

Teileverwendungsnachweis (aktuelle Teile)

Teilenummer	NW1	NW2	Teilebezeichnung	Gewicht kg
	BF	Leitung	Rohrklass	Menge
				Baugruppen-Bez

FEHLER diese Liste bitte nur mit Menu 2 sortiert nach Teilenummer verwenden

B0062	27	600	HAMMER SCREWS	
			5.6	
0	350W90001ZB16C1	0	8,00	350 W 90001 ZB16C1
		Gesamt	8,00	
B0539	27	0	HEXAGON NUTS	
			1.4541	
0	350W90001ZB16C1	0	16,00	350 W 90001 ZB16C1
		Gesamt	16,00	
B0540	28	0	WASHER	
			1.4541	
0	350W90001ZB16C1	0	8,00	350 W 90001 ZB16C1
		Gesamt	8,00	
GW11	50	0	girth weld	
			1.4541 (X 6 CrNiTi 18 10)	
			60,3x2	
0	350W90001ZB16C1	0	2,00	350 W 90001 ZB16C1
		Gesamt	2,00	
GW15	80	0	girth weld	
			1.4541 (X 6 CrNiTi 18 10)	
			88,9x2,3	
0	350W90001ZB16C1	0	2,00	350 W 90001 ZB16C1
		Gesamt	2,00	
GW29	250	0	girth weld	
			1.4541 (X 6 CrNiTi 18 10)	
			273x6,3	
0	350W90001ZB16C1	0	5,00	350 W 90001 ZB16C1
		Gesamt	5,00	
GW32	300	0	girth weld	
			1.4541 (X 6 CrNiTi 18 10)	
			323,9x7,1	
0	350W90001ZB16C1	0	6,00	350 W 90001 ZB16C1
		Gesamt	6,00	
P0134	50	0	pipe, welded	2,92 kg
			1.4541 (X 6 CrNiTi 18 10) DIN 17457	
			60,3x2	
0	350W90001ZB16C1	0	0,25	350 W 90001 ZB16C1
		Gesamt	0,25	
P0136	80	0	pipe, welded	4,98 kg
			1.4541 (X 6 CrNiTi 18 10) DIN 17457	
			88,9x2,3	
0	350W90001ZB16C1	0	0,50	350 W 90001 ZB16C1

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			Gesamt	0,50	
P0143	250	0	PIPE, WELDED		20,30 kg
			1.4541 EN ISO 1127, DIN 17457		
			273,0x3,0		
0	350W90001ZB16C1	0		3,25	350 W 90001 ZB16C1
			Gesamt	3,25	
P0147	350	0	PIPE, WELDED		49,40 kg
			1.4541 /412673/		
			355,6x6,6		
0	350W90001ZB16C1	0		22,23	350 W 90001 ZB16C1
			Gesamt	22,23	
P0301	250	0	ELBOW 90 R=1,5 DA, WELDED		11,85 kg
			1.4541 /DIN 2605/		
			273,0x3,0		
0	350W90001ZB16C1	0		1,00	350 W 90001 ZB16C1
			Gesamt	1,00	
P0304	350	0	ELBOW 90 R=1,5 DA, WELDED		35,20 kg
			1.4541 /DIN 2605/		
			355,6x6,3		
0	350W90001ZB16C1	0		1,00	350 W 90001 ZB16C1
			Gesamt	1,00	
P1830	350	250	REDUCER, CONCENTRIC, WELDED		12,42 kg
			1.4541 /DIN 2616-2/		
			355,6x5,6/273,0x2,9		
0	350W90001ZB16C1	0		1,00	350 W 90001 ZB16C1
			Gesamt	1,00	
P2996	50	0	Welding neck flanges; PN 16		3,00 kg
			1.4541 (X 6 CrNiTi 18 10) DIN EN 1092-		
			60,3		
0	350W90001ZB16C1	0		1,00	350 W 90001 ZB16C1
			Gesamt	1,00	
P3001	80	0	Welding neck flanges; PN 16		4,00 kg
			1.4541 (X 6 CrNiTi 18 10) DIN EN 1092-		
			88,9		
0	350W90001ZB16C1	0		2,00	350 W 90001 ZB16C1
			Gesamt	2,00	
P3012	250	0	WELDING NECK FLANGES, PN 16		34,00 kg
			1.4541 /DIN 2633/		
			273,0		
0	350W90001ZB16C1	0		2,00	350 W 90001 ZB16C1
			Gesamt	2,00	

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P3139	250	0	BLIND FLANGES, PN 16 1,4571 /DIN 2527/ 273,0	17,78 kg
0	350W90001ZB16C1	0	1,00	350 W 90001 ZB16C1
		Gesamt	1,00	
PWI29	250	15	PIPE WELD-IN 1.4541	
0	350W90001ZB16C1	0	2,00	350 W 90001 ZB16C1
		Gesamt	2,00	
PWI54	250	25	PIPE WELD-IN 1.4541	
0	350W90001ZB16C1	0	1,00	350 W 90001 ZB16C1
		Gesamt	1,00	
PWI55	350	15	PIPE WELD-IN 1.4541	
0	350W90001ZB16C1	0	1,00	350 W 90001 ZB16C1
		Gesamt	1,00	
PWI56	250	250	PIPE WELD-IN 1.4541	
0	350W90001ZB16C1	0	1,00	350 W 90001 ZB16C1
		Gesamt	1,00	
PWI57	250	80	PIPE WELD-IN 1.4541	
0	350W90001ZB16C1	0	2,00	350 W 90001 ZB16C1
		Gesamt	2,00	
PWI58	250	50	PIPE WELD-IN 1.4541	
0	350W90001ZB16C1	0	1,00	350 W 90001 ZB16C1
		Gesamt	1,00	
SPC02	300	0	PIPE CLAMP 1.4541	16,00 kg
0	350W90001ZB16C1	0	2,00	350 W 90001 ZB16C1
		Gesamt	2,00	
SPS433	0	0	SUPPORT-PS-433, PL. 200X279X5 1.4541	2,20 kg
0	350W90001ZB16C1	0	2,00	350 W 90001 ZB16C1
		Gesamt	2,00	
SPS434	0	0	SUPPORT PS-434, PL 300X1017X5 1.4541	14,04 kg
0	350W90001ZB16C1	0	1,00	350 W 90001 ZB16C1
		Gesamt	1,00	

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SPS435	0	0	SUPPORT PS-435, PL 80X5	0,43 kg
			1.4541	
	0		350W90001ZB16C1	0
			Gesamt	1,00
SPS436	0	0	SUPPORT PS-436, PL 1000X25	157,00 kg
			1.4541	
	0		350W90001ZB16C1	0
			Gesamt	1,00
SPS437	0	0	SUPPORT PS-437, PL 150X325X20	7,80 kg
			1.4541	
	0		350W90001ZB16C1	0
			Gesamt	1,00
SPS438	0	0	SUPPORT PS-438, PL 200X189X5	1,78 kg
			1.4541	
	0		350W90001ZB16C1	0
			Gesamt	1,00
SPS439	0	0	SUPPORT PS-439, PL 52X5	0,35 kg
			1.4541	
	0		350W90001ZB16C1	0
			Gesamt	1,00
SPS440	0	0	SUPPORT PS-440, PL 200X200X15	5,25 kg
			1.0038	
	0		350W90001ZB16C1	0
			Gesamt	2,00
SPS441	0	0	SUPPORT PS-441, H 120	40,20 kg
			1.0038	
	0		350W90001ZB16C1	0
			Gesamt	2,70
SPS442	0	0	SUPPORT PS-442, U 100	41,03 kg
			1.4541	
	0		350W90001ZB16C1	0
			Gesamt	4,05
XZB04	150	15	welding nozzle for thermowell, drawing N	
			1.4541	
			22	
	0		350W90001ZB16C1	0
			Gesamt	3,00
XZB24	25	0	THREAD END	
			1.4541	
	0		350W90001ZB16C1	0
			Gesamt	1,00

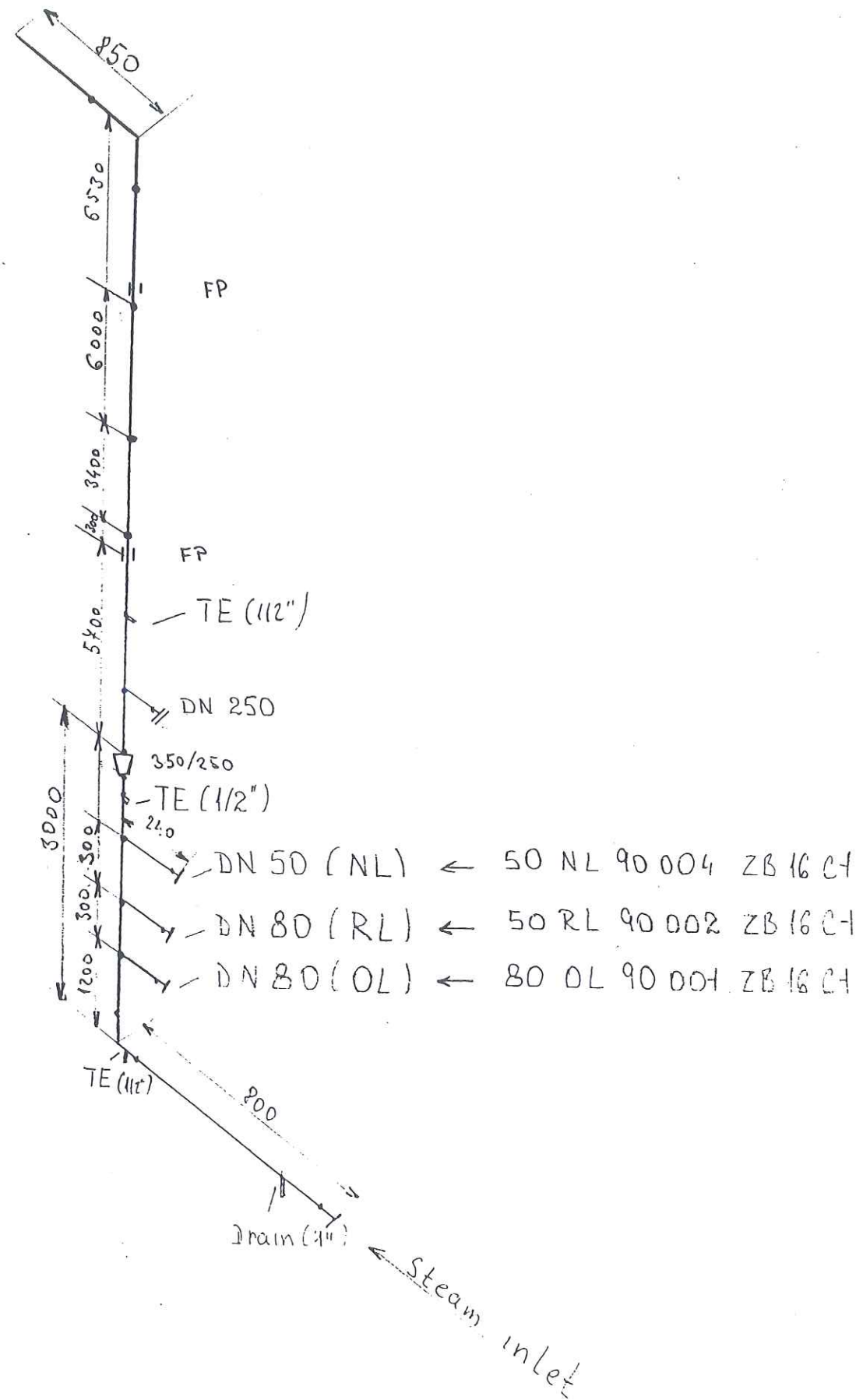
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Gesamtgewicht: 1.826,62 kg
** Ende der Ausgabe

AS BUILT



Dump vaporizer

W 90 004

AS BUILT No 9

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzenummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	200512599	2 172119	70,00	M	008720	45606,41153X	5.6948.1	Rohr 114,3x3,6/DIN2448/ST35.8/1/3.1B	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512599	1 170523	75,60	M	008721	446895	5.6948.1	Rohr 168,3x6,3/DIN2458/ST52.0/3.1B	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051022	1 170851	1.730	MX	009196	826674	5.6948.6	Rohr 406,4x8,8/DIN2458/ST37.0/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051022	2 220333	1.640	MX	009197	829293	5.6948.6	Rohr 323,9x10/DIN2458/ST37.0/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051022	3 170351	660	MX	009198	215340	5.6948.6	Rohr 88,9x3,2/DIN2458/ST37.0/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512660	1 164421	3.564,00	KG	009229		5.6948.1	HEA 300 / S235JR / 2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200512660	2 164421	1.620,00	KG	009230		5.6948.1	HEA 300 / S235JR / 2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200512660	3 164421	2.430,00	KG	009231		5.6948.1	HEA 300 / S235JR / 2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200512660	4 100051	125,00	KG	009232	40387Z	5.6948.1	Blech 5 mm/S235JR/EN10025/3.1B	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512660	5 100103	250,00	KG	009233	4010E	5.6948.1	Blech 10 mm/S235JR/EN10025/3.1B	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	1 1220279	150,00	KG	009242	452657	5.6948.1	Schweißdraht DMO-IG Ø 2,4 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	2 1220356	75,00	KG	009248	452661	5.6948.1	Schweißdraht DMO-IG Ø 3,0 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	3 1220281	2.280	ST	009278	2112722	5.6948.1	Elektroden EV 50 Ø 2,5/250 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	4 1220282	6.240	ST	009279	2112704	5.6948.1	Elektroden EV 50 Ø 3,2/450 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	5 1220283	3.960	ST	009280	2112910	5.6948.1	Elektroden EV 50 Ø 4,0/450 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512819	18 164758	67,86	KG	009805	AP 523663	5.6948.1	Winkel gl L50x5 / S235JR/2 / 2.2	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512819	17 164761	32,52	KG	009806	AP 523002	5.6948.1	Winkel gl L60x6 / S235JR/2 / 2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200512819	16 164765	44,28	KG	009807	AP 522997	5.6948.1	Winkel gl L70x7 / S235JR/2 / 2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200513206	1 1200360	2	ST	009893	323054,66753	5.6948.1	Red. DIN2616-2-K-88,9x3,2/76,1x2,9	0003	Zeugnis n. EN10204-3.1 deutsch
-	200513206	2 123072	2	ST	009894	7073,7579,66828	5.6948.1	V-Fla C100x114,3/DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051021	1	6,00	M	010004	415227	5.6948.6	pipe, seamless DN15 Abm.21,3 x 2 mm		
-	SK20051021	2	12,00	M	010005	423030	5.6948.6	pipe, seamless DN40 Abm.48,3 x 2,6 mm		
-	SK20051021	3	18,00	M	010006	323054	5.6948.6	pipe, seamless DN50 Abm.60,3 x 2,9 mm		
-	SK20051021	4	42,00	M	010007	311275	5.6948.6	pipe, seamless DN80 Abm.88,9 x 3,2 mm		
-	SK20051021	5	18,00	M	010008	215794	5.6948.6	pipe, seamless DN100 Abm.114,3 x 3,6 mm		
-	SK20051021	6	24,00	M	010009	44551K	5.6948.6	pipe, seamless DN150 Abm.168,3 x 4,5 mm		
-	SK20051021	7	24,00	M	010010	415227	5.6948.6	pipe, seamless DN15 Abm.21,3 x 2 mm		
-	SK20051021	8	30,00	M	010011	34113	5.6948.6	pipe, seamless DN25 Abm.33,7 x 2,6 mm		
-	SK20051021	9	6,00	M	010012	216875	5.6948.6	pipe, seamless DN40 Abm.48,3 x 4 mm		
-	SK20051021	10	6,00	M	010013	215794	5.6948.6	pipe, seamless DN100 Abm.114,3 x 3,6 mm		
-	SK20051021	11	6,00	M	010014	216582	5.6948.6	pipe, seamless DN100 Abm.114,3 x 6,3 mm		
-	SK20051021	12	6,00	M	010015	78804	5.6948.6	pipe, seamless DN150 Abm.168,3 x 7,1 mm		
-	SK20051021	13	330,00	M	010016	415227	5.6948.6	pipe, seamless DN15 Abm.21,3 x 2 mm		
-	SK20051021	14	726,00	M	010017	34113	5.6948.6	pipe, seamless DN25 Abm.33,7 x 2,6 mm		
-	SK20051021	15	18,00	M	010018	423030	5.6948.6	pipe, seamless DN40 Abm.48,3 x 2,6 mm		
-	SK20051021	16	300,00	M	010019	323054	5.6948.6	pipe, seamless DN50 Abm.60,3 x 2,9 mm		
-	SK20051021	17	96,00	M	010020	311275	5.6948.6	pipe, seamless DN80 Abm.88,9 x 3,2 mm		
-	SK20051021	18	84,00	M	010021	215794	5.6948.6	pipe, seamless DN100 Abm.114,3 x 3,6 mm		
-	SK20051021	19	6,00	M	010022	215903	5.6948.6	pipe, seamless DN125 Abm.139,7 x 4 mm		
-	SK20051021	20	42,00	M	010023	44551K	5.6948.6	pipe, seamless DN150 Abm.168,3 x 4,5 mm		
-	SK20051021	21	60,00	M	010024	34113	5.6948.6	pipe, seamless DN25 Abm.33,7 x 2,6 mm		
-	SK20051021	22	150,00	M	010025	215794	5.6948.6	pipe, seamless DN100 Abm.114,3 x 3,6 mm		
-	SK20051021	23	18,00	M	010026	39901	5.6948.6	pipe, welded DN200 Abm.219,1 x 4,5 mm		
-	SK20051021	24	6,00	M	010027	39901	5.6948.6	pipe, welded DN200 Abm.219,1 x 4,5 mm		
-	SK20051021	25	18,00	M	010027	39802E	5.6948.6	pipe, welded DN300 Abm.323,9 x 5,6 mm		
-	SK20051021	30	6,00	M	010027	39802E	5.6948.6	pipe, welded DN300 Abm.323,9 x 5,6 mm		
-	SK20051021	26	12,00	M	010028	54636	5.6948.6	pipe, welded DN500 Abm.508 x 6,3 mm		
-	SK20051021	25	24,00	M	010029	48555,474584,0119	5.6948.6	pipe, welded DN1000 Abm.1016 x 10 mm		
-	SK20051021	27	54,00	M	010030	770013	5.6948.6	pipe, welded DN250 Abm.273 x 8,8 mm		
-	SK20051021	29	18,00	M	010031	501523	5.6948.6	pipe, welded DN250 Abm.273 x 5 mm		
-	SK20051021	31	60,00	M	010032	7B38546,7B39262	5.6948.6	pipe, welded DN350 Abm.355,6 x 5,6 mm		
-	SK20051021	32	24,00	M	010033	7B38530	5.6948.6	pipe, welded DN400 Abm.406,4 x 6,3 mm		
-	SK20051021	33	72,00	M	010034	044450	5.6948.6	pipe, welded DN500 Abm.508 x 6,3 mm		
-	SK20051021	34	114,00	M	010035	38015,45037,55396	5.6948.6	pipe, welded DN600 Abm.610 x 6,3 mm		
-	SK20051021	35	78,00	M	010036	55400,55399	5.6948.6	pipe, welded DN700 Abm.711 x 7,1 mm		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051021	36	252,00	M	010037	4020950	5.6948.6	pipe, welded DN15 Abm.21,3 x 1,6 mm		
-	SK20051021	37	6,00	M	010038	453650	5.6948.6	pipe, welded DN20 Abm.26,9 x 1,6 mm		
-	SK20051021	38	162,00	M	010039	488258	5.6948.6	pipe, welded DN25 Abm.33,7 x 2 mm		
-	SK20051021	39	30,00	M	010040	482806,480581	5.6948.6	pipe, welded DN40 Abm.48,3 x 2 mm		
-	SK20051021	40	162,00	M	010041	484002	5.6948.6	pipe, welded DN50 Abm.60,3 x 2 mm		
-	SK20051021	41	42,00	M	010042	357404	5.6948.6	pipe, welded DN80 Abm.88,9 x 2,3 mm		
-	SK20051021	42	66,00	M	010043	567330	5.6948.6	pipe, welded DN100 Abm.114,3 x 2,6 mm		
-	SK20051021	43	18,00	M	010044	487585,486974	5.6948.6	pipe, welded DN150 Abm.168,3 x 4 mm		
-	SK20051021	44	66,00	M	010045	50209	5.6948.6	pipe, welded DN250 Abm.273 x 5 mm		
-	SK20051021	45	18,00	M	010046	484605,484004	5.6948.6	pipe, welded DN300 Abm.323,9 x 5,6 mm		
-	SK20051021	46	14	ST	010047	122544	5.6948.6	Elbow 90° R=1,5 DA, seamless DN15		
-	SK20051021	47	6	ST	010048	313113	5.6948.6	Elbow 90° R=1,5 DA, seamless DN40		
-	SK20051021	48	5	ST	010049	321507	5.6948.6	Elbow 90° R=1,5 DA, seamless DN50		
-	SK20051021	49	22	ST	010050	320812	5.6948.6	Elbow 90° R=1,5 DA, seamless DN80		
-	SK20051021	50	5	ST	010051	215380	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
-	SK20051021	51	19	ST	010052	218254	5.6948.6	Elbow 90° R=1,5 DA, seamless DN150		
-	SK20051021	52	8	ST	010053	122544	5.6948.6	Elbow 90° R=1,5 DA, seamless DN15		
-	SK20051021	53	9	ST	010054	213798	5.6948.6	Elbow 90° R=1,5 DA, seamless DN25		
-	SK20051021	54	2	ST	010055	521246	5.6948.6	Elbow 90° R=1,5 DA, seamless DN150		
-	SK20051021	55	90	ST	010056	122544	5.6948.6	Elbow 90° R=1,5 DA, seamless DN15		
-	SK20051021	56	222	ST	010057	131547,213798	5.6948.6	Elbow 90° R=1,5 DA, seamless DN25		
-	SK20051021	57	12	ST	010058	313113	5.6948.6	Elbow 90° R=1,5 DA, seamless DN40		
-	SK20051021	58	71	ST	010059	215407	5.6948.6	Elbow 90° R=1,5 DA, seamless DN50		
-	SK20051021	59	19	ST	010060	320812	5.6948.6	Elbow 90° R=1,5 DA, seamless DN80		
-	SK20051021	60	35	ST	010061	215380	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
-	SK20051021	61	2	ST	010062	520708	5.6948.6	Elbow 90° R=1,5 DA, seamless DN125		
-	SK20051021	62	12	ST	010063	218254	5.6948.6	Elbow 90° R=1,5 DA, seamless DN150		
-	SK20051021	63	69	ST	010064	213798	5.6948.6	Elbow 90° R=1,5 DA, seamless DN25		
-	SK20051021	64	26	ST	010065	518622	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
-	SK20051021	65	10	ST	010066	1631	5.6948.6	Elbow 90° R=1,5 DA, seamless DN200		
-	SK20051021	66	10	ST	010067	5024042	5.6948.6	Elbow 90° R=1,5 DA, welded DN300		
-	SK20051021	67	2	ST	010068	9351N1	5.6948.6	Elbow 90° R=1,5 DA, welded DN500		
-	SK20051021	68	12	ST	010069	315460	5.6948.6	Elbow 90° R=1,5 DA, welded DN250		
-	SK20051021	69	7	ST	010070	9078N1	5.6948.6	Elbow 90° R=1,5 DA, welded DN300		
-	SK20051021	70	1	ST	010071	5024042	5.6948.6	Elbow 90° R=1,5 DA, welded DN350		
-	SK20051021	71	6	ST	010072	524114	5.6948.6	Elbow 90° R=1,5 DA, welded DN400		
-	SK20051021	72	8	ST	010073	727612	5.6948.6	Elbow 90° R=1,5 DA, welded DN500		
-	SK20051021	73	16	ST	010074	788513	5.6948.6	Elbow 90° R=1,5 DA, welded DN600		
-	SK20051021	74	21	ST	010075	9255N1,9027N1	5.6948.6	Elbow 90° R=1,5 DA, welded DN700		
-	SK20051021	75	15	ST	010076	9207N1,9002N1	5.6948.6	Elbow 90° R=1,5 DA, welded DN15		
-	SK20051021	76	77	ST	010077	453650	5.6948.6	Elbow 90° R=1,5 DA, welded DN20		
-	SK20051021	77	5	ST	010078	453650	5.6948.6	Elbow 90° R=1,5 DA, welded DN25		
-	SK20051021	78	92	ST	010079	4705185	5.6948.6	Elbow 90° R=1,5 DA, welded DN40		
-	SK20051021	79	9	ST	010080	702055	5.6948.6	Elbow 90° R=1,5 DA, welded DN50		
-	SK20051021	80	71	ST	010081	478948	5.6948.6	Elbow 90° R=1,5 DA, welded DN80		
-	SK20051021	81	12	ST	010082	V-007009	5.6948.6	Elbow 90° R=1,5 DA, welded DN100		
-	SK20051021	82	12	ST	010083	V-110040	5.6948.6	Elbow 90° R=1,5 DA, welded DN150		
-	SK20051021	83	8	ST	010084	35412	5.6948.6	Elbow 90° R=1,5 DA, welded DN250		
-	SK20051021	84	12	ST	010085	484604	5.6948.6	Elbow 90° R=1,5 DA, welded DN300		
-	SK20051021	85	5	ST	010086	51513	5.6948.6	Elbow 90° R=1,5 DA, welded DN400		
-	SK20051021	86	6	ST	010087	313142	5.6948.6	Tee made of seamless pipe DN50/40		
-	SK20051021	87	1	ST	010088	333333	5.6948.6	Tee made of seamless pipe DN80/50		
-	SK20051021	88	1	ST	010089	213356	5.6948.6	Tee made of seamless pipe DN100/80		
-	200513615	2	104103	KG	010407	452658	5.6948.1	Schweißdraht DMO-IG Ø 2,4 mm	0004	Zeugnis n. EN10204-2.3 deutsch
-	200513615	1	25,00	KG	010408	452658	5.6948.1	Schweißdraht DMO-IG Ø 2,0 mm	0004	Zeugnis n. EN10204-2.3 deutsch

EinkSBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelznummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	200513615	3	104105							
-	SK20051021	89	150,00	KG	010109	454789	5.6948.1	Schweißdraht DMO-IG Ø 3,2 mm	0004	Zeugnis n. EN10204-2.3 deutsch
-	SK20051021	90		ST	010194	379853	5.6948.6	Tee made of seamless pipe DN150/80		
-	SK20051021	91		ST	010195	379853	5.6948.6	Tee made of seamless pipe DN150/100		
-	SK20051021	92		ST	010196	314099	5.6948.6	Tee made of seamless pipe DN150/150		
-	SK20051021	93		ST	010197	342578	5.6948.6	Tee made of seamless pipe DN200/80		
-	SK20051021	94		ST	010198	315460	5.6948.6	Tee made of seamless pipe DN200/150		
-	SK20051021	95		ST	010199	347671	5.6948.6	Tee made of seamless pipe DN200/200		
-	SK20051021	96		ST	010200	950127	5.6948.6	Tee made of seamless pipe DN300/150		
-	SK20051021	97		ST	010201	533760	5.6948.6	Tee made of seamless pipe DN15/15		
-	SK20051021	98		ST	010202	343119	5.6948.6	Tee made of seamless pipe DN25/25		
-	SK20051021	99		ST	010203	31705	5.6948.6	Tee made of seamless pipe DN250/150		
-	SK20051031	1	221232	6	ST	010204	533760	Tee made of seamless pipe DN15/15		
-	SK20051021	100		ST	010222	835267	5.6948.6	Red. DIN2616-1-K-406,4x8,8-323,9x7,1S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051021	101		ST	010234	343119	5.6948.6	Tee made of seamless pipe DN25/25		
-	SK20051021	102		ST	010235	210344	5.6948.6	Tee made of seamless pipe DN50/25		
-	SK20051021	103		ST	010236	313142	5.6948.6	Tee made of seamless pipe DN50/40		
-	SK20051021	104		ST	010237	313142	5.6948.6	Tee made of seamless pipe DN50/50		
-	SK20051021	105		ST	010238	330024	5.6948.6	Tee made of seamless pipe DN80/40		
-	SK20051021	106		ST	010239	333333	5.6948.6	Tee made of seamless pipe DN80/50		
-	SK20051021	107		ST	010240	333333	5.6948.6	Tee made of seamless pipe DN80/80		
-	SK20051021	108		ST	010241	333352,212356	5.6948.6	Tee made of seamless pipe DN100/40		
-	SK20051021	109		ST	010242	212356	5.6948.6	Tee made of seamless pipe DN100/80		
-	SK20051021	110		ST	010243	332604	5.6948.6	Tee made of seamless pipe DN100/100		
-	SK20051021	111		ST	010244	342578	5.6948.6	Tee made of seamless pipe DN200/80		
-	SK20051021	112		ST	010245	50361	5.6948.6	Tee made of seamless pipe DN250/150		
-	SK20051021	113		ST	010246	30809	5.6948.6	Tee made of seamless pipe DN350/250		
-	SK20051021	114		ST	010247	314319	5.6948.6	Tee made of seamless pipe DN25/25		
-	SK20051021	115		ST	010248	513503	5.6948.6	Tee made of seamless pipe DN100/100		
-	SK20051021	116		ST	010249	50540	5.6948.6	Tee made of seamless pipe DN400/300		
-	SK20051021	117		ST	010250	429	5.6948.6	Tee made of welded pipe DN500/200		
-	SK20051021	118		ST	010251	73901,264866	5.6948.6	Tee made of welded pipe DN500/400		
-	SK20051021	119		ST	010251	931244	5.6948.6	Tee made of welded pipe DN500/500		
-	SK20051021	120		ST	010251	73901,264866	5.6948.6	Tee made of welded pipe DN600/400		
-	SK20051021	121		ST	010251	73901	5.6948.6	Tee made of welded pipe DN600/500		
-	SK20051021	122		ST	010251	73901	5.6948.6	Tee made of welded pipe DN600/600		
-	SK20051021	123		ST	010251	73901	5.6948.6	Tee made of welded pipe DN700/500		
-	SK20051021	124		ST	010251	73901,26034	5.6948.6	Tee made of welded pipe DN700/700		
-	SK20051021	125		ST	010252	753237	5.6948.6	Tee made of welded pipe DN15/15		
-	SK20051021	126		ST	010253	753237	5.6948.6	Tee made of welded pipe DN20/20		
-	SK20051021	127		ST	010254	4012208	5.6948.6	Tee made of welded pipe DN25/15		
-	SK20051021	128		ST	010255	4012208	5.6948.6	Tee made of welded pipe DN25/25		
-	SK20051021	129		ST	010256	032407	5.6948.6	Tee made of welded pipe DN40/25		
-	SK20051021	130		ST	010257	7821076,844106	5.6948.6	Tee made of welded pipe DN50/20		
-	SK20051021	131		ST	010258	484003	5.6948.6	Tee made of welded pipe DN50/25		
-	SK20051021	132		ST	010259	347690	5.6948.6	Tee made of welded pipe DN50/50		
-	SK20051021	133		ST	010260	811054	5.6948.6	Tee made of welded pipe DN50/50		
-	SK20051021	134		ST	010261	718032	5.6948.6	Tee made of welded pipe DN80/40		
-	SK20051021	135		ST	010262	7337087	5.6948.6	Tee made of welded pipe DN80/50		
-	SK20051021	136		ST	010263	4012215	5.6948.6	Tee made of welded pipe DN80/80		
-	SK20051021	137		ST	010264	000506	5.6948.6	Tee made of welded pipe DN80/80		
-	SK20051021	138		ST	010265	44733,13655	5.6948.6	Tee made of welded pipe DN100/100		
-	SK20051021	139		ST	010266	2CB5,12080,2ND6	5.6948.6	Tee made of welded pipe DN250/150		
-	SK20051021	140		ST	010267	55106	5.6948.6	Welddolet DN600/100		
-	SK20051021	141		ST	010268	55106	5.6948.6	Welddolet DN700/100		

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-	SK20051021	142	1	ST	010269	21380	5.6948.6	Weldolet DN700/200		
-	SK20051021	143	6	ST	010270	333352	5.6948.6	Reducer, concentric, seamless DN50/40		
-	SK20051021	144	4	ST	010271	333054	5.6948.6	Reducer, concentric, seamless DN80/50		
-	SK20051021	145	2	ST	010272	342578	5.6948.6	Reducer, concentric, seamless DN200/80		
-	SK20051021	146	3	ST	010273	347671	5.6948.6	Reducer, concentric, seamless DN200/100		
-	SK20051021	147	4	ST	010274	347671	5.6948.6	Reducer, concentric, seamless DN200/150		
-	SK20051021	148	3	ST	010275	209899	5.6948.6	Reducer, concentric, seamless DN25/15		
-	SK20051021	149	8	ST	010276	521229	5.6948.6	Reducer, concentric, seamless DN50/25		
-	SK20051021	150	6	ST	010277	333352	5.6948.6	Reducer, concentric, seamless DN50/40		
-	SK20051021	151	1	ST	010278	333054	5.6948.6	Reducer, concentric, seamless DN80/50		
-	SK20051021	152	2	ST	010279	313794	5.6948.6	Reducer, concentric, seamless DN100/40		
-	SK20051021	153	1	ST	010280	29696	5.6948.6	Reducer, concentric, seamless DN150/100		
-	SK20051021	154	1	ST	010281	379054	5.6948.6	Reducer, concentric, seamless DN150/100		
-	SK20051021	155	2	ST	010282	347307	5.6948.6	Reducer, concentric, seamless DN250/200		
-	SK20051021	156	1	ST	010283	342921	5.6948.6	Reducer, concentric, seamless DN250/200		
-	SK20051021	157	1	ST	010284	278814	5.6948.6	Reducer, concentric, seamless DN350/250		
-	SK20051021	158	11	ST	010285	209899	5.6948.6	Reducer, concentric, seamless DN25/15		
-	SK20051021	160	1	ST	010286	825267	5.6948.6	Reducer, concentric, welded DN400/200		
-	SK20051021	159	2	ST	010287	442267	5.6948.6	Reducer, concentric, welded DN1000/500		
-	SK20051021	161	1	ST	010287	307074	5.6948.6	Reducer, concentric, welded DN600/400		
-	SK20051021	162	1	ST	010287	307074	5.6948.6	Reducer, concentric, welded DN600/500		
-	SK20051021	163	2	ST	010287	18344	5.6948.6	Reducer, concentric, welded DN700/500		
-	SK20051021	164	5	ST	010287	18344	5.6948.6	Reducer, concentric, welded DN700/600		
-	SK20051021	165	1	ST	010287	307074	5.6948.6	Reducer, concentric, welded DN600/450		
-	SK20051021	177	1	ST	010287	307074	5.6948.6	Reducer, concentric, welded DN600/500		
-	SK20051021	166	6	ST	010288	V-817037	5.6948.6	Reducer, concentric, welded DN32/25		
-	SK20051021	167	2	ST	010289	4011824	5.6948.6	Reducer, concentric, welded DN50/25		
-	SK20051021	168	6	ST	010290	702055, ID5	5.6948.6	Reducer, concentric, welded DN50/40		
-	SK20051021	169	2	ST	010291	V-533007	5.6948.6	Reducer, concentric, welded DN80/50		
-	SK20051021	170	2	ST	010292	MA1	5.6948.6	Reducer, concentric, welded DN80/65		
-	SK20051021	171	1	ST	010293	681365	5.6948.6	Reducer, concentric, welded DN100/50		
-	SK20051021	172	1	ST	010294	4220881	5.6948.6	Reducer, concentric, welded DN100/80		
-	SK20051021	173	1	ST	010295	V-840042	5.6948.6	Reducer, concentric, welded DN150/100		
-	SK20051021	174	4	ST	010296	2ND6.11822	5.6948.6	Reducer, concentric, welded DN300/150		
-	SK20051021	175	2	ST	010297	512508, 378601	5.6948.6	Reducer, concentric, seamless DN150/65		
-	SK20051021	176	1	ST	010298	378601	5.6948.6	Reducer, concentric, seamless DN150/100		
-	SK20051021	178	5	ST	010299	42345	5.6948.6	Caps DN50 Abm.50,3 x 2,9 mm		
-	SK20051021	179	2	ST	010300	42345	5.6948.6	Caps DN80 Abm.88,9 x 3,2 mm		
-	SK20051021	180	3	ST	010301	CUL	5.6948.6	Caps DN50 Abm.50,3 x 2 mm		
-	SK20051021	181	1	ST	010302	ATW	5.6948.6	Caps DN80 Abm.88,9 x 2,3 mm		
-	SK20051021	182	2	ST	010303	4301260B	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021	196	21	ST	010303	4301260B	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021	183	18	ST	010304	16586	5.6948.6	Welding neck flanges; PN 40 DN 40		
-	SK20051021	198	11	ST	010304	16586	5.6948.6	Welding neck flanges; PN 40 DN 40		
-	SK20051021	184	6	ST	010305	19583	5.6948.6	Welding neck flanges; PN 16 DN 50		
-	SK20051021	199	18	ST	010305	19583	5.6948.6	Welding neck flanges; PN 16 DN 50		
-	SK20051021	186	2	ST	010306	32812	5.6948.6	Welding neck flanges; PN 16 DN 65		
-	SK20051021	187	8	ST	010307	5201220	5.6948.6	Welding neck flanges; PN 16 DN 80		
-	SK20051021	201	43	ST	010308	19479	5.6948.6	Welding neck flanges; PN 16 DN 100		
-	SK20051021	188	30	ST	010309	9515	5.6948.6	Welding neck flanges; PN 16 DN 150		
-	SK20051021	203	14	ST	010309	9515	5.6948.6	Welding neck flanges; PN 16 DN 150		
-	SK20051021	189	20	ST	010310	19848	5.6948.6	Welding neck flanges; PN 10 DN 200		
-	SK20051021	204	5	ST	010310	19848	5.6948.6	Welding neck flanges; PN 10 DN 200		
-	SK20051021	190	10	ST	010311	32361	5.6948.6	Welding neck flanges; PN 10 DN 300		

