) WENN LAUT VERTRAG GEFORDERT  
IF REQUIRED PER CONTRACT  
5) ZUTREFFENDES ANKREUZEN.  
TICK OFF WHAT DOES APPLY.

DISTRIBUTION  
WHITE = ORIGINAL / ISOMETRIC  
RED = CONTRACTOR  
YELLOW = COMPUTER INPUT  
GREEN = SUP CONTRACTOR  
BLUE = PRE - FAB

3) z.B. SCHWEISSNAHT AUSFÜHRUNGS-DATUM,  
ZUTREFF. SCHWEISSVERFAHRENS-, PRÜFUNGS-NR.,  
VORWÄRMTEMP. ETC.  
E.G. TO FILL IN WELD JOINT EXECUTION DATE,  
JOINT EXECUTION DATE, APPLICABLE WEPs, PRE HEAT  
TEMP. ETC.

2) WENN LAUT TEILE - KL. GEFORDERT  
IDENT NO. AND/OR HEAT NO.  
IF REQUIRED PER PIPE SPEC.

1) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY

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|                         |  | <b>ISOMETRIE BEIBLATT</b><br><b>ISOMETRIC SUPPLEMENT</b>  |  | KOMM NR.:<br>C 13005  |  |
| Essener Hochdruck-<br>Rohrleitungsbau  |  |   |  | JOB NO.:<br>KENNWORT:<br>JOB NAME:  |  |
| ROHRLEITUNGS-NR. / MONTAGE-STÜCKL.-NR.:  |  | LIN-Pumpenkasten<br>NL21015                               |  | DWG-No.: 79319978   |  |
| PIPE LINE-NO. / MATERIAL-LIST-NO.:   |  |   |  | Blatt<br>Page 1 von 1 of 1  |  |
| TEILE-KLASSE:<br>PIPE SPEC.:   |  | SCHWEISSFIRMA:<br>WELDING CONTRACTOR:                     |  |  EHR GmbH Phone: +49(201) 3645-0<br>WOLBECKSTR. 25 / D-45329 ESSEN |  |
| SCHWEISSVERFAHRENS- BESCHEINIGUNG NR.<br>WELDING PROCEDURE SPECIFICATION NO. (WPS)                       |  | UMFANG DER ZIP<br>EXTENT OF NDE                           |  | 5) JA/NEIN /<br>YES NO.   |  |
| 1 SP-Nr. 1 to SP-Nr. 3   |  | 3   |  | D RT 10% MP MT  |  |
| 2  |  | 4   |  | US UT FE PT   |  |
| VORWÄRMUNG<br>PRE - HEATING  |  | 5 6   |  | WÄRMENACHB<br>PWHT  |  |
| 7 8  |  |   |  |   |  |
| 1) A B   |  | SCHWEISSNAHT NR.<br>WELD JOINT NO.                        |  | DN<br>NPS<br>mm   |  |
| EHR IDENT NR. 2)<br>UND / ODER SCHWEI-<br>ZEN NR. / CODE<br>EHR IDENT NO.<br>AND / OR HEAT NO. /<br>CODE |  | SCHWEISSE<br>NR<br>WELDER<br>NO.                          |  | WÄRMENACH-<br>BEHANDLUNGS-<br>UND HÄRTE-<br>PRÜFUNGS-<br>PROTOKOLL NR<br>PWHT-<br>AND HARDNESS-<br>TEST RECORD  |  |
| DURCHSTRAH-<br>LUNGS<br>PRUF NR.<br>RADIOGRAPHIC<br>TEST NO.   |  | ULTRASCHALL-<br>REPORT NR.<br>ULTRA - SONIC<br>REPORT NO. |  | VERWECHS-<br>LUNGS-<br>REPORT NR.<br>ALLY VERI-<br>FICATION<br>REPORT NO  |  |
| FE - ODER<br>MP - REPORT<br>NR.<br>PT - OR<br>MT - REPORT<br>NO.   |  | BEMERKUNGEN 3)<br>COMMENTS                                |  |   |  |
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| 2  |  | 487747  |  | 103   |  |
| 3  |  | D482109   |  | 25  |  |
| 4  |  | D482109   |  | 103   |  |
| 5  |  | 485515  |  | 25  |  |
| 6  |  | 485515  |  | 103   |  |
| 7  |  | 290560  |  | 098   |  |
| 8  |  | 290560  |  | 20  |  |
| 9  |  | 482479  |  | 103   |  |
| 10   |  | 482479  |  | 20  |  |
| 11   |  | 482479  |  | 43  |  |
| 12   |  |   |  | VA / Buntmetallnaht   |  |
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)) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY

ES. TO FILL IN WELD JOINT EXECUTION DATE,  
JOINT EXECUTION DATE, APPLICABLE WEPS, PRE HEAT  
TEMP., ETC.

[illegible]

