

ESSENER HOCHDRUCK- ROHRLEITUNGSBAU

Project: ASU 9 KOSICE / SLOVAKIA

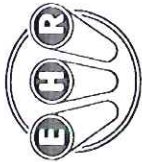
LIST OF PIPING-MATERIALS AND MATERIAL CERTIFICATES

Liste der Rohrmaterialien und Materialzeugnisse

AIR LIQUIDE AGS GMBH - Auftrags-Nr. / P.O. No.: 4500025409
Unsere Bestell-Nr./ our Order-No.: C 13005

Datum/date: 23.09.2005

it	quant. Lieferung	description	dim. 1	wth1	dim. 2	wth2	ANSI EN DIN	material	cert. EN 10204	Lieferant Manufact./Supplier	Schmelz.Nr Heat-No.	Sachnummer Item-No.
1	2,00	pcs. WN flanges RF	33.7	2.60	PN 100		2637	1.4541	3.1B	Witte	174634	77030072
2	9,00	pcs. WN flanges RF	33.7	2.60	PN 40		2635	1.4571	3.1B	Witte	326052	0361041
3	2,00	pcs. WN flanges RF	42.4	2.60	PN 40		2635	1.4571	3.1B	Witte	S 2140	77039123
4	3,00	pcs. WN flanges RF	48.3	2.60	PN 16		2633	1.4571	3.1B	Witte	40521	77038606
5	2,00	pcs. WN flanges RF	48.3	2.60	PN 100		2637	1.4541	3.1B	Witte	179466	77039753
6	3,00	pcs. WN flanges RF	48.3	2.60	PN 40		2635	1.4571	3.1B	Witte	S 2714	77038928
7	2,00	pcs. WN flanges RF	48.3	2.60	PN 40		2635	1.4571	3.1B	Witte	K-48-ID1A	77038928
8	2,00	pcs. WN flanges RF	48.3	2.60	PN 16		2633	1.4571	3.1B	Witte	041537	77038606
9	2,00	pcs. WN flanges RF	48.3	2.60	PN 16		2633	1.4571	3.1B	Witte	40521	77038606
10	4,00	pcs. WN flanges RF	60.3	2.90	PN 40		2635	1.4541	3.1B	Witte	S 2597	770039645
11	2,00	pcs. WN flanges RF	60.3	2.90	PN 16		2633	1.4571	3.1B	Witte	S 2595	364234
12	2,00	pcs. WN flanges RF	76.1	2.90	PN 6		2631	1.4541	3.1B	Witte	179464	77039747
13	2,00	pcs. WN flanges RF	88.9	3.20	PN 16		2633	1.4571	3.1B	Witte	S-2251	0364111
14	4,00	pcs. WN flanges RF	88.9	3.60	PN 64		2636	1.4541	3.1B	Witte	42939	77039927
15	2,00	pcs. WN flanges RF	114.3	3.60	PN 16		2633	1.4541	3.1B	Witte	S 2636	77038634
16	4,00	pcs. WN flanges RF	114.3	4.00	PN 64		2636	1.4541	3.1B	Witte	508920 / 42939	77039922
17	4,00	pcs. WN flanges RF	114.3	4.00	PN 40		2635	1.4571	3.1B	Witte	041438	77038842
18	4,00	pcs. WN flanges RF	114.3	4.00	PN 40		2635	1.4571	3.1B	Witte	J-83 / HD1A	77038842
19	6,00	m weld. pipe	12.0	1.60			1127	1.4541	3.1 B	Air Liquide	49117	0004734
20	24,12	m weld. pipe	21.3	2.00			1127	1.4541	3.1 B	Witte	451784	0002063
21	18,00	m weld. pipe	21.3	2.60			1127	1.4541	3.1 B	Witte	4020951	0002063
22	6,02	m weld. pipe	26.9	2.00			1127	1.4541	3.1 B	Witte	482479	0002080
23	18,00	m weld. pipe	33.7	2.60			1127	1.4541	3.1 B	Witte	487194	0004748
24	60,30	m weld. pipe	33.7	2.60			1127	1.4541	3.1 B	Witte	485515	0004748
25	6,03	m weld. pipe	33.7	3.20			1127	1.4541	3.1 B	Witte	487747	0004748
26	6,00	m weld. pipe	42.4	2.00			1127	1.4541	3.1 B	Witte	502048	0004737
27	42,00	m weld. pipe	48.3	2.60			1127	1.4541	3.1 B	Witte	4020967	0028006
28	12,00	m weld. pipe	60.3	2.90			1127	1.4541	3.1 B	Witte	489631	0004980
29	6,04	m weld. pipe	76.1	2.90			1127	1.4541	3.1 B	Witte	V501182	0004820