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-	SK20051021 191		6	ST	010313	04201020	5.6948.6	Welding neck flanges; PN 10 DN 500		
-	SK20051021 210		14	ST	010313	04201020	5.6948.6	Welding neck flanges; PN 10 DN 500		
-	SK20051021 192		6	ST	010314	7114	5.6948.6	Welding neck flanges; PN 100 DN 25		
-	SK20051021 193		3	ST	010315	8654	5.6948.6	Welding neck flanges; PN 40 DN 100		
-	SK20051021 194		3	ST	010316	8147	5.6948.6	Welding neck flanges; PN 63 DN 100		
-	SK20051021 195		8	ST	010317	1118	5.6948.6	Welding neck flanges; PN 63 DN 250		
-	SK20051021 197		149	ST	010318	72318	5.6948.6	Welding neck flanges; PN 40 DN 25		
-	SK20051021 214		92	ST	010318	72318	5.6948.6	Welding neck flanges; PN 40 DN 25		
-	SK20051021 200		8	ST	010319	19497	5.6948.6	Welding neck flanges; PN 16 DN 80		
-	SK20051021 202		1	ST	010320	502012	5.6948.6	Welding neck flanges; PN 16 DN 125		
-	SK20051021 205		8	ST	010321	1221	5.6948.6	Welding neck flanges; PN 10 DN 250		
-	SK20051021 206		12	ST	010322	5201046	5.6948.6	Welding neck flanges; PN 10 DN 300		
-	SK20051021 207		2	ST	010323	32361	5.6948.6	Welding neck flanges; PN 10 DN 300		
-	SK20051021 208		2	ST	010324	99781	5.6948.6	Welding neck flanges; PN 16 DN 350		
-	SK20051021 209		15	ST	010325	3527	5.6948.6	Welding neck flanges; PN 10 DN 400		
-	SK20051021 211		18	ST	010326	510419	5.6948.6	Welding neck flanges; PN 10 DN 600		
-	SK20051021 212		8	ST	010327	3197	5.6948.6	Welding neck flanges; PN 10 DN 700		
-	SK20051021 213		11	ST	010328	D27308	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021 215		11	ST	010329	7089	5.6948.6	Welding neck flanges; PN 40 DN 100		
-	SK20051021 216		11	ST	010330	516560	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021 217		3	ST	010331	05/329	5.6948.6	Welding neck flanges; PN 40 DN 20		
-	SK20051021 218		65	ST	010332	05/329	5.6948.6	Welding neck flanges; PN 40 DN 25		
-	SK20051021 219		6	ST	010333	05/329	5.6948.6	Welding neck flanges; PN 40 DN 40		
-	SK20051021 220		17	ST	010334	505027	5.6948.6	Welding neck flanges; PN 16 DN 50		
-	SK20051021 221		23	ST	010335	516550	5.6948.6	Welding neck flanges; PN 40 DN 50		
-	SK20051021 222		2	ST	010336	456508	5.6948.6	Welding neck flanges; PN 16 DN 65		
-	SK20051021 223		10	ST	010337	456514	5.6948.6	Welding neck flanges; PN 16 DN 80		
-	SK20051021 224		3	ST	010338	42984	5.6948.6	Welding neck flanges; PN 40 DN 100		
-	SK20051021 225		9	ST	010339	42681	5.6948.6	Welding neck flanges; PN 40 DN 150		
-	SK20051021 226		6	ST	010340	65879/3	5.6948.6	Welding neck flanges; PN 40 DN 250		
-	SK20051021 227		1	ST	010341	05A0045	5.6948.6	Welding neck flanges; PN 40 DN 300		
-	SK20051021 228		2	ST	010342	42065	5.6948.6	Blind flanges; PN 40 DN 15		
-	SK20051021 229		6	ST	010343	6729	5.6948.6	Blind flanges; PN 16 DN 80		
-	SK20051021 230		2	ST	010344	6729	5.6948.6	Blind flanges; PN 40 DN 15		
-	SK20051021 231		27	ST	010345	8516	5.6948.6	Blind flanges; PN 40 DN 25		
-	SK20051021 232		6	ST	010345	8516	5.6948.6	Blind flanges; PN 40 DN 25		
-	SK20051021 233		2	ST	010346	5498	5.6948.6	Blind flanges; PN 40 DN 100		
-	SK20051021 234		2	ST	010347	012030	5.6948.6	Blind flanges; PN 40 DN 15		
-	SK20051021 235		2	ST	010348	045195	5.6948.6	Welding neck flanges; PN 6 DN 1000		
-	SK20051021 236		100	ST	010349		5.6948.6	Hexagon head screws M12 x 50 mm		
-	SK20051021 237		500	ST	010349		5.6948.6	Hexagon head screws M12 x 55 mm		
-	SK20051021 238		100	ST	010349		5.6948.6	Hexagon head screws M16 x 55 mm		
-	SK20051021 239		50	ST	010349		5.6948.6	Hexagon head screws M16 x 60 mm		
-	SK20051021 240		350	ST	010349		5.6948.6	Hexagon head screws M16 x 65 mm		
-	SK20051021 241		25	ST	010349		5.6948.6	Hexagon head screws M16 x 70 mm		
-	SK20051021 242		25	ST	010349		5.6948.6	Hexagon head screws M16 x 110 mm		
-	SK20051021 243		100	ST	010349		5.6948.6	Hexagon head screws M16 x 120 mm		
-	SK20051021 244		25	ST	010349		5.6948.6	Hexagon head screws M16 x 130 mm		
-	SK20051021 245		125	ST	010349		5.6948.6	Hexagon head screws M20 x 70 mm		
-	SK20051021 246		250	ST	010349		5.6948.6	Hexagon head screws M20 x 80 mm		
-	SK20051021 247		50	ST	010349		5.6948.6	Hexagon head screws M20 x 130 mm		
-	SK20051021 248		25	ST	010349		5.6948.6	Hexagon head screws M20 x 140 mm		
-	SK20051021 249		100	ST	010349		5.6948.6	Hexagon head screws M20 x 150 mm		
-	SK20051021 250		50	ST	010349		5.6948.6	Hexagon head screws M20 x 160 mm		
-	SK20051021 251		24	ST	010349		5.6948.6	Hexagon head screws M20 x 220 mm		

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-	SK20051021 252		260	ST	010349		5.6948.6	Hexagon head screws M24 x 90 mm		
-	SK20051021 253		40	ST	010349		5.6948.6	Hexagon head screws M24 x 100 mm		
-	SK20051021 254		50	ST	010349		5.6948.6	Hexagon head screws M24 x 170 mm		
-	SK20051021 255		64	ST	010349		5.6948.6	Hexagon head screws M24 x 190 mm		
-	SK20051021 256		160	ST	010349		5.6948.6	Hexagon head screws M24 x 220 mm		
-	SK20051021 257		260	ST	010349		5.6948.6	Hexagon head screws M27 x 90 mm		
-	SK20051021 258		192	ST	010349		5.6948.6	Hexagon head screws M27 x 100 mm		
-	SK20051021 259		20	ST	010349		5.6948.6	Hexagon head screws M27 x 250 mm		
-	SK20051021 260		30	ST	010349		5.6948.6	Hexagon head screws M30 x 120 mm		
-	SK20051021 261		20	ST	010349		5.6948.6	Hexagon head screws M30 x 180 mm		
-	SK20051021 262		20	ST	010349		5.6948.6	Hexagon head screws M30 x 190 mm		
-	SK20051021 263		100	ST	010349		5.6948.6	Hexagon head screws M12 x 50 mm		
-	SK20051021 264		36	ST	010349		5.6948.6	Hexagon head screws M12 x 55 mm		
-	SK20051021 265		124	ST	010349		5.6948.6	Hexagon head screws M12 x 55 mm		
-	SK20051021 266		100	ST	010349		5.6948.6	Hexagon head screws M12 x 60 mm		
-	SK20051021 267		50	ST	010349		5.6948.6	Hexagon head screws M16 x 55 mm		
-	SK20051021 268		60	ST	010349		5.6948.6	Hexagon head screws M16 x 60 mm		
-	SK20051021 269		20	ST	010349		5.6948.6	Hexagon head screws M16 x 60 mm		
-	SK20051021 270		100	ST	010349		5.6948.6	Hexagon head screws M16 x 65 mm		
-	SK20051021 271		15	ST	010349		5.6948.6	Hexagon head screws M16 x 110 mm		
-	SK20051021 272		25	ST	010349		5.6948.6	Hexagon head screws M20 x 80 mm		
-	SK20051021 273		10	ST	010349		5.6948.6	Hexagon head screws M20 x 140 mm		
-	SK20051021 274		80	ST	010349		5.6948.6	Hexagon head screws M24 x 90 mm		
-	SK20051021 275		30	ST	010349		5.6948.6	Screw bolts M12 x 65 mm		
-	SK20051021 276		216	ST	010349		5.6948.6	Screw bolts M12 x 70 mm		
-	SK20051021 277		50	ST	010349		5.6948.6	Screw bolts M20 x 95 mm		
-	SK20051021 278		20	ST	010349		5.6948.6	Screw bolts M12 x 90 mm		
-	SK20051021 279		24	ST	010349		5.6948.6	Screw bolts M24 x 120 mm		
-	SK20051021 280		60	ST	010349		5.6948.6	Screw bolts M33 x 170 mm		
-	SK20051021 281		20	ST	010349		5.6948.6	Screw bolts M33 x 290 mm		
-	SK20051021 282		10	ST	010349		5.6948.6	Hexagon nuts M12		
-	SK20051021 283		400	ST	010349		5.6948.6	Hexagon nuts M16		
-	SK20051021 284		300	ST	010349		5.6948.6	Hexagon nuts M20		
-	SK20051021 285		100	ST	010349		5.6948.6	Hexagon nuts M24		
-	SK20051021 286		500	ST	010349		5.6948.6	Hexagon head nuts M12		
-	SK20051021 287		100	ST	010349		5.6948.6	Hexagon head nuts M20		
-	SK20051021 288		500	ST	010349		5.6948.6	Hexagon nuts M12		
-	SK20051021 289		250	ST	010349		5.6948.6	Hexagon nuts M16		
-	SK20051021 290		250	ST	010349		5.6948.6	Hexagon nuts M20		
-	SK20051021 291		476	ST	010349		5.6948.6	Hexagon nuts M24		
-	SK20051021 292		472	ST	010349		5.6948.6	Hexagon nuts M27		
-	SK20051021 293		48	ST	010349		5.6948.6	Hexagon nuts M30		
-	SK20051021 294		220	ST	010349		5.6948.6	Hexagon nuts M12		
-	SK20051021 295		168	ST	010349		5.6948.6	Hexagon nuts M16		
-	SK20051021 296		24	ST	010349		5.6948.6	Hexagon nuts M20		
-	SK20051021 297		64	ST	010349		5.6948.6	Hexagon nuts M24		
-	SK20051021 298		4	ST	010350		5.6948.6	Comb defined seals DN25		
-	SK20051021 299		3	ST	010350		5.6948.6	Comb defined seals DN100		
-	SK20051021 300		5	ST	010350		5.6948.6	Comb defined seals DN250		
-	SK20051021 301		30	ST	010350		5.6948.6	Flat packings DN15		
-	SK20051021 302		2	ST	010350		5.6948.6	Flat packings DN20		
-	SK20051021 303		205	ST	010350		5.6948.6	Flat packings DN25		
-	SK20051021 304		11	ST	010350		5.6948.6	Flat packings DN40		
-	SK20051021 305		31	ST	010350		5.6948.6	Flat packings DN50		
-	SK20051021 306		15	ST	010350		5.6948.6	Flat packings DN80		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051021	307	31	ST	010350		5.6948.6	Flat packings DN100		
-	SK20051021	308	8	ST	010350		5.6948.6	Flat packings DN100		
-	SK20051021	309	1	ST	010350		5.6948.6	Flat packings DN125		
-	SK20051021	310	14	ST	010350		5.6948.6	Flat packings DN150		
-	SK20051021	311	8	ST	010350		5.6948.6	Flat packings DN150		
-	SK20051021	312	3	ST	010350		5.6948.6	Flat packings DN200		
-	SK20051021	313	8	ST	010350		5.6948.6	Flat packings DN250		
-	SK20051021	314	12	ST	010350		5.6948.6	Flat packings DN250		
-	SK20051021	315	2	ST	010350		5.6948.6	Flat packings DN250		
-	SK20051021	316	2	ST	010350		5.6948.6	Flat packings DN300		
-	SK20051021	317	2	ST	010350		5.6948.6	Flat packings DN350		
-	SK20051021	318	15	ST	010350		5.6948.6	Flat packings DN400		
-	SK20051021	319	14	ST	010350		5.6948.6	Flat packings DN500		
-	SK20051021	320	15	ST	010350		5.6948.6	Flat packings DN600		
-	SK20051021	321	8	ST	010350		5.6948.6	Flat packings DN700		
-	SK20051021	322	2	ST	010350		5.6948.6	Fibrous packings DN15		
-	SK20051021	323	12	ST	010350		5.6948.6	Fibrous packings DN40		
-	SK20051021	324	4	ST	010350		5.6948.6	Fibrous packings DN50		
-	SK20051021	325	28	ST	010350		5.6948.6	Fibrous packings DN65		
-	SK20051021	326	8	ST	010350		5.6948.6	Fibrous packings DN80		
-	SK20051021	327	29	ST	010350		5.6948.6	Fibrous packings DN100		
-	SK20051021	328	20	ST	010350		5.6948.6	Fibrous packings DN150		
-	SK20051021	329	9	ST	010350		5.6948.6	Fibrous packings DN200		
-	SK20051021	330	6	ST	010350		5.6948.6	Fibrous packings DN300		
-	SK20051021	331	3	ST	010350		5.6948.6	Fibrous packings DN500		
-	SK20051032	35	3	ST	010387	A5122	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
-	SK20051032	36	3	ST	010388	A5269	5.6948.6	Elbow 90° R=1,5 DA, seamless DN150		
-	SK20051032	37	5	ST	010389	A5039	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
-	SK20051032	38	3	ST	010390	A4563, A4900	5.6948.6	Elbow 90° R=1,5 DA, welded DN200		
-	SK20051032	39	2	ST	010391	7089	5.6948.6	Welding neck flanges; PN 16 DN150		
-	SK20051032	40	3	ST	010392	30561	5.6948.6	Welding neck flanges; PN 40 DN100		
-	200513799	1	80,00	KG	010524	N 503048	5.6948.1	Blech 5 mm / 1.4301 / DIN17440 / 3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	200513799	2	186427	1	ST	010525	5.6948.1	Blechzuschnitt 1000 x 1000 x 25 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200513799	3	101447	128,00	KG	010526	5.6948.1	Blech 8 mm / 1.4301 / DIN17440 / 3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	200514270	1	1221640	1	ST	010724	5.6948.1	Bogen 90°/BA3/40x2/1.4571/3.1		
-	200514271	1	181942	10	ST	010725	5.6948.1	Schweißnippel R 1/2"		
-	200514271	2	181942	10	ST	010725	5.6948.1	Schweißnippel R 1"		
-	200514335	1	122834	1	ST	010726	5.6948.1	V-Flansch C DN 32/42, 4-2633-1.4571/o-Att		
-	200514335	2	211187	1	ST	010727	5.6948.1	Red. DIN2616-2-K-60,3/42,4x2,0 mm-o-Att.	0000	ohne Attest
-	200514335	3	152221	3	ST	010728	5.6948.1	Bogen DIN2605-1-90°-BA3-42,4x2,0-o-Att.	0000	ohne Attest
-	SK20051044	5	215764	1	ST	010740	5.6948.6	Bogen DIN2605-1-90°-BA3-114,3x2,6/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051044	6	123168	1	ST	010741	5.6948.6	V-Fla DN150/168,3DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051044	7	123072	1	ST	010742	5.6948.6	W-Fla DN100/114,3DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	1	188553	24,00	M	010747	5.6948.6	Rohr 60,3x2,9/DIN2448/St35.8/1/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	2	174576	6,00	M	010748	5.6948.6	Rohr 26,9x2/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	3	171986	5	ST	010749	5.6948.6	Bogen DIN2605-1-90-3-60,3x2,9S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	21	174492	6,00	M	010752	5.6948.6	Rohr 88,9x5,6 mm/DIN2448/St35.8/1/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	4	187385	6,00	M	010751	5.6948.6	Rohr 21,3x2/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	22	174940	6,00	M	010752	5.6948.6	Rohr 88,9x3,2/DIN2448/St35.8/1/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	23	221641	6,00	M	010753	5.6948.6	Rohr 60,3x2,9/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	24	174745	6,00	M	010754	5.6948.6	Rohr 42,4x2,9/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	5	187386	10	ST	010755	5.6948.6	Rohr 42,4x2/DIN2463/1.4571/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	6	157378	16	ST	010756	5.6948.6	Bogen DIN2605-1-90-3-88,9x3,2S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	7	184589	6	ST	010757	5.6948.6	T-Stk DIN2615-1-60,3x2,9-33,7x2,6S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	7	184589	6	ST	010758	5.6948.6	T-Stk DIN2615-1-60,3x2,9-60,3x2,9S-F	0003	Zeugnis n. EN10204-3.1 deutsch

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051038	25	188179		9	ST	010759	610630		
-	SK20051038	8	188553	180,00	M	010760	216976	Bogen DIN 2609-1-90°-BA3-60,3x2,9W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	9	196449	35	ST	010761	525961	5.6948.6 Rohr 60,3x2,9/DIN2448/St35.81/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	26	122928		1	ST	010762	DD74	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	27	124825		1	ST	010763	04857	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	10	196465	8	ST	010764	521229	5.6948.6 V-Fla DN50/60,30IN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	28	124754		1	ST	010765	65051	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	11	188552	120,00	M	010766	217522	5.6948.6 Red. DIN2616-2-K-60,3x2,9/33,7x2,6S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	12	200458		1	ST	010767	68432	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	13	121848	40	ST	010768	246032	5.6948.6 V-Flansch DN40/48,30IN2635-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	30	124970	2	ST	010769	3798	5.6948.6 V-Flansch DN500/508-DIN2632-C22.8/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	14	123000	1	ST	010770	60665	5.6948.6 V-Flansch DN 80/88,9-2633-C22.8/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	15	215761	4	ST	010771	32815	5.6948.6 Bogen DIN2605-1-90-3-33,7x2,6S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	8	221561	1	ST	010774	V343138	5.6948.6 Bogen DIN2605-1-90-3-88,9x2,3W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	2	221558	3,00	M	010775	485077	5.6948.6 Red. DIN2616-K-355,6x5,6-273,0x2,9/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	3	221558	2,00	M	010776	398286	5.6948.6 Rohr 273x3/DIN2463/1.4571/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	4	174899	1,00	M	010777	483212	5.6948.6 Rohr 88,9x2,3/DIN2463/1.4571/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	5	181942	1	ST	010778	165494	5.6948.6 Rohr 60,3x2/DIN2463/1.4571/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	6	221559	1	ST	010779	478575	5.6948.6 Anschweißende 1"x3,2/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	7	221560	1	ST	010780	485077	5.6948.6 Bogen DIN2605-1-90-3-355,6x6,3W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	9	123265	2	ST	010781	66415	5.6948.6 V-Fla DN250/273DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	10	123034	2	ST	010782	68900	5.6948.6 V-Fla DN80/88,9DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	11	122928	1	ST	010783	S-2872	5.6948.6 V-Fla DN50/60,30IN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	12	107735	1	ST	010784	67518	5.6948.6 B-Fl DN250/DIN2527-16/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051039	1	181703	4	ST	010813		5.6948.6 Gleitschuh TA120G 61 W1 OZN DN 50		
-	SK20051039	2	181703	7	ST	010813		5.6948.6 Gleitschuh TA120G 89 W3 DN 80		
-	SK20051018	1		1	ST	010814		5.6948.6 T-support TA 120A 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	2		8	ST	010814		5.6948.6 T-support TA 120B 89 W1 OZN DN 80	0000	ohne Attest
-	SK20051018	3		6	ST	010814		5.6948.6 T-support TA 120B 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	4		1	ST	010814		5.6948.6 T-support TA 120B 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	5		1	ST	010814		5.6948.6 T-support TA 120B 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	6		1	ST	010814		5.6948.6 T-support TA 120B 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	7		1	ST	010814		5.6948.6 T-support TA 120B 169 W1 OZN DN 150	0000	ohne Attest
-	SK20051018	8		3	ST	010814		5.6948.6 T-support TA 120B 220 W1 OZN DN 200	0000	ohne Attest
-	SK20051018	9		8	ST	010814		5.6948.6 T-support TA 120D 34 W3 DN 25	0000	ohne Attest
-	SK20051018	10		93	ST	010814		5.6948.6 T-support TA 120G 22 W1 OZN DN 15	0000	ohne Attest
-	SK20051018	11		236	ST	010814		5.6948.6 T-support TA 120G 34 W1 OZN DN 25	0000	ohne Attest
-	SK20051018	12		9	ST	010814		5.6948.6 T-support TA 120G 49 W1 OZN DN 40	0000	ohne Attest
-	SK20051018	13		69	ST	010814		5.6948.6 T-support TA 120G 61 W1 OZN DN 50	0000	ohne Attest
-	SK20051018	14		18	ST	010814		5.6948.6 T-support TA 120G 89 W1 OZN DN 80	0000	ohne Attest
-	SK20051018	15		31	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	16		2	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	17		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	18		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	19		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	20		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	21		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	22		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	23		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	24		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	25		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	26		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	27		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	28		1	ST	010814		5.6948.6 T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest

EinkBeleg	Pos	Material	Menge	BWE	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SX20051018	29	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	30	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	31	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	32	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	33	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	34	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	35	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	36	6	ST	010814		5.6948.6	T-support TA 120G 169 W1 OZN DN 150	0000	ohne Attest
-	SX20051018	37	2	ST	010814		5.6948.6	T-support TA 120G 220 W1 OZN DN 200	0000	ohne Attest
-	SX20051018	38	4	ST	010814		5.6948.6	T-support TA 120H 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	39	1	ST	010814		5.6948.6	T-support TA 120H 115 W1 OZN DN 100	0000	ohne Attest
-	SX20051018	40	4	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 34 W3 DN 25	0000	ohne Attest
-	SX20051018	41	2	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 61 W3 DN 50	0000	ohne Attest
-	SX20051018	42	5	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 61 W3 DN 50	0000	ohne Attest
-	SX20051018	43	1	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 61 W3 DN 50	0000	ohne Attest
-	SX20051018	44	1	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 89 W3 DN 80	0000	ohne Attest
-	SX20051018	45	2	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 89 W3 DN 80	0000	ohne Attest
-	SX20051018	46	1	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 89 W3 DN 80	0000	ohne Attest
-	SX20051018	47	1	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 115 W3 DN 100	0000	ohne Attest
-	SX20051018	48	71	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 22 W3 DN 15	0000	ohne Attest
-	SX20051018	49	1	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 27 W3 DN 20	0000	ohne Attest
-	SX20051018	50	26	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 34 W3 DN 25	0000	ohne Attest
-	SX20051018	51	8	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 34 W3 DN 25	0000	ohne Attest
-	SX20051018	52	6	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 49 W3 DN 40	0000	ohne Attest
-	SX20051018	53	16	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 61 W3 DN 50	0000	ohne Attest
-	SX20051018	54	17	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 61 W3 DN 50	0000	ohne Attest
-	SX20051018	55	1	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 61 W3 DN 50	0000	ohne Attest
-	SX20051018	56	3	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 89 W3 DN 80	0000	ohne Attest
-	SX20051018	57	9	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 115 W3 DN 100	0000	ohne Attest
-	SX20051018	58	1	ST	010814		5.6948.6	Web-support, SV 1508 273 W1 OZN DN 250	0000	ohne Attest
-	SX20051018	59	1	ST	010814		5.6948.6	Web-support, SV 1508 324 W1 OZN DN 300	0000	ohne Attest
-	SX20051018	60	1	ST	010814		5.6948.6	Web-support, SV 1508 356 W1 OZN DN 350	0000	ohne Attest
-	SX20051018	61	1	ST	010814		5.6948.6	Web-support, SV 1508 407 W1 OZN DN 400	0000	ohne Attest
-	SX20051018	62	3	ST	010814		5.6948.6	Web-support, SV 1508 508 W1 OZN DN 500	0000	ohne Attest
-	SX20051018	63	1	ST	010814		5.6948.6	Web-support, SV 1508 508 W1 OZN DN 500	0000	ohne Attest
-	SX20051018	64	2	ST	010814		5.6948.6	Web-support, SV 1508 712 W1 OZN DN 700	0000	ohne Attest
-	SX20051018	65	5	ST	010814		5.6948.6	Web-support, SV 150G 273 W1 OZN DN 250	0000	ohne Attest
-	SX20051018	66	4	ST	010814		5.6948.6	Web-support, SV 150G 324 W1 OZN DN 300	0000	ohne Attest
-	SX20051018	67	3	ST	010814		5.6948.6	Web-support, SV 150G 356 W1 OZN DN 350	0000	ohne Attest
-	SX20051018	68	2	ST	010814		5.6948.6	Web-support, SV 150G 407 W1 OZN DN 400	0000	ohne Attest
-	SX20051018	69	6	ST	010814		5.6948.6	Web-support, SV 150G 508 W1 OZN LF DN 50	0000	ohne Attest
-	SX20051018	70	13	ST	010814		5.6948.6	Web-support, SV 150G 610 W1 OZN LF DN 60	0000	ohne Attest
-	SX20051018	71	1	ST	010814		5.6948.6	Web-support, SV 150G 610 W1 OZN LF DN 60	0000	ohne Attest
-	SX20051018	72	1	ST	010814		5.6948.6	Web-support, SV 150G 712 W1 OZN LF DN 70	0000	ohne Attest
-	SX20051018	73	9	ST	010814		5.6948.6	Web-support, SV 150H 273 W1 OZN DN 250	0000	ohne Attest
-	SX20051018	74	1	ST	010814		5.6948.6	Web-support, SV 150H 356 W1 OZN DN 350	0000	ohne Attest
-	SX20051018	75	2	ST	010814		5.6948.6	Web-support, SV 150H 508 W1 OZN LF DN 50	0000	ohne Attest
-	SX20051018	76	1	ST	010814		5.6948.6	Web-support, 1.4541, SV 1508 273 W3 DN 2	0000	ohne Attest
-	SX20051018	77	1	ST	010814		5.6948.6	Web-support, 1.4541, SV 150G 273 W3 DN 2	0000	ohne Attest
-	SX20051018	78	7	ST	010814		5.6948.6	Pipe clamp, RB10A 324 W1 OZN DN 300	0000	ohne Attest
-	SX20051018	79	2	ST	010814		5.6948.6	Pipe clamp, RB10A 22 W3 DN 15	0000	ohne Attest
-	SX20051018	80	14	ST	010814		5.6948.6	Sliding plate Hesterberg SP11 DN 500	0000	ohne Attest
-	SX20051018	81	6	ST	010814		5.6948.6	Sliding plate Hesterberg SP12 DN 700	0000	ohne Attest
-	SX20051018	82	13	ST	010814		5.6948.6	T-support TA 1208 89 W1 OZN LF DN 80	0000	ohne Attest
-	SX20051018	83	2	ST	010814		5.6948.6		0000	ohne Attest