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| ROHRLEITUNGS-NR. / MONTAGE-STÜCKL.-NR.:<br>PIPE LINE-NO. / MATERIAL-LIST-NO.:  |  |  |  |   |  | <b>LIN-Pumpenkasten</b><br><b>NL71101</b>                      |  | <b>DWG-No.: 79319981</b>  |  | Blatt<br>Page <b>1</b> von<br>of <b>3</b>   |  |   |  |   |  |  |  |                            |  |
| TEILE-KLASSE:<br>PIPE SPEC.:   |  |  |  |   |  | SCHWEISSFIRMA:<br>WELDING CONTRACTOR:                          |  |   |  |  <b>EHR GmbH</b> Phone: +49(201) 3645-0<br><b>WOLBECKSTR. 25 / D-45329 ESSEN</b> |  |   |  |   |  |  |  |                            |  |
| SCHWEISSVERFAHRENS-BESCHREIBUNG NR.<br>WELDING PROCEDURE SPECIFICATION NO. (WPS)   |  |  |  |   |  | UMFANG DER ZIP<br>EXTENT OF NOE                                |  |   |  | 5) JA/NEIN/<br>YES/NO   |  |   |  |   |  |  |  |                            |  |
| 1 <b>SP-Nr. 1 to SP-Nr. 3</b> 3  |  |  |  |   |  | D <b>50%</b> MP<br>RT MT<br>US FE<br>UT PT                     |  |   |  | VORWÄRMUNG<br>PRE - HEATING <b>5 6</b><br>WÄRMENACHB.<br>PWHT <b>7 8</b>  |  |   |  |   |  |  |  |                            |  |
| 1) A<br>B  |  | SCHWEISSNAHT NR.<br>WELD JOINT NO.                       |  | DN<br>NPS<br>mm   |  | SCHWEISSER<br>NR.<br>WELDER<br>NO.                             |  | WÄRMENACH-<br>BEHANDLUNGS-<br>UND HARTE-<br>PRÜFUNGS-<br>PROTOKOLL NR.<br>PWHT-<br>AND HARDNESS-<br>TEST RECORD |  | DURCHSTRAH-<br>LUNGS<br>PRÜF NR.<br>RADIOGRAPHIC<br>TEST NO.  |  | ULTRASCHALL-<br>REPORT NR.<br>ULTRA - SONIC<br>REPORT NO. |  | VERWECHS-<br>LUNGS-<br>REPORT NR.<br>ALLY VERI-<br>FICATION<br>REPORT NO. |  | FE - ODER<br>MP - REPORT<br>NR.<br>PT - OR<br>MT - REPORT<br>NO. |  | BEMERKUNGEN 3)<br>COMMENTS |  |
| 9  |  | S 2140<br>34339 / 470008                                 |  | 32  |  | 103  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 8  |  | 34339 / 470008<br>489631                                 |  | 50  |  | 103  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 7  |  | 489631<br>28147 / 485869                                 |  | 50  |  | 101  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 6  |  | 28147 / 485869<br>489631                                 |  | 25  |  | 101  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 5  |  | 489631<br>370137   |  | 50  |  | 101  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 4  |  | 370137<br>487747   |  | 50  |  | 103  |  |   |  |   |  |   |  |   |  |  |  |                            |  |
| 3  |  | 370137<br>489631   |  | 50  |  | 101  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 2  |  | 489631<br>28147 / 485869                                 |  | 50  |  | 101  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 1  |  | 28147 / 485869<br>28147 / 485869                         |  | 50  |  | 103  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 10   |  | 28147 / 485869<br>S 2597                                 |  | 50  |  | 103  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
|  |  |  |  | 50  |  |  |  |   |  |   |  |   |  |   |  |  |  | Rückschlagventil R 71151   |  |
| 11   |  | S 2597<br>489631   |  | 50  |  | 101  |  |   |  | 063   |  |   |  |   |  |  |  |                            |  |
| 12   |  | 489631<br>451784   |  | 15  |  | 103  |  |   |  |   |  |   |  |   |  |  |  |                            |  |
| 35   |  | 489631<br>489631   |  | 50  |  | 103  |  |   |  |   |  |   |  |   |  |  |  |                            |  |
| 25   |  | 489631<br>487747   |  | 25  |  | 103  |  |   |  |   |  |   |  |   |  |  |  |                            |  |
| 26   |  | 487747<br>E 58   |  | 25  |  | 103  |  |   |  |   |  |   |  |   |  |  |  |                            |  |
| 36   |  | 489631<br>489631   |  | 50  |  | 103  |  |   |  |   |  |   |  |   |  |  |  |                            |  |
| 27   |  | 489631   |  | 50  |  | 103  |  |   |  |   |  |   |  |   |  |  |  |                            |  |
| 28   |  | 489631   |  | 50  |  | 103  |  |   |  |   |  |   |  |   |  |  |  | Kälteventil V 71152        |  |
| 29   |  | 489631<br>28147 / 485869                                 |  | 50  |  | 103  |  |   |  | 065   |  |   |  |   |  |  |  |                            |  |
| 30   |  | 28147 / 485869<br>489631                                 |  | 50  |  | 103  |  |   |  | 065   |  |   |  |   |  |  |  |                            |  |
| 31   |  | 489631<br>33303  |  | 50  |  | 103  |  |   |  | 065   |  |   |  |   |  |  |  |                            |  |
| FERTIGUNGSSTAND<br>FABRICATION STATUS  |  |  |  | <input checked="" type="checkbox"/> VORFERTIGUNG ABGESCHLOSSEN<br>PRE _ FABRICATION |  |  |  | <input checked="" type="checkbox"/> FELD MONTAGE ABGESCHLOSSEN<br>FIELD ASSEMBLY COMPLETED                      |  |   |  |   |  |   |  |  |  |                            |  |
| 19. SEP. 2005<br>UNTERSCHRIFT / DATUM  |  |  |  | SIGNATURE / DATE  |  |  |  | EHR<br>19. SEP. 2005<br>UNTERSCHRIFT / DATUM  |  |   |  | SIGNATURE / DATE  |  |   |  |  |  |                            |  |
| PRÜFAUFSICHT DER SCHWEISSFIRMA<br>QUALITY CONTROL OF WELDING CONTRACTOR  |  |  |  |   |  |  |  | ABNAHME - BEHÖRDE 4)<br>INSPECTION - AUTHORITY  |  |   |  | UNTERSCHRIFT / DATUM<br>SIGNATURE / DATE                  |  |   |  |  |  |                            |  |

11) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY

11) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY












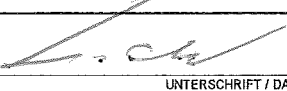
4) WENN LAUT VERTRAG GEFORDERT  
IF REQUIRED PER CONTRACT  
5) ZUTREFFENDES ANKREUZEN.  
TICK OFF WHAT DOES APPLY.