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AIR LIQUIDE AGS GMBH - Auftrags-Nr. / P.O. No.: 4500025409
Unsere Bestell-Nr./ our Order-No. : C 13005

Datum/date: 23.09.2005

it	quant.	description	dim. 1	wth1	dim. 2	wth2	ANSI EN DIN	material	cert.	Lieferant Manufact./Supplier	Schmelz.Nr Heat-No.	Sachnummer Item-No.
30	18,12	m weld. pipe	88.9	3.20			1127	1.4541	3.1 B	Witte	809526	0004823
32	12,10	m weld. pipe	114.3	3.60			1127	1.4541	3.1 B	Witte	4720300	0004843
33	2,00	m weld. pipe	219.1	4.00			1127	1.4541	3.1 B	Lagerverrat	17457	0004889
34	47,00	pcs weld. Elbow 90° LR	48.3	2.60			2605	1.4541	3.1 B	Witte	485869	0375943
35	19,00	pcs weld. Elbow 90° LR	60.3	2.60			2605	1.4541	3.1 B	Witte	28147 / 485869	0375038
36	25,00	pcs weld. Elbow 90° LR	88.9	3.20			2605	1.4541	3.1 B	Witte	27532 / 24559	0375007
37	6,00	pcs weld. Elbow 90° LR	88.9	3.20			2605	1.4541	3.1 B	Witte	27545 / 479929	0375007
38	6,00	pcs weld. Elbow 90° LR	114.3	3.60			2605	1.4541	3.1 B	Witte	28303 / 4221596	0375013
39	18,00	m smls. pipe	60.3	2.90			1127	1.4541	3.1 B	Lagerverrat	34316 / 34032	0004980
40	16,00	pcs smls. Elbow 90° LR	21.3	2.60			2605	1.4541	3.1 B	Witte	507400	ohne
41	16,00	pcs smls. Elbow 90° LR	21.3	2.60			2605	1.4541	3.1 B	HTI	483214	ohne
42	16,00	pcs smls. Elbow 90° LR	33.7	2.60			2605	1.4541	3.1 B	Witte	D482109	ohne
43	16,00	pcs smls. Elbow 90° LR	33.7	2.60			2605	1.4541	3.1 B	HTI	4010491	ohne
44	10,00	pcs smls. Elbow 90° LR	48.3	2.60			2605	1.4541	3.1 B	Witte	D482109	0375943
45	10,00	pcs smls. Elbow 90° LR	48.3	2.60			2605	1.4541	3.1 B	Witte	28146 / 685869	0375943
46	1,00	pcs smls. Elbow 90° LR	168.3	7.11			2605	1.4541	3.1 B	Witte	OJO	77038950
47	1,00	pcs smls. Elbow 90° LR	219.1	6.30			2605	1.4541	3.1 B	Witte	28303	77038980
48	30,50	m seam. pipe	13.5	1.60			1127	1.4571	3.1 B	Witte	56337	ohne
49	12,14	m seam. pipe	21.3	2.60			1127	1.4541	3.1 B	Witte	34713	0002063
50	6,25	m seam. pipe	28.0	2.00			1127	1.4541	3.1 B	Witte	034228 / 156068	0004736
51	6,60	m seam. pipe	168.3	4.50			1127	1.4541	3.1 B	Witte	F03273	77038463
52	4,00	pcs Grooved gasket	in-ø 35	5.00	out-ø 82			1.4541	2.1	Kempchen	105037385/04054816	Gas -- 25 mm
53	2,00	pcs Grooved gasket	in-ø 49	5.00	out-ø 103			1.4541	2.1	Kempchen	105037392/04054816	0320036
54	8,00	pcs Grooved gasket	in-ø 65	5.00	out-ø 113			1.4541	2.1	Kempchen	105037399/04052988	77039144
55	8,00	pcs Grooved gasket	in-ø 95	5.00	out-ø 148			1.4541	2.1	Kempchen	105037400/98003693	Gas -- 65 mm
56	7,00	pcs Grooved gasket	in-ø 118	5.00	out-ø 174			1.4541	2.1	Kempchen	105037388/0571947	77039739
57	2,00	pcs gasket	in-ø 115	2.00	out-ø 162			1.4401/RIVATHERM	2.1	Kempchen	202004287/03036090	77038471
58	6,00	pcs gasket	in-ø 115	2.00	out-ø 168			1.4401/RIVATHERM	2.1	Kempchen	201005787/02035569	77039739
59	8,00	pcs gasket	in-ø 61	2.00	out-ø 107			1.4401/RIVATHERM	2.1	Kempchen	202001263/02035342	0320037