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051018	84	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN LF DN 100	0000	ohne Attest
-	SK20051018	85	3	ST	010814		5.6948.6	Web-support, SV 150G 273 W1 OZN LF DN 25	0000	ohne Attest
-	SK20051018	86	1	ST	010814		5.6948.6	Web-support, SV 150G 324 W1 OZN LF DN 30	0000	ohne Attest
-	SK20051018	87	3	ST	010814		5.6948.6	Web-support, SV 150G 407 W1 OZN LF DN 40	0000	ohne Attest
-	SK20051040	3	2	ST	010847	184736	5.6948.6	V-Flansch DN65/76,1-DIN2631-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	1	21,00	M	010850	412673	5.6948.6	Rohr 355,6x6,3/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051044	4	1	ST	010852	V504131	5.6948.6	T-Stk DIN2615-1-273x8,8-114,3x6,3W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051040	4	1	ST	010856	546024	5.6948.6	Red. DIN2616-2-K-508x6,3-406,4x6,3W-A	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	1	24,00	M	010857	68900	5.6948.6	V-Fla DN80/88,90/DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	2	174814		010858	357402	5.6948.6	Rohr 48,3x2/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051033	20	1	ST	010859	50494	5.6948.6	Reducer conc. welded DN500/400		
-	SK20051033	25	2	ST	010859	50494	5.6948.6	Reducer conc. welded DN500/400		
-	SK20051048	4	10	ST	010862	702055	5.6948.6	Bogen DIN2605-1-90-3-48,3x2W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	11	2	ST	010863	4210456	5.6948.6	T-Stk DIN2615-1-48,3x2-33,7x2W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	10	3	ST	010864	V-817037	5.6948.6	Red. DIN2616-2-K-48,3x2-42,4x2W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	9	5	ST	010865	453650	5.6948.6	Bogen DIN2605-1-90-3-26,9x1,6W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	8	5	ST	010866	V-817037	5.6948.6	Red. DIN2616-2-K-33,7x2-26,9x1,6W-L	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	7	1	ST	010867	4210456	5.6948.6	T-Stk DIN2615-1-48,3x2-33,7x2W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	6	6,00	M	010868	466580	5.6948.6	Rohr 42,4x3,0/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	5	2	ST	010869	68432	5.6948.6	V-Flansch DN 40/48,3-2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	15	2	ST	010870	5141086	5.6948.6	V-Flansch DN250/273-DIN2634-C22.8/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051048	3	1	ST	010871	4002784	5.6948.6	T-Stk DIN2615-1-48,3x2,6-48,3x2,6W-L	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051033	96	2	ST	010983	3798	5.6948.6	WN Flange PN6 DN400		
-	SK20051033	1	4	ST	010984	3391	5.6948.6	WN Flange PN16 DN400		
-	SK20051033	97	2	ST	010985	34058	5.6948.6	WN Flange PN10 DN200		
-	SK20051033	2	1	ST	010986	22632	5.6948.6	WN Flange PN25 DN300		
-	SK20051033	5	2	ST	010987	H-152	5.6948.6	WN Flange PN40 DN100		
-	SK20051033	6	1	ST	010988	33340	5.6948.6	WN Flange PN16 DN300		
-	SK20051033	7	1	ST	010989	5101135	5.6948.6	WN Flange PN25 DN200		
-	SK20051033	8	2	ST	010990	H-152	5.6948.6	WN Flange PN40 DN100		
-	SK20051033	9	1	ST	010991	37490	5.6948.6	Reducer conc. smls DN150/100		
-	SK20051033	10	1	ST	010992	H-152	5.6948.6	WN Flange PN40 DN100		
-	SK20051033	11	1	ST	010993	7089	5.6948.6	WN Flange PN63 DN80		
-	SK20051033	14	3	ST	010994	24577	5.6948.6	Elbow 90° -BA3- smls DN80		
-	SK20051033	15	1	ST	010995	379629	5.6948.6	Reducer conc. smls DN200/100		
-	SK20051033	16	1	ST	010996	2098	5.6948.6	WN Flange PN 63 DN200		
-	SK20051033	19	2	ST	010997	7089	5.6948.6	WN Flange PN 63 DN100		
-	SK20051033	21	3	ST	010998	53595/2	5.6948.6	WN Flange PN 10 DN500		
-	SK20051033	29	3	ST	010999	9351N1	5.6948.6	Elbow 90° -BA3- welded DN500		
-	SK20051033	26	4	ST	011000	53595/2	5.6948.6	WN Flange PN 10 DN500		
-	SK20051033	24	3	ST	011001	9351N1	5.6948.6	Elbow 90° -BA3- welded DN500		
-	SK20051033	30	2	ST	011002	646619	5.6948.6	Elbow 90° -BA3- welded DN400		
-	SK20051033	37	13,00	M	011003	471338	5.6948.6	Pipe welded DN80		
-	SK20051033	39	5	ST	011004	V-007009	5.6948.6	Elbow 90° -BA3- welded DN80		
-	SK20051033	40	5	ST	011005	482806	5.6948.6	Elbow 90° -BA3- welded DN25		
-	SK20051033	41	3	ST	011006	67459	5.6948.6	WN Flange PN16 DN25		
-	SK20051033	43	1	ST	011007	228718	5.6948.6	Reducer conc. smls DN300/150		
-	SK20051033	56	1	ST	011008	347671	5.6948.6	Reducer conc. smls DN200/150		
-	SK20051033	45	2	ST	011009	33340	5.6948.6	WN Flange PN 16 DN300		
-	SK20051033	46	2	ST	011010	H-152	5.6948.6	WN Flange PN 16 DN150		
-	SK20051033	64	1	ST	011011	5041	5.6948.6	Elbow 90° -BA3- welded DN300		
-	SK20051033	52	1	ST	011012	9067N1	5.6948.6	Elbow 45° -BA3- welded DN200		
-	SK20051033	66	1	ST	011013	9358N1	5.6948.6	Elbow 90° -BA3- welded DN200		
-	SK20051033	54	2	ST	011014	253460	5.6948.6	Tee smls DN250/200		
-	SK20051033	55	1	ST	011015	228718	5.6948.6	Reducer conc. smls DN300/150		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
- SK20051033	44		1	ST	011016	347671	5.6948.6	Reducer conc. Smls DN200/150		
- SK20051033	57		2	ST	011017	33340	5.6948.6	WN Flange PN 16 DN300		
- SK20051033	58		2	ST	011018	H-152	5.6948.6	WN Flange PN 16 DN150		
- SK20051033	63		6,00	M	011019	39492	5.6948.6	Pipe welded DN300		
- SK20051033	51		1	ST	011020	5041	5.6948.6	Elbow 90° -BA3- welded DN300		
- SK20051033	65		1	ST	011021	9067N1	5.6948.6	Elbow 45° -BA3- welded DN200		
- SK20051033	53		1	ST	011022	9358N1	5.6948.6	Elbow 90° -BA3- welded DN200		
- SK20051033	67		1	ST	011023	313695	5.6948.6	Reducer conc. smls DN80/40		
- SK20051033	68		1	ST	011024	94186	5.6948.6	Reducer eccentric smls DN40/25		
- SK20051033	69		1	ST	011025	120084	5.6948.6	Tee smls DN40/25		
- SK20051033	70		6,00	M	011026	216595	5.6948.6	Pipe smls DN40		
- SK20051033	72		2	ST	011027	500377	5.6948.6	Elbow 45° -BA3 smls DN40		
- SK20051033	74		2	ST	011028	209899	5.6948.6	Reducer conc. smls DN25/15		
- SK20051033	75		1	ST	011029	313695	5.6948.6	Reducer conc. smls DN80/40		
- SK20051033	77		1	ST	011030	212940	5.6948.6	Tee smls DN100/100		
- SK20051033	78		2	ST	011031	H-152	5.6948.6	WN Flange PN 40 DN100		
- SK20051033	86		1	ST	011032	6729	5.6948.6	Blind Flange PN 40 DN100		
- SK20051033	82		1	ST	011033	212940	5.6948.6	Tee smls DN100/100		
- SK20051033	83		2	ST	011034	H-152	5.6948.6	WN Flange PN 40 DN100		
- SK20051033	81		1	ST	011035	6729	5.6948.6	Blind Flange PN 40 DN100		
- SK20051033	88		1	ST	011036	H-152	5.6948.6	WN Flange PN 40 DN100		
- SK20051033	92		6	ST	011037	45035K	5.6948.6	Pipe smls DN150		
- SK20051033	94		1	ST	011038	4012215	5.6948.6	Tee welded DN80		
- SK20051033	95		6	ST	011039	818610	5.6948.6	Pipe welded DN600		
- SK20051033	38		1	ST	011040	V-533007	5.6948.6	Reducer conc. welded DN80/50		
- SK20051033	33		2	ST	011041	478948	5.6948.6	Elbow 90° -BA3- welded DN50		
- SK20051033	35		2	ST	011042	811054	5.6948.6	Tee welded DN50		
- SK20051033	34		1	ST	011043	811054	5.6948.6	Tee welded DN50		
- SK20051033	32		1	ST	011044	4012212	5.6948.6	Tee welded DN50/25		
- SK20051033	31		1	ST	011045	443950	5.6948.6	Tee welded DN50/40		
- SK20051033	36		2	ST	011046	478948	5.6948.6	Elbow 90° welded DN50		
- SK20051033	87		1	ST	011047	H-152	5.6948.6	WN Flange PN 10 DN150		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	200512599	2 172119	70,00	M	008720	45606,41153X	5.6948.1	Rohr 114,3x3,6/DIN2448/St35.8/1/3.1B	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512599	1 170523	75,60	M	008721	446895	5.6948.1	Rohr 168,3x6,3/DIN2458/St52.0/3.1B	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051022	1 170851	1.730	MM	009196	826674	5.6948.6	Rohr 406,4x8,8/DIN2458/St37.0/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051022	2 320333	1.640	MM	009197	829293	5.6948.6	Rohr 323,9x10/DIN2458/St37.0/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051022	3 170351	660	MM	009198	215340	5.6948.6	Rohr 88,9x3,2/DIN2458/St37.0/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512660	1 164421	3.564,00	KG	009229		5.6948.1	HEA 300 / S235JR / 2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200512660	2 164421	1.620,00	KG	009230		5.6948.1	HEA 300 / S235JR / 2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200512660	3 164421	2.430,00	KG	009231		5.6948.1	HEA 300 / S235JR / 2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200512660	4 100051	125,00	KG	009232	40387E	5.6948.1	Blech 5 mm/S235JR/EN10025/3.1B	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512660	5 100103	250,00	KG	009233	4010E	5.6948.1	Blech 10 mm/S235JR/EN10025/3.1B	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	1 1220379	150,00	KG	009242	452657	5.6948.1	Schweißdraht DNO-IG Ø 2,4 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	2 1220356	75,00	KG	009248	452661	5.6948.1	Schweißdraht DNO-IG Ø 3,0 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	3 1220281	2.280	ST	009278	2112722	5.6948.1	Elektroden EV 50 Ø 2,5/250 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	4 1220282	6.240	ST	009279	2112704	5.6948.1	Elektroden EV 50 Ø 3,2/450 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512754	5 1220283	3.960	ST	009280	2112910	5.6948.1	Elektroden EV 50 Ø 4,0/450 mm	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512819	18 164758	67,86	KG	009805	AP 523663	5.6948.1	Winkel gl L50x5 / S235JR/2.2	0003	Zeugnis n. EN10204-3.1 deutsch
-	200512819	17 164761	32,52	KG	009806	AP 523002	5.6948.1	Winkel gl L60x6 / S235JR/2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200512819	16 164765	44,28	KG	009807	AP 522997	5.6948.1	Winkel gl L70x7 / S235JR/2.2	0002	Zeugnis n. EN10204-2.2 deutsch
-	200513206	1 1200360	2	ST	009893	323054,66753	5.6948.1	Red. DIN2616-2-K-88,9x3,2/76,1x2,9	0003	Zeugnis n. EN10204-3.1 deutsch
-	200513206	2 123072	2	ST	009894	7073,7F579,66828	5.6948.1	V-Fla C100x114,3/DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051021	1	6,00	M	010004	415227	5.6948.6	pipe, seamless DN15 Abm.21,3 x 2,6 mm		
-	SK20051021	2	12,00	M	010005	423030	5.6948.6	pipe, seamless DN40 Abm.48,3 x 2,6 mm		
-	SK20051021	3	18,00	M	010006	323054	5.6948.6	pipe, seamless DN50 Abm.60,3 x 2,9 mm		
-	SK20051021	4	42,00	M	010007	311275	5.6948.6	pipe, seamless DN80 Abm.88,9 x 3,2 mm		
-	SK20051021	5	18,00	M	010008	215794	5.6948.6	pipe, seamless DN100 Abm.114,3 x 3,6 mm		
-	SK20051021	6	24,00	M	010009	44551K	5.6948.6	pipe, seamless DN150 Abm.168,3 x 4,5 mm		
-	SK20051021	7	24,00	M	010010	415227	5.6948.6	pipe, seamless DN15 Abm.21,3 x 2,6 mm		
-	SK20051021	8	30,00	M	010011	34113	5.6948.6	pipe, seamless DN25 Abm.33,7 x 2,6 mm		
-	SK20051021	9	6,00	M	010012	216875	5.6948.6	pipe, seamless DN40 Abm.48,3 x 2,6 mm		
-	SK20051021	10	6,00	M	010013	215794	5.6948.6	pipe, seamless DN100 Abm.114,3 x 3,6 mm		
-	SK20051021	11	6,00	M	010014	216582	5.6948.6	pipe, seamless DN100 Abm.114,3 x 6,3 mm		
-	SK20051021	12	6,00	M	010015	78804	5.6948.6	pipe, seamless DN150 Abm.168,3 x 7,1 mm		
-	SK20051021	13	330,00	M	010016	415227	5.6948.6	pipe, seamless DN15 Abm.21,3 x 2,6 mm		
-	SK20051021	14	726,00	M	010017	34113	5.6948.6	pipe, seamless DN25 Abm.33,7 x 2,6 mm		
-	SK20051021	15	18,00	M	010018	423030	5.6948.6	pipe, seamless DN40 Abm.48,3 x 2,6 mm		
-	SK20051021	16	300,00	M	010019	323054	5.6948.6	pipe, seamless DN50 Abm.60,3 x 2,9 mm		
-	SK20051021	17	96,00	M	010020	311275	5.6948.6	pipe, seamless DN80 Abm.88,9 x 3,2 mm		
-	SK20051021	18	84,00	M	010021	215794	5.6948.6	pipe, seamless DN100 Abm.114,3 x 3,6 mm		
-	SK20051021	19	6,00	M	010022	215803	5.6948.6	pipe, seamless DN125 Abm.139,7 x 4 mm		
-	SK20051021	20	42,00	M	010023	44551K	5.6948.6	pipe, seamless DN150 Abm.168,3 x 4,5 mm		
-	SK20051021	21	60,00	M	010024	34113	5.6948.6	pipe, seamless DN25 Abm.33,7 x 2,6 mm		
-	SK20051021	22	150,00	M	010025	215794	5.6948.6	pipe, seamless DN100 Abm.114,3 x 3,6 mm		
-	SK20051021	23	18,00	M	010026	39901	5.6948.6	pipe, welded DN200 Abm.219,1 x 4,5 mm		
-	SK20051021	24	6,00	M	010027	39901	5.6948.6	pipe, welded DN200 Abm.219,1 x 4,5 mm		
-	SK20051021	25	12,00	M	010028	54636	5.6948.6	pipe, welded DN300 Abm.323,9 x 5,6 mm		
-	SK20051021	26	24,00	M	010029	48555,474584,0119	5.6948.6	pipe, welded DN500 Abm.508 x 6,3 mm		
-	SK20051021	27	54,00	M	010030	770013	5.6948.6	pipe, welded DN1000 Abm.1016 x 10 mm		
-	SK20051021	28	18,00	M	010031	501523	5.6948.6	pipe, welded DN250 Abm.273 x 5 mm		
-	SK20051021	29	60,00	M	010032	7338546,7339262	5.6948.6	pipe, welded DN350 Abm.355,6 x 5,6 mm		
-	SK20051021	30	24,00	M	010033	7338530	5.6948.6	pipe, welded DN400 Abm.406,4 x 6,3 mm		
-	SK20051021	31	72,00	M	010034	044450	5.6948.6	pipe, welded DN500 Abm.508 x 6,3 mm		
-	SK20051021	32	114,00	M	010035	38015,45037,55396	5.6948.6	pipe, welded DN600 Abm.610 x 6,3 mm		
-	SK20051021	33	78,00	M	010036	55400,55399	5.6948.6	pipe, welded DN700 Abm.711 x 7,1 mm		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
- SK20051021	36		252,00	M	010037	4020950	5.6948.6	pipe, welded DN15 Abm.21,3 x 1,6 mm		
- SK20051021	37		6,00	M	010038	453650	5.6948.6	pipe, welded DN20 Abm.26,9 x 1,6 mm		
- SK20051021	38		162,00	M	010039	488258	5.6948.6	pipe, welded DN25 Abm.33,7 x 2 mm		
- SK20051021	39		30,00	M	010040	482806,480581	5.6948.6	pipe, welded DN40 Abm.48,3 x 2 mm		
- SK20051021	40		162,00	M	010041	484002	5.6948.6	pipe, welded DN50 Abm.60,3 x 2 mm		
- SK20051021	41		42,00	M	010042	357404	5.6948.6	pipe, welded DN80 Abm.88,9 x 2,3 mm		
- SK20051021	42		66,00	M	010043	567230	5.6948.6	pipe, welded DN100 Abm.114,3 x 2,6 mm		
- SK20051021	43		18,00	M	010044	487585,486974	5.6948.6	pipe, welded DN150 Abm.168,3 x 4 mm		
- SK20051021	44		66,00	M	010045	50209	5.6948.6	pipe, welded DN250 Abm.273 x 5 mm		
- SK20051021	45		18,00	M	010046	484605,484004	5.6948.6	pipe, welded DN300 Abm.323,9 x 5,6 mm		
- SK20051021	46		14	ST	010047	122544	5.6948.6	Elbow 90° R=1,5 DA, seamless DN15		
- SK20051021	47		6	ST	010048	313113	5.6948.6	Elbow 90° R=1,5 DA, seamless DN40		
- SK20051021	48		5	ST	010049	215407	5.6948.6	Elbow 90° R=1,5 DA, seamless DN50		
- SK20051021	49		22	ST	010050	320812	5.6948.6	Elbow 90° R=1,5 DA, seamless DN80		
- SK20051021	50		5	ST	010051	215380	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
- SK20051021	51		19	ST	010052	218254	5.6948.6	Elbow 90° R=1,5 DA, seamless DN150		
- SK20051021	52		8	ST	010053	122544	5.6948.6	Elbow 90° R=1,5 DA, seamless DN15		
- SK20051021	53		9	ST	010054	213798	5.6948.6	Elbow 90° R=1,5 DA, seamless DN25		
- SK20051021	54		2	ST	010055	521246	5.6948.6	Elbow 90° R=1,5 DA, seamless DN150		
- SK20051021	55		90	ST	010056	122544	5.6948.6	Elbow 90° R=1,5 DA, seamless DN15		
- SK20051021	56		222	ST	010057	131547,213798	5.6948.6	Elbow 90° R=1,5 DA, seamless DN25		
- SK20051021	57		12	ST	010058	313113	5.6948.6	Elbow 90° R=1,5 DA, seamless DN40		
- SK20051021	58		71	ST	010059	215407	5.6948.6	Elbow 90° R=1,5 DA, seamless DN50		
- SK20051021	59		19	ST	010060	320812	5.6948.6	Elbow 90° R=1,5 DA, seamless DN80		
- SK20051021	60		35	ST	010061	215380	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
- SK20051021	61		2	ST	010062	520708	5.6948.6	Elbow 90° R=1,5 DA, seamless DN125		
- SK20051021	62		12	ST	010063	218254	5.6948.6	Elbow 90° R=1,5 DA, seamless DN150		
- SK20051021	63		69	ST	010064	213798	5.6948.6	Elbow 90° R=1,5 DA, seamless DN25		
- SK20051021	64		26	ST	010065	518622	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
- SK20051021	65		10	ST	010066	1631	5.6948.6	Elbow 90° R=1,5 DA, welded DN200		
- SK20051021	66		10	ST	010067	502404	5.6948.6	Elbow 90° R=1,5 DA, welded DN300		
- SK20051021	67		2	ST	010068	9351N1	5.6948.6	Elbow 90° R=1,5 DA, welded DN500		
- SK20051021	68		12	ST	010069	315460	5.6948.6	Elbow 90° R=1,5 DA, welded DN250		
- SK20051021	69		7	ST	010070	9078N1	5.6948.6	Elbow 90° R=1,5 DA, welded DN250		
- SK20051021	70		1	ST	010071	502404	5.6948.6	Elbow 90° R=1,5 DA, welded DN300		
- SK20051021	71		6	ST	010072	524114	5.6948.6	Elbow 90° R=1,5 DA, welded DN350		
- SK20051021	72		8	ST	010073	727612	5.6948.6	Elbow 90° R=1,5 DA, welded DN400		
- SK20051021	73		16	ST	010074	788513	5.6948.6	Elbow 90° R=1,5 DA, welded DN500		
- SK20051021	74		21	ST	010075	9255N1,9027N1	5.6948.6	Elbow 90° R=1,5 DA, welded DN600		
- SK20051021	75		15	ST	010076	9207N1,9002N1	5.6948.6	Elbow 90° R=1,5 DA, welded DN700		
- SK20051021	76		77	ST	010077	453650	5.6948.6	Elbow 90° R=1,5 DA, welded DN15		
- SK20051021	77		5	ST	010078	453650	5.6948.6	Elbow 90° R=1,5 DA, welded DN20		
- SK20051021	78		92	ST	010079	4705185	5.6948.6	Elbow 90° R=1,5 DA, welded DN25		
- SK20051021	79		9	ST	010080	702055	5.6948.6	Elbow 90° R=1,5 DA, welded DN40		
- SK20051021	80		71	ST	010081	478948	5.6948.6	Elbow 90° R=1,5 DA, welded DN50		
- SK20051021	81		12	ST	010082	V-007009	5.6948.6	Elbow 90° R=1,5 DA, welded DN80		
- SK20051021	82		12	ST	010083	V-110040	5.6948.6	Elbow 90° R=1,5 DA, welded DN100		
- SK20051021	83		8	ST	010084	35412	5.6948.6	Elbow 90° R=1,5 DA, welded DN150		
- SK20051021	84		12	ST	010085	484604	5.6948.6	Elbow 90° R=1,5 DA, welded DN250		
- SK20051021	85		5	ST	010086	51513	5.6948.6	Elbow 90° R=1,5 DA, welded DN300		
- SK20051021	86		6	ST	010087	313142	5.6948.6	Tee made of seamless pipe DN50/40		
- SK20051021	87		2	ST	010088	333333	5.6948.6	Tee made of seamless pipe DN80/50		
- SK20051021	88		1	ST	010089	212356	5.6948.1	Schweißdraht DMO-IG Ø 2,4 mm		
- 200513615	2104103		100,00	KG	010107	452658	5.6948.1	Schweißdraht DMO-IG Ø 2,0 mm		
- 200513615	1104102		25,00	KG	010108	452658	5.6948.1	Schweißdraht DMO-IG Ø 2,0 mm		

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EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzenummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	200513615	3 104105	150,00	KG	010109	454789	5.6948.1	Schweißdraht DMO-IG Ø 3,2 mm	0004	Zeugnis n. EN10204-2.3 deutsch
-	SK20051021	89	2	ST	010194	379853	5.6948.6	Tee made of seamless pipe DN150/80		
-	SK20051021	90	4	ST	010195	379853	5.6948.6	Tee made of seamless pipe DN150/100		
-	SK20051021	91	1	ST	010196	314099	5.6948.6	Tee made of seamless pipe DN150/150		
-	SK20051021	92	1	ST	010197	342578	5.6948.6	Tee made of seamless pipe DN200/80		
-	SK20051021	93	1	ST	010198	315460	5.6948.6	Tee made of seamless pipe DN200/150		
-	SK20051021	94	2	ST	010199	347671	5.6948.6	Tee made of seamless pipe DN200/200		
-	SK20051021	95	4	ST	010200	950127	5.6948.6	Tee made of seamless pipe DN300/150		
-	SK20051021	96	2	ST	010201	523760	5.6948.6	Tee made of seamless pipe DN15/15		
-	SK20051021	97	2	ST	010201	523760	5.6948.6	Tee made of seamless pipe DN25/25		
-	SK20051021	98	2	ST	010202	314319	5.6948.6	Tee made of seamless pipe DN25/25		
-	SK20051021	99	6	ST	010203	31705	5.6948.6	Tee made of seamless pipe DN250/150		
-	SK20051031	1 221232	2	ST	010222	825267	5.6948.6	Tee made of seamless pipe DN15/15		
-	SK20051021	100	41	ST	010234	314319	5.6948.6	Red. DIN2616-1-K-406,4x8,8-323,9x7,1S-F		
-	SK20051021	101	12	ST	010235	210344	5.6948.6	Tee made of seamless pipe DN25/25		
-	SK20051021	102	3	ST	010236	313142	5.6948.6	Tee made of seamless pipe DN50/40		
-	SK20051021	103	3	ST	010237	313142	5.6948.6	Tee made of seamless pipe DN50/50		
-	SK20051021	104	4	ST	010238	330024	5.6948.6	Tee made of seamless pipe DN80/40		
-	SK20051021	105	3	ST	010239	333333	5.6948.6	Tee made of seamless pipe DN80/50		
-	SK20051021	106	1	ST	010240	333333	5.6948.6	Tee made of seamless pipe DN80/80		
-	SK20051021	107	1	ST	010241	333352,212356	5.6948.6	Tee made of seamless pipe DN100/40		
-	SK20051021	108	1	ST	010242	212356	5.6948.6	Tee made of seamless pipe DN100/80		
-	SK20051021	109	4	ST	010243	322604	5.6948.6	Tee made of seamless pipe DN100/100		
-	SK20051021	110	2	ST	010244	342578	5.6948.6	Tee made of seamless pipe DN200/80		
-	SK20051021	111	2	ST	010245	50361	5.6948.6	Tee made of seamless pipe DN250/150		
-	SK20051021	112	1	ST	010246	30809	5.6948.6	Tee made of seamless pipe DN250/250		
-	SK20051021	113	20	ST	010247	314319	5.6948.6	Tee made of seamless pipe DN350/250		
-	SK20051021	114	2	ST	010248	513503	5.6948.6	Tee made of seamless pipe DN100/100		
-	SK20051021	115	1	ST	010249	50540	5.6948.6	Tee made of seamless pipe DN400/300		
-	SK20051021	116	1	ST	010250	429	5.6948.6	Tee made of welded pipe DN500/200		
-	SK20051021	117	1	ST	010251	73901,264866	5.6948.6	Tee made of welded pipe DN500/400		
-	SK20051021	118	1	ST	010251	931244	5.6948.6	Tee made of welded pipe DN500/500		
-	SK20051021	119	3	ST	010251	73901,26486	5.6948.6	Tee made of welded pipe DN600/400		
-	SK20051021	120	1	ST	010251	73901	5.6948.6	Tee made of welded pipe DN600/500		
-	SK20051021	121	1	ST	010251	73901	5.6948.6	Tee made of welded pipe DN600/600		
-	SK20051021	122	1	ST	010251	73901	5.6948.6	Tee made of welded pipe DN700/500		
-	SK20051021	123	1	ST	010251	73901	5.6948.6	Tee made of welded pipe DN700/600		
-	SK20051021	124	6	ST	010251	73901,26034	5.6948.6	Tee made of welded pipe DN700/700		
-	SK20051021	125	2	ST	010252	753237	5.6948.6	Tee made of welded pipe DN15/15		
-	SK20051021	126	3	ST	010253	753245	5.6948.6	Tee made of welded pipe DN20/20		
-	SK20051021	127	14	ST	010254	4012208	5.6948.6	Tee made of welded pipe DN25/15		
-	SK20051021	128	17	ST	010255	4012208	5.6948.6	Tee made of welded pipe DN25/25		
-	SK20051021	129	2	ST	010256	032407	5.6948.6	Tee made of welded pipe DN40/25		
-	SK20051021	130	3	ST	010257	V821076,844106	5.6948.6	Tee made of welded pipe DN50/20		
-	SK20051021	131	5	ST	010258	484003	5.6948.6	Tee made of welded pipe DN50/25		
-	SK20051021	132	2	ST	010259	347690	5.6948.6	Tee made of welded pipe DN50/25		
-	SK20051021	133	3	ST	010260	811054	5.6948.6	Tee made of welded pipe DN50/50		
-	SK20051021	134	5	ST	010261	718032	5.6948.6	Tee made of welded pipe DN50/50		
-	SK20051021	135	1	ST	010262	V337087	5.6948.6	Tee made of welded pipe DN80/40		
-	SK20051021	136	3	ST	010263	4012215	5.6948.6	Tee made of welded pipe DN80/50		
-	SK20051021	137	2	ST	010264	000506	5.6948.6	Tee made of welded pipe DN80/80		
-	SK20051021	138	1	ST	010265	44733,13655	5.6948.6	Tee made of welded pipe DN100/100		
-	SK20051021	139	1	ST	010266	2CB5,12080,2ND56	5.6948.6	Tee made of welded pipe DN100/100		
-	SK20051021	140	1	ST	010267	55106	5.6948.6	Weidolet DN600/100		
-	SK20051021	141	6	ST	010268	55106	5.6948.6	Weidolet DN700/100		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelznummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051021 142		1	ST	010269	21380	5.6948.6	Weldolet DN700/200		
-	SK20051021 143		6	ST	010270	333352	5.6948.6	Reducer, concentric, seamless DN50/40		
-	SK20051021 144		4	ST	010271	323054	5.6948.6	Reducer, concentric, seamless DN80/50		
-	SK20051021 145		2	ST	010272	342578	5.6948.6	Reducer, concentric, seamless DN200/80		
-	SK20051021 146		3	ST	010273	347671	5.6948.6	Reducer, concentric, seamless DN200/100		
-	SK20051021 147		4	ST	010274	347671	5.6948.6	Reducer, concentric, seamless DN200/150		
-	SK20051021 148		3	ST	010275	209899	5.6948.6	Reducer, concentric, seamless DN25/15		
-	SK20051021 149		8	ST	010276	521229	5.6948.6	Reducer, concentric, seamless DN50/25		
-	SK20051021 150		6	ST	010277	333352	5.6948.6	Reducer, concentric, seamless DN50/40		
-	SK20051021 151		1	ST	010278	323054	5.6948.6	Reducer, concentric, seamless DN80/50		
-	SK20051021 152		2	ST	010279	313794	5.6948.6	Reducer, concentric, seamless DN100/40		
-	SK20051021 153		1	ST	010280	29696	5.6948.6	Reducer, concentric, seamless DN150/100		
-	SK20051021 154		1	ST	010281	379054	5.6948.6	Reducer, concentric, seamless DN150/100		
-	SK20051021 155		2	ST	010282	347307	5.6948.6	Reducer, concentric, seamless DN250/200		
-	SK20051021 156		1	ST	010283	342921	5.6948.6	Reducer, concentric, seamless DN250/200		
-	SK20051021 157		1	ST	010284	278814	5.6948.6	Reducer, concentric, seamless DN350/250		
-	SK20051021 158		11	ST	010285	209899	5.6948.6	Reducer, concentric, seamless DN25/15		
-	SK20051021 160		1	ST	010286	825267	5.6948.6	Reducer, concentric, welded DN400/200		
-	SK20051021 159		2	ST	010287	442267	5.6948.6	Reducer, concentric, welded DN1000/500		
-	SK20051021 161		1	ST	010287	307074	5.6948.6	Reducer, concentric, welded DN600/400		
-	SK20051021 162		1	ST	010287	307074	5.6948.6	Reducer, concentric, welded DN600/500		
-	SK20051021 163		2	ST	010287	18344	5.6948.6	Reducer, concentric, welded DN700/500		
-	SK20051021 164		5	ST	010287	18344	5.6948.6	Reducer, concentric, welded DN700/600		
-	SK20051021 165		1	ST	010287	307074	5.6948.6	Reducer, concentric, welded DN600/450		
-	SK20051021 177		1	ST	010287	307074	5.6948.6	Reducer, concentric, welded DN600/500		
-	SK20051021 166		6	ST	010288	V-817037	5.6948.6	Reducer, concentric, welded DN32/25		
-	SK20051021 167		2	ST	010289	4011624	5.6948.6	Reducer, concentric, welded DN50/25		
-	SK20051021 168		6	ST	010290	702055, ID5	5.6948.6	Reducer, concentric, welded DN50/40		
-	SK20051021 169		2	ST	010291	V-533007	5.6948.6	Reducer, concentric, welded DN80/50		
-	SK20051021 170		2	ST	010292	181	5.6948.6	Reducer, concentric, welded DN80/65		
-	SK20051021 171		1	ST	010293	681365	5.6948.6	Reducer, concentric, welded DN100/50		
-	SK20051021 172		1	ST	010294	4220881	5.6948.6	Reducer, concentric, welded DN100/80		
-	SK20051021 173		1	ST	010295	V-840042	5.6948.6	Reducer, concentric, welded DN150/100		
-	SK20051021 174		4	ST	010296	2ND6, 11822	5.6948.6	Reducer, concentric, welded DN300/150		
-	SK20051021 175		2	ST	010297	512508, 378601	5.6948.6	Reducer, concentric, welded DN150/65		
-	SK20051021 176		1	ST	010298	378601	5.6948.6	Reducer, concentric, welded DN150/100		
-	SK20051021 178		5	ST	010299	42345	5.6948.6	Reducer, concentric, welded DN150/100		
-	SK20051021 179		2	ST	010300	42345	5.6948.6	Caps DN50 Abm. 60,3 x 2,9 mm		
-	SK20051021 180		3	ST	010301	CUL	5.6948.6	Caps DN50 Abm. 60,3 x 2 mm		
-	SK20051021 181		1	ST	010302	ATW	5.6948.6	Caps DN80 Abm. 88,9 x 2,3 mm		
-	SK20051021 182		2	ST	010303	4301260B	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021 196		21	ST	010303	4301260B	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021 183		18	ST	010304	165586	5.6948.6	Welding neck flanges; PN 40 DN 40		
-	SK20051021 198		11	ST	010304	165586	5.6948.6	Welding neck flanges; PN 40 DN 40		
-	SK20051021 184		6	ST	010305	195583	5.6948.6	Welding neck flanges; PN 16 DN 50		
-	SK20051021 199		18	ST	010305	195583	5.6948.6	Welding neck flanges; PN 16 DN 50		
-	SK20051021 185		2	ST	010306	32812	5.6948.6	Welding neck flanges; PN 16 DN 65		
-	SK20051021 186		28	ST	010307	5201220	5.6948.6	Welding neck flanges; PN 16 DN 80		
-	SK20051021 187		8	ST	010308	19479	5.6948.6	Welding neck flanges; PN 16 DN 100		
-	SK20051021 1201		43	ST	010308	19479	5.6948.6	Welding neck flanges; PN 16 DN 100		
-	SK20051021 188		30	ST	010309	9515	5.6948.6	Welding neck flanges; PN 16 DN 150		
-	SK20051021 1203		14	ST	010309	9515	5.6948.6	Welding neck flanges; PN 16 DN 150		
-	SK20051021 189		20	ST	010310	19848	5.6948.6	Welding neck flanges; PN 10 DN 200		
-	SK20051021 1204		5	ST	010310	19848	5.6948.6	Welding neck flanges; PN 10 DN 200		
-	SK20051021 190		10	ST	010311	32361	5.6948.6	Welding neck flanges; PN 10 DN 300		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051021	191	6	ST	010313	04201020	5.6948.6	Welding neck flanges; PN 10 DN 500		
-	SK20051021	210	14	ST	010313	04201020	5.6948.6	Welding neck flanges; PN 10 DN 500		
-	SK20051021	192	6	ST	010314	7114	5.6948.6	Welding neck flanges; PN 100 DN 25		
-	SK20051021	193	3	ST	010315	8654	5.6948.6	Welding neck flanges; PN 40 DN 100		
-	SK20051021	194	3	ST	010316	8147	5.6948.6	Welding neck flanges; PN 63 DN 100		
-	SK20051021	195	8	ST	010317	1118	5.6948.6	Welding neck flanges; PN 63 DN 250		
-	SK20051021	197	149	ST	010318	72318	5.6948.6	Welding neck flanges; PN 40 DN 25		
-	SK20051021	214	92	ST	010318	72318	5.6948.6	Welding neck flanges; PN 40 DN 25		
-	SK20051021	200	8	ST	010319	19497	5.6948.6	Welding neck flanges; PN 16 DN 80		
-	SK20051021	202	1	ST	010320	502012	5.6948.6	Welding neck flanges; PN 16 DN 125		
-	SK20051021	205	8	ST	010321	1221	5.6948.6	Welding neck flanges; PN 10 DN 250		
-	SK20051021	206	12	ST	010322	5201046	5.6948.6	Welding neck flanges; PN 16 DN 250		
-	SK20051021	207	2	ST	010323	32361	5.6948.6	Welding neck flanges; PN 10 DN 300		
-	SK20051021	208	2	ST	010324	99781	5.6948.6	Welding neck flanges; PN 16 DN 350		
-	SK20051021	209	15	ST	010325	3527	5.6948.6	Welding neck flanges; PN 10 DN 400		
-	SK20051021	211	18	ST	010326	510419	5.6948.6	Welding neck flanges; PN 10 DN 600		
-	SK20051021	212	8	ST	010327	3197	5.6948.6	Welding neck flanges; PN 10 DN 700		
-	SK20051021	213	11	ST	010328	D27308	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021	215	11	ST	010329	7089	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021	216	11	ST	010330	516560	5.6948.6	Welding neck flanges; PN 40 DN 15		
-	SK20051021	217	3	ST	010331	05/329	5.6948.6	Welding neck flanges; PN 40 DN 20		
-	SK20051021	218	65	ST	010332	05/329	5.6948.6	Welding neck flanges; PN 40 DN 25		
-	SK20051021	219	6	ST	010333	05/329	5.6948.6	Welding neck flanges; PN 40 DN 40		
-	SK20051021	220	17	ST	010334	505037	5.6948.6	Welding neck flanges; PN 16 DN 50		
-	SK20051021	221	23	ST	010335	516550	5.6948.6	Welding neck flanges; PN 40 DN 50		
-	SK20051021	222	2	ST	010336	456508	5.6948.6	Welding neck flanges; PN 16 DN 65		
-	SK20051021	223	10	ST	010337	456514	5.6948.6	Welding neck flanges; PN 16 DN 80		
-	SK20051021	224	3	ST	010338	42984	5.6948.6	Welding neck flanges; PN 40 DN 100		
-	SK20051021	225	9	ST	010339	42681	5.6948.6	Welding neck flanges; PN 40 DN 150		
-	SK20051021	226	6	ST	010340	65879/3	5.6948.6	Welding neck flanges; PN 40 DN 250		
-	SK20051021	227	1	ST	010341	05A0045	5.6948.6	Welding neck flanges; PN 40 DN 300		
-	SK20051021	228	2	ST	010342	42065	5.6948.6	Blind flanges; PN 40 DN 15		
-	SK20051021	229	6	ST	010343	6729	5.6948.6	Blind flanges; PN 16 DN 80		
-	SK20051021	230	2	ST	010344	6729	5.6948.6	Blind flanges; PN 40 DN 15		
-	SK20051021	231	27	ST	010345	8516	5.6948.6	Blind flanges; PN 40 DN 25		
-	SK20051021	232	6	ST	010345	8516	5.6948.6	Blind flanges; PN 40 DN 25		
-	SK20051021	233	2	ST	010346	5498	5.6948.6	Blind flanges; PN 40 DN 100		
-	SK20051021	234	2	ST	010347	012030	5.6948.6	Blind flanges; PN 40 DN 15		
-	SK20051021	235	2	ST	010348	045195	5.6948.6	Welding neck flanges; PN 6 DN 1000		
-	SK20051021	236	100	ST	010349		5.6948.6	Hexagon head screws M12 x 50 mm		
-	SK20051021	237	500	ST	010349		5.6948.6	Hexagon head screws M12 x 55 mm		
-	SK20051021	238	100	ST	010349		5.6948.6	Hexagon head screws M16 x 55 mm		
-	SK20051021	239	50	ST	010349		5.6948.6	Hexagon head screws M16 x 60 mm		
-	SK20051021	240	350	ST	010349		5.6948.6	Hexagon head screws M16 x 65 mm		
-	SK20051021	241	25	ST	010349		5.6948.6	Hexagon head screws M16 x 70 mm		
-	SK20051021	242	25	ST	010349		5.6948.6	Hexagon head screws M16 x 110 mm		
-	SK20051021	243	100	ST	010349		5.6948.6	Hexagon head screws M16 x 120 mm		
-	SK20051021	244	25	ST	010349		5.6948.6	Hexagon head screws M16 x 130 mm		
-	SK20051021	245	125	ST	010349		5.6948.6	Hexagon head screws M20 x 70 mm		
-	SK20051021	246	250	ST	010349		5.6948.6	Hexagon head screws M20 x 80 mm		
-	SK20051021	247	50	ST	010349		5.6948.6	Hexagon head screws M20 x 130 mm		
-	SK20051021	248	25	ST	010349		5.6948.6	Hexagon head screws M20 x 140 mm		
-	SK20051021	249	100	ST	010349		5.6948.6	Hexagon head screws M20 x 150 mm		
-	SK20051021	250	50	ST	010349		5.6948.6	Hexagon head screws M20 x 160 mm		
-	SK20051021	251	24	ST	010349		5.6948.6	Hexagon head screws M20 x 220 mm		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051021 1252		260	ST	010349		5.6948.6	Hexagon head screws M24 x 90 mm		
-	SK20051021 1253		40	ST	010349		5.6948.6	Hexagon head screws M24 x 100 mm		
-	SK20051021 1254		50	ST	010349		5.6948.6	Hexagon head screws M24 x 170 mm		
-	SK20051021 1255		64	ST	010349		5.6948.6	Hexagon head screws M24 x 190 mm		
-	SK20051021 1256		160	ST	010349		5.6948.6	Hexagon head screws M24 x 220 mm		
-	SK20051021 1257		260	ST	010349		5.6948.6	Hexagon head screws M27 x 90 mm		
-	SK20051021 1258		192	ST	010349		5.6948.6	Hexagon head screws M27 x 100 mm		
-	SK20051021 1259		20	ST	010349		5.6948.6	Hexagon head screws M27 x 250 mm		
-	SK20051021 1260		30	ST	010349		5.6948.6	Hexagon head screws M30 x 120 mm		
-	SK20051021 1261		20	ST	010349		5.6948.6	Hexagon head screws M30 x 180 mm		
-	SK20051021 1262		20	ST	010349		5.6948.6	Hexagon head screws M30 x 190 mm		
-	SK20051021 1263		100	ST	010349		5.6948.6	Hexagon head screws M12 x 50 mm		
-	SK20051021 1264		36	ST	010349		5.6948.6	Hexagon head screws M12 x 55 mm		
-	SK20051021 1265		124	ST	010349		5.6948.6	Hexagon head screws M12 x 55 mm		
-	SK20051021 1266		100	ST	010349		5.6948.6	Hexagon head screws M12 x 60 mm		
-	SK20051021 1267		50	ST	010349		5.6948.6	Hexagon head screws M16 x 55 mm		
-	SK20051021 1268		60	ST	010349		5.6948.6	Hexagon head screws M16 x 60 mm		
-	SK20051021 1269		20	ST	010349		5.6948.6	Hexagon head screws M16 x 65 mm		
-	SK20051021 1270		100	ST	010349		5.6948.6	Hexagon head screws M16 x 110 mm		
-	SK20051021 1271		15	ST	010349		5.6948.6	Hexagon head screws M20 x 80 mm		
-	SK20051021 1272		25	ST	010349		5.6948.6	Hexagon head screws M20 x 140 mm		
-	SK20051021 1273		10	ST	010349		5.6948.6	Hexagon head screws M24 x 90 mm		
-	SK20051021 1274		80	ST	010349		5.6948.6	Screw bolts M12 x 65 mm		
-	SK20051021 1275		30	ST	010349		5.6948.6	Screw bolts M12 x 70 mm		
-	SK20051021 1276		216	ST	010349		5.6948.6	Screw bolts M20 x 95 mm		
-	SK20051021 1277		50	ST	010349		5.6948.6	Screw bolts M24 x 120 mm		
-	SK20051021 1278		20	ST	010349		5.6948.6	Screw bolts M33 x 170 mm		
-	SK20051021 1279		24	ST	010349		5.6948.6	Hexagon nuts M12		
-	SK20051021 1280		60	ST	010349		5.6948.6	Hexagon nuts M16		
-	SK20051021 1281		20	ST	010349		5.6948.6	Hexagon nuts M20		
-	SK20051021 1282		10	ST	010349		5.6948.6	Hexagon nuts M24		
-	SK20051021 1283		400	ST	010349		5.6948.6	Hexagon head nuts M12		
-	SK20051021 1284		300	ST	010349		5.6948.6	Hexagon head nuts M20		
-	SK20051021 1285		100	ST	010349		5.6948.6	Hexagon head nuts M24		
-	SK20051021 1286		500	ST	010349		5.6948.6	Hexagon head nuts M27		
-	SK20051021 1287		100	ST	010349		5.6948.6	Hexagon head nuts M30		
-	SK20051021 1288		500	ST	010349		5.6948.6	Hexagon head nuts M12		
-	SK20051021 1289		250	ST	010349		5.6948.6	Hexagon head nuts M16		
-	SK20051021 1290		250	ST	010349		5.6948.6	Hexagon head nuts M20		
-	SK20051021 1291		476	ST	010349		5.6948.6	Hexagon head nuts M24		
-	SK20051021 1292		472	ST	010349		5.6948.6	Hexagon head nuts M27		
-	SK20051021 1293		48	ST	010349		5.6948.6	Hexagon head nuts M30		
-	SK20051021 1294		220	ST	010349		5.6948.6	Hexagon head nuts M12		
-	SK20051021 1295		168	ST	010349		5.6948.6	Hexagon head nuts M16		
-	SK20051021 1296		24	ST	010349		5.6948.6	Hexagon head nuts M20		
-	SK20051021 1297		64	ST	010349		5.6948.6	Hexagon head nuts M24		
-	SK20051021 1298		4	ST	010350		5.6948.6	Comb defined seals DN25		
-	SK20051021 1299		3	ST	010350		5.6948.6	Comb defined seals DN100		
-	SK20051021 1300		5	ST	010350		5.6948.6	Comb defined seals DN250		
-	SK20051021 1301		30	ST	010350		5.6948.6	Flat packings DN15		
-	SK20051021 1302		2	ST	010350		5.6948.6	Flat packings DN20		
-	SK20051021 1303		205	ST	010350		5.6948.6	Flat packings DN25		
-	SK20051021 1304		11	ST	010350		5.6948.6	Flat packings DN40		
-	SK20051021 1305		31	ST	010350		5.6948.6	Flat packings DN50		
-	SK20051021 1306		15	ST	010350		5.6948.6	Flat packings DN80		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051021	307	31	ST	010350		5.6948.6	Flat packings DN100		
-	SK20051021	308	8	ST	010350		5.6948.6	Flat packings DN100		
-	SK20051021	309	1	ST	010350		5.6948.6	Flat packings DN125		
-	SK20051021	310	14	ST	010350		5.6948.6	Flat packings DN150		
-	SK20051021	311	8	ST	010350		5.6948.6	Flat packings DN150		
-	SK20051021	312	3	ST	010350		5.6948.6	Flat packings DN200		
-	SK20051021	313	8	ST	010350		5.6948.6	Flat packings DN250		
-	SK20051021	314	12	ST	010350		5.6948.6	Flat packings DN250		
-	SK20051021	315	2	ST	010350		5.6948.6	Flat packings DN250		
-	SK20051021	316	2	ST	010350		5.6948.6	Flat packings DN300		
-	SK20051021	317	2	ST	010350		5.6948.6	Flat packings DN350		
-	SK20051021	318	15	ST	010350		5.6948.6	Flat packings DN400		
-	SK20051021	319	14	ST	010350		5.6948.6	Flat packings DN500		
-	SK20051021	320	15	ST	010350		5.6948.6	Flat packings DN600		
-	SK20051021	321	8	ST	010350		5.6948.6	Flat packings DN700		
-	SK20051021	322	2	ST	010350		5.6948.6	Fibrous packings DN15		
-	SK20051021	323	12	ST	010350		5.6948.6	Fibrous packings DN40		
-	SK20051021	324	4	ST	010350		5.6948.6	Fibrous packings DN50		
-	SK20051021	325	2	ST	010350		5.6948.6	Fibrous packings DN65		
-	SK20051021	326	28	ST	010350		5.6948.6	Fibrous packings DN80		
-	SK20051021	327	8	ST	010350		5.6948.6	Fibrous packings DN100		
-	SK20051021	328	29	ST	010350		5.6948.6	Fibrous packings DN150		
-	SK20051021	329	20	ST	010350		5.6948.6	Fibrous packings DN200		
-	SK20051021	330	9	ST	010350		5.6948.6	Fibrous packings DN300		
-	SK20051021	331	6	ST	010350		5.6948.6	Fibrous packings DN500		
-	SK20051032	35	3	ST	010387	A5122	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
-	SK20051032	36	3	ST	010388	A5269	5.6948.6	Elbow 90° R=1,5 DA, seamless DN150		
-	SK20051032	37	5	ST	010389	A5039	5.6948.6	Elbow 90° R=1,5 DA, seamless DN100		
-	SK20051032	38	3	ST	010390	A4563, A4900	5.6948.6	Elbow 90° R=1,5 DA, welded DN200		
-	SK20051032	39	2	ST	010391	7089	5.6948.6	Welding neck flanges; PN 16 DN150		
-	SK20051032	40	3	ST	010392	30561	5.6948.6	Welding neck flanges; PN 40 DN100		
-	200513799	1	80,00	KG	010524	N 503048	5.6948.1	Blech 5 mm / 1.4301 / DIN17440 / 3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	200513799	2	186427		010525	250535	5.6948.1	Blech 8 mm / 1.4301 / DIN17440 / 3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	200513799	3	128,00	KG	010526	479947	5.6948.1	Bogen 90°/BA3/40x2/1.4571/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	200514270	1	1221640		010724	7480725	5.6948.1	Bogen 90°/BA3/40x2/1.4571/3.1		
-	200514271	1	1181942		010725		5.6948.1	Schweißnippel R 1/2"		
-	200514271	2	181942		010725		5.6948.1	Schweißnippel R 1"		
-	200514335	1	122834		010726	67816	5.6948.1	V-Flansch C DN 32/42, 4-2633-1.4571/o.Att	0000	ohne Attest
-	200514335	2	211187		010727	4221653	5.6948.1	Red. DIN2616-2-K-60,3/42,4x2,0 mm-o.Att.	0000	ohne Attest
-	200514335	3	152221		010728	451702	5.6948.1	Bogen DIN2605-1-90°-BA3-42,4x2,0-o. Att.	0000	ohne Attest
-	SK20051044	5	215764		010740	567230	5.6948.6	Bogen DIN2605-1-90°-BA3-114,3x2,6/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051044	6	123168		010741	67396	5.6948.6	V-Fla DN150/168,30IN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051044	7	123072		010742	84658	5.6948.6	V-Fla DN100/114,30IN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	1	1188553		010747	216876	5.6948.6	Rohr 60,3x2,9/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	20	174576		010748	794111	5.6948.6	Rohr 26,9x2/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	21	196449		010749	525961	5.6948.6	Bogen DIN2605-1-90-3-60,3x2,9S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	3	171986		010750	220824	5.6948.6	Rohr 88,9x5,6 mm/DIN2448/ST35.8/1/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	21	174492		010751	451784	5.6948.6	Rohr 21,3x2/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	4	187385		010752	221121	5.6948.6	Rohr 88,9x3,2/DIN2448/ST35.8/1/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	22	174940		010753	400004	5.6948.6	Rohr 60,3x2,9/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	23	221641		010754	466580	5.6948.6	Rohr 42,4x2,9/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	24	174745		010755	479166	5.6948.6	Rohr 42,4x2/DIN2463/1.4571/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	5	187386		010756	732283	5.6948.6	Bogen DIN2605-1-90-3-88,9x3,2S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	6	157578		010757	522678	5.6948.6	T-Skk DIN2615-1-60,3x2,9-33,7x2,6S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	7	184589		010758	313142	5.6948.6	T-Skk DIN2615-1-60,3x2,9-60,3x2,9S-F	0003	Zeugnis n. EN10204-3.1 deutsch