DISTRIBUTION  
WHITE = ORIGINAL / ISOMETRIC  
RED = CONTRACTOR  
YELLOW = COMPUTER INPUT  
GREEN = SUP CONTRACTOR  
BLUE = PRE - FAB

3)

2) WENN LAUT TEILE - KL. GEFORDERT  
IDENT NO. AND/OR HEAT NO.  
IF REQUIRED PER PIPE SPEC.

1) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY

|   |                      |  |  |   |                                   |   |  |   |   |  |                            |
|---|----------------------|--|--|---|-----------------------------------|---|--|---|---|--|----------------------------|
|                  |                      | <b>ISOMETRIE BEIBLATT</b><br><b>ISOMETRIC SUPPLEMENT</b> |  | KOMM NR.: <b>C 13005</b>  |                                   |   |  |   |   |  |                            |
|   |                      |  |  | JOB NO.:  |                                   |   |  |   |   |  |                            |
|   |                      |  |  | KENNWORD:   |                                   |   |  |   |   |  |                            |
|   |                      |  |  | JOB NAME:   |                                   |   |  |   |   |  |                            |
| ROHRLEITUNGS-NR. / MONTAGE-STÜCKL.-NR.:   |                      | LIN-Pumpenkasten A15034 /                                |  | DWG-No.: 79319985   |                                   |   |  |   |   |  |                            |
| PIPE LINE-NO. / MATERIAL-LIST-NO.:  |                      |  |  | Blatt 1 von 1<br>Page of  |                                   |   |  |   |   |  |                            |
| TEILE-KLASSE:   |                      | SCHWEISSFIRMA:   |  |  EHR GmbH Phone: +49(201) 3645-0 |                                   |   |  |   |   |  |                            |
| PIPE SPEC.:   |                      | WELDING CONTRACTOR:                                      |  | WOLBECKSTR. 25 / D-45329 ESSEN  |                                   |   |  |   |   |  |                            |
| SCHWEISSVERFAHRENS- BESCHREIBUNG NR.:   |                      | UMFANG DER ZIP   |  | 5) JA/NEIN/   |                                   |   |  |   |   |  |                            |
| WELDING PROCEDURE SPECIFICATION NO. (WPS)   |                      | EXTENT OF NDE  |  | YES/NO  |                                   |   |  |   |   |  |                            |
| 1   | SP-Nr. 1 to SP-Nr. 3 | 3  | D RT 50%   | MP MT   | VORWÄRMUNG<br>PRE - HEATING       |   |  |   |   |  |                            |
| 2   |                      | 4  | US UT  | FE PT   | WÄRMENACHB<br>PWHT                |   |  |   |   |  |                            |
| 1) A  | B                    | SCHWEISSNAHT NR.<br>WELD JOINT NO.                       | EHR IDENT NR. 2)<br>UND / ODER SCHWEI-<br>ZEN NR. / CODE<br>EHR IDENT NO.<br>AND / OR HEAT NO. /<br>CODE | DN<br>NPS<br>mm   | SCHWEISSE<br>NR.<br>WELDER<br>NO. | WÄRMENACH-<br>BEHANDLUNGS-<br>UND HARTE-<br>PRÜFUNGS-<br>PROTOKOLL NR.<br>PWHT-<br>AND HARDNESS-<br>TEST RECORD | DURCHSTRAH-<br>LUNGS<br>FRUF NR.<br>RADIOGRAPHIC<br>TEST NO. | ULTRASCHALL-<br>REPORT NR.<br>ULTRA - SONIC<br>REPORT NO. | VERWECHS-<br>LUNGS-<br>REPORT NR.<br>ALLY VERI-<br>FICATION<br>REPORT NO. | FE - ODER<br>MP - REPORT<br>NR.<br>PT - OR<br>MT - REPORT<br>NO. | BEMERKUNGEN 3)<br>COMMENTS |
| 1   |                      | 487747   | 25   | 103   |                                   |   |  |   |   |  |                            |
| 2   |                      | 487747   | 25   | 103   |                                   |   | 095  |   |   |  |                            |
| 3   |                      | D482109  | 25   | 103   |                                   |   | 083  |   |   |  |                            |
| 4   |                      | 487747   | 25   | 103   |                                   |   | 083  |   |   |  |                            |
| 5   |                      | 290560   | 25   | 103   |                                   |   | 083  |   |   |  |                            |
| 6   |                      | 290560   | 20(28,0)   | 103   |                                   |   | 083  |   |   |  |                            |
| 7   |                      | 034228 / 156068  | 20(28,0)   | 43  |                                   |   |  |   |   |  | VA / Buntmetallnaht        |
| 8   |                      | 034228 / 156068  | 20(28,0)   |   |                                   |   |  |   |   |  | R 71192                    |
| 9   |                      | 98102  | 20(28,0)   | 43  |                                   |   |  |   |   |  | VA / Buntmetallnaht        |
| 10  |                      | 98102  | 20   |   |                                   |   |  |   |   |  |                            |
| 11  |                      | 482479   | 20   | 43  |                                   |   |  |   |   |  | VA / Buntmetallnaht        |
| 12  |                      |  |  |   |                                   |   |  |   |   |  | V 71191                    |
| 13  |                      |  |  |   |                                   |   |  |   |   |  |                            |
| 14  |                      |  |  |   |                                   |   |  |   |   |  |                            |
| 15  |                      | 482479   | 20   | 43  |                                   |   |  |   |   |  | VA / Buntmetallnaht        |
| FERTIGUNGSSTAND   |                      | :  |  | <input checked="" type="checkbox"/> VORFERTIGUNG ABGESCHLOSSEN  |                                   | <input checked="" type="checkbox"/> FELD MONTAGE ABGESCHLOSSEN  |  |   |   |  |                            |
| FABRICATION STATUS  |                      | :  |  | PRE _ FABRICATION   |                                   | FIELD ASSEMBLY COMPLETED  |  |   |   |  |                            |
|  19. SEP. 2005 |                      | SIGNATURE / DATE   |  |  19. SEP. 2005                 |                                   | SIGNATURE / DATE  |  |   |   |  |                            |
| PRÜFAUFSICHT DER SCHWEISSFIRMA  |                      | QUALITY CONTROL OF WELDING CONTRACTOR                    |  | ABNAHME - BEHÖRDE 4)  |                                   | INSPECTION - AUTHORITY  |  |   |   |  |                            |
|   |                      |  |  | UNTERSCHRIFT / DATUM  |                                   | SIGNATURE / DATE  |  |   |   |  |                            |







4) WENN LAUT VERTRAG GEFORDERT  
IF REQUIRED PER CONTRACT  
5) ZUTREFFENDES ANKREUZEN.  
TICK OFF WHAT DOES APPLY.