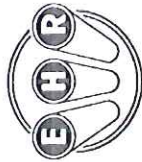
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Material-Zeugnisliste 29.09.2005

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AIR LIQUIDE AGS GMBH - Auftrags-Nr. / P.O. No.: 4500025409
Unsere Bestell-Nr./ our Order-No. : C 13005

Datum/date: 23.09.2005

it	quant. Lieferung	description	dim. 1	wth1	dim. 2	wth2	ANSI EN DIN	material	cert.	Lieferant Manufact./Supplier	Schmelz.Nr Heat-No.	Sachnummer Item-No.
60	4,00	pcs. gasket	in-ø 90	2,00	out-ø 142			1.4401/RIVATHERM	EN 10204	Kempchen	198011238/03038417	0320039
61	10,00	pcs. gasket	in-ø35	2,00	out-ø70			1.4401/RIVATHERM	2.1	Kempchen	198011231/02035835	770038310
62	3,00	pcs. BW Tee	60.3	2,60			2615	1.4571	3.1B	Witte	33303	77039031
63	1,00	pcs. BW Tee	88.9	2,90			2615	1.4571	3.1B	Witte	T24097	77039004
64	3,00	pcs. BW Tee	114.3	2,60			2615	1.4541	3.1B	Witte	489610	77039104
65	1,00	pcs. BW Tee	219.1	6,30			2615	1.4541	3.1B	Witte	38251	77039915
66	2,00	pcs. BW smls. red. Tee	60.3	2,90	33.7	2,60	2615	1.4571	3.1B	Witte	370137	77039032
67	2,00	pcs. BW smls. red. Tee	88.9	3,20	48.3	2,60	2615	1.4571	3.1B	Witte	D212303	77039734
69	6,00	pcs. BW smls. red. Tee	114.3	3,60	60.3	2,90	2615	1.4571	3.1B	Witte	F02566	77039070
70	3,00	pcs. BW smls. red. Tee	114.3	3,60	88.9	3,20	2615	1.4571	3.1B	Witte	441040	77039306
71	10,00	pcs. BW conc. Reducer	28.0	2,00	26.9	2,00	2616	1.4541	3.1B	Witte	98102	79311194
72	5,00	pcs. BW conc. Reducer	33.7	2,00	26.9	2,00	2616	1.4541	3.1B	Witte	PV508	79310344
73	9,00	pcs. BW conc. Reducer	33.7	2,60	21.3	2,00	2616	1.4571	3.1B	Witte	290560	79311194
74	5,00	pcs. BW conc. Reducer	48.3	2,60	42.4	2,60	2616	1.4541	3.1B	Witte	D141007	77038179
75	7,00	pcs. BW conc. Reducer	48.3	2,60	33.7	2,60	2616	1.4571	3.1B	Witte	F02062	77039140
76	5,00	pcs. BW conc. Reducer	60.3	2,90	48.3	2,60	2616	1.4541	3.1B	Witte	34339	ohne
77	2,00	pcs. BW conc. Reducer	60.3	2,90	42.4	2,60	2616	1.4541	3.1B	Witte	470008	77039030