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelznummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051038	25188179	9	ST	010759	610630	5.6948.6	Bogen DIN 2609-1-90°-BA3-60, 3x2, 9W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	8188553	180,00	M	010760	216876	5.6948.6	Rohr 60, 3x2, 9/DIN2448/St35.81/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	9196449	35	ST	010761	525961	5.6948.6	Bogen DIN2605-1-90-3-60, 3x2, 9S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	26122928	1	ST	010762	3D74	5.6948.6	V-Fla DN50/60, 3DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	27124825	1	ST	010763	04857	5.6948.6	V-Fla DN32/42, 4DIN2635-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	10196465	8	ST	010764	521229	5.6948.6	Red. DIN2616-2-K-60, 3x2, 9/33, 7x2, 6S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	28124754	1	ST	010765	65051	5.6948.6	V-Flansh DN 25/33, 7-2635-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	11188552	120,00	M	010766	217522	5.6948.6	Rohr 33, 7x2, 6/DIN2448/St35.81/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	29124897	1	ST	010767	68432	5.6948.6	V-Flansh DN40/48, 3DIN2635-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	12120458	40	ST	010768	246032	5.6948.6	Bogen DIN2605-1-90-3-33, 7x2, 6S-F	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	13121848	2	ST	010769	3798	5.6948.6	V-Flansh DN500/508-DIN2632-C22.8/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	30124970	1	ST	010770	66065	5.6948.6	V-Fla DN50/60, 3DIN2635-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	14123000	1	ST	010771	32815	5.6948.6	V-Flansh DN 80/88, 9-2633-C22.8/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051038	151215761	4	ST	010772	V-007009	5.6948.6	Bogen DIN2605-1-90-3-88, 9x2, 3W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	81221561	1	ST	010774	V343138	5.6948.6	Red. DIN2616-K-355, 6x5, 6-273, 0x2, 9/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	21221558	3,00	M	010775	485077	5.6948.6	Rohr 273x3/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	31219536	2,00	M	010776	398286	5.6948.6	Rohr 88, 9x2, 3/DIN2463/1.4571/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	41174899	1,00	M	010777	483212	5.6948.6	Rohr 60, 3x2/DIN2463/1.4571/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	51181942	1	ST	010778	165494	5.6948.6	Anschweißende 1"x3, 2/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	61221559	1	ST	010779	478575	5.6948.6	Bogen DIN2605-1-90-3-355, 6x6, 3W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	71221560	1	ST	010780	485077	5.6948.6	Bogen DIN2605-1-90-3-273x3W-q	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	9123265	2	ST	010781	66415	5.6948.6	V-Fla DN250/273DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	10123024	2	ST	010782	168900	5.6948.6	V-Fla DN80/88, 9DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	11122928	1	ST	010783	S-2872	5.6948.6	V-Fla DN50/60, 3DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051036	12107735	1	ST	010784	67518	5.6948.6	B-Fl DN250/DIN2527-16/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
-	SK20051039	1181703	4	ST	010813		5.6948.6	Gleitschuh TA120G 61 W1 OZN DN 50		
-	SK20051039	2181703	7	ST	010813		5.6948.6	Gleitschuh TA120G 89 W3 DN 80		
-	SK20051018	1	1	ST	010814		5.6948.6	T-support TA 120A 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	2	8	ST	010814		5.6948.6	T-support TA 120B 89 W1 OZN DN 80	0000	ohne Attest
-	SK20051018	3	6	ST	010814		5.6948.6	T-support TA 120B 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	4	1	ST	010814		5.6948.6	T-support TA 120B 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	5	1	ST	010814		5.6948.6	T-support TA 120B 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	6	1	ST	010814		5.6948.6	T-support TA 120B 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	7	1	ST	010814		5.6948.6	T-support TA 120B 169 W1 OZN DN 150	0000	ohne Attest
-	SK20051018	8	3	ST	010814		5.6948.6	T-support TA 120B 220 W1 OZN DN 200	0000	ohne Attest
-	SK20051018	9	8	ST	010814		5.6948.6	T-support TA 120D 34 W3 DN 25	0000	ohne Attest
-	SK20051018	10	93	ST	010814		5.6948.6	T-support TA 120G 22 W1 OZN DN 15	0000	ohne Attest
-	SK20051018	11	236	ST	010814		5.6948.6	T-support TA 120G 34 W1 OZN DN 25	0000	ohne Attest
-	SK20051018	12	9	ST	010814		5.6948.6	T-support TA 120G 49 W1 OZN DN 40	0000	ohne Attest
-	SK20051018	13	69	ST	010814		5.6948.6	T-support TA 120G 61 W1 OZN DN 50	0000	ohne Attest
-	SK20051018	14	18	ST	010814		5.6948.6	T-support TA 120G 89 W1 OZN DN 80	0000	ohne Attest
-	SK20051018	15	31	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	16	2	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	17	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	18	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	19	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	20	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	21	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	22	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	23	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	24	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	25	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	26	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	27	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	28	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	MaterialKurztext	ZTyp	Kurztext
-	SK20051018	29	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	30	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	31	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	32	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	33	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	34	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	35	1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	36	6	ST	010814		5.6948.6	T-support TA 120G 169 W1 OZN DN 150	0000	ohne Attest
-	SK20051018	37	2	ST	010814		5.6948.6	T-support TA 120G 220 W1 OZN DN 200	0000	ohne Attest
-	SK20051018	38	4	ST	010814		5.6948.6	T-support TA 120H 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	39	1	ST	010814		5.6948.6	T-support TA 120H 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	40	4	ST	010814		5.6948.6	T-support TA 120H 115 W1 OZN DN 100	0000	ohne Attest
-	SK20051018	41	2	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 34 W3 DN 25	0000	ohne Attest
-	SK20051018	42	5	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 61 W3 DN 50	0000	ohne Attest
-	SK20051018	43	1	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 61 W3 DN 50	0000	ohne Attest
-	SK20051018	44	1	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 61 W3 DN 50	0000	ohne Attest
-	SK20051018	45	2	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 89 W3 DN 80	0000	ohne Attest
-	SK20051018	46	1	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 89 W3 DN 80	0000	ohne Attest
-	SK20051018	47	1	ST	010814		5.6948.6	T-support, 1.4541, TA 1208 115 W3 DN 100	0000	ohne Attest
-	SK20051018	48	71	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 22 W3 DN 15	0000	ohne Attest
-	SK20051018	49	1	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 27 W3 DN 20	0000	ohne Attest
-	SK20051018	50	26	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 34 W3 DN 25	0000	ohne Attest
-	SK20051018	51	8	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 34 W3 DN 25	0000	ohne Attest
-	SK20051018	52	6	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 49 W3 DN 40	0000	ohne Attest
-	SK20051018	53	16	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 61 W3 DN 50	0000	ohne Attest
-	SK20051018	54	17	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 61 W3 DN 50	0000	ohne Attest
-	SK20051018	55	1	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 89 W3 DN 80	0000	ohne Attest
-	SK20051018	56	3	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 89 W3 DN 80	0000	ohne Attest
-	SK20051018	57	9	ST	010814		5.6948.6	T-support, 1.4541, TA 120G 115 W3 DN 100	0000	ohne Attest
-	SK20051018	58	1	ST	010814		5.6948.6	Web-support, SV 1508 273 W1 OZN DN 250	0000	ohne Attest
-	SK20051018	59	1	ST	010814		5.6948.6	Web-support, SV 1508 324 W1 OZN DN 300	0000	ohne Attest
-	SK20051018	60	1	ST	010814		5.6948.6	Web-support, SV 1508 356 W1 OZN DN 350	0000	ohne Attest
-	SK20051018	61	1	ST	010814		5.6948.6	Web-support, SV 1508 407 W1 OZN DN 400	0000	ohne Attest
-	SK20051018	62	3	ST	010814		5.6948.6	Web-support, SV 1508 508 W1 OZN DN 500	0000	ohne Attest
-	SK20051018	63	1	ST	010814		5.6948.6	Web-support, SV 1508 508 W1 OZN DN 500	0000	ohne Attest
-	SK20051018	64	2	ST	010814		5.6948.6	Web-support, SV 1508 712 W1 OZN DN 700	0000	ohne Attest
-	SK20051018	65	5	ST	010814		5.6948.6	Web-support, SV 150G 273 W1 OZN DN 250	0000	ohne Attest
-	SK20051018	66	4	ST	010814		5.6948.6	Web-support, SV 150G 324 W1 OZN DN 300	0000	ohne Attest
-	SK20051018	67	3	ST	010814		5.6948.6	Web-support, SV 150G 356 W1 OZN DN 350	0000	ohne Attest
-	SK20051018	68	2	ST	010814		5.6948.6	Web-support, SV 150G 407 W1 OZN DN 400	0000	ohne Attest
-	SK20051018	69	6	ST	010814		5.6948.6	Web-support, SV 150G 508 W1 OZN LF DN 50	0000	ohne Attest
-	SK20051018	70	13	ST	010814		5.6948.6	Web-support, SV 150G 610 W1 OZN LF DN 60	0000	ohne Attest
-	SK20051018	71	1	ST	010814		5.6948.6	Web-support, SV 150G 610 W1 OZN LF DN 60	0000	ohne Attest
-	SK20051018	72	1	ST	010814		5.6948.6	Web-support, SV 150G 610 W1 OZN LF DN 60	0000	ohne Attest
-	SK20051018	73	9	ST	010814		5.6948.6	Web-support, SV 150G 712 W1 OZN LF DN 70	0000	ohne Attest
-	SK20051018	74	1	ST	010814		5.6948.6	Web-support, SV 150H 273 W1 OZN DN 250	0000	ohne Attest
-	SK20051018	75	2	ST	010814		5.6948.6	Web-support, SV 150H 356 W1 OZN DN 350	0000	ohne Attest
-	SK20051018	76	1	ST	010814		5.6948.6	Web-support, SV 150H 508 W1 OZN LF DN 50	0000	ohne Attest
-	SK20051018	77	1	ST	010814		5.6948.6	Web-support, 1.4541, SV 1508 273 W3 DN 2	0000	ohne Attest
-	SK20051018	78	7	ST	010814		5.6948.6	Web-support, 1.4541, SV 1508 273 W3 DN 2	0000	ohne Attest
-	SK20051018	79	2	ST	010814		5.6948.6	Pipe clamp, RB10A 324 W1 OZN DN 300	0000	ohne Attest
-	SK20051018	80	14	ST	010814		5.6948.6	Pipe clamp, RB10A 22 W3 DN 15	0000	ohne Attest
-	SK20051018	81	6	ST	010814		5.6948.6	Sliding plate Hesterberg SP11 DN 500	0000	ohne Attest
-	SK20051018	82	13	ST	010814		5.6948.6	Sliding plate Hesterberg SP12 DN 700	0000	ohne Attest
-	SK20051018	83	2	ST	010814		5.6948.6	T-support TA 1208 89 W1 OZN LF DN 80	0000	ohne Attest

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
- SK20051018	84		1	ST	010814		5.6948.6	T-support TA 120G 115 W1 OZN LF DN 100	0000	ohne Attest
- SK20051018	85		3	ST	010814		5.6948.6	Web-support, SV 150G 273 W1 OZN LF DN 25	0000	ohne Attest
- SK20051018	86		1	ST	010814		5.6948.6	Web-support, SV 150G 324 W1 OZN LF DN 30	0000	ohne Attest
- SK20051018	87		3	ST	010814		5.6948.6	Web-support, SV 150G 407 W1 OZN LF DN 40	0000	ohne Attest
- SK20051040	3	120237	2	ST	010847	184736	5.6948.6	V-Flansch DN65/76, 1-DIN2631-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051036	1	176186	21,00	M	010850	412673	5.6948.6	Rohr 355,6x6,3/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051044	4	1221720	1	ST	010852	V504131	5.6948.6	T-Stk DIN2615-1-273x8, 8-114, 3x6, 3W-q	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051040	4	1221733	1	ST	010856	546024	5.6948.6	Red. DIN2616-2-K-508x6, 3-406, 4x6, 3W-A	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	1	123024	1	ST	010857	68900	5.6948.6	V-Fla DN80/88, 90/DIN2633-1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	2	174814	24,00	M	010858	357402	5.6948.6	Rohr 48, 3x2/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051033	20		1	ST	010859	50494	5.6948.6	Reducer conc. Welded DN500/400		
- SK20051033	25		2	ST	010859	50494	5.6948.6	Reducer conc. welded DN500/400		
- SK20051048	4	183110	10	ST	010862	702055	5.6948.6	Bogen DIN2605-1-90-3-48, 3x2W-q	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	11	1221775	2	ST	010863	4210456	5.6948.6	T-Stk DIN2615-1-48, 3x2-33, 7x2W-q	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	10	1221780	3	ST	010864	V-817037	5.6948.6	Red. DIN2616-2-K-48, 3x2-42, 4x2W-q	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	9	1221778	5	ST	010865	453650	5.6948.6	Bogen DIN2605-1-90-3-26, 9x1, 6W-q	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	8	1221777	5	ST	010866	V-817037	5.6948.6	Red. DIN2616-2-K-33, 7x2-26, 9x1, 6W-L	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	7	1221775	1	ST	010867	4210456	5.6948.6	T-Stk DIN2615-1-48, 3x2-33, 7x2W-q	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	6	1221774	6,00	M	010868	466580	5.6948.6	Rohr 42, 4x3, 0/DIN2463/1.4541/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	5	122880	2	ST	010869	68432	5.6948.6	V-Flansch DN250/273-DIN2634-C22.8/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	15	124009	2	ST	010870	5141086	5.6948.6	V-Flansch DN250/273-DIN2634-C22.8/3.1	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051048	3	1221783	1	ST	010871	4002784	5.6948.6	T-Stk DIN2615-1-48, 3x2-26, 9x1, 6W-L	0003	Zeugnis n. EN10204-3.1 deutsch
- SK20051033	96		2	ST	010983	3798	5.6948.6	WN Flange PN6 DN400		
- SK20051033	1		4	ST	010984	3391	5.6948.6	WN Flange PN16 DN400		
- SK20051033	97		2	ST	010985	34058	5.6948.6	WN Flange PN10 DN200		
- SK20051033	2		1	ST	010986	22632	5.6948.6	WN Flange PN25 DN300		
- SK20051033	5		1	ST	010987	H-152	5.6948.6	WN Flange PN40 DN100		
- SK20051033	6		1	ST	010988	33340	5.6948.6	WN Flange PN16 DN300		
- SK20051033	7		1	ST	010989	5101135	5.6948.6	WN Flange PN25 DN200		
- SK20051033	8		2	ST	010990	H-152	5.6948.6	WN Flange PN40 DN100		
- SK20051033	9		1	ST	010991	37490	5.6948.6	Reducer conc. smls DN150/100		
- SK20051033	10		1	ST	010992	H-152	5.6948.6	WN Flange PN40 DN100		
- SK20051033	11		1	ST	010993	7089	5.6948.6	WN Flange PN63 DN80		
- SK20051033	14		3	ST	010994	24577	5.6948.6	Elbow 90° -BA3- smls DN80		
- SK20051033	15		1	ST	010995	379629	5.6948.6	Reducer conc. smls DN200/100		
- SK20051033	16		1	ST	010996	2098	5.6948.6	WN Flange PN 63 DN200		
- SK20051033	19		2	ST	010997	7089	5.6948.6	WN Flange PN 63 DN100		
- SK20051033	21		3	ST	010998	53595/2	5.6948.6	WN Flange PN 10 DN500		
- SK20051033	29		3	ST	010999	9351N1	5.6948.6	Elbow 90° -BA3- welded DN500		
- SK20051033	26		4	ST	011000	53595/2	5.6948.6	WN Flange PN 10 DN500		
- SK20051033	24		3	ST	011001	9351N1	5.6948.6	Elbow 90° -BA3- welded DN500		
- SK20051033	30		2	ST	011002	646619	5.6948.6	Elbow 90° -BA3- welded DN400		
- SK20051033	37		13,00	M	011003	471338	5.6948.6	Pipe welded DN80		
- SK20051033	39		5	ST	011004	V-007009	5.6948.6	Elbow 90° -BA3- welded DN80		
- SK20051033	40		5	ST	011005	482806	5.6948.6	Elbow 90° -BA3- welded DN25		
- SK20051033	41		3	ST	011006	67459	5.6948.6	WN Flange PN16 DN25		
- SK20051033	43		1	ST	011007	228718	5.6948.6	Reducer conc. smls DN300/150		
- SK20051033	56		1	ST	011008	347671	5.6948.6	Reducer conc. smls DN200/150		
- SK20051033	45		2	ST	011009	33340	5.6948.6	WN Flange PN 16 DN300		
- SK20051033	46		2	ST	011010	H-152	5.6948.6	WN Flange PN 16 DN150		
- SK20051033	64		1	ST	011011	5041	5.6948.6	Elbow 90° -BA3- welded DN300		
- SK20051033	52		1	ST	011012	9067N1	5.6948.6	Elbow 45° -BA3- welded DN200		
- SK20051033	66		1	ST	011013	9358N1	5.6948.6	Elbow 90° -BA3- welded DN200		
- SK20051033	54		2	ST	011014	253460	5.6948.6	Tee smls DN250/200		
- SK20051033	55		1	ST	011015	228718	5.6948.6	Reducer conc. smls DN300/150		

EinkBeleg	Pos	Material	Menge	BME	Zeugnis	Schmelzennummer	PSP-Elm	Materialkurztext	ZTyp	Kurztext
-	SK20051033	44	1	ST	011016	347671	5.6948.6	Reducer conc. Smls DN200/150		
-	SK20051033	57	2	ST	011017	33340	5.6948.6	WN Flange PN 16 DN300		
-	SK20051033	58	2	ST	011018	H-152	5.6948.6	WN Flange PN 16 DN150		
-	SK20051033	63	6,00	M	011019	39492	5.6948.6	Pipe welded DN300		
-	SK20051033	51	1	ST	011020	5041	5.6948.6	Elbow 90° -BA3- welded DN300		
-	SK20051033	65	1	ST	011021	9067N1	5.6948.6	Elbow 45° -BA3- welded DN200		
-	SK20051033	53	1	ST	011022	9358N1	5.6948.6	Elbow 90° -BA3- welded DN200		
-	SK20051033	67	1	ST	011023	313695	5.6948.6	Reducer conc. smls DN80/40		
-	SK20051033	68	1	ST	011024	94186	5.6948.6	Reducer eccentric smls DN40/25		
-	SK20051033	69	1	ST	011025	120084	5.6948.6	Tee smls DN40/25		
-	SK20051033	70	6,00	M	011026	216595	5.6948.6	Pipe smls DN40		
-	SK20051033	72	2	ST	011027	500377	5.6948.6	Elbow 45° -BA3 smls DN40		
-	SK20051033	74	2	ST	011028	209899	5.6948.6	Reducer conc. smls DN25/15		
-	SK20051033	75	1	ST	011029	313695	5.6948.6	Reducer conc. smls DN80/40		
-	SK20051033	77	1	ST	011030	212940	5.6948.6	Tee smls DN100/100		
-	SK20051033	78	2	ST	011031	H-152	5.6948.6	WN Flange PN 40 DN100		
-	SK20051033	86	1	ST	011032	6729	5.6948.6	Blind Flange PN 40 DN100		
-	SK20051033	82	1	ST	011033	212940	5.6948.6	Tee smls DN100/100		
-	SK20051033	83	2	ST	011034	H-152	5.6948.6	Blind Flange PN 40 DN100		
-	SK20051033	81	1	ST	011035	6729	5.6948.6	Blind Flange PN 40 DN100		
-	SK20051033	88	1	ST	011036	H-152	5.6948.6	WN Flange PN 40 DN100		
-	SK20051033	92	6	ST	011037	45035K	5.6948.6	Pipe smls DN150		
-	SK20051033	94	1	ST	011038	4012215	5.6948.6	Tee welded DN80		
-	SK20051033	95	6	ST	011039	818510	5.6948.6	Pipe welded DN600		
-	SK20051033	38	1	ST	011040	V-533007	5.6948.6	Reducer conc. welded DN80/50		
-	SK20051033	33	2	ST	011041	478948	5.6948.6	Elbow 90° -BA3- welded DN50		
-	SK20051033	35	2	ST	011042	811054	5.6948.6	Tee welded DN50		
-	SK20051033	34	1	ST	011043	811054	5.6948.6	Tee welded DN50		
-	SK20051033	32	1	ST	011044	4012212	5.6948.6	Tee welded DN50/25		
-	SK20051033	31	1	ST	011045	443950	5.6948.6	Tee welded DN50/40		
-	SK20051033	36	2	ST	011046	478948	5.6948.6	Elbow 90° welded DN50		
-	SK20051033	87	1	ST	011047	H-152	5.6948.6	WN Flange PN 10 DN150		

Price Bill of materials 0 50O40008ZB10C1 0 50 O 40008 ZB10C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0109	16	65	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,13 kg	4,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	4,00				0,00
G0100	50	0	Flat packings Graphite with CrNi-insert Standard 40002 107x2x61		1,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		44,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		3,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		33,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	29,99				0,00
P0134	50	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 60,3x2	2,92 kg	50,66				0,00
P0153	50	0	BEND 1.4541	0,35 kg	3,00				0,00
P0157	25	0	BEND 1.0254	0,12 kg	6,00				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	13,00				0,00
P0287	50	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2	0,35 kg	18,00				0,00

Price Bill of materials 0 50O40008ZB10C1 0 50 O 40008 ZB10C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P1025	50	25	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x33,7x2	0,43 kg	2,00				0,00
P1034	50	50	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x60,3x2	0,47 kg	1,00				0,00
P1739	50	25	Reducer, concentric, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x33,7x2	0,17 kg	1,00				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		3,00				0,00
P2996	50	0	Welding neck flanges; PN 16 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 60,3	3,00 kg	1,00				0,00
PWI53	50	25	PIPE WELD-IN 1.4541		2,00				0,00
SC3	25	0	Segment cut 33,7		15,00				0,00
SC5	50	0	Segment cut 60,3		26,00				0,00
SCP02	50	0	PIPE CLAMP, RB10A 61 W3 HESTERBERG 60,3		20,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		10,00				0,00
SPS419	0	0	SUPPORT PS-419, L 50, L=200	0,75 kg	9,00				0,00
SPS420	0	0	SUPPORT PS-420, PL. 120X60X10	0,57 kg	6,00				0,00
SPS421	0	0	SUPPORT PS-421, L 50, L=300	1,70 kg	3,00				0,00
SPS422	0	0	SUPPORT PS-422, L 50, L=250 1.4541	0,94 kg	2,00				0,00

Price Bill of materials 0 50O40008ZB10C1 0 50 O 40008 ZB10C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SPS423	0	0	SUPPORT PS-423, L 50, L=550	2,07 kg	1,00				0,00
SPS424	0	0	SUPPORT PS-424, L 50, L=350	1,31 kg	2,00				0,00
SPS425	0	0	SUPPORT PS-425, L 50, L=300	1,93 kg	1,00				0,00
SPS426	0	0	SUPPORT PS-426, L 40, L=150 1.4541	0,44 kg	2,00				0,00
SPS427	0	0	SUPPORT PS-427, L 50, L=350	1,31 kg	3,00				0,00
Summe: 0 50O40008ZB10C1 0				238,27 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

238,27 kg

VAM

SCHWEISSDOKUMENTATION WELDING DOCUMENTATION

Prot. Nr.

Jop Code:

K70101 ASU No. 9, Kosice

Order No.:

Client:

AIR LIQUIDE

Title: 50 O 40008

Sheet 1

Drawing No.:

Project No.: 9050300

Maker's No.:

erstellt:

2.03.06
Pelzeder Erich
Datum / Unterschrift

geprüft

Schweisstechnologie VAM
Datum / Unterschrift

(Kunde / TÜV, ...)