DISTRIBUTION  
WHITE = ORIGINAL / ISOMETRIC  
RED = CONTRACTOR  
YELLOW = COMPUTER INPUT  
GREEN = SUP CONTRACTOR  
BLUE = PRE - FAB

2) Z.B. SCHWEISSNAHT AUSFÜHRUNGS-DATUM,  
ZUTREFF. SCHWEISSVERFAHRENS-, PRÜFUNGS-NR.,  
VORWÄRMTEMP. ETC.  
3) E.G. TO FILL IN WELD JOINT EXECUTION DATE,  
JOINT EXECUTION DATE, APPLICABLE WELPS, PRE HEAT  
TEMP. ETC.

2) WENN LAUT TEILE - KL. GEFORDERT  
IF REQUIRED PER PIPE SPEC.

1) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY

|   |                                    |  |                                   |  |  |   |  |  |                            |
|---|------------------------------------|--|-----------------------------------|--|--|---|--|--|----------------------------|
|  |                                    | <b>ISOMETRIE BEIBLATT</b><br><b>ISOMETRIC SUPPLEMENT</b>         |                                   | KOMM NR.: <b>C 13005</b>   |  |   |  |  |                            |
|   |                                    |  |                                   | JOB NO.:   |  |   |  |  |                            |
|   |                                    |  |                                   | KENNWORT: <b>ASU No. 9 Kosice</b>  |  |   |  |  |                            |
|   |                                    |  |                                   | JOB NAME:  |  |   |  |  |                            |
| ROHRLEITUNGS-NR. / MONTAGE-STÜCKL.-NR.:   |                                    | <b>LIN-Pumpenkasten</b>  |                                   | DWG-No.: <b>79319987</b>   |  |   |  |  |                            |
| PIPE LINE-NO. / MATERIAL-LIST-NO.:  |                                    | <b>NL71201</b>   |                                   | Blatt <b>1</b> von <b>2</b><br>Page of   |  |   |  |  |                            |
| TEILE-KLASSE:   |                                    | SCHWEISSFIRMA:   |                                   |  <b>EHR GmbH Phone: +49(201) 3845-0</b> |  |   |  |  |                            |
| PIPE SPEC.:   |                                    | WELDING CONTRACTOR:  |                                   | <b>WOLBECKSTR. 25 / D-45329 ESSEN</b>  |  |   |  |  |                            |
| SCHWEISSVERFAHRENS- BESCHREIBUNG NR.:   |                                    | UMFANG DER ZIP   |                                   | 5) JA/NEIN /   |  |   |  |  |                            |
| WELDING PROCEDURE SPECIFICATION NO. (WPS)   |                                    | EXTENT OF NOE  |                                   | YES NO   |  |   |  |  |                            |
| 1 <b>SP-Nr. 1 to SP-Nr. 3</b>   |                                    | D <b>50%</b>   |                                   | VORWÄRMUNG   |  |   |  |  |                            |
| 2   |                                    | RT   |                                   | PRE - HEATING  |  |   |  |  |                            |
|   |                                    | US   |                                   | WÄRMENACHB.  |  |   |  |  |                            |
|   |                                    | FE   |                                   | PWHT   |  |   |  |  |                            |
|   |                                    | PT   |                                   | 5 6  |  |   |  |  |                            |
|   |                                    |  |                                   | 7 8  |  |   |  |  |                            |
| 1) A  | SCHWEISSNAHT NR.<br>WELD JOINT NO. | DN<br>NPS<br>mm  | SCHWEISSER<br>NR.<br>WELDER<br>NO | WÄRMENACH-<br>BEHANDLUNGS-<br>UND HARTE-<br>PRÜFUNGS-<br>PROTOKOLL NR<br>PWHT-<br>AND HARDNESS-<br>TEST RECORD             | DURCHSTRAH-<br>LUNGS<br>PRÜF NR.<br>RADIOGRAPHIC<br>TEST NO. | ULTRASCHALL-<br>REPORT NR.<br>ULTRA - SONIC<br>REPORT NO. | VERWECHS-<br>LUNGS-<br>REPORT NR.<br>ALLY VERI-<br>FICATION<br>REPORT NO | FE - ODER<br>MP - REPORT<br>NR<br>PT - OR<br>MT - REPORT<br>NO | BEMERKUNGEN 3)<br>COMMENTS |
| B   |                                    |  |                                   |  |  |   |  |  |                            |
|   | 9                                  | S 2140<br>470008 / 34339   | 32                                | 103  |  |   |  |  |                            |
|   | 8                                  | 470008 / 34339<br>489631   | 50                                | 103  | 056  |   |  |  |                            |
|   | 7                                  | 489631<br>28147 / 485869   | 50                                | 103  | 056  |   |  |  |                            |
|   | 6                                  | 28147 / 485869<br>489631   | 50                                | 103  | 056  |   |  |  |                            |
|   | 5                                  | 489631<br>370137   | 50                                | 103  | 056  |   |  |  |                            |
|   | 4                                  | 370137<br>487747   | 25                                | 103  |  |   |  |  |                            |
|   | 3                                  | 370137<br>489631   | 50                                | 103  | 056  |   |  |  |                            |
|   | 2                                  | 489631<br>28147 / 485869   | 50                                | 103  | 056  |   |  |  |                            |
|   | 1                                  | 28147 / 485869<br>33303  | 50                                | 103  | 056  |   |  |  |                            |
|   | 10                                 | 33303<br>S 2597  | 50                                | 103  |  |   |  |  |                            |
|   |                                    |  | 50                                |  |  |   |  |  | R 71251                    |
|   | 11                                 | S 2597<br>489631   | 50                                | 101  | 064  |   |  |  |                            |
|   | 12                                 | 489631<br>451784   | 15                                | 103  |  |   |  |  |                            |
|   | 31                                 | 489631<br>489631   | 50                                | 103  |  |   |  |  |                            |
|   | 24                                 | 489631<br>485515   | 25                                | 103  |  |   |  |  |                            |
|   | 32                                 | 485515<br>E 58   | 25                                | 103  |  |   |  |  |                            |
|   | 30                                 | 489631<br>489631   | 50                                | 103  |  |   |  |  |                            |
|   | 25                                 | 489631   | 50                                | 103  |  |   |  |  | V 71252                    |
|   | 26                                 | 489631   | 50                                | 103  |  |   |  |  |                            |
|   | 27                                 | 489631<br>28147 / 485869   | 50                                | 103  | 064  |   |  |  |                            |
|   | 28                                 | 28147 / 485869<br>489631   | 50                                | 103  | 064  |   |  |  |                            |
|   | 29                                 | 489631<br>33303  | 50                                | 103  |  |   |  |  |                            |
| FERTIGUNGSSTAND   |                                    | : <input checked="" type="checkbox"/> VORFERTIGUNG ABGESCHLOSSEN |                                   | : <input checked="" type="checkbox"/> FELD MONTAGE ABGESCHLOSSEN   |  |   |  |  |                            |
| FABRICATION STATUS  |                                    | : PRE _ FABRICATION  |                                   | : FIELD ASSEMBLY COMPLETED   |  |   |  |  |                            |
| 19. SEP. 2005   |                                    | SIGNATURE / DATE   |                                   | 19. SEP. 2005  |  | SIGNATURE / DATE  |  |  |                            |
| PRÜFAUFSICHT DER SCHWEISSFIRMA  |                                    |  |                                   | ABNAHME - BEHÖRDE 4)   |  |   |  |  |                            |
| QUALITY CONTROL OF WELDING CONTRACTOR   |                                    |  |                                   | INSPECTION - AUTHORITY   |  |   |  |  |                            |













) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY







4) WENN LAUT VERTRAG GEFORDERT  
IF REQUIRED PER CONTRACT  
5) ZUTREFFENDES ANKREUZEN.  
TICK OFF WHAT DOES APPLY.

DISTRIBUTION  
WHITE = ORIGINAL / ISOMETRIC  
RED = CONTRACTOR  
YELLOW = COMPUTER INPUT  
GREEN = SUP CONTRACTOR  
BLUE = PRE - FAB

3) Z.B. SCHWEISSNAHT AUSFÜHRUNGS-DATUM,  
ZUTREFF. SCHWEISSVERFAHRENS- PRÜFUNGSNR.,  
VORWÄRMTEMP. ETC.  
E.G. TO FILL IN WELD JOINT EXECUTION DATE,  
JOINT EXECUTION DATE, APPLICABLE WPS, PRE HEAT  
TEMP. ETC.

2) WENN LAUT TEILE - KL. GEFORDERT  
IDENT NO. AND/OR HEAT NO.  
IF REQUIRED PER PIPE SPEC.

1) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY

|  |  |  |  |  |  |   |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
|--|--|--|--|--|--|---|--|---|--|---|--|--|--|---|--|---|--|--|--|----------------------------|--|
|  <b>Essener Hochdruck-Rohrleitungsbau</b> |  | <b>ISOMETRIE BEIBLATT<br/>ISOMETRIC SUPPLEMENT</b> |  | KOMM NR.:<br>JOB NO.:<br>KENNWO RT:<br>JOB NAME:   |  | <b>C 13005</b><br><br><b>ASU No. 9 Kosice</b> |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| ROHRLEITUNGS-NR. / MONTAGE-STÜCKL.-NR.:<br>PIPE LINE-NO. / MATERIAL-LIST-NO.:  |  |  |  | <b>LIN-Pumpenkasten<br/>NL71202</b>  |  | <b>DWG-No.: 79319994</b>                      |  | Blatt<br>Page   |  | 1 von<br>of   |  | 2  |  |   |  |   |  |  |  |                            |  |
| TEILE-KLASSE:<br>PIPE SPEC.:   |  |  |  | SCHWEISSFIRMA:<br>WELDING CONTRACTOR:  |  |   |  |  <b>EHR GmbH Phone: +49(201) 3845-0<br/>WOLBECKSTR. 25 / D-45329 ESSEN</b> |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| SCHWEISSVERFAHRENS-BESCHEINIGUNG NR.:<br>WELDING PROCEDURE SPECIFICATION NO. (WPS)   |  |  |  | UMFANG DER ZIP<br>EXTENT OF NDE  |  |   |  | 5) JA/NEIN/<br>YES/NO   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| 1 <b>SP-Nr. 1 to SP-Nr. 3</b> 3  |  |  |  | D RT 50% MP MT   |  |   |  | VORWÄRMUNG<br>PRE - HEATING   |  |   |  | 5 6  |  |   |  |   |  |  |  |                            |  |
| 2 <b>SP-Nr. S 1.0 to SP-Nr. S 6.0</b> 4  |  |  |  | US UT FE PT  |  |   |  | WÄRMENACHB.<br>PWHT   |  |   |  | 7 8  |  |   |  |   |  |  |  |                            |  |
| 1) A<br>B  |  | SCHWEISSNAHT NR.<br>WELD JOINT NO.                 |  | EHR IDENT NR. 2)<br>UND / ODER SCHWEI-<br>ZEN NR. / CODE<br>EHR IDENT NO.<br>AND / OR HEAT NO. /<br>CODE |  | DN<br>NPS<br>mm                               |  | SCHWEISSER<br>NR.<br>WELDER<br>NO.  |  | WÄRMENACH-<br>BEHANDLUNGS-<br>UND HÄRTE-<br>PRÜFUNGS-<br>PROTOKOLL NR.<br>PWHT-<br>AND HARDNESS-<br>TEST RECORD |  | DURCHSTRAH-<br>LUNGS<br>PRÜF NR.<br>RADIOGRAPHIC<br>TEST NO. |  | ULTRASCHALL-<br>REPORT NR.<br>ULTRA - SONIC<br>REPORT NO. |  | VERWECHS-<br>LUNGS-<br>REPORT NR.<br>ALLY VERI-<br>FICATION<br>REPORT NO. |  | FE - ODER<br>MP - REPORT<br>NR.<br>PT - OR<br>MT - REPORT<br>NO. |  | BEMERKUNGEN 3)<br>COMMENTS |  |
|  |  |  |  |  |  |   |  |   |  |   |  |  |  |   |  |   |  |  |  | BR = Badsicherung          |  |
| 1  |  | 33303  |  | 50   |  | 103   |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| 2  |  | 489631   |  | 15   |  | 103   |  |   |  |   |  |  |  |   |  |   |  |  |  | Mess-Stutzen               |  |
| 2.1  |  | 825240   |  | 15   |  | 103   |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| 3  |  | 489631   |  | 50   |  | 103   |  |   |  |   |  | 078  |  |   |  |   |  |  |  |                            |  |
| 4  |  | 28147 / 485869                                     |  | 50   |  | 103   |  |   |  |   |  | 078  |  |   |  |   |  |  |  |                            |  |