79	6,00	pcs. BW conc. Reducer	60.3	2,90	33.7	2,60	2616	1.4571	3.1B	Witte	370146	77039749
80	4,00	pcs. BW conc. Reducer	88.9	3,20	60.3	2,90	2616	1.4571	3.1B	Witte	488890	0291546
81	4,00	pcs. BW conc. Reducer	114.3	3,60	60.3	2,90	2616	1.4541	3.1B	Witte	482360	77039615
83	3,00	pcs. BW conc. Reducer	114.3	3,60	48.3	2,90	2616	1.4571	3.1B	Witte	170248	77039749
84	1,00	pcs. BW conc. Reducer	168.3	4,50	76.1	2,90	2616	1.4541	3.1B	Witte	600590	77039100
85	3,00	pcs. BW conc. Reducer	168.3	4,50	76.1	2,90	2616	1.4541	3.1B	Witte	L1454	77039100
87		pcs. BW conc. Reducer	168.3	4,50	76.1	2,90	2616	1.4541	3.1B	Witte	NH8	77039100
88		pcs. BW conc. Reducer	219.1	6,30	168.3	4,50	2616	1.4541	3.1B	Witte	23376	77039848
89		pcs. BW conc. Reducer	219.1	6,30	168.3	4,50	2616	1.4541	3.1B	Witte	NIA	77039848
90	3,00	pcs. BW conc. Reducer	219.1	6,30	168.3	4,50	2616	1.4541	3.1B	Witte	H9277 / 233376	770039848
91		pcs. BW conc. Reducer	219.1	6,30	168.3	4,50	2616	1.4541	3.1B	Witte	ZZ5	770039848
92	9,00	pcs. BW Cap	21.3	2,00			28011	1.4541	3.1B	Air Liquide	1064	77038648



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it	quant. Lieferung	description	dim. 1	wth1	dim. 2	wth2	ANSI EN DIN	material	cert. EN 10204	Lieferant Manufact./Supplier	Schmelz.Nr Heat-No.	Sachnummer Item-No.
93	7,00	pcs. BW Cap	21.3	2.00			28011	1.4541	3.1B	Witte	802136	77038648
94	11,00	pcs. BW Cap	33.7	3.00			28011	1.4571	3.1B	Witte	30340	ohne
95		pcs. BW Cap	33.7	3.00			28011	1.4571	3.1B	Witte	E 58	ohne
96	6,00	pcs. BW Cap	48.3	3.00			28011	1.4571	3.1B	Witte	93H0 / 446610	ohne
97		pcs. BW Cap	48.3	3.00			28011	1.4571	3.1B	Witte	C95	ohne
98	2,00	pcs. BW Cap	88.9	3.00			28011	1.4571	3.1B	Witte	450446	ohne
99	1,00	pcs. BW Cap	88.9	5.60			2617	1.4541	3.1B	Witte	0DK2	ohne
100	3,00	pcs. BW Cap	114.3	3.00			28011	1.4571	3.1B	Witte	38862	ohne
101	1,00	pcs. BW Cap	114.3	3.60			2617	1.4541	3.1B	Witte	830151	ohne
102	2,00	pcs. BW Cap	219.1	6.30			2617	1.4541	3.1B	Witte	39571	ohne



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