Datum / Unterschrift

Seam No.:	Welder No.:	Material	Dimension	Protocol No.:				Remerk
				Wärme- behandlung	RT	UT	MT/PT	SP
1	V1	1.4541	26,9*1,6					
2	V1	1.4541	33,7*2					
3	V1	1.4541	33,7*2					
4	V1	1.4541	33,7*2					
5	V1	1.4541	33,7*2					
6	V1	1.4541	33,7*2					
7	V1	1.4541	33,7*2					
8	V1	1.4541	33,7*2					
9	V1	1.4541	33,7*2					
10	V4	1.4541	33,7*2					
11	V4	1.4541	33,7*2					
12	V4	1.4541	33,7*2					
13	V4	1.4541	33,7*2					
14	V4	1.4541	33,7*2					
15	V4	1.4541	33,7*2					
16	V4	1.4541	33,7*2					
17	V4	1.4541	33,7*2					
18	V4	1.4541	60,3*2					
19	V4	1.4541	33,7*2					
20	V4	1.4541	33,7*2					
21	V4	1.4541	33,7*2					
22	V4	1.4541	33,7*2					
23	V4	1.4541	33,7*2					
24	V4	1.4541	26,9*1,6					
25	V4	1.4541	60,3*2					
26	V4	1.4541	60,3*2					
27	V4	1.4541	60,3*2					

VAM

SCHWEISSDOKUMENTATION WELDING DOCUMENTATION

Prot Nr.

Jop Code:

K70101 ASU No. 9, Kosice

Order No.:

Client:

AIR LIQUIDE

Title:

50 O 40008

Sheet 1

Drawing No.:

792.87826 - 00

Maker's No.:

erstellt:

02.03.06
Pelzeder Erich

geprüft

Schweisstechnologie VAM
Datum / Unterschrift

(Kunde / TÜV, ...)

Datum / Unterschrift

Project No.: 9050300

Seam No.:	Welder No.:	Material	Dimension	Protocol No.:					Remerk
				Wärme- behandlung	RT	UT	MT/PT	SP	
28	V4	1.4541	60,3*2						
29	V4	1.4541	60,3*2						
30	V4	1.4541	60,3*2						
31	V4	1.4541	60,3*2						
32	V4	1.4541	60,3*2						
33	V4	1.4541	60,3*2						
34	V4	1.4541	60,3*2						
35	V4	1.4541	60,3*2						
36	V4	1.4541	60,3*2						
37	V4	1.4541	60,3*2						
38	V4	1.4541	60,3*2						
39	V4	1.4541	60,3*2						
40	V4	1.4541	33,7*2						
41	V4	1.4541	33,7*2						
42	V4	1.4541	33,7*2						
43	V4	1.4541	33,7*2						
44	V4	1.4541	33,7*2						
45	V4	1.4541	33,7*2						
46	V4	1.4541	33,7*2						
47	V4	1.4541	33,7*2						
48	V4	1.4541	33,7*2						
49	V4	1.4541	33,7*2						
50	V4	1.4541	33,7*2						
51	V4	1.4541	33,7*2						
52	V4	1.4541	26,9*1,6						
53	V4	1.4541	60,3*2						
54	V4	1.4541	60,3*2						

VAM

SCHWEISSDOKUMENTATION WELDING DOCUMENTATION

Prot Nr.

Jop Code:

K70101 ASU No. 9, Kosice

Order No.:

Client:

AIR LIQUIDE

Title:

50 O 40008

Sheet 1

Drawing No.:

792.87826 - 00

Maker's No.:

Project No.: 9050300

erstellt:

v.l.č.č.č.č.č.č.
Pelzeder Erich

Datum / Unterschrift

geprüft

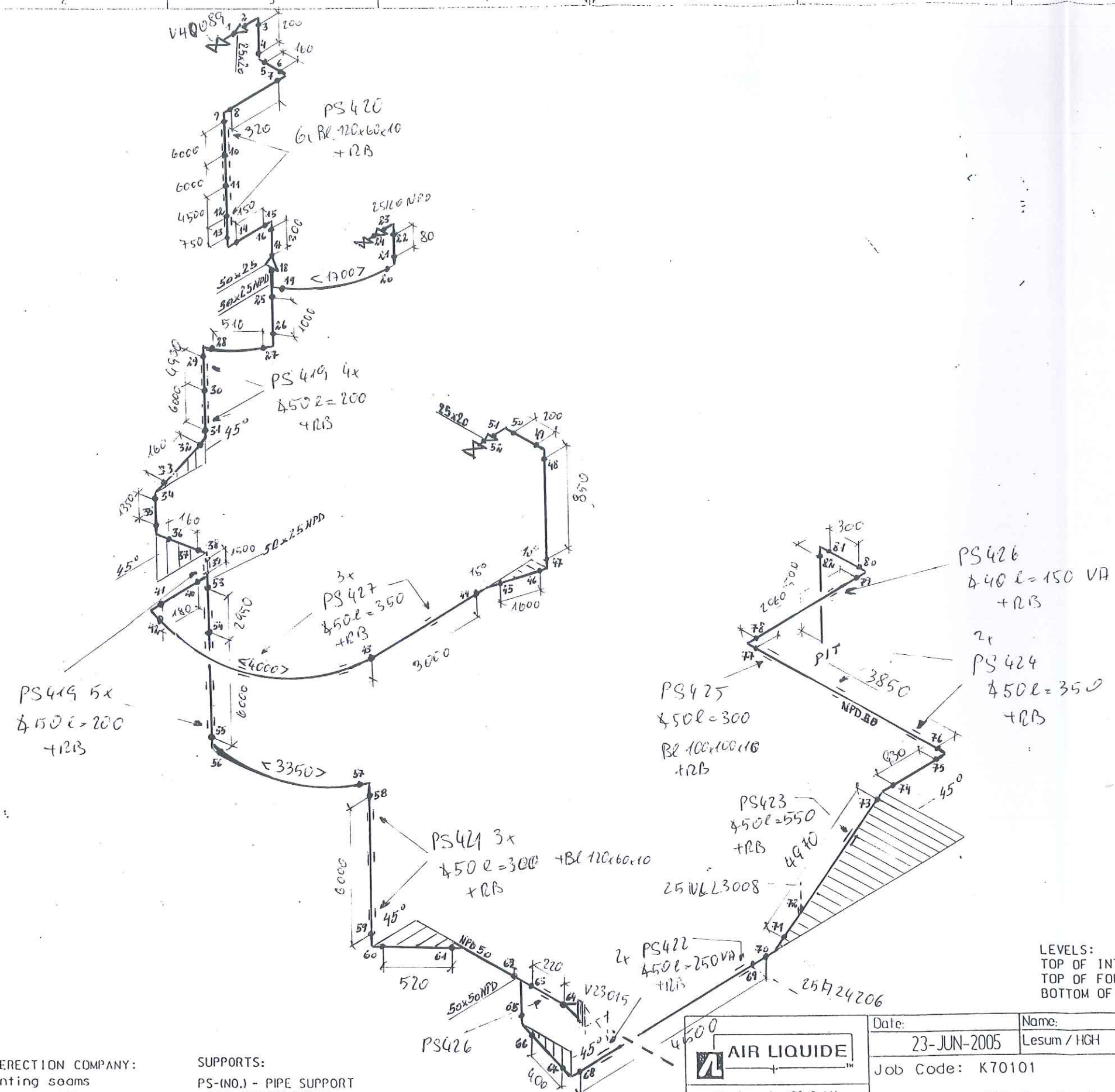
Schweisstechnologie VAM
Datum / Unterschrift

(Kunde / TÜV, ...)



Datum / Unterschrift

Seam No.:	Welder No.:	Material	Dimension	Protocol No.:				Remerk
				Wärme- behandlung	RT	UT	MT/PT	SP
55	V4	1.4541	60,3*2					
56	V4	1.4541	60,3*2					
57	V4	1.4541	60,3*2					
58	V4	1.4541	60,3*2					
59	V4	1.4541	60,3*2					
60	V4	1.4541	60,3*2					
61	V4	1.4541	60,3*2					
62	V4	1.4541	60,3*2					
63	V4	1.4541	60,3*2					
64	V4	1.4541	60,3*2					
65	V4	1.4541	60,3*2					
66	V4	1.4541	60,3*2					
67	V4	1.4541	60,3*2					
68	V4	1.4541	60,3*2					
69	V4	NPD25	60,3*2					
70	V4	1.4541	60,3*2					
71	V4	1.4541	60,3*2					
72	V4	NPD25	60,3*2					
73	V4	1.4541	60,3*2					
74	V4	1.4541	60,3*2					
75	V4	1.4541	60,3*2					
76	V4	1.4541	60,3*2					
77	V4	1.4541	60,3*2					
78	V4	1.4541	60,3*2					
79	V4	1.4541	60,3*2					
80	V4	1.4541	60,3*2					
81	V4	1.4541	60,3*2					



RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE

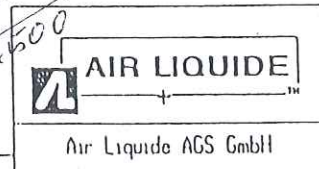
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

Rev.	Revisions	Date	Name	checked



Replaces: 79_-----
Replaced by: 79_-----

Date:	23-JUN-2005	Name:	Lesum / HGH	Checked:	05-07-11	History file:	
Job Code:	K70101	Scale:	1:1	Original format:	DIN A3		
Reference:	ASU No. 9, Kosice	Sheet:	1	Sheets:	1		
Title:	50.0.40008.2B10C1			Drawing No:	792.8782600	Rev.	

LEVELS:

TOP OF INTERNAL ROADS: 225.00m n.m.

TOP OF FOUNDATION: 225.10m

BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

Price Bill of materials 0 40OL40013ZB10C1 0 40 OL 40013 ZB10C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		1,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		1,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		1,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	0,25				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
SC3	25	0	Segment cut 33,7		1,00				0,00
Summe: 0 40OL40013ZB10C1 0				0,40 kg		0,00	0,00		0,00

Total Delivery:
Total Mounting:
Grand Total:
Total Weight:
** End of List

0,40 kg

AS BUILT



Jop Code: K70101 ASU No. 9, Kosice

Title: 40 OL 40013

Sheet 1

Drawing No.:

Maker's No.:

(Kunde / TÜV, ...)

geprüft

erstellt:

Schweisstechnologie VAM

Datum / Unterschrift

Datum / Unterschrift

Datum / Unterschrift

[illegible]

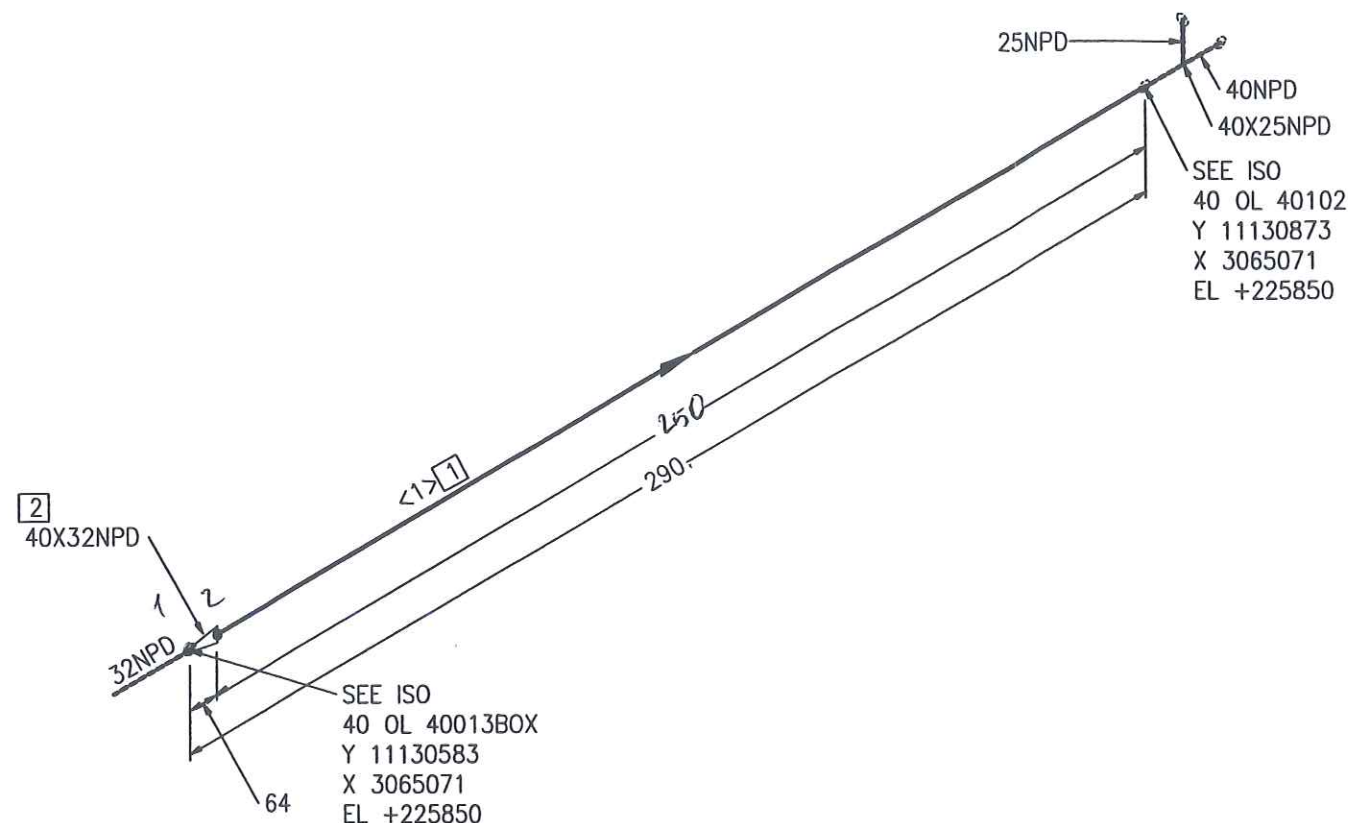


As built

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	226 MM	40	PIPE, WELDED 48.3*2.0, 1.4541, DIN EN 10220
2	1	40X32	REDUCER, CONCENTRIC, WELDED 48.3*2.0/42.4*2.0, 1.4541, DIN 2616-1

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	226	40		BEVEL	BEVEL	RG



NUR ZUR INFORMATION

FOR INFORMATION ONLY

2 1. OKT. 2005

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

	Date:	17-OCT-2005	Name:	Lesum / HGH	Checked:	05-10-20	History file:		
	Job Code: K70101				Scale		Original format		
	Reference: ASU No. 9, Kosice				Sheet: 1		Sheets: 1		
	Title:				Drawing No:		Rev.		
Replaces: 79_				40 OL 40013 ZB10C1C792.878260					
Replaced by: 79_									

Rev.	Revisions	Date	Name	checked

Price Bill of materials 0 40OL40102ZB16C1 0 40 OL 40102 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		1,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		1,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		3,00				0,00
GW8	40	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 48,3x2		30,00				0,00
IV90111	40	0	V90111		1,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	0,10				0,00
P0133	40	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 48,3x2	2,31 kg	18,94				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	1,00				0,00
P0286	40	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 48,3x2	0,21 kg	13,00				0,00
P1016	40	25	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 48,3x2x33,7x2	0,32 kg	1,00				0,00
P1017	40	40	TEE MADE OF WELDED PIPE 1.4541	0,69 kg	1,00				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00

Price Bill of materials 0 40OL40102ZB16C1 0 40 OL 40102 ZB16C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
S0041	40	0	T-support, 1.4541, TA 120G 49 W3 1.4 Hesterberg 49	7,70 kg	6,00				0,00
SC3	25	0	Segment cut 33,7		1,00				0,00
SC4	40	0	Segment cut 48,3		18,00				0,00
SCP08	40	0	PIPE CLAMP, RB10A 49 W3 HESTERBERG		1,00				0,00
SPG01	0	0	PIPE GUIDE 1.0 HESTERBERG		3,00				0,00
SPS297	0	0	SUPPORT PS-297, HEB 100, L=380	8,55 kg	1,00				0,00
SPS298	0	0	SUPPORT PS-298, U 100, L=500	5,30 kg	1,00				0,00
SPS299	0	0	SUPPORT PS-299, U 100, L=550	5,83 kg	1,00				0,00
SPS300	0	0	SUPPORT PS-300, U 100, L=600	6,36 kg	1,00				0,00
Summe: 0 40OL40102ZB16C1 0				119,98 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

119,98 kg

As built



4
45° 30'
EL +225804

24
17
40NPD
17

SEE ISO
SHT 2

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

V90111

9
STEM W 45.6 U
Y 11139756
X 3069021
EL +225741

F6 G7 B8
TO GRAVEL BED

S10
PS 297
PG HEB 100 L=380
TA 120 49 W3

S10
PS 298
PG L 100 L=550
TA 120 49 W3

4
45°
EL +226081

SLOPE 1%

2
40X40NPD
EL +225741

S10
PS
PG TA 120 49 W3

80NPD
80X40NPD
80NPD
SEE ISO
80 OL 90001
Y 11140427
X 3069014
EL +226950

300

3
11 <1> 1
10
850
9
344
180
344
6
257
100
5
90.4°
EL +225737

F6 G7 B8

SLOPE 1%

2150
14
15
16
17

1900

1400
20
21
22
23
40 NPD RB
V90111
450

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	7983	MM 40	PIPE, WELDED 48.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	1	40X40	TEE, WELDED 48.3*2.0/48.3*2.0, 1.4541, DIN 2615-1
3	1	40	ELBOW, WELDED, 1,5D 48.3*2.0-90, B-ART 3,DIN 2605-1
4	2	40	ELBOW, WELDED, 1,5D 48.3*2.0-45, B-ART 3,DIN 2605-1
5	1	40	ELBOW, WELDED, 1,5D 48.3*2.0-90.4, B-ART 3,DIN 2605-1
6	2	40	WELDING-NECK-FLANGE PN16, 1.4541, DIN EN 1092-1
7	2	40	FLAT GASKET
8	8	16	HEXAGON HEAD BOLT A2-70 WITH NUT A2-70, 55.0MM LANG
9	1	40	V90111
10	3	40	PIPE GUIDE PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	250	40		BEVEL	BEVEL	RG1
<2>	788	40		BEVEL	BEVEL	RG1
<3>	405	40		BEVEL	BEVEL	RG1
<4>	250	40		BEVEL	BEVEL	RG1
<5>	6290	40		BEVEL	BEVEL	RG1

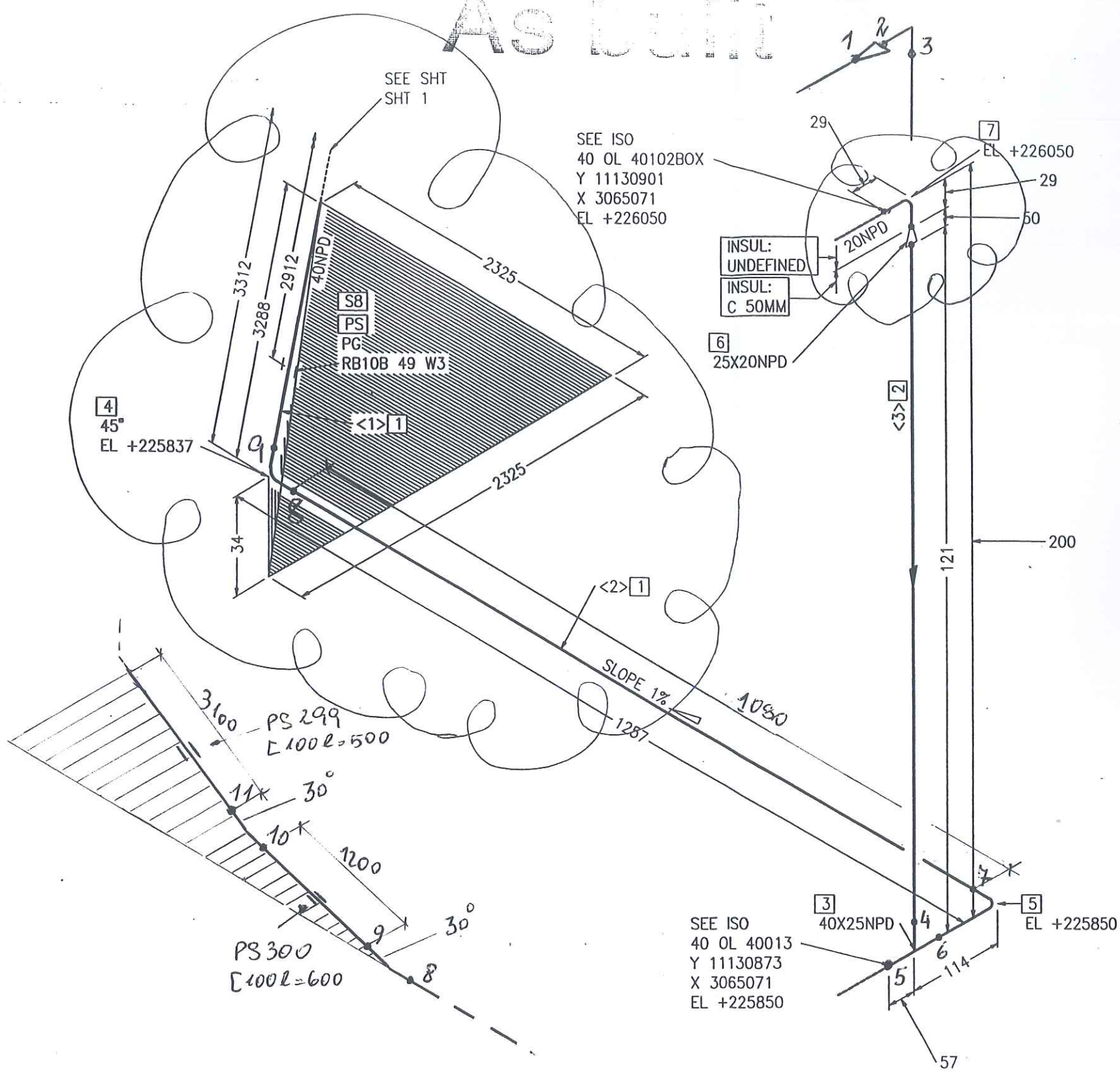
NUR ZUR INFORMATION
FOR INFORMATION ONLY

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

	Date:	17-OCT-2005	Name:	Lesum / HGH	Checked:	05-10-20	History file:
	Job Code:	K70101			Scale:	---	
	Reference:	ASU No. 9, Kosice			Sheet:	1	Original format DIN A3
	Title:	40 OL 40102 ZB16C1C			Drawing No:	792.878260	
Replaces:	79----						
Replaced by:	79----						
Rev.	Revisions	Date	Name	checked			



As Built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	4440 MM	40	PIPE, WELDED 48.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	64 MM	25	PIPE, WELDED 33.7 * 2.0 , 1.4541, DIN EN ISO 1127
3	1	40X25	TEE, WELDED 48.3*2.0/33.7*2.0, 1.4541, DIN 2615-1
4	1	40	ELBOW, WELDED, 1,5D 48.3*2.0-45, B-ART 3,DIN 2605-1
5	1	40	ELBOW, WELDED, 1,5D 48.3*2.0-90, B-ART 3,DIN 2605-1
6	1	25X20	REDUCER, CONCENTRIC, WELDED 33.7*2.0/26.9*1.6, 1.4541, DIN 2616-1
7	1	20	ELBOW, WELDED, 1,5D 26.9*1.6-90, B-ART 3,DIN 2605-1
8	1	40	PIPE GUIDE PSUPPORT

CUT PIPE LENGTH					
PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO
<1>	3264	40		BEVEL	BEVEL
<2>	1176	40		BEVEL	BEVEL
<3>	64	25		BEVEL	BEVEL


NUR ZUR INFORMATION
FÜR INFORMATION

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked

 Air Liquide AGS GmbH	Date: 17-OCT-2005	Name: Lesum / HGH	Checked: 05-10-20	History file:
	Job Code: K70101			Scale: ---:---
	Reference: ASU No. 9, Kosice			Original format: DIN A3
	Title: 40 OL 40102 ZB16C1C 792.878260			Drawing No: 792.878260

Price Bill of materials 0 25RL43002ZB16C1 0 25 RL 43002 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0100	12	50	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	8,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	8,00				0,00
G0097	25	0	Flat packings Graphite with CrNi-insert Standard 40002 70x2x35		2,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		14,00				0,00
ILV43033	25	0	LV43033		1,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	25,13				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	6,00				0,00
P2993	25	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 33,7	1,00 kg	1,00				0,00
S0039	25	0	T-support, 1.4541, TA 120G 34 W3 1.4 Hesterberg 34	7,60 kg	4,00				0,00
SC3	25	0	Segment cut 33,7		6,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		3,00				0,00
SPG01	0	0	PIPE GUIDE 1.0 HESTERBERG		2,00				0,00
SPS301	0	0	SUPPORT PS-301, L 80, L=350	5,76 kg	1,00				0,00
SPS302	0	0	SUPPORT PS-302, L 100, L=250	6,25 kg	1,00				0,00



VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Price Bill of materials 0 25RL43002ZB16C1 0 25 RL 43002 ZB16C1 Revision:

(Cont.)									
Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SPS303	0	0	SUPPORT PS-303, L 80, L=250	5,03 kg	1,00				0,00
SPS304	0	0	SUPPORT PS-304, L 50, L=400	1,50 kg	3,00				0,00
Summe: 0 25RL43002ZB16C1 0				93,83 kg		0,00	0,00		0,00

Total Delivery:
Total Mounting:
Grand Total:
Total Weight: 93,83 kg
** End of List



VAM

SCHWEISSDOKUMENTATION WELDING DOCUMENTATION

Prot. Nr.

Jop Code:

K70101 ASU No. 9, Kosice

Order No.:

25 RL 43002

Client: AIR LIQUIDE

Title:

Sheet 1

Drawing No.:

792.87826 - 00

Maker's No.:

Project No.: 9050300

erstellt:

25.01.06

Pelzeder Erich
Pelzeder Erich

Datum / Unterschrift

geprüft

Schweisstechnologie VAM
Datum / Unterschrift

(Kunde / TÜV, ...)

Datum / Unterschrift

Protocol No.:

Remerk

MT/PT

UT

RT

Wärme-
behandlung

Dimension

Material

Welder
No.:

1

V2

1.4541

33,7*2

R0540

SP

2

V2

1.4541

33,7*2

R0541

3

V2

1.4541

33,7*2

R0542

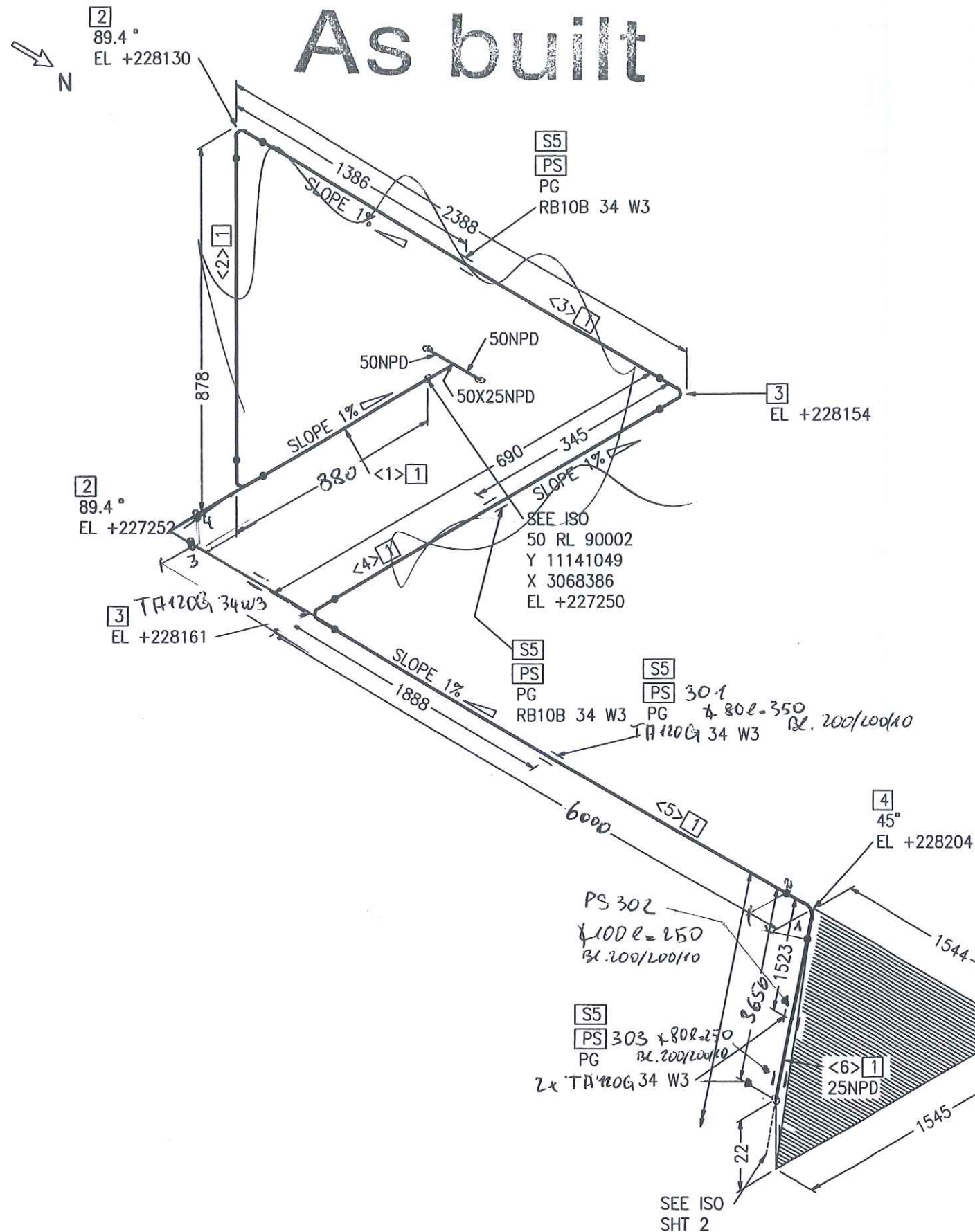
4

V2

1.4541

33,7*2

R0543



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	10321	MM 25	PIPE, WELDED 33.7 * 2.0 , 1.4541, DIN EN ISO 1127
2	2	25	ELBOW, WELDED, 1,5D 33.7*2.0-89.4, B-ART 3,DIN 2605-1
3	2	25	ELBOW, WELDED, 1,5D 33.7*2.0-90, B-ART 3,DIN 2605-1
4	1	25	ELBOW, WELDED, 1,5D 33.7*2.0-45, B-ART 3,DIN 2605-1
5	4	25	PIPE GUIDE PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	191	25		BEVEL	BEVEL	RG1
<2>	802	25		BEVEL	BEVEL	RG1
<3>	2312	25		BEVEL	BEVEL	RG1
<4>	614	25		BEVEL	BEVEL	RG1
<5>	4233	25		BEVEL	BEVEL	RG1
<6>	2169	25		BEVEL	BEVEL	RG1

NUR ZUR INFORMATION
FOR INFORMATION ONLY

21 OCT. 2005

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked

AIR LIQUIDE Air Liquide AGS GmbH	Date: 21-SEP-2005	Name: Lesum / HGH	Checked: 05-10-20	History file:
	Job Code: K70101		Scale: 1:1	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1		Sheets: 2
Title: 25 RL 43002 ZB16C1792.878260		Drawing No:		Rev.