| 5  |  | 489631   |  | 50   |  | 103   |  |   |  |   |  | 078  |  |   |  |   |  |  |  |                            |  |
| 6  |  | 28147 / 485869                                     |  | 50   |  | 103   |  |   |  |   |  | 078  |  |   |  |   |  |  |  |                            |  |
| 7  |  | 489631   |  | 50   |  | 103   |  |   |  |   |  | 078  |  |   |  |   |  |  |  |                            |  |
| 8  |  | 370146   |  | 25   |  | 103   |  |   |  |   |  |  |  |   |  |   |  |  |  | Kälteventil PV 71270       |  |
| 9  |  | 370146   |  | 25   |  |   |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| 10   |  | 370146   |  | 50   |  |   |  |   |  |   |  | 073  |  |   |  |   |  |  |  |                            |  |
| 11   |  | 28147 / 485869                                     |  | 50   |  |   |  |   |  |   |  | 073  |  |   |  |   |  |  |  |                            |  |
| 12   |  | 489631   |  | 15   |  |   |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| 24   |  | 489631   |  |  |  |   |  |   |  |   |  | 073  |  |   |  |   |  |  |  |                            |  |
| 25   |  | 28147 / 485869                                     |  | 80   |  |   |  |   |  |   |  | 073  |  |   |  |   |  |  |  |                            |  |
| 26   |  | 489631   |  | 50   |  |   |  |   |  |   |  |  |  |   |  |   |  |  |  | Kälteventil V 71171        |  |
| 27   |  | 489631   |  | 50   |  |   |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| 28   |  | 489631   |  | 50   |  |   |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| 29   |  | Transitionjoint                                    |  | 50   |  | 160   |  |   |  |   |  |  |  |   |  |   |  |  |  | ALU-Naht                   |  |
| 30   |  | 77038146   |  | 50   |  | 133   |  |   |  |   |  |  |  |   |  |   |  |  |  | ALU-Naht                   |  |
| 30   |  | 77038146   |  | 50   |  | 133   |  |   |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| FERTIGUNGSSTAND<br>FABRICATION STATUS  |  |  |  | <input checked="" type="checkbox"/> VORFERTIGUNG ABGESCHLOSSEN<br>PRE_FABRICATION                        |  |   |  | <input checked="" type="checkbox"/> FELD MONTAGE ABGESCHLOSSEN<br>FIELD ASSEMBLY COMPLETED  |  |   |  |  |  |   |  |   |  |  |  |                            |  |
| 19. SEP. 2005  |  |  |  | SIGNATURE / DATE   |  |   |  | EHR   |  |   |  | 19. SEP. 2005  |  |   |  |   |  |  |  |                            |  |
| UNTERSCHRIFT / DATUM   |  |  |  | SIGNATURE / DATE   |  |   |  | UNTERSCHRIFT / DATUM  |  |   |  | SIGNATURE / DATE   |  |   |  |   |  |  |  |                            |  |
| PRÜFAUFSICHT DER SCHWEISSFIRMA<br>QUALITY CONTROL OF WELDING CONTRACTOR  |  |  |  |  |  |   |  | ABNAHME - BEHÖRDE 4)<br>INSPECTION - AUTHORITY  |  |   |  |  |  |   |  |   |  |  |  |                            |  |
|  |  |  |  |  |  |   |  | UNTERSCHRIFT / DATUM  |  |   |  | SIGNATURE / DATE   |  |   |  |   |  |  |  |                            |  |

4) WENN LAUT VERTRAG GEFORDERT  
IF REQUIRED PER CONTRACT



5) ZUTREFFENDES ANKREUZEN.  
TICK OFF WHAT DOES APPLY.

DISTRIBUTION  
WHITE = ORIGINAL / ISOMETRIC  
RED = CONTRACTOR  
YELLOW = COMPUTER INPUT  
GREEN = SUP CONTRACTOR  
BLUE = PRE - FAB

3) z.B. SCHWEISSNAHT AUSFÜHRUNGS-DATUM,  
ZUTREFF. SCHWEISSVERFAHRENS-, PRÜFUNGS-NR.,  
VORWÄRMTEMP. ETC.  
E.G. TO FILL IN WELD JOINT EXECUTION DATE,  
JOINT EXECUTION DATE, APPLICABLE WELPS, PRE HEAT  
TEMP., ETC.