Order No.: **K70101 ASU No. 9, Kosice**

Title:

25 RL 43002

Sheet 2

Drawing No.:

Project No.: 9050300

Maker's No.:

(Kunde / TÜV, ...)

geprüft

erstellt:

15.02.06 RL
Pelzeder Enich

Schweisstechnologie VAM

Datum / Unterschrift

[illegible]

Price Bill of materials 0 80RL44101ZB16C1 0 80 RL 44101 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0100	12	50	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	16,00				0,00
B0109	16	65	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,13 kg	40,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	16,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	40,00				0,00
G0103	80	0	Flat packings Graphite with CrNi-insert Standard 40002 142x2x90		4,00				0,00
G0156	65	0	Fibrous packings asbestos-free laminate made of aramide f 127x2x77		6,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		7,00				0,00
GW13	65	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 76,1x2,3		2,00				0,00
GW15	80	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 88,9x2,3		21,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		3,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		9,00				0,00
IC02	65	0	COMPENSATOR		2,00				0,00
IH44210	80	0	H44210 supplied by AGS		1,00				0,00

Price Bill of materials 0 80RL44101ZB16C1 0 80 RL 44101 ZB16C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
IHV48010	80	0	HV48010 supplied by AGS		1,00				0,00
IQE44120	15	0	QE44120 supplied by AGS		1,00				0,00
IST01	65	0	STAINER		2,00				0,00
IV44059	15	0	V44059		1,00				0,00
IV44120	15	0	V44120		1,00				0,00
IV44260H1	15	0	V44260H1 supplied by AGS		1,00				0,00
IV48081	15	0	V48081		1,00				0,00
IZ44250	25	15	Z44250 supplied by AGS		1,00				0,00
IZ44251	25	15	Z44251 supplied by AGS		1,00				0,00
IZ48011	25	0	Z48011 supplied by AGS		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	4,30				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	2,80				0,00
P0136	80	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 88,9x2,3	4,98 kg	10,10				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	3,00				0,00
P0289	80	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 88,9x2,3	0,89 kg	5,00				0,00

Price Bill of materials 0 80RL44101ZB16C1 0 80 RL 44101 ZB16C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P0994	15	15	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 21,3x1,6x21,3x1,6	0,05 kg	1,00				0,00
P1063	80	80	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 88,9x2,3x88,9x2,3	1,06 kg	2,00				0,00
P1742	25	15	REDUCER, CONCENTRIC, WELDED 1.4541		3,00				0,00
P1758	80	65	Reducer, concentric, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 88,9x2,3x76,1x2,3	0,42 kg	2,00				0,00
P2999	65	0	Welding neck flanges; PN 16 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 76,1	3,50 kg	2,00				0,00
P3001	80	0	Welding neck flanges; PN 16 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 88,9	4,00 kg	2,00				0,00
PW12	80	15	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 88,9x2,3x21,3x1,6		6,00				0,00
S0032250	80	0	T-support, 1.4541, TA 120B 89 W3, H2 = 2 1.4 Hesterberg	4,10 kg	2,00				0,00
S0032293	80	0	T-support, 1.4541, TA 120B 89 W3, H2 = 2 1.4 Hesterberg	4,10 kg	1,00				0,00
S0044250	80	0	T-support, 1.4541, TA 120G 89 W3, H2 = 2 1.4 Hesterberg	8,70 kg	3,00				0,00
S0161	15	0	Pipe clamp, RB10A 22 W3 1.4 Hesterberg 22	0,10 kg	3,00				0,00
SC1	15	0	Segment cut 21,3		4,00				0,00

Price Bill of materials 0 80RL44101ZB16C1 0 80 RL 44101 ZB16C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SC3	25	0	Segment cut 33,7		3,00				0,00
SC6	80	0	Segment cut 88,9		12,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		3,00				0,00
SPS111	0	0	SUPPORT PS-111	8,54 kg	1,00				0,00
SPS112	0	0	SUPPORT PS-112	1,57 kg	1,00				0,00
SPS113	0	0	SUPPORT PS-113	8,54 kg	1,00				0,00
SPS114	0	0	SUPPORT PS-114	8,54 kg	1,00				0,00
SPS116	0	0	SUPPORT PS-116	28,07 kg	1,00				0,00
SPS120	0	0	SUPPORT PS-120	45,05 kg	1,00				0,00
SPS307	0	0	SUPPORT PS-307, L 50, L=300	1,13 kg	1,00				0,00
SPS308	0	0	SUPPORT PS-308, L 50, L=1000	3,77 kg	2,00				0,00
XZB03	80	15	welding nozzle for sample line, drawing 1.4541 22		3,00				0,00
XZB14	25	0	HOLLÄNDER 1.4571		3,00				0,00
XZB16	25	0	MUFFEN 1.4571		3,00				0,00
Summe: 0 80RL44101ZB16C1 0				236,21 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

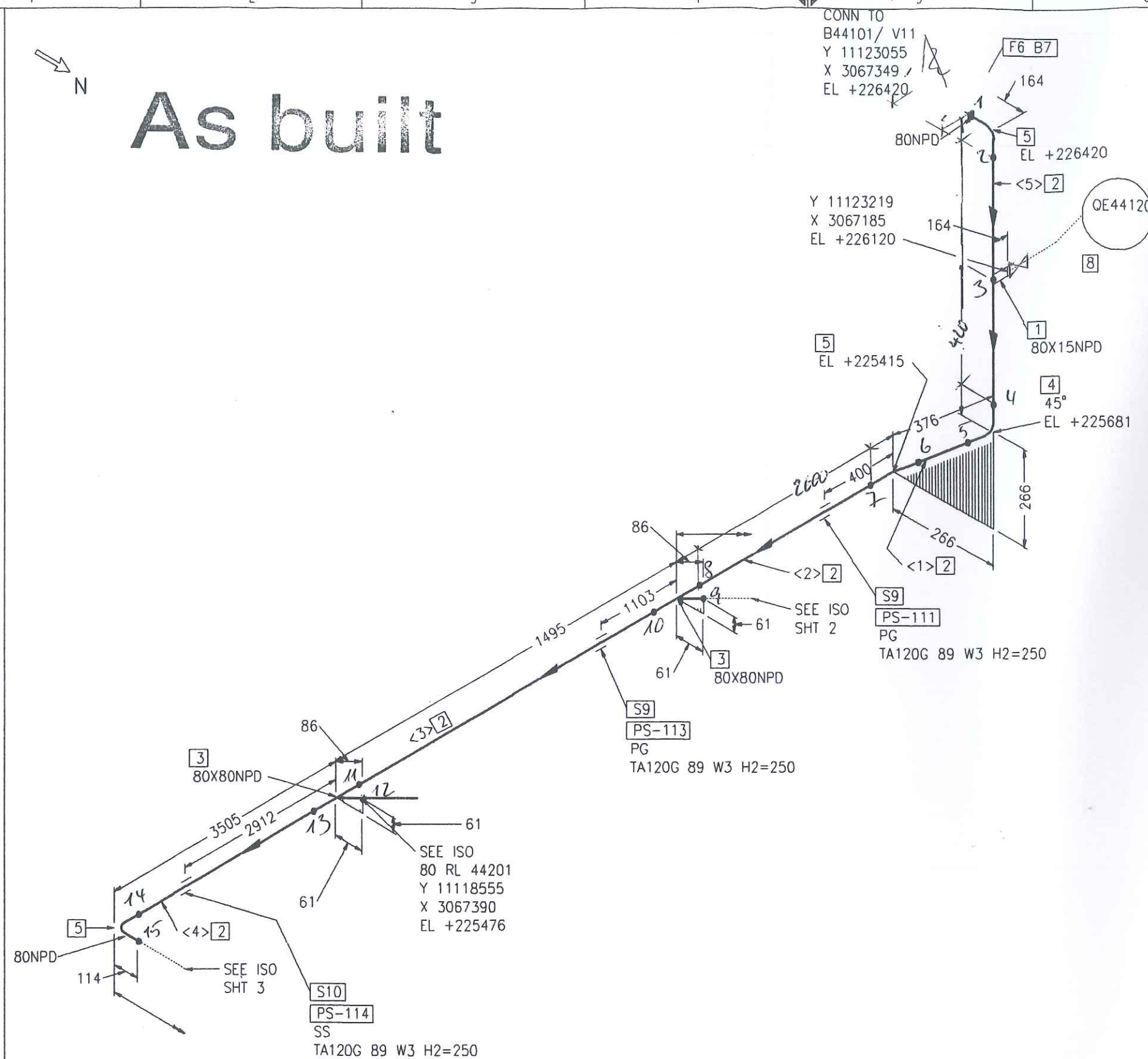
Total Weight:

** End of List

236,21 kg

AS EULI

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1	80X15	WELDING NOZZLE FOR SAMPLE LINE, DRAWING NO. 792.55981
2	8227 MM	80	PIPE, WELDED 88.9 * 2.3 , 1.4541, DIN EN ISO 1127
3	2	80X80	TEE, WELDED 88.9*2.3/88.9*2.3, 1.4541, DIN 2615-1
4	1	80	ELBOW, WELDED, 1,5D 88.9*2.3-45, B-ART 3,DIN 2605-1
5	3	80	ELBOW, WELDED, 1,5D 88.9*2.3-90, B-ART 3,DIN 2605-1
6	1	80	WELDING-NECK-FLANGE PN16, 1.4541, DIN EN 1092-1
7	8	16	HEXAGON HEAD BOLT A2-70 WITH NUT A2-70, 65.0MM LANG
8	1		QE44120 QE44120
9	2	80	PIPE GUIDE PSUPPORT
10	1	80	SLIDE SUPPORT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	215	80		BEVEL	BEVEL	RG1
<2>	2805	80		BEVEL	BEVEL	RG1
<3>	1324	80		BEVEL	BEVEL	RG1
<4>	3305	80		BEVEL	BEVEL	RG1
<5>	578	80		BEVEL	BEVEL	RG1

LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

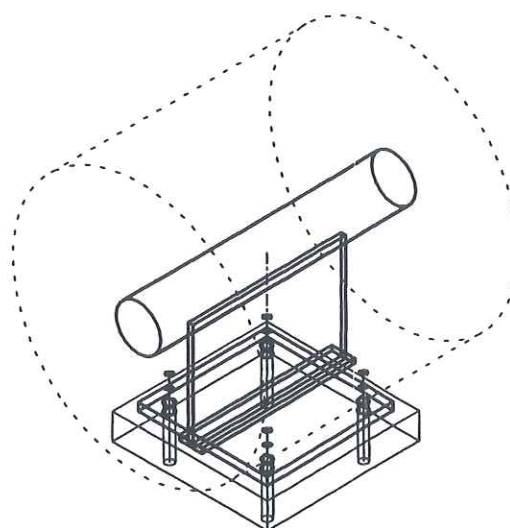
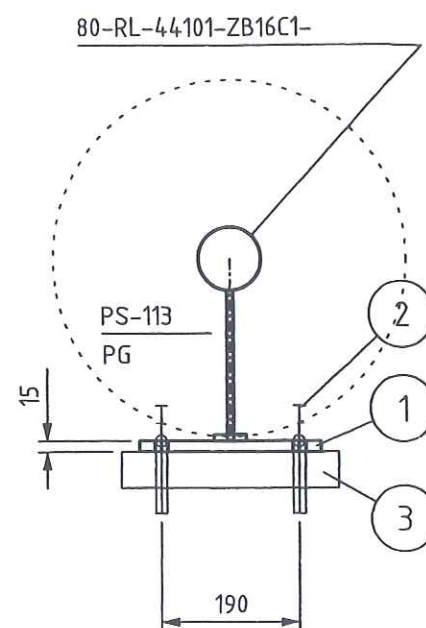
RESPONSIBILITY OF ERECTION COMPANY:
 - Situation of mounting seams
 - Situation off pass- length
 - Check of measure details and pipe courses on the construction site
 - Situation of the spindle at valve
 - All components for Oxygen use free of oil and grease

SUPPORTS:
 PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

 Air Liquide AGS GmbH	Date: 16-SEP-2005	Name: Lesum / HGH	Checked: 05-09-15	History file.	
	Job Code: K70101			Scale: ---:---	Original format: DIN A3
	Reference: ASU No. 9, Kosice			Sheet: 1	Sheets: 3
	Title: 80 RL 44101 ZB16C1C 792.8782601			Drawing No.	Rev.

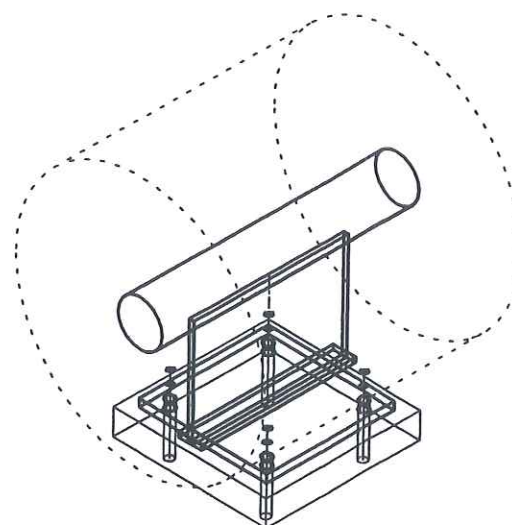
As built



Replaces:	Title	PS-113
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Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					


As built



Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

	Date	Name	Check.	History File	
	09.06.2005	GU	Zuf		
	Job Code:	K70101 ASU No.9 Kosice			Scale:
	Reference:	PIPING SUPPORT			1:10
Replaces:	Title	PS-114			Original Format
					DIN A3
					Sheet:
					1 of:
					Drawing-No.
					792.87926
					Rev
					a



	SCHWEISSDOKUMENTATION WELDING DOCUMENTATION		erstellt: 04.03.06	geprüft Schweisstechnologie VAM	(Kunde / TÜV, ...)	
	Prot. Nr.:		Datum / Unterschrift Pelzeder Erich	Datum / Unterschrift		
Jop Code: K70101	ASU No. 9, Kosice	Order No.:	Project No.: 9050300			
Client: AIR LIQUIDE	Title: 80 RL 44101	Sheet 2	Drawing No.:	792.87826 - 01	Maker's No.:	

[illegible]

As built

SEE SHT
SHT 1

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE


PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

 Air Liquide AGS GmbH	Date:	16-SEP-2005	Name:	Lesum / HGH	Checked:	05-09-15	History file.
	Job Code: K70101				Scale	Original format DIN A3	
	Reference: ASU No. 9, Kosice				Sheet: 2	Sheets: 3	
	Title:				Drawing No.		
Replaces: 79_----- Replaced by: 79_-----				80 RL 44101 ZB16C1C 792.8782601			

LEVELS:

TOP OF INTERNAL ROADS: 225.00m n.m.

TOP OF FOUNDATION: 225.10m

BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	244	80		BEVEL SHAPED	BEVEL	RG1
<2>	402	15		BEVEL	BEVEL	RG1
<3>	50	15		BEVEL	BEVEL	RG1
<4>	75	15		BEVEL	BEVEL	RG1
<5>	751	80		BEVEL	BEVEL	RG1

CUT PIPE LENGTH

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	995 MM	80	PIPE, WELDED 88.9 * 2.3 , 1.4541, DIN EN ISO 1127
2	527 MM	15	PIPE, WELDED 21.3 * 1.6 , 1.4541, DIN EN ISO 1127
3	1	80X65	REDUCER, CONCENTRIC, WELDED 88.9*2.3/76.1*2.3, 1.4541, DIN 2616-1
4	1	80	ELBOW, WELDED, 1.5D 88.9*2.3-43.5, B-ART 3, DIN 2605-1
5	1	15X15	TEE, WELDED 21.3*1.6/21.3*1.6, 1.4541, DIN 2615-1
6	1	65	WELDING-NECK-FLANGE PN16, 1.4541, DIN EN 1092-1
7	1	80	H44210
8	1	20X15	Z44251
9	1	15	V44260H1 V44260H1
10	1	80	FIX POINT PSUPPORT
11	1	15	FIX POINT PSUPPORT

01

01

01

V44260H1

1/2" SCREWED CONNECTION, PN250

Y 11120050
X 3066514
EL +226294

4
43.5°
EL +225801

7
H44210
STEM N 45.0 U
S10
PS-116
FP
TA120B 89 W3 H2=250

20X15NPD
REDUCER 1/2" X 3/4" 33.7 x 2

33 MM
25 NPD Y 11120083
X 3066369
EL +226424

S11
PS-122
FP
RB10A 22 W3

5
15X15NPD
EL +226294

CONN.LINE WITH V44059H1

80X15NPD
EL +225824

3
80X65NPD
F6

V44059H1
SLOPE 3%
100
235
135
CONN TO
P44001/ SS
Y 11120050
X 3066134
EL +225827

Compensation
Filter

As built

15 -RL-44101-ZB16C1-

PS-122
FP

439

101

251

418

PS-116
FP

PS-117
FP

PIPE SHOE
ADJUST AT SITE FOR
PIPE WITH SLOPE

190

80-RL-44101-ZB16C1-

50-RL-44203-ZB40C1-

Ø 18

X= 3066510

Y= 11120050

Y= 11120165

Y= 11120299

33

5

4

6

3

FIX WITH PIPE CLAMP
RB 10A 22 W3

Ø 12

Z= 226359

Z= 225919

Z= 225819

Z= 225571

2

1

8

7

9

190

Z= 225150

Isometric view of the structure showing the vertical pipe, horizontal pipe, and base.

As built

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

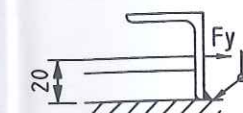
- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS $a=4\text{mm}$ ROUND

-THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

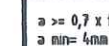
- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

TA 120 G DN 15-80




ANGLE STEEL: L40x8x80LENGTH
ANGLE STEEL AND PLATE ACCORDING
TO ORDER NO. PIPE SHOE

WELDING DATA ACC. TO DIN 1912 T



Total Weight:	26.88 kg
---------------	----------

[illegible]

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	25 JUL. 2005	Zut	
Drawn checked by			


AIR LIQUIDE™

Air Liquide AGS GmbH

	Date	Name	Check	History File		
	10.06.2005	GU		Zut		
	Job Code: K70101 ASU No.9 Kosice				Scale: 1:10	Original Format: DIN A3
	Reference: PIPING SUPPORT				Sheet: 1	of:
Replaces:	Title: PS-116				Drawing-No. 792.87926	Re

VAM

SCHWEISSDOKUMENTATION WELDING DOCUMENTATION

Prot. Nr.

Jop Code: K70101 ASU No. 9, Kosice Order No.:

Client: AIR LIQUIDE

Title: 80 RL 44101

Sheet 3

Drawing No.:

Project No.: 9050300

Maker's No.:

erstellt:

04.03.06

Pelzeder Erich

Datum / Unterschrift

geprüft

Schweisstechnologie VAM

Datum / Unterschrift

(Kunde / TÜV, ...)

Datum / Unterschrift

Seam No.:

Welder
No.:

Material

Dimension

Wärme-
behandlung

RT

UT

Protocol No.:

MT/PT

SP

Remerk

1

V15

1.4541

NPD15

2

V15

1.4541

88,9*2,3

R0202

3

V15

1.4541

88,9*2,3

4

V15

1.4541

NPD15

5

V15

1.4541

88,9*2,3

6

V15

1.4541

76,1*2,3

7

V2

1.4541

21,3*1,6

8

V2

1.4541

33,7*2

9

V2

1.4541

21,3*1,6

10

V2

1.4541

33,7*2

11

V2

1.4541

NPD15

12

V2

1.4541

33,7*2

13

V2

1.4541

33,7*2

Pelzeder Erich, 04.03.06

1

Kosice

As built

Y 11115050
X 3067231
EL +226020

33 MM
250 NPD
20X15 NPD
REDUCER 21.3x21.3x1.2
S12
PS-112
FP
RB10A 22 W3

PS 308
500 ± 1000
+RB

SEE SHT
SHT 1
80NPD
SLOPE 5%
136
250

80X15NPD
EL +225427
S11
PS-112
FP
TA120B 89 W3 H2=250

CONN.LINE WITH V48081

F4 G6 B7
F4 G6 B7

8
HV48010

830
310
151
253

80X15NPD
EL +225458

S11
PS-120
FP
TA120B 89 W3 H2=293

CONN TO
P48001/ SS
Y 11115050
X 3066136
EL +225460

3
80X65NPD
CONN BRANCH WITH V48081

33 MM
250 NPD Y 11115083
X 3066372
EL +226058

10
Z48011

S12
PS-129
FP
RB10A 22 W3

see 120

900
PS 308

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	653 MM	80	PIPE, WELDED 88.9 * 2.3 , 1.4541, DIN EN ISO 1127
2	1044 MM	15	PIPE, WELDED 21.3 * 1.6 , 1.4541, DIN EN ISO 1127
3	1	80X65	REDUCER, CONCENTRIC, WELDED 88.9*2.3/76.1*2.3, 1.4541, DIN 2616-1
4	2	80	WELDING-NECK-FLANGE PN16, 1.4541, DIN EN 1092-1
5	1	65	WELDING-NECK-FLANGE PN16, 1.4541, DIN EN 1092-1
6	2	80	FLAT GASKET
7	16	16	HEXAGON HEAD BOLT A2-70 WITH NUT A2-70, 65.0MM LANG
8	1	80	HV48010
9	1	20X15	Z44250
10	1	15	Z48011
11	2	80	FIX POINT PSUPPORT
12	2	15	FIX POINT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	517	15		SHAPED BEVEL	BEVEL	RG1
<2>	450	80		SHAPED BEVEL	BEVEL	RG1
<3>	527	15		SHAPED BEVEL	BEVEL	RG1
<4>	203	80		SHAPED BEVEL	BEVEL	RG1

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	General Rev	Date	Les	Zul
01	General Rev	15.09.2005	Les	Zul
	Revisions		Name	checked

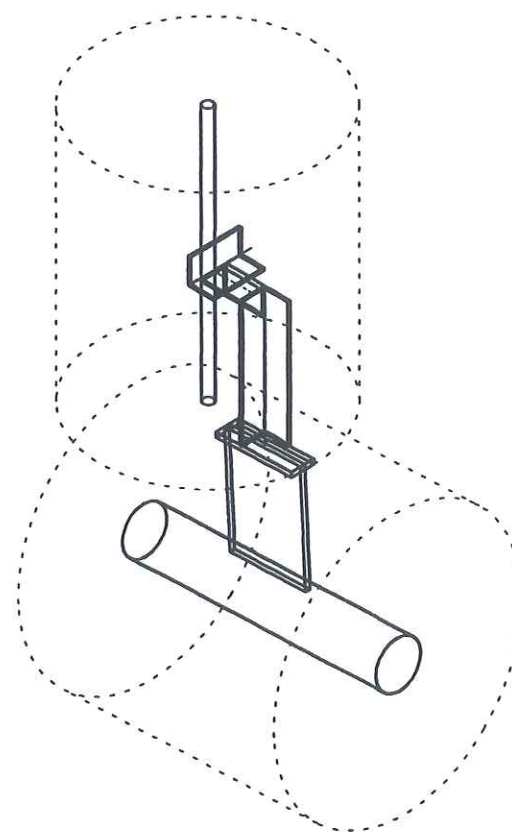
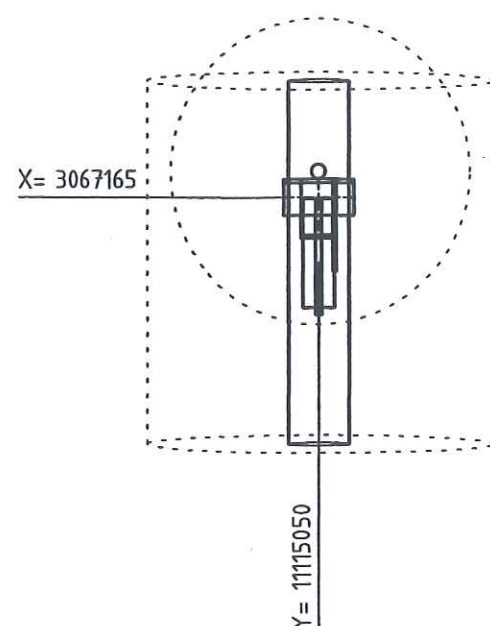
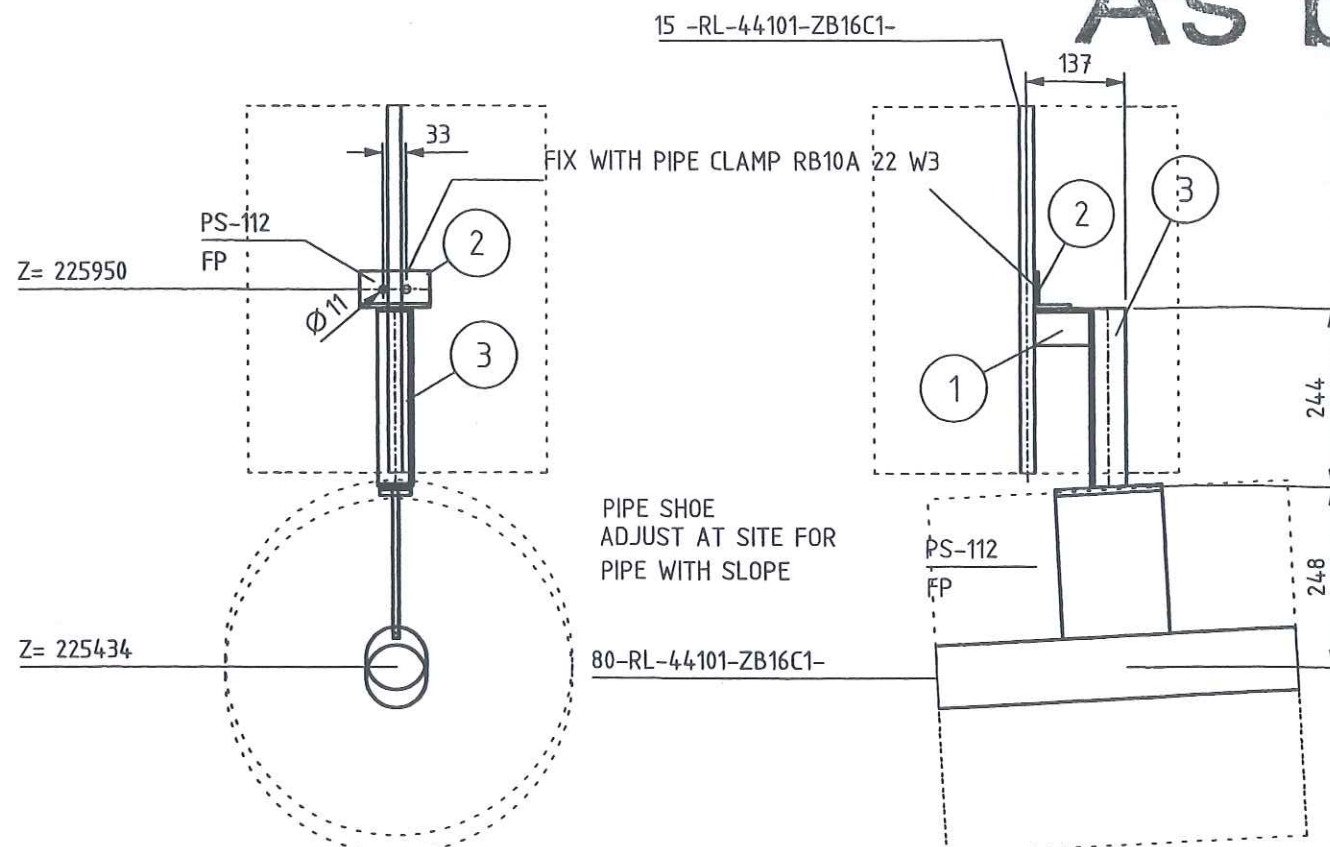
AIR LIQUIDE
Air Liquide AGS GmbH

Replaces: 79_-----
Replaced by: 79_-----

Date: 16-SEP-2005	Name: Lesum / HGH	Checked: 05-09-15	History file:
Job Code: K70101	Reference: ASU No. 9, Kosice	Scale: ---:---	Original format: DIN A3
Title: 80 RL 44101 ZB16C1C 792.8782601	Drawing No.	Sheet: 3	Sheets: 3
			Rev.

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

As built



LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:

- THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

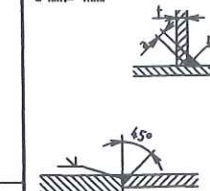
- RESPONSIBILITY OF ERECTION COMPANY
- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF
- CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED
- SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED


WELDING DATA ACC. TO DIN 1912 T.

a $\geq 0,7 \times t$
a min = 4mm



Total Weight:	1.57 kg
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[illegible]

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by 2	5 JUL 2005	Zuf	
Drawn checked by			



AIR LIQUIDETM

Air Liquide AGS GmbH

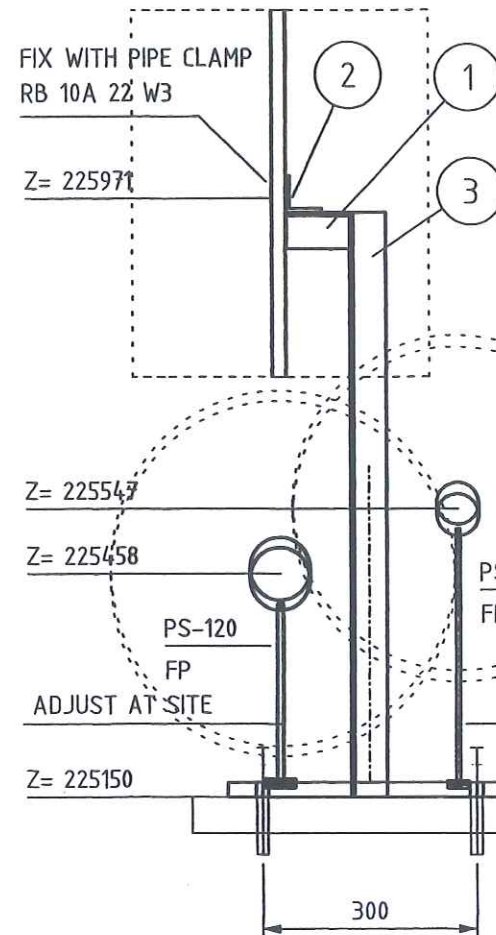
	Date	Name	Check	History File
	09.06.2005	GU	Zut	
	Job Code: K70101 ASU No.9 Kosice Reference: PIPING SUPPORT			Scale: 1:10 Original Format DIN A3
Replaces:	Title PS-112			Sheet: 1 of: Drawing-No. 792.87926

Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

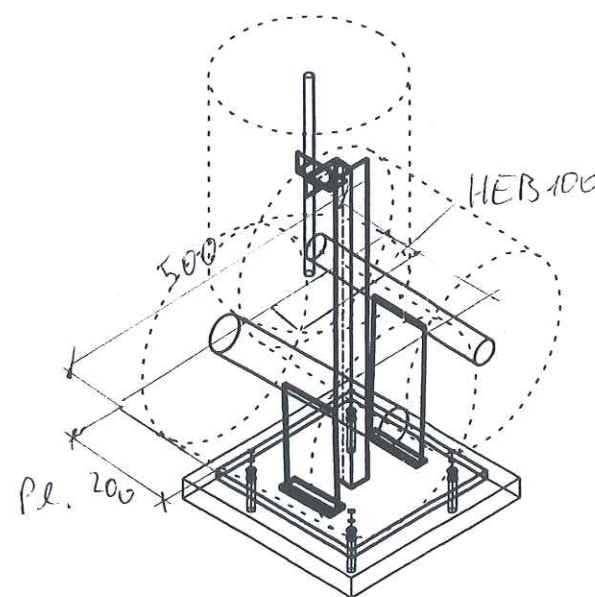
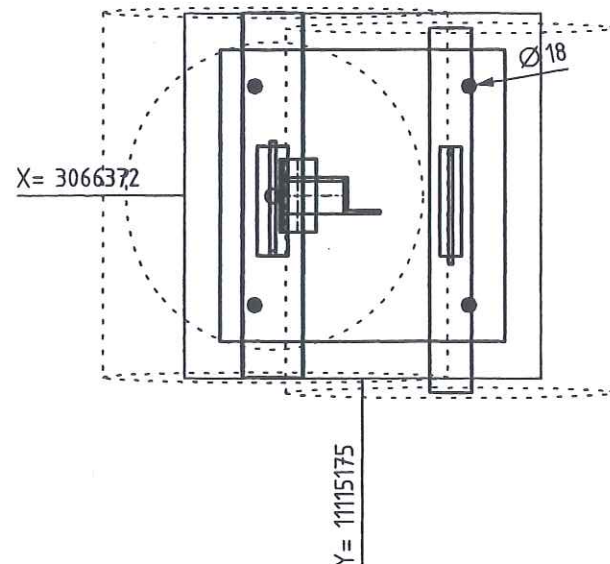
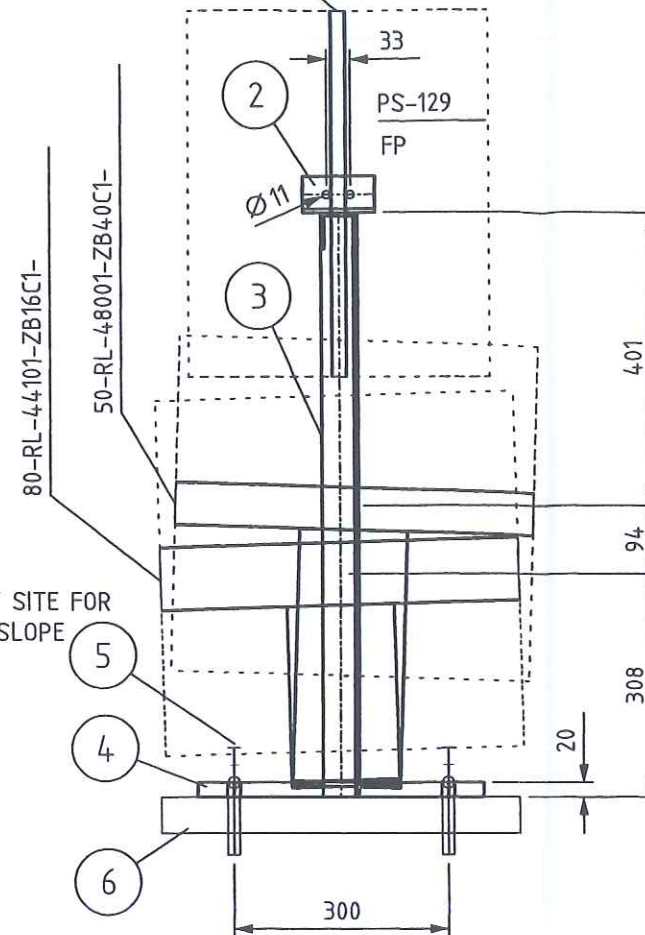
THIS DRAWING AND THE INFORMATION CONTAINED THEREIN MUST NOT BE COPIED OR TRANSFERRED TO THIRD PARTIES WITHOUT PERMISSION OF THE PROPRIETOR.

As built

15-RL-44101-ZB16C1-
80-RL-44101-ZB16C1-



PIPE SHOE
ADJUST AT SITE FOR
PIPE WITH SLOPE



LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:

- THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

RESPONSIBILITY OF ERECTION COMPANY

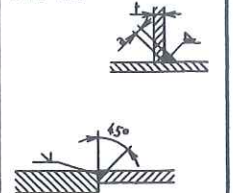
- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

WELDING DATA ACC. TO DIN 1912 TS

a >= 0,7 x t
a min= 4mm



Total Weight: 28.82 kg

Item	No. Off	Unit	Description	Dimension	Material	Weight kg	Remark
1	1	pcs	PROFILE	L50X50X5, L=0.089	RST37-2	0.330	
2	1	pcs	PROFILE	L50X50X5, L=0.100	RST37-2	0.373	
3	1	pcs	PROFILE	L50X50X5, L=0.803	RST37-2	2.993	
4	1	pcs	PLATE 400x400x20	PLATE 20x400x400	RST37-2	25.120	
5	4	pcs	ANCHOR BOLT HST(-R)M16/100	HST(-R) 16-0-M16	1.4401	0.000	1, 2
6	1	pcs	BASE	500x500x50	CONCRETE	0.000	
HEB 100 L=150						3.26	
Plat 500x200x15						12.6	
						45.05	
27. Juli 2005							

Date	Name	Signature
Approved by		
Checked by	Gans	
Checked by	Zut	
Drawn checked by		

HGM
HEGMANN'S

AIR LIQUIDE

Air Liquide AGS GmbH

Date	Name	Check	History File
10.06.2005	GU	Zut	
Job Code:	K70101 ASU No.9 Kosice		
Reference:	PIPING SUPPORT		
Replaces:	Title	PS-120	
Scale:	1:10	Original Format	DIN A3
Sheet:	1 of:	1	
Drawing-No.	792.87926	Rev.	a

Archives	Rev.	Job No.	Description	Sign.	Date
Rev.No.					
REVISIONS					

Price Bill of materials 0 50RL44102ZB16C1 0 50 RL 44102 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		24,00				0,00
IV44238	50	0	V44238 supplied by AGS		1,00				0,00
P0134	50	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 60,3x2	2,92 kg	8,59				0,00
P0287	50	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2	0,35 kg	8,00				0,00
P1034	50	50	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x60,3x2	0,47 kg	1,00				0,00
S0042250	50	0	T-support, 1.4541, TA 120G 61 W3, H2 = 2 1.4 Hesterberg	8,30 kg	3,00				0,00
SC5	50	0	Segment cut 60,3		11,00				0,00
SPS309	0	0	SUPPORT PS-309, U 100, L 2100	22,26 kg	1,00				0,00
SPS336	0	0	SUPPORT PS-336, U 100, L=350	3,71 kg	1,00				0,00
			Summe: 0 50RL44102ZB16C1 0	79,22 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

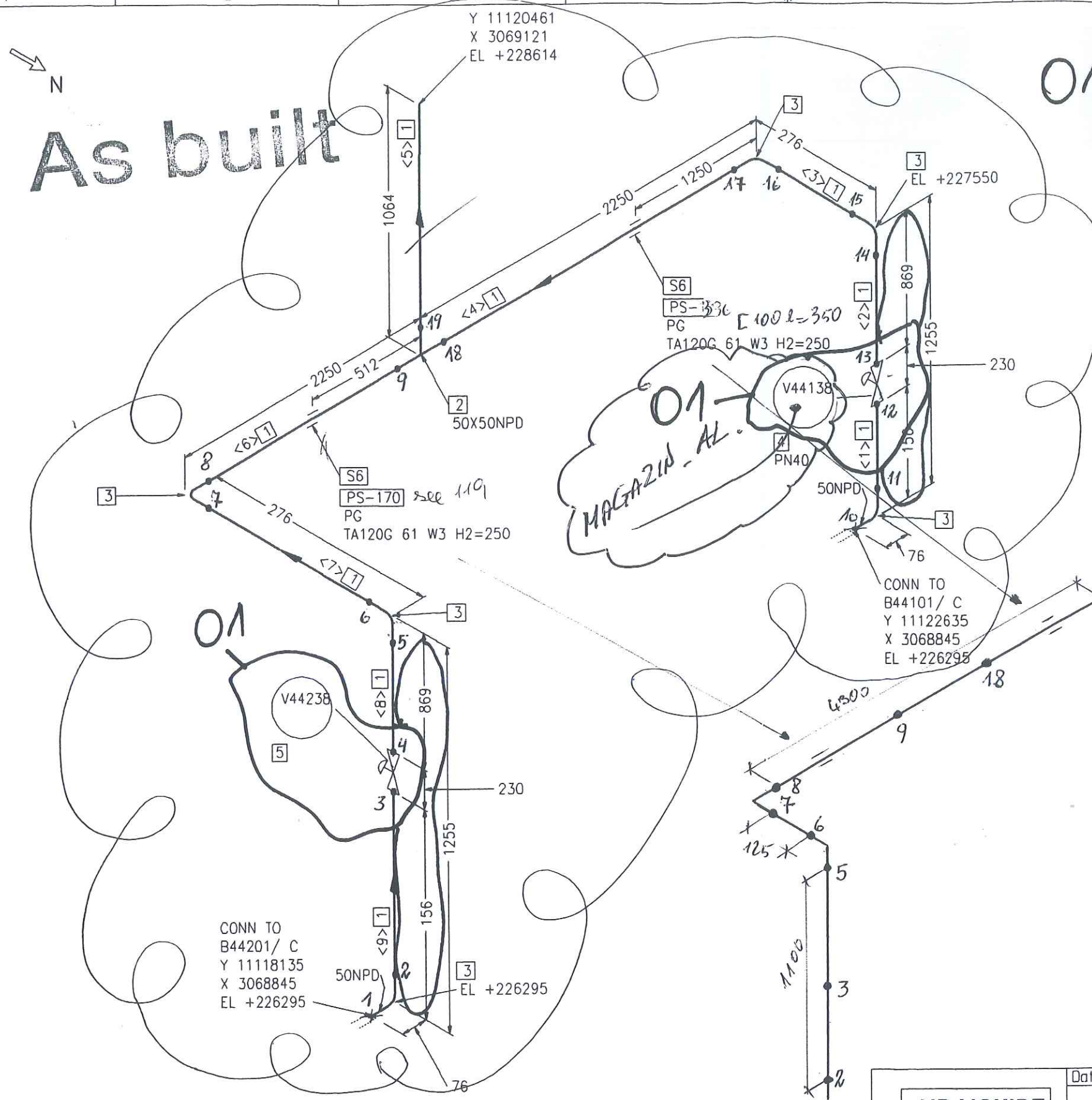
79,22 kg

AS BUILT

	SCHWEISSDOKUMENTATION WELDING DOCUMENTATION		erstellt: <div style="display: flex; align-items: center;"> <div style="text-align: right; margin-right: 10px;">31.01.06</div> <div style="text-align: left;"> Pelzeder Erich Datum / Unterschrift </div> </div>	geprüft <div style="display: flex; align-items: center;"> <div style="text-align: right; margin-right: 10px;">792.87826 - 01</div> <div style="text-align: left;"> Schweißstechnologie VAM Datum / Unterschrift </div> </div>	(Kunde / TÜV, ...)
Jop Code: K70101 ASU No. 9, Kosice Order No.:		Project No.: 9050300			
Client: AIR LIQUIDE Title: 50 RL 44102 Sheet 1		Drawing No.: Maker's No.:			

Seam No.:	Welder No.:	Material	Dimension	Protocol No.:				Remerk
				Wärme-behandlung	RT	UT	MT/PT	
1	V15	1.4541	60,3*2					
2	V4	1.4541	60,3*2					
3	V4	1.4541	60,3*2					
5	V15	1.4541	60,3*2					
6	V15	1.4541	60,3*2					
7	V15	1.4541	60,3*2					
8	V15	1.4541	60,3*2		R0211			
9	V15	1.4541	60,3*2		R0212			
10	V15	1.4541	60,3*2		R0213			
11	V4	1.4541	60,3*2					
12	V4	1.4541	60,3*2					
13	V4	1.4541	60,3*2					
14	V15	1.4541	60,3*2					
15	V15	1.4541	60,3*2					
16	V15	1.4541	60,3*2					
17	V15	1.4541	60,3*2					
18	V15	1.4541	60,3*2		R0214			
19	V4	1.4541	60,3*2					
20	V4	1.4541	60,3*2					
21	V4	1.4541	60,3*2					
22	V4	1.4541	60,3*2					
23	V4	1.4541	60,3*2					
24	V4	1.4541	60,3*2					
25	V4	1.4541	60,3*2					

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	7214	MM 50	PIPE, WELDED 60.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	1	50X50	TEE, WELDED 60.3*2.0/60.3*2.0, 1.4541, DIN 2615-1
3	6	50	ELBOW, WELDED, 1.5D 60.3*2.0-90, B-ART 3,DIN 2605-1
4	1	50	V44138 V44138
5	1	50	V44238 V44238
6	2	50	PIPE GUIDE PSUPPORT

CUT PIPE LENGTH					
PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO
<1>	80	50		BEVEL	BEVEL
<2>	793	50		BEVEL	BEVEL
<3>	124	50		BEVEL	BEVEL
<4>	2110	50		BEVEL	BEVEL
<5>	1000	50		BEVEL	SO.CUT
<6>	2110	50		BEVEL	BEVEL
<7>	124	50		BEVEL	BEVEL
<8>	793	50		BEVEL	BEVEL
<9>	80	50		SO.CUT	BEVEL
					ITEM CODE
					RG1
					RG1
					RG1
					RG1
					RG1
					RG1
					RG1

LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
 - Situation of mounting seams
 - Situation off pass- length
 - Check of measure details and pipe courses on the construction site
 - Situation of the spindle at valve
 - All components for Oxygen use free of oil and grease

SUPPORTS:
 PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

AIR LIQUIDE		Date: 16-SEP-2005	Name: Lesum / HGH	Checked: 05-09-15	History file.
Air Liquide AGS GmbH		Job Code: K70101		Scale: --- : ---	Original format: DIN A3
Replaces: 79_-----		Reference: ASU No. 9, Kosice		Sheet: 1	Sheets: 1
Replaced by: 79_-----		Title: 50 RL 44102 ZB16C1792.8782601		Drawing No.	Rev.

Price Bill of materials 0 25RL44104ZB40C1 0 25 RL 44104 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0002	12	55	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,06 kg	8,00				0,00
B0506	12	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,02 kg	8,00				0,00
G0097	25	0	Flat packings Graphite with CrNi-insert Standard 40002 70x2x35		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		3,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		15,00				0,00
IPV44105	25	0	PV44105		1,00				0,00
IT44104	15	0	T44104		1,00				0,00
IZ44104	20	15	Z44104		1,00				0,00
P0002	12	0	PIPE, SEAMLESS 1.0254	0,28 kg	0,10				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,43				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	4,22				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	5,00				0,00
P1000	25	15	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2x21,3x1,6	0,14 kg	2,00				0,00
P2677	15	0	CAPS 1.4541		1,00				0,00

Price Bill of materials 0 25RL44104ZB40C1 0 25 RL 44104 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P2993	25	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 33,7	1,00 kg	2,00				0,00
PWI32	15	12	PIPE WELD-IN 1.4541		1,00				0,00
S0039250	25	0	T-support, 1.4541, TA 120G 34 W3, H2 = 2 1.4 Hesterberg	7,60 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00
SC3	25	0	Segment cut 33,7		8,00				0,00
SCP01	15	0	PIPE CLAMP, RB10A 22 W3 HESTERBERG 21,3		1,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		1,00				0,00
SPG01	0	0	PIPE GUIDE 1.0 HESTERBERG		1,00				0,00
SPS314	0	0	SUPPORT PS-314 L 50, L=200	0,75 kg	1,00				0,00
SPS315	0	0	SUPPORT PS-315, U 100, L=400	4,24 kg	1,00				0,00
SPS316	0	0	SUPPORT PS-316, U 100, L=200	2,12 kg	1,00				0,00
XZB04	50	15	welding nozzle for thermowell, drawing N 1.4541 22		1,00				0,00
Summe: 0 25RL44104ZB40C1 0				25,12 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

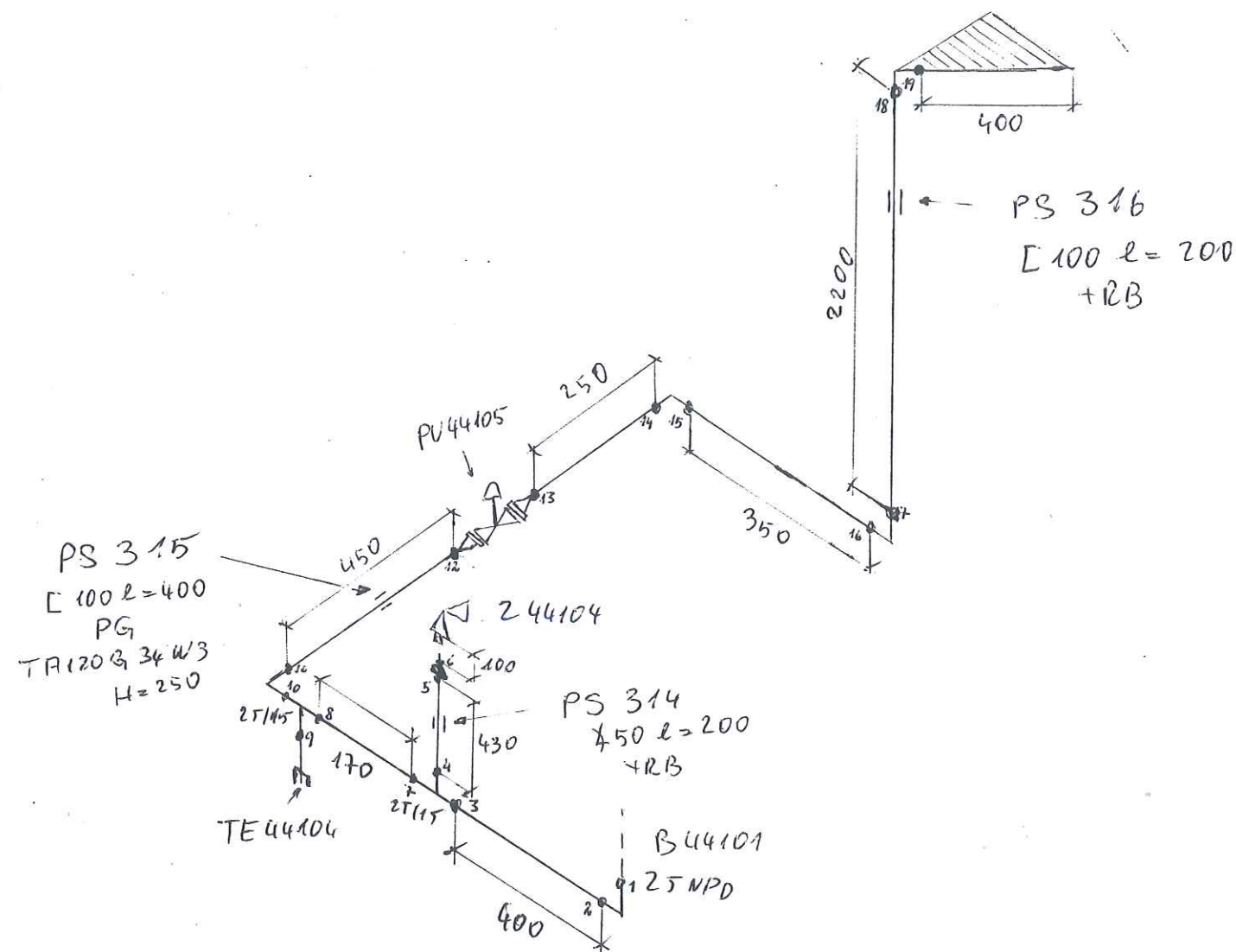
AS DULT

01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Price Bill of materials 0 25RL44104ZB40C1 0 25 RL 44104 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
Grand Total:									
Total Weight:				25,12 kg					
** End of List									

As built



LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				



Air Liquide AGS GmbH

Replaces: 79-
Replaced by: 79-

Date:	Name:	Checked:	History file:
23-JUN-2005	Lesum / HGH	05-07-11	
Job Code: K70101	Scale	Original format	
Reference: ASU No. 9, Kosice	Sheet:	Sheets:	
Title:	Drawing No:	Rev.	
25 RL 44 10 11 2B40C1	792.8782600		

Price Bill of materials 0 80RL44201ZB16C1 0 80 RL 44201 ZB16C1 Revision:

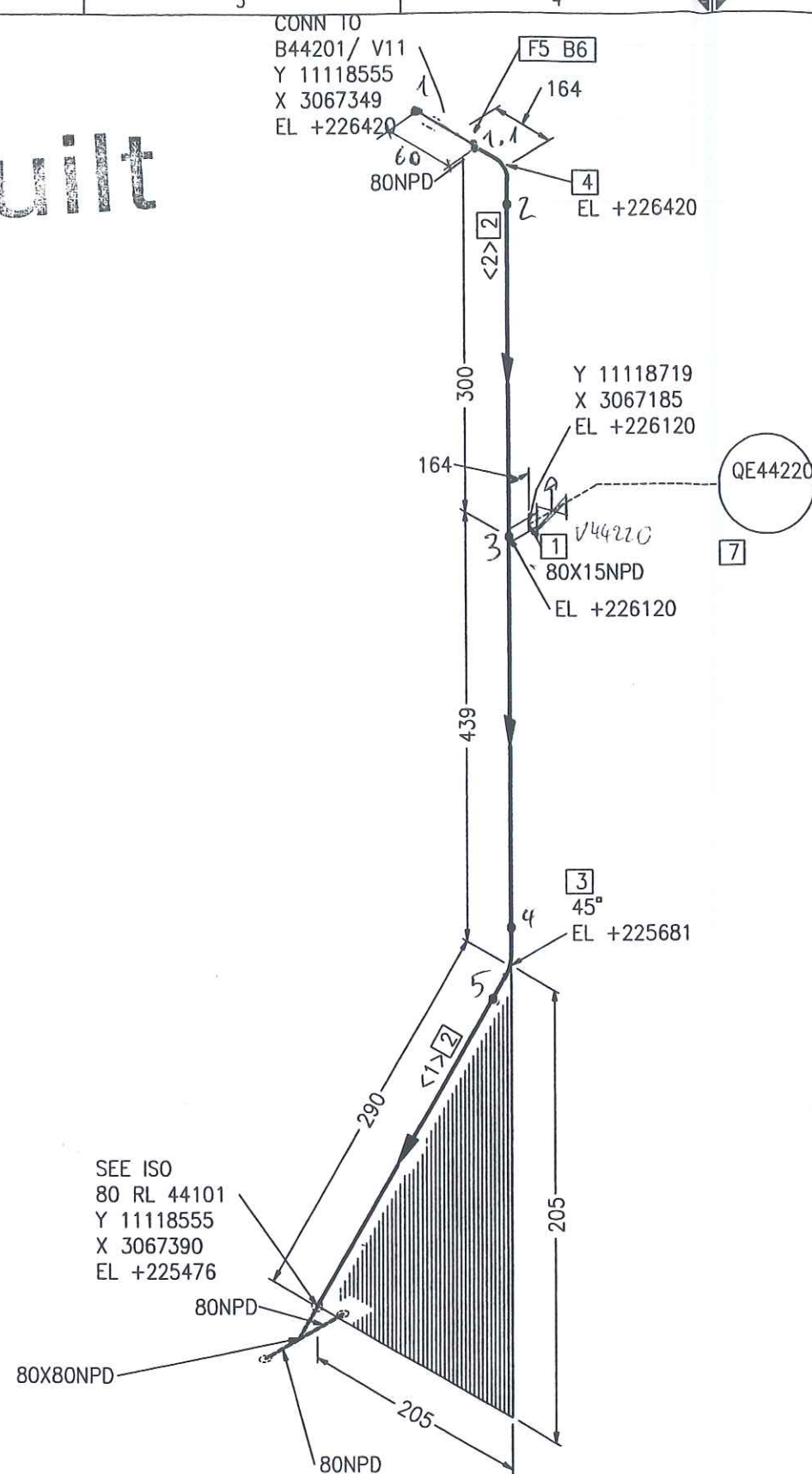
Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
GW15	80	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 88,9x2,3		5,00				0,00
IQE44220	15	0	QE44220 supplied by AGS		1,00				0,00
IV44220	15	0	V44220		1,00				0,00
P0136	80	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 88,9x2,3	4,98 kg	1,00				0,00
P0289	80	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 88,9x2,3	0,89 kg	2,00				0,00
PW12	80	15	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 88,9x2,3x21,3x1,6		1,00				0,00
SC6	80	0	Segment cut 88,9		5,00				0,00
XZB03	80	15	welding nozzle for sample line, drawing 1.4541 22		1,00				0,00
Summe: 0 80RL44201ZB16C1 0				6,76 kg		0,00	0,00		0,00

Total Delivery:
Total Mounting:
Grand Total:
Total Weight:
** End of List

6,76 kg

AGS BOLLT

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1	80X15	WELDING NOZZLE FOR SAMPLE LINE, DRAWING NO. 792.55981
2	821-MM	80	PIPE, WELDED 88.9 * 2.3 , 1.4541, DIN EN ISO 1127
3	1	80	ELBOW, WELDED, 1,5D 88.9*2.3-45, B-ART 3,DIN 2605-1
4	1	80	ELBOW, WELDED, 1,5D 88.9*2.3-90, B-ART 3,DIN 2605-1
5	1	80	WELDING-NECK-FLANGE PN16, 1.4541, DIN EN 1092-1
6	8	16	HEXAGON HEAD BOLT A2-70 WITH NUT A2-70, 65.0MM LANG
7	1	15	QE44220 QE44220

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	243	80		BEVEL	BEVEL	RG1
<2>	578	80		BEVEL	BEVEL	RG1



LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
 - Situation of mounting seams
 - Situation off pass- length
 - Check of measure details and pipe courses on the construction site
 - Situation of the spindle at valve
 - All components for Oxygen use free of oil and grease

SUPPORTS:
 PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				

AIR LIQUIDE Air Liquide AGS GmbH	Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
	Job Code: K70101		Scale: ---:---	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1		Sheets: 1
Title: 80 RL 44201 ZB16C1C		Drawing No: 792.8782600		Rev.

Price Bill of materials 0 50RL44203ZB40C1 0 50 RL 44203 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0108	16	60	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,12 kg	12,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	12,00				0,00
G0099	40	0	Flat packings Graphite with CrNi-insert Standard 40002 92x2x49		3,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		7,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		13,00				0,00
GW8	40	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 48,3x2		4,00				0,00
I44057H1	15	0	44057H1 supplied by AGS		1,00				0,00
IC01	40	0	COMPENSATOR		1,00				0,00
IH44058	15	0	H44058 supplied by AGS		1,00				0,00
PI44057	15	0	PI44057 supplied by AGS		1,00				0,00
IR44057	50	0	R44057 supplied by AGS		1,00				0,00
IV44033	50	0	V44033 supplied by AGS		1,00				0,00
IZ44063	20	0	Z44063		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	2,40				0,00

Price Bill of materials 0 50RL44203ZB40C1 0 50 RL 44203 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P0134	50	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 60,3x2	2,92 kg	2,90				0,00
P0150	12	0	PIPE, SEAMLESS, ERMETO 1.4541	0,28 kg	0,10				0,00
P0282	15	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 21,3x1,6	0,03 kg	2,00				0,00
P0286	40	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 48,3x2	0,21 kg	1,00				0,00
P0287	50	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2	0,35 kg	3,00				0,00
P1035	50	50	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2,9x60,3x2,9	0,68 kg	1,00				0,00
P1743	50	40	Reducer, concentric, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x48,3x2	0,20 kg	1,00				0,00
P2677	15	0	CAPS 1.4541		1,00				0,00
P2995	40	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 48,3	2,00 kg	3,00				0,00
PW11	50	15	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 60,3x2x21,3x1,6		3,00				0,00
PW132	15	12	PIPE WELD-IN 1.4541		1,00				0,00

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Price Bill of materials 0 50RL44203ZB40C1 0 50 RL 44203 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
S0030	50	0	T-support, 1.4541, TA 120B 61 W3 1.4 Hesterberg 61	3,90 kg	1,00				0,00
S0042250	50	0	T-support, 1.4541, TA 120G 61 W3, H2 = 2 1.4 Hesterberg	8,30 kg	2,00				0,00
S0042365	50	0	T-support, 1.4541, TA 120G 61 W3, H2 = 3 1.4 Hesterberg	8,30 kg	1,00				0,00
S0161	15	0	Pipe clamp, RB10A 22 W3 1.4 Hesterberg 22	0,10 kg	3,00				0,00
SC1	15	0	Segment cut 21,3		5,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00
SC4	40	0	Segment cut 48,3		1,00				0,00
SC5	50	0	Segment cut 60,3		6,00				0,00
SPS118	0	0	SUPPORT PS-118	23,33 kg	1,00				0,00
SPS119	0	0	SUPPORT PS-119	174,20 kg	1,00				0,00
SPS313	0	0	SUPPORT PS-313	1,69 kg	1,00				0,00
XZB02	50	15	welding nozzle for pressure gauge, drawi 1.4541 22		1,00				0,00
XZB22	15	0	THREAD END 1.4541		2,00				0,00
Summe: 0 50RL44203ZB40C1 0				248,71 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

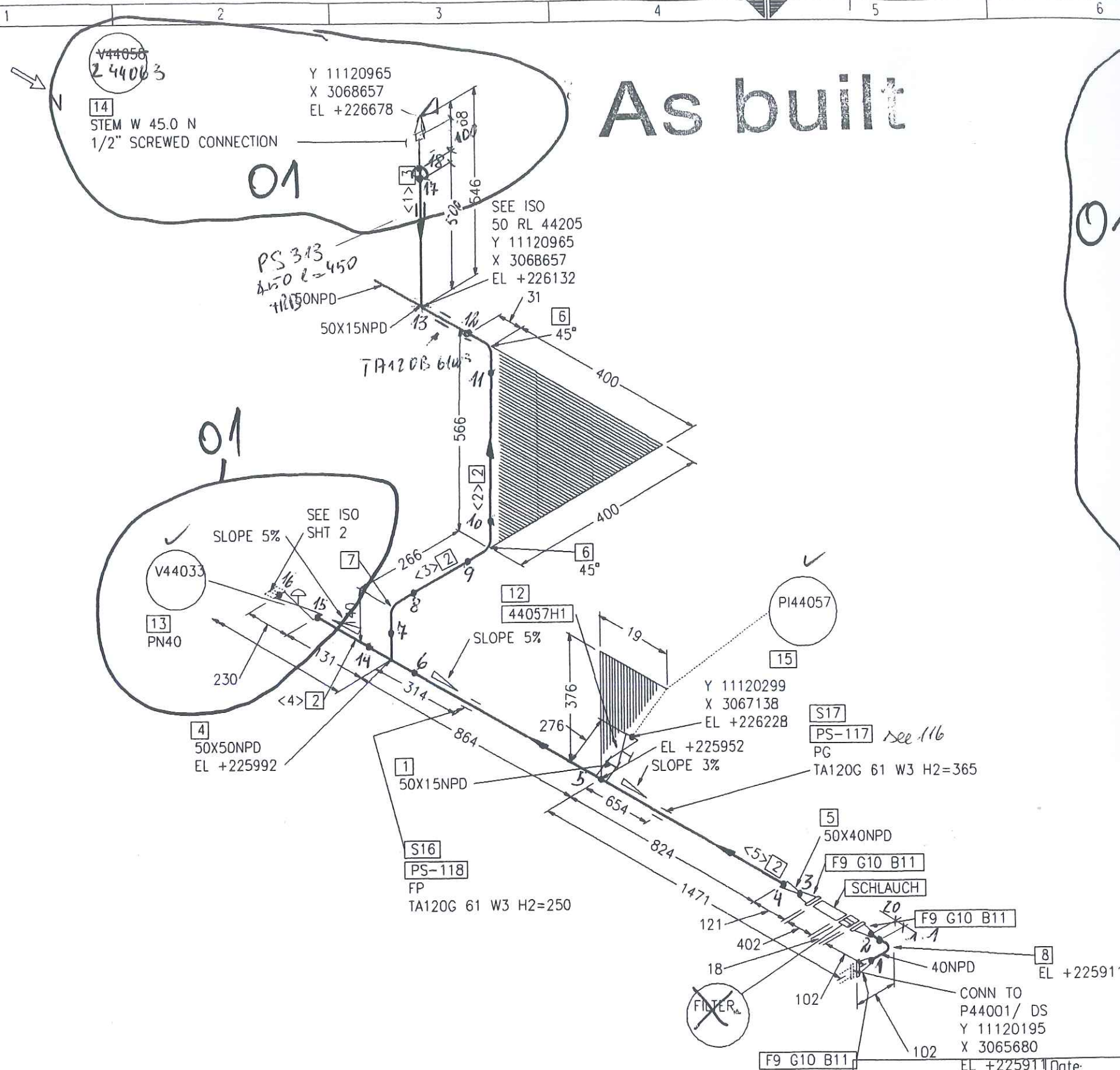
AS BUILT

Price Bill of materials 0 50RL44203ZB40C1 0 50 RL 44203 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
Grand Total:									
Total Weight:				248,71 kg					
** End of List									

AS DUELT

As built



Part No.	Qty	NPD [Size]	Component Description
1	1	50X15	WELDING NOZZLE FOR PRESSURE GAUGE, DRAWING NO. 792.55981
2	2352 MM	50	PIPE, WELDED 60.3 * 2.0 , 1.4541, DIN EN ISO 1127
3	450 MM	15	PIPE, WELDED 21.3 * 1.6 , 1.4541, DIN EN ISO 1127
4	1	50X50	TEE, WELDED 60.3*2.9/60.3*2.9, 1.4541, DIN 2615-1
5	1	50X40	REDUCER, CONCENTRIC, WELDED 60.3*2.0/48.3*2.0, 1.4541, DIN 2616-1
6	2	50	ELBOW, WELDED, 1.5D 60.3*2.0-45, B-ART 3,DIN 2605-1
7	1	50	ELBOW, WELDED, 1.5D 60.3*2.0-90, B-ART 3,DIN 2605-1
8	1	40	ELBOW, WELDED, 1.5D 48.3*2.0-90, B-ART 3,DIN 2605-1
9	3	40	WELDING-NECK-FLANGE PN40, 1.4541, DIN EN 1092-1
10	3	40	FLAT GASKET
11	12	16	HEXAGON HEAD BOLT A2-70 WITH NUT A2-70, 60.0MM LANG
12	1	15	44057H1
13	1	50	V44033 V44033
14	1	15	ERROR READING SPECIALTY MATERIAL DESCRIPTION LIBRARY V44058
15	1	15	PI44057 PI44057
16	1	50	FIX POINT PSUPPORT
17	1	50	PIPE GUIDE PSUPPORT

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	450	15		SHAPED	BEVEL	RG1
<2>	503	50		BEVEL	BEVEL	RG1
<3>	158	50		BEVEL	BEVEL	RG1
<4>	67	50		BEVEL	BEVEL	RG1
<5>	1624	50		BEVEL	BEVEL	RG1

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE

PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

AIR LIQUIDE

Air Liquide AGS GmbH

Replaces: 79_-----

Replaced by: 79_-----

Date:	Name:	Checked:	History file:
16-SEP-2005	Lesum / HGH	05-09-15	
Job Code: K70101		Scale: ---	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1	Sheets: 2
Title:		Drawing No.	Rev.
50 RL 44203 ZB40C1C		792.87826	01

LEVELS:

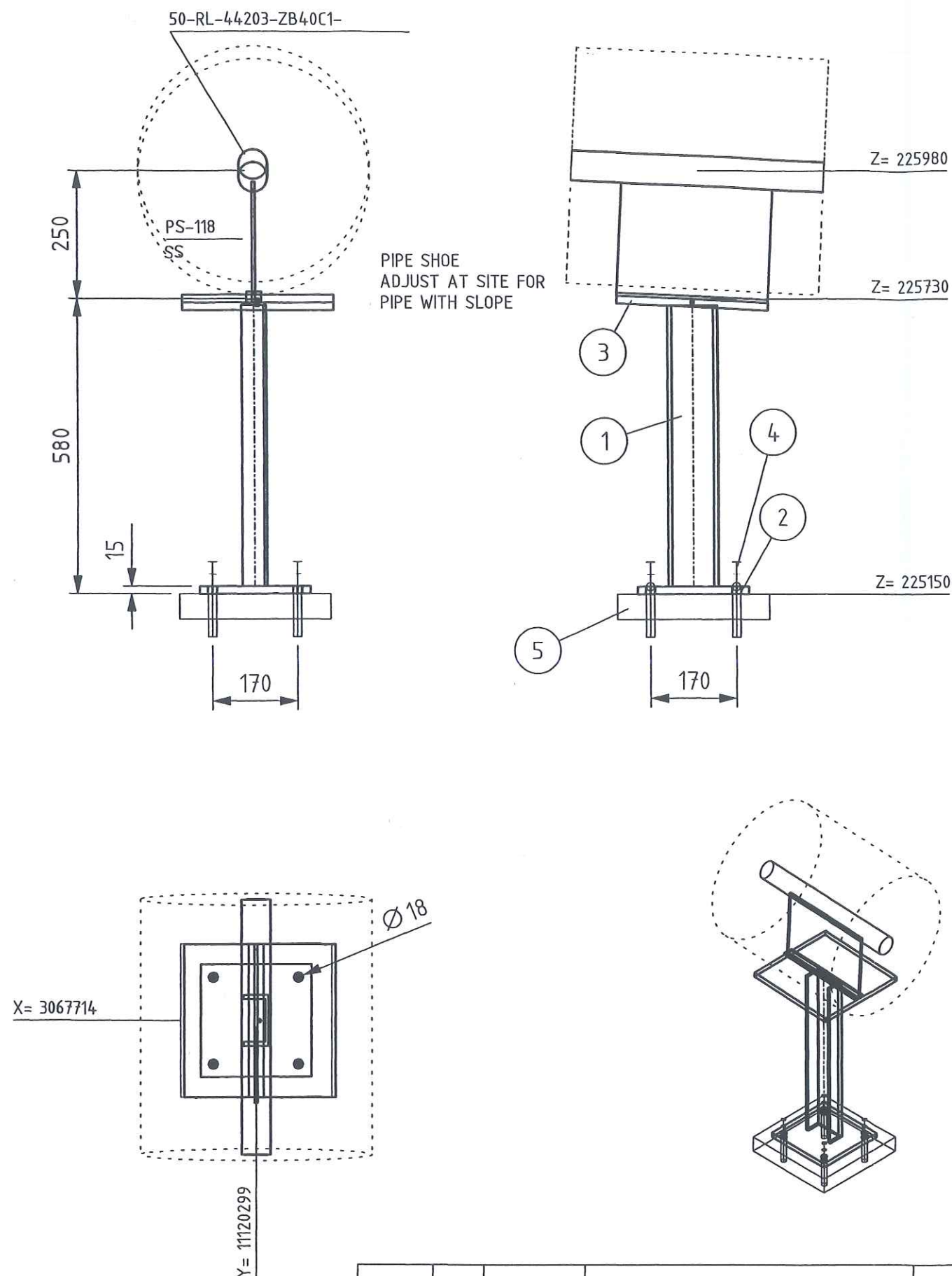
TOP OF INTERNAL ROADS: 225.00m n.m.

TOP OF FOUNDATION: 225.10m

BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

THIS DRAWING AND THE INFORMATION CONTAINED THEREIN MUST NOT BE COPIED OR TRANSFERRED TO THIRD PARTIES WITHOUT PERMISSION OF THE PROPRIETER.

As built



LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:

- THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

RESPONSIBILITY OF ERECTION COMPANY

- LOCATION OF FIELD WELDS
- FITTING LENGHTS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

WELDING DATA ACC. TO DIN 1912 TS

a >= 0,7 x t
a min= 4mm



Total Weight: 22.14 kg

Item	No. Off	Unit	Description	Dimension	Material	Weight kg	Remark
1	1	pcs	PROFILE	U100, L=0.552	RST37-2	5.846	
2	1	pcs	PLATE 220x220x15	PLATE 15x220x220	RST37-2	5.699	
3	1	pcs	PLATE 300x300x15	PLATE 15x300x300	RST37-2	10.598	
4	4	pcs	ANCHOR BOLT HST(-R)M16/100	HST(-R) 16-0-M16	1.4401	0.000	1,2
5	1	pcs	BASE	300x300x50	CONCRETE	0.000	23,33

Approved by	Date	Name	Signature
Checked by		Gans	
Checked by	2. 5. JUL. 2005	Zut	
Drawn checked by			

HGM
HEGMANN

AIR LIQUIDE

Air Liquide AGS GmbH

Date	Name	Check	History File
10.06.2005	GU	Zut	
Job Code:	K70101 ASU No.9 Kosice		
Reference:	PIPING SUPPORT		
Replaces:	Title PS-118		
Scale:	1:10	Original Format	DIN A3
Sheet:	1 of:	1	
Drawing-No.	792.87926	Rev.	a

Archives	Rev.	Job No.	Description	Sign.	Date
Rev. No.					
R E V I S I O N S					

As built



Y 11120299
X 3069033
EL +225944

F4

S8
PS-119
FP
RB10A 22 W3

S8
PS-119
FP
RB10A 22 W3

S7
PS-119
PG

50X15NPD
EL +225961

Y 11120665
X 3068700
EL +225250

5
PN40

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

Date: 16-SEP-2005		Name: Lesum / HGH		Checked: 05-09-15		History file.	
Job Code: K70101				Scale: ---:---		Original format: DIN A3	
Reference: ASU No. 9, Kosice				Sheet: 2		Sheets: 2	
Title: 50 RL 44203 ZB40C1C 792.8782601				Drawing No.		Rev.	

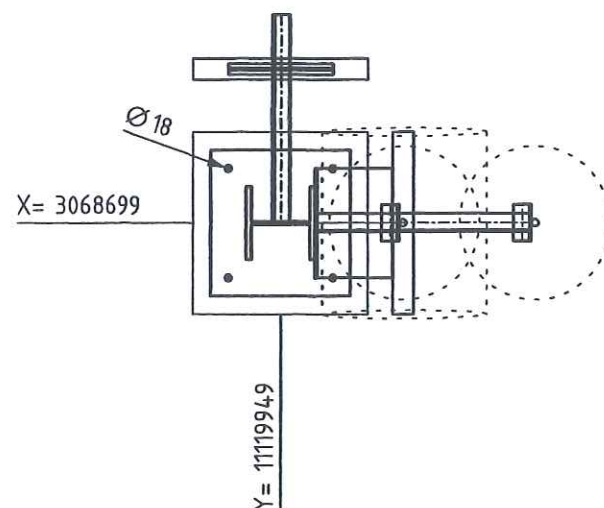
LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

Part No	Qty [PCS/MM]	NPD [Size]	Component Description
1	380 MM	50	PIPE, WELDED 60.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	1989 MM	15	PIPE, WELDED 21.3 * 1.6 , 1.4541, DIN EN ISO 1127
3	2	15	ELBOW, WELDED, 1,5D 21.3*1.6-90, B-ART 3,DIN 2605-1
4	1	50	WELDING-NECK-FLANGE PN40, 1.4541, DIN EN 1092-1
5	1	50	R44057 R44057
6	1	15	H44058 H44058
7	1	50	PIPE GUIDE PSUPPORT
8	2	15	FIX POINT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	504	15		SHAPED	BEVEL	RG1
<2>	100	15		BEVEL	BEVEL	RG1
<3>	142	15		BEVEL	BEVEL	RG1
<4>	1243	15		BEVEL	SO.CUT	RG1
<5>	380	50		SO.CUT	BEVEL	RG1

As built



Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

	Date	Name	Check.	History File	
	10.06.2005	GU	Zuf		
	Job Code:	K70101 ASU No.9 Kosice			Scale: 1:20
	Reference:	PIPING SUPPORT			Original Format DIN A3
					Sheet: 1 of:
Replaces:	Title	PS-119			Drawing-No. 792.87926

Price Bill of materials 0 25RL44204ZB40C1 0 25 RL 44204 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0101	12	55	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	8,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	8,00				0,00
G0097	25	0	Flat packings Graphite with CrNi-insert Standard 40002 70x2x35		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		3,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		15,00				0,00
IPV44205	25	0	PV44205		1,00				0,00
IT44204	15	0	T44204		1,00				0,00
IZ44205	20	15	Z44205		1,00				0,00
P0002	12	0	PIPE, SEAMLESS 1.0254	0,28 kg	0,10				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,40				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	4,32				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	5,00				0,00
P1000	25	15	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2x21,3x1,6	0,14 kg	2,00				0,00
P2677	15	0	CAPS 1.4541		1,00				0,00

Price Bill of materials 0 25RL44204ZB40C1 0 25 RL 44204 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P2993	25	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 33,7	1,00 kg	2,00				0,00
PWI32	15	12	PIPE WELD-IN 1.4541		1,00				0,00
S0039250	25	0	T-support, 1.4541, TA 120G 34 W3, H2 = 2 1.4 Hesterberg	7,60 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00
SC3	25	0	Segment cut 33,7		8,00				0,00
SCP01	15	0	PIPE CLAMP, RB10A 22 W3 HESTERBERG 21,3		1,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		1,00				0,00
SPG01	0	0	PIPE GUIDE 1.0 HESTERBERG		1,00				0,00
SPS317	0	0	SUPPORT PS-317, L 50, L=200	0,75 kg	1,00				0,00
SPS318	0	0	SUPPORT PS-318, U 100, L=400	4,24 kg	1,00				0,00
SPS319	0	0	SUPPORT PS-319, U 80, L=700	6,04 kg	1,00				0,00
XZB04	50	15	welding nozzle for thermowell, drawing N 1.4541 22		1,00				0,00
Summe: 0 25RL44204ZB40C1 0				29,17 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

ACCEPTE

Price Bill of materials 0 25RL44204ZB40C1 0 25 RL 44204 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
Grand Total:									
Total Weight:				29,17 kg					
** End of List									



Prot Nr.