2) WENN LAUT TEILE - KL. GEFORDERT  
IDENT NO. AND/OR HEAT NO.  
IF REQUIRED PER PIPE SPEC.

1) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY

|  |         |  |   |  |   |   |   |   |  |                                   |
|--|---------|--|---|--|---|---|---|---|--|-----------------------------------|
|  <b>Essener Hochdruck-Rohrleitungsbau</b> |         | <b>ISOMETRIE BEIBLATT</b><br><b>ISOMETRIC SUPPLEMENT</b> |   |  |   | KOMM NR.: <b>C 13005</b><br>JOB NO.:<br>KENNWORT: <b>ASU No. 9 Kosice</b><br>JOB NAME:  |   |   |  |                                   |
| ROHRLEITUNGS-NR. / MONTAGE-STÜCKL.-NR.:<br>PIPE LINE-NO. / MATERIAL-LIST-NO.:  |         |  | <b>LIN-Pumpenkasten</b><br><b>NL71202</b>   |  |   | DWG-No.: <b>79319994</b>  |   | Blatt <b>2</b> von <b>2</b><br>Page <b>2</b> of <b>2</b>                        |  |                                   |
| TEILE-KLASSE:<br>PIPE SPEC.:   |         |  | SCHWEISSFIRMA:<br>WELDING CONTRACTOR:   |  |   |  <b>EHR GmbH</b> Phone: +49(201) 3645-0<br><b>WOLBECKSTR. 25 / D-45329 ESSEN</b> |   |   |  |                                   |
| SCHWEISSVERFAHRENS- BESCHEINIGUNG NR.<br>WELDING PROCEDURE SPECIFICATION NO. (WPS)   |         |  | UMFANG DER ZIP<br>EXTENT OF NDE   |  | 5) JA/NEIN / YES/NO   |   |   |   |  |                                   |
| 1 <b>SP-Nr. 1 to SP-Nr. 3</b> 3  |         |  | D 50% RT MT   |  | VORWÄRMUNG<br>PRE - HEATING   |   |   |   |  |                                   |
| 2 4  |         |  | US FE PT  |  | WÄRMENACHB.<br>PWHT   |   |   |   |  |                                   |
| 1)<br>A  | 2)<br>B | 3)<br>SCHWEISSNAHT NR.<br>WELD JOINT NO.                 | 4)<br>DN<br>NPS<br>mm   | 5)<br>SCHWEISSER<br>NR.<br>WELDER<br>NO. | 6)<br>WÄRMENACH-<br>BEHANDLUNGS-<br>UND HÄRTE-<br>PRÜFUNGS-<br>PROTOKOLL NR.<br>PWHT-<br>AND HARDNESS-<br>TEST RECORD | 7)<br>DURCHSTRAH-<br>LUNGS<br>PRUF NR.<br>RADIOGRAPHIC<br>TEST NO.  | 8)<br>ULTRASCHALL-<br>REPORT NR.<br>ULTRA - SONIC<br>REPORT NO. | 9)<br>VERWECHS-<br>LUNGS-<br>REPORT NR.<br>ALLY VERI-<br>FICATION<br>REPORT NO. | 10)<br>FE - ODER<br>N/P - REPORT<br>NR.<br>PT - OR<br>MT - REPORT<br>NO. | 11)<br>BEMERKUNGEN 3)<br>COMMENTS |
|  |         | 14   | 15  |  |   |   |   |   |  |                                   |
|  |         | 15   | 15  |  |   |   |   |   |  |                                   |
|  |         | 16   | 15  |  |   |   |   |   |  |                                   |
|  |         | 17   | 15  |  |   |   |   |   |  |                                   |
|  |         | 18   | 15  |  |   |   |   |   |  |                                   |
|  |         | 19   | 15  | 103                                      |   |   |   |   |  |                                   |
|  |         | 20   | 15  |  |   |   |   |   |  |                                   |
|  |         | 21   | 15  |  |   |   |   |   |  |                                   |
|  |         | 22   | 15  |  |   |   |   |   |  |                                   |
|  |         | 23   | 15  |  |   |   |   |   |  |                                   |
|  |         | 23.1   | 15  | 103                                      |   |   |   |   |  | Bordscheibe                       |
|  |         | 24   | 15  | 103                                      |   |   |   |   |  |                                   |
| FERTIGUNGSSTAND :  |         |  | <input checked="" type="checkbox"/> VORFERTIGUNG ABGESCHLOSSEN<br>PRE _ FABRICATION |  |   | <input checked="" type="checkbox"/> FELD MONTAGE ABGESCHLOSSEN<br>FIELD ASSEMBLY COMPLETED  |   |   |  |                                   |
| FABRICATION STATUS :   |         |  |   |  |   |   |   |   |  |                                   |
| 19. SEP. 2005<br>UNTERSCHRIFT / DATUM  |         |  | SIGNATURE / DATE  |  |   | 19. SEP. 2005<br>UNTERSCHRIFT / DATUM   |   |   |  |                                   |
| PRÜFAUFSICHT DER SCHWEISSFIRMA   |         |  |   |  |   | ABNAHME - BEHÖRDE 4)  |   |   |  |                                   |
| QUALITY CONTROL OF WELDING CONTRACTOR  |         |  |   |  |   | INSPECTION - AUTHORITY  |   |   |  |                                   |
|  |         |  |   |  |   | UNTERSCHRIFT / DATUM SIGNATURE / DATE   |   |   |  |                                   |







4) WENN LAUT VERTRAG GEFORDERT  
IF REQUIRED PER CONTRACT  
5) ZUTREFFENDES ANKREUZEN,  
TICK OFF WHAT DOES APPLY.

DISTRIBUTION  
WHITE = ORIGINAL / ISOMETRIC  
RED = CONTRACTOR  
YELLOW = COMPUTER INPUT  
GREEN = SUP CONTRACTOR  
BLUE = PRE - FAB

3) Z.B. SCHWEISSNAHT AUSFÜHRUNGS-DATUM,  
ZUTREFF. SCHWEISSVERFAHRENS-, PRÜFUNGS-NR.,  
VORWÄRMTEMP. ETC.  
E.G. TO FILL IN WELD JOINT EXECUTION DATE,  
JOINT EXECUTION DATE, APPLICABLE WELPS, PRE HEAT  
TEMP. ETC.

2) WENN LAUT TEILE - KL. GEFORDERT  
IF REQUIRED PER PIPE SPEC.

1) A = VORFERTIGUNG / PRE - FABRICATION  
B = FELD MONTAGE / FIELD ASSEMBLY

|  |                                    |  |                                   |   |  |   |  |  |                            |
|--|------------------------------------|--|-----------------------------------|---|--|---|--|--|----------------------------|
|   |                                    | <b>ISOMETRIE BEIBLATT</b><br><b>ISOMETRIC SUPPLEMENT</b> |                                   | KOMM NR.:<br>C 13005  |  |   |  |  |                            |
|  |                                    |  |                                   | JOB NO.:  |  |   |  |  |                            |
|  |                                    |  |                                   | KENNWORT:   |  |   |  |  |                            |
|  |                                    |  |                                   | JOB NAME:   |  |   |  |  |                            |
| ROHRLEITUNGS-NR. / MONTAGE-STÜCKL.-NR.:  |                                    | LIN-Pumpenkasten   |                                   | DWG-No.: 79319997   |  |   |  |  |                            |
| PIPE LINE-NO. / MATERIAL-LIST-NO.:   |                                    | NL21013  |                                   | Blatt<br>Page 1 von 1   |  |   |  |  |                            |
| TEILE-KLASSE:  |                                    | SCHWEISSFIRMA:   |                                   |  EHR GmbH Phone: +49(201) 3845-0 |  |   |  |  |                            |
| PIPE SPEC.:  |                                    | WELDING CONTRACTOR:                                      |                                   | WOLBECKSTR. 25 / D-45329 ESSEN  |  |   |  |  |                            |
| SCHWEISSVERFAHRENS- BESCHREIBUNG NR.:  |                                    | UMFANG DER ZIP   |                                   | 5) JA/NEIN /  |  |   |  |  |                            |
| WELDING PROCEDURE SPECIFICATION NO. (WPS)  |                                    | EXTENT OF NDE  |                                   | YES NO  |  |   |  |  |                            |
| 1  | SP-Nr. 1 to SP-Nr. 3               | 3  | D RT 10% NP MT                    | VORWÄRMUNG<br>PRE - HEATING   | 5 6  |   |  |  |                            |
| 2  |                                    | 4  | US UT FE PT                       | WÄRMENACHB.<br>PWHT   | 7 8  |   |  |  |                            |
| 1) A<br>B  | SCHWEISSNAHT NR.<br>WELD JOINT NO. | DN<br>NPS<br>mm  | SCHWEISSER<br>NR<br>WELDER<br>NO. | WÄRMENACH-<br>BEHANDLUNG-<br>UND HÄRTE-<br>PRÜFUNGS-<br>PROTOKOLL NR<br>PWHT-<br>AND HARDNESS-<br>TEST RECORD       | DURCHSTRAH-<br>LUNGS<br>PRÜF NR.<br>RADIOGRAPHIC<br>TEST NO.   | ULTRASCHALL-<br>REPORT NR.<br>ULTRA - SONIC<br>REPORT NO. | VERWECHS-<br>LUNGS-<br>REPORT NR.<br>ALLY VERI-<br>FICATION<br>REPORT NO | FE - ODER<br>MP - REPORT<br>NR.<br>PT - OR<br>MT - REPORT<br>NO. | BEMERKUNGEN 3)<br>COMMENTS |
|  | 1                                  | 4020967<br>D482109                                       | 40                                | 103   |  |   |  |  |                            |
|  | 2                                  | 4020967<br>D482109                                       | 40                                | 103   | 071  |   |  |  |                            |
|  | 3                                  | 4020967<br>F02062  | 40                                | 103   |  |   |  |  |                            |
|  | 4                                  | F02062<br>326052   | 25                                | 103   |  |   |  |  |                            |
|  |                                    |  |                                   |   |  |   |  |  | Z 71102                    |
|  | 5                                  | 40521<br>34339   | 40                                | 103   |  |   |  |  |                            |
|  | 6                                  | 34339<br>34316 / 34032                                   | 50                                | 103   |  |   |  |  |                            |
|  | 7                                  | 34316 / 34032<br>28147 / 485869                          | 50                                | 103   |  |   |  |  |                            |
|  | 8                                  | 28147 / 485869<br>34316 / 34032                          | 50                                | 103   |  |   |  |  |                            |
|  | 9                                  | 34316 / 34032<br>28147 / 485869                          | 50                                | 103   |  |   |  |  |                            |
|  | 10                                 | 28147 / 485869<br>34316 / 34032                          | 50                                | 103   |  |   |  |  |                            |
| FERTIGUNGSSTAND : <input checked="" type="checkbox"/> VORFERTIGUNG ABGESCHLOSSEN<br>FABRICATION STATUS : PRE _ FABRICATION |                                    |  |                                   |   |  |   |  |  |                            |
| FELD MONTAGE ABGESCHLOSSEN<br>FIELD ASSEMBLY COMPLETED   |                                    |  |                                   |   |  |   |  |  |                            |
| UNTERSCHRIFT / DATUM<br>19. SEP. 2005<br>PRÜFAUFSICHT DER SCHWEISSFIRMA<br>QUALITY CONTROL OF WELDING CONTRACTOR           |                                    |  |                                   |   | EHR<br>UNTERSCHRIFT / DATUM<br>19. SEP. 2005<br>ABNAHME - BEHÖRDE 4)<br>INSPECTION - AUTHORITY<br>UNTERSCHRIFT / DATUM<br>SIGNATURE / DATE |   |  |  |                            |