Jop Code:	K70101 ASU No. 9, Kosice	Order No.:
------------------	---------------------------------	-------------------

Client: AIR LIQUIDE

Title: 25 RL 44204

Sheet 1

Drawing No.:

Maker's No.:

(Kunde / TÜV, ...)

geprüft

erstellt:

14.02.06 Polzeder Erich
Datum / Unterschrift

Schweisstechnologie VAM

Datum / Unterschrift

Job Code: K70101 ASU No. 9, Kosice Order No.:

Project No.: 9050300

Client: AIR LIQUIDE

Title: 25 RL 44204

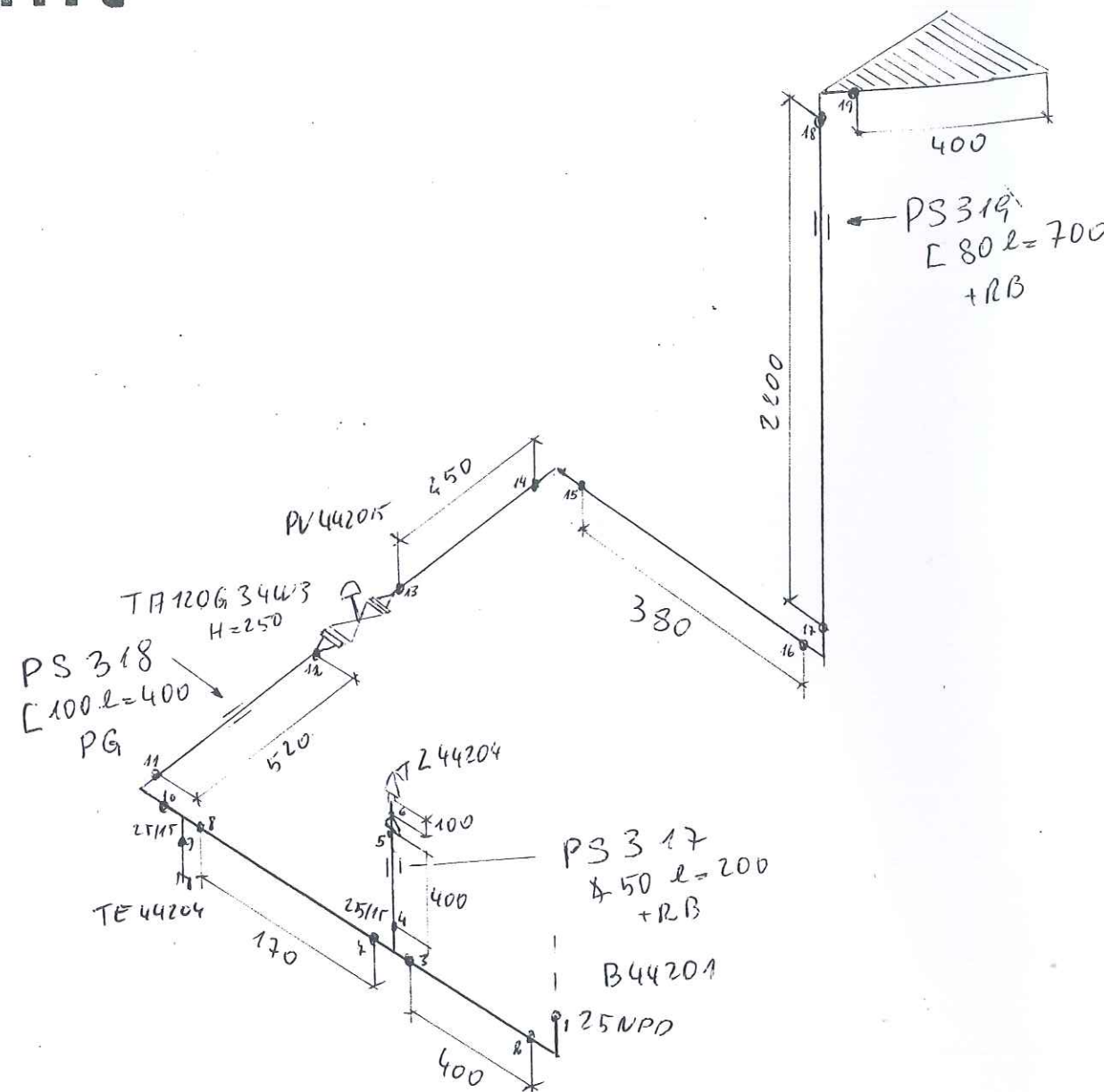
Sheet 1

Drawing No.:

Maker's No.:

[illegible]

As built



LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ± 0.00

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting soams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

Rev.	Revisions	Date	Name	checked
1				
2				
3				
4				
5				

 Air Liquide AGS GmbH	Date:	Name:	Checked:	History file:
	23-JUN-2005	Lesum / HGH	05-07-11	
Job Code: K70101		Scale:		Original format:
Reference: ASU No. 9, Kosice		Sheet:		Sheets:
Title:		Drawing No:		Rev.
25. RL 44204.2B40C1		792.87826		00

Price Bill of materials 0 50RL44205ZB16C1 0 50 RL 44205 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		1,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		10,00				0,00
IV44004	50	0	V44004 supplied by AGS		1,00				0,00
IZ.....	20	15	Z..... supplied by AGS 15		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,50				0,00
P0134	50	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 60,3x2	2,92 kg	1,10				0,00
P0150	12	0	PIPE, SEAMLESS, ERMETO 1.4541	0,28 kg	0,06				0,00
P0287	50	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2	0,35 kg	4,00				0,00
P2677	15	0	CAPS 1.4541		1,00				0,00
PW11	50	15	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 60,3x2x21,3x1,6		1,00				0,00
PW132	15	12	PIPE WELD-IN 1.4541		1,00				0,00
S0161	15	0	Pipe clamp, RB10A 22 W3 1.4 Hesterberg 22	0,10 kg	1,00				0,00

Price Bill of materials 0 50RL44205ZB16C1 0 50 RL 44205 ZB16C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SC1	15	0	Segment cut 21,3		1,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00
SC5	50	0	Segment cut 60,3		7,00				0,00
SPS127	0	0	SUPPORT PS-127	2,07 kg	1,00				0,00
Summe: 0 50RL44205ZB16C1 0				7,19 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

7,19 kg

AS BUILT



Jop Code:	K70101 ASU No. 9, Kosice	Order No.:
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Title: 50 RL 44205

Drawing No.:

792.87826 - 01

Maker's No.:

(Kunde / TÜV, ...)

geprüft

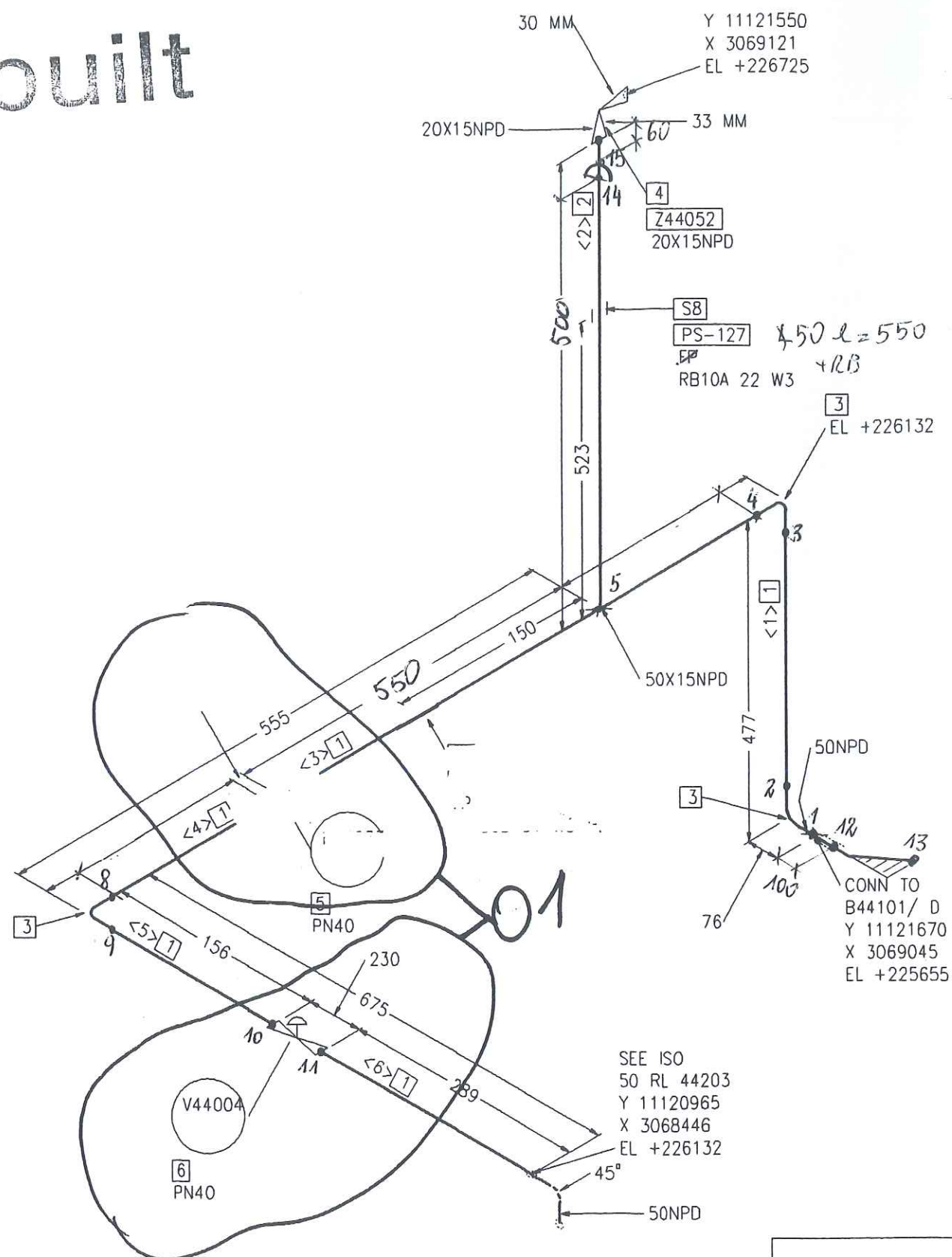
04.03.06 DL Pelzeder Erich
Datum / Unterschrift

Schweisstechnologie VAM
Datum / Unterschrift

Datum / Unterschrift

[illegible]

As built



01

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1017 MM	50	PIPE, WELDED 60.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	532 MM	15	PIPE, WELDED 21.3 * 1.6 , 1.4541, DIN EN ISO 1127
3	3	50	ELBOW, WELDED, 1.5D 60.3*2.0-90, B-ART 3,DIN 2605-1
4	1	20X15	Z44052
5	1	50	ERROR READING SPECIALTY MATERIAL DESCRIPTION LIBRARY R44033
6	1	50	V44004 V44004
7	1	50	FIX POINT PSUPPORT
8	1	15	FIX POINT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	325	50		BEVEL	BEVEL	RG1
<2>	532	15		SHAPED	BEVEL	RG1
<3>	243	50		BEVEL	SO.CUT	RG1
<4>	80	50		SO.CUT	BEVEL	RG1
<5>	80	50		BEVEL	BEVEL	RG1
<6>	289	50		BEVEL	BEVEL	RG1

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE

PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT



Air Liquide AGS GmbH

Date:	16-SEP-2005	Name:	Lesum / HGH	Checked:	05-09-15	History file:	
Job Code:	K70101	Reference:	ASU No. 9. Kosice	Scale:	1	Original format:	DIN A3
Title:	50 RL 44205 ZB16C1C	Replaces:	79_-----	Replaced by:	79_-----	Sheet:	1
						Sheets:	1
						Drawing No.	792.8782601
						Rev.	

LEVELS:

TOP OF INTERNAL ROADS: 225.00m n.m.

TOP OF FOUNDATION: 225.10m

BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

As built

15-RL-44205-ZB16C1-

248

250

Z= 226132

PS-127
FP

114

550

1

100

33

Ø12

FIX WITH PIPE CLAMP
RB10A 22 W3

50-RL-44205-ZB16C1-

[illegible]

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	5. JUL 2015	Zut	
Drawn checked by			



AIR LIQUIDE

Air Liquide AGS GmbH

Date	Name	Check.	History File
17.06.2005	SWA	Zut	

Job Code: K70101 ASU No.9 Kosice
Reference: PIPING SUPPORT

Scale:	1:10	Original Format
		DIN A3

Sheet: 1 of:

Drawing-No.	Rev
792.87926	a

Replaces:	Title	PS-127
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Archives Rev. No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

Price Bill of materials 0 50RL48001ZB40C1 0 50 RL 48001 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0108	16	60	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,12 kg	4,00				0,00
B0109	16	65	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,13 kg	16,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	20,00				0,00
G0099	40	0	Flat packings Graphite with CrNi-insert Standard 40002 92x2x49		3,00				0,00
G0100	50	0	Flat packings Graphite with CrNi-insert Standard 40002 107x2x61		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		1,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		16,00				0,00
GW8	40	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 48,3x2		4,00				0,00
IC01	40	0	COMPENSATOR		1,00				0,00
IHV48050	50	0	HV48050 supplied by AGS		1,00				0,00
IP48050	15	0	P48050 supplied by AGS		1,00				0,00
IR48052	50	0	R48052 supplied by AGS		1,00				0,00
IT48050	15	0	T48050 supplied by AGS		1,00				0,00
IV48050	15	0	V48050 supplied by AGS		1,00				0,00

Price Bill of materials 0 50RL48001ZB40C1 0 50 RL 48001 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
IZ48050	20	15	Z48050 supplied by AGS 15		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,50				0,00
P0133	40	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 48,3x2	2,31 kg	0,15				0,00
P0134	50	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 60,3x2	2,92 kg	6,90				0,00
P0150	12	0	PIPE, SEAMLESS, ERMETO 1.4541	0,28 kg	0,06				0,00
P0286	40	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 48,3x2	0,21 kg	1,00				0,00
P0287	50	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2	0,35 kg	4,00				0,00
P1035	50	50	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2,9x60,3x2,9	0,68 kg	1,00				0,00
P1743	50	40	Reducer, concentric, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x48,3x2	0,20 kg	1,00				0,00
P2677	15	0	CAPS 1.4541		1,00				0,00
P2995	40	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 48,3	2,00 kg	3,00				0,00

Price Bill of materials 0 50RL48001ZB40C1 0 50 RL 48001 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P2997	50	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 60,3	3,00 kg	2,00				0,00
PW11	50	15	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 60,3x2x21,3x1,6		3,00				0,00
PW132	15	12	PIPE WELD-IN 1.4541		1,00				0,00
S0030250	50	0	T-support, 1.4541, TA 120B 61 W3, H2 = 2 1.4 Hesterberg	3,90 kg	1,00				0,00
S0030383	50	0	T-support, 1.4541, TA 120B 61 W3, H2 = 3 1.4 Hesterberg	3,90 kg	1,00				0,00
S0042250	50	0	T-support, 1.4541, TA 120G 61 W3, H2 = 2 1.4 Hesterberg	8,30 kg	2,00				0,00
S0161	15	0	Pipe clamp, RB10A 22 W3 1.4 Hesterberg 22	0,10 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00
SC4	40	0	Segment cut 48,3		1,00				0,00
SC5	50	0	Segment cut 60,3		8,00				0,00
SPS125	0	0	SUPPORT PS-125	20,48 kg	1,00				0,00
SPS126	0	0	SUPPORT PS-126	19,49 kg	1,00				0,00
SPS128	0	0	SUPPORT PS-128	1,96 kg	1,00				0,00
XZB02	50	15	welding nozzle for pressure gauge, drawi 1.4541 22		1,00				0,00

Price Bill of materials 0 50RL48001ZB40C1 0 50 RL 48001 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
XZB04	50	15	welding nozzle for thermowell, drawing N 1.4541 22		1,00				0,00
Summe: 0 50RL48001ZB40C1 0				104,99 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

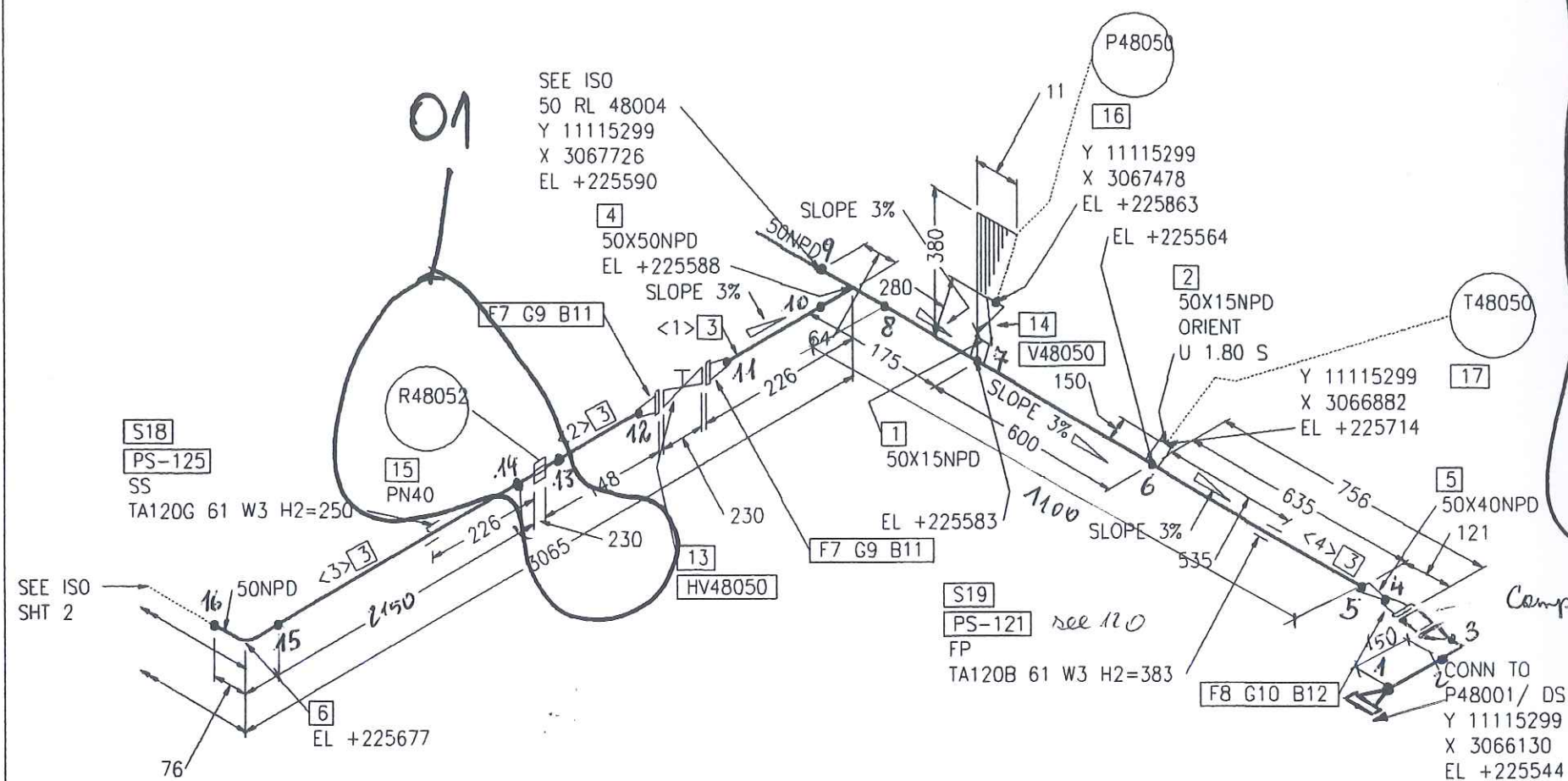
Grand Total:

Total Weight:

** End of List

104,99 kg

AS BUILT



Compensat

CUT PIPE LENGTH						
PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	114	50		BEVEL	BEVEL	RG1
<2>	100	50		BEVEL	SQ.CUT	RG1
<3>	2151	50		SQ.CUT	BEVEL	RG1
<4>	1346	50		BEVEL	BEVEL	RG1

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ± 0.00

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT
WITH SUBSTRUCTURE

PB-(NO.) - PIPE SUPPORT
ON THE PIPIBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

01	General Rev	15.09.2005	Les	Zul
Rev	Revisions	Date	Name	checker

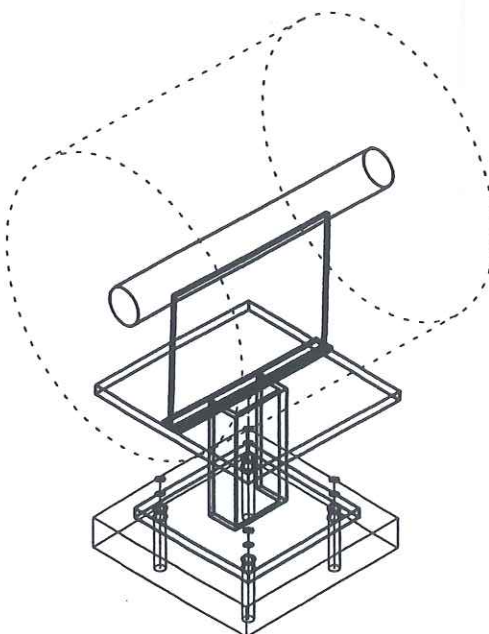
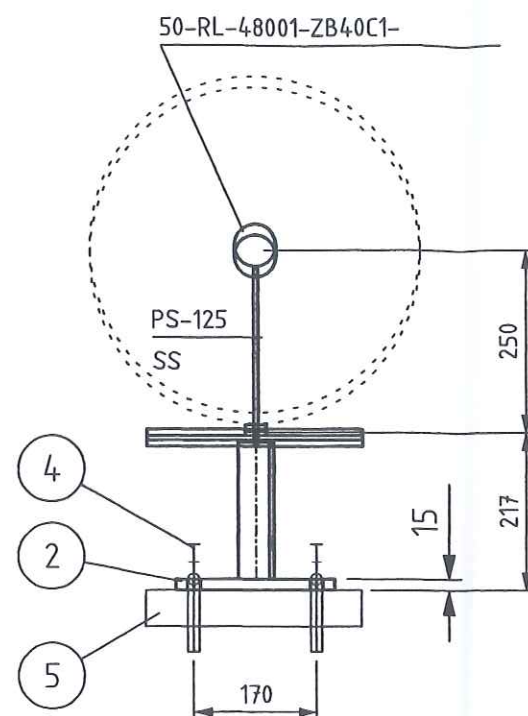
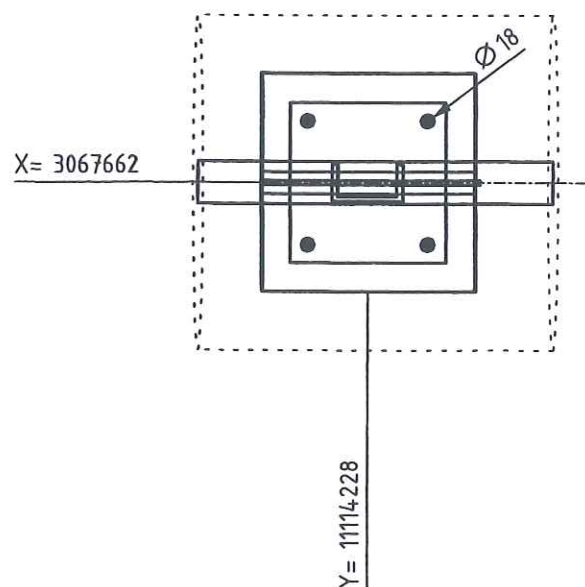


Air Liquide AGS GmbH

Replaces: 79_-----
Replaced by: 79_-----

Date:	Name:	Checked:	History file.	
16-SEP-2005	Lesum / HGH	05-09-15		
Job Code: K70101			Scale --:--	Original format DIN A3
Reference: ASU No. 9. Kosice			Sheet: 1	Sheets: 2
Title:			Drawing No.	Rev.
50 RL 48001 ZB40C1C			792.87826	01

As built



Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:
-THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER
RESISTANT PAINT AND WHITE COLOR

RESPONSIBILITY OF ERECTION COMPANY

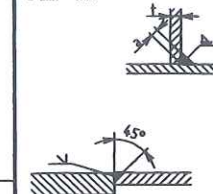
- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE


COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

WELDING DATA ACC. TO DIN 912 T

$a \geq 0,7 \times t$
 $a_{\min} = 4 \text{ mm}$



	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	25 JUL 2005	Zut	
Drawn checked by			



Air Liquide AGS GmbH

	Date	Name	Check	History File
	10.06.2005	GU	Zut	
	Job Code: K70101 ASU No.9 Kosice Reference: PIPING SUPPORT			Scale: 1:10 Original Format DIN A3
Replaces:	Title PS-125			Sheet: 1 of: Drawing-No. 792.87926



Jop Code:	K70101 ASU No. 9, Kosice	Order No.:
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Title: 50 RL 48001

Drawing No.:

Project No.: 792.87826 - 01

Maker's No.:

(Kunde / TÜV, ...)

geprüft

Schweisstechnologie VAM

Datum / Unterschrift

Datum / Unterschrift

Welding
No.:

Dimension

Wärme-
behandlung

Protocol No.:

RT

UT
$$\frac{MT}{PT}$$

Remerk

Pelzeder Erich, 23.02.06

1

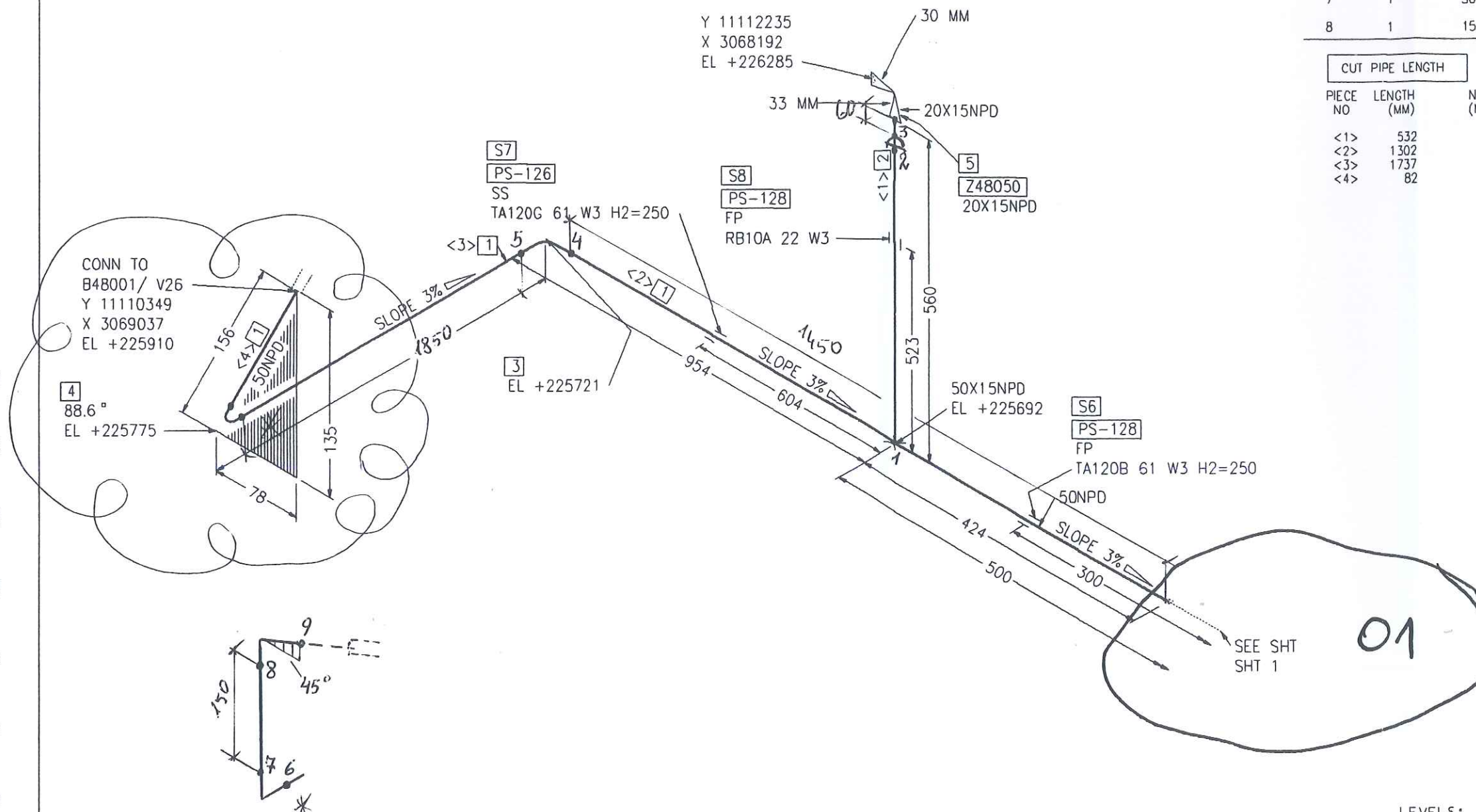
Kosice

As built

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	3121 MM	50	PIPE, WELDED 60.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	532 MM	15	PIPE, WELDED 21.3 * 1.6 , 1.4541, DIN EN ISO 1127
3	1	50	ELBOW, WELDED, 1,5D 60.3*2.0-90, B-ART 3,DIN 2605-1
4	1	50	ELBOW, WELDED, 1,5D 60.3*2.0-88.6, B-ART 3,DIN 2605-1
5	1	20X15	Z48050
6	1	50	FIX POINT PSUPPORT
7	1	50	SLIDE SUPPORT PSUPPORT
8	1	15	FIX POINT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	532	15		SHAPED BEVEL	BEVEL	RG1
<2>	1302	50		BEVEL	BEVEL	RG1
<3>	1737	50		BEVEL	BEVEL	RG1
<4>	82	50		BEVEL	SO.CUT	RG1



LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

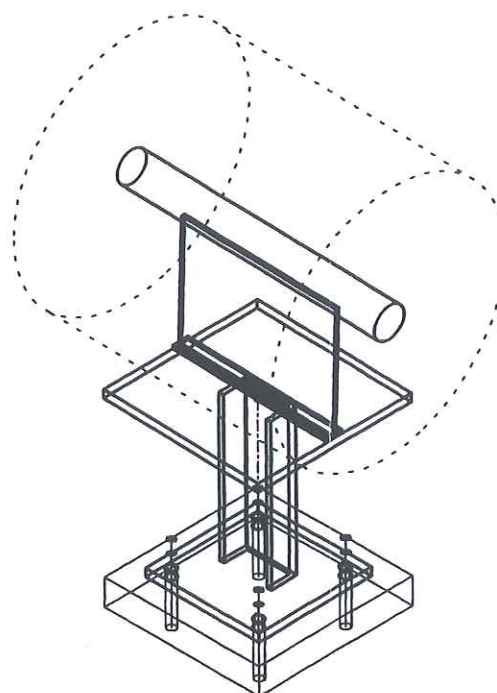
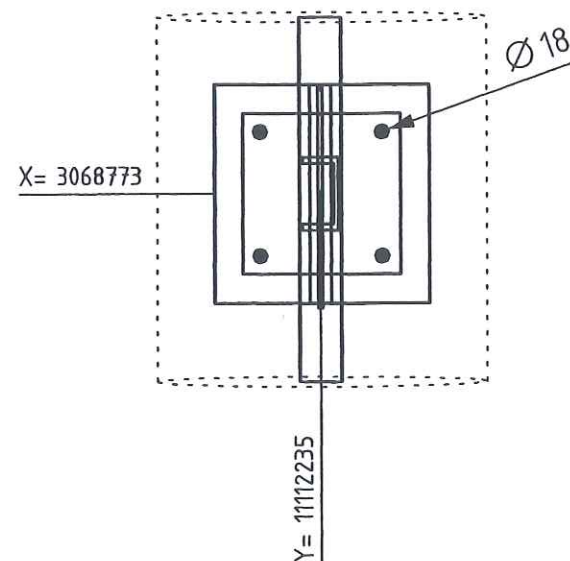
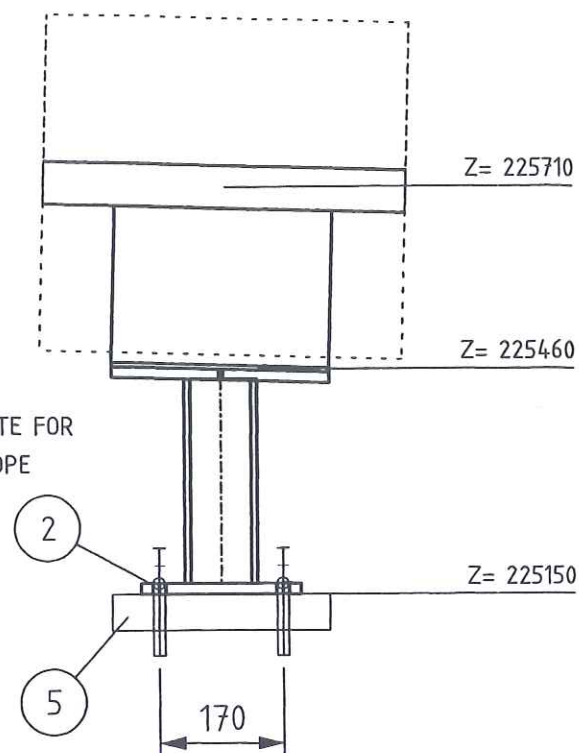
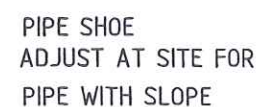
SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

AIR LIQUIDE Air Liquide AGS GmbH	Date:	16-SEP-2005	Name:	Lesum / HGH	Checked:	05-09-15	History file.
	Job Code:	K70101			Scale:	---	
	Reference:	ASU No. 9, Kosice			Original format:	DIN A3	
	Title:	50 RL 48001 ZB40C1C 792.8782601			Sheet:	2	Sheets:
Replaces:	79_-----	Replaced by:		79_-----	Drawing No.	Rev.	

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

As built




Archives Rev. No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

Total Weight:	19.28 kg
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[illegible]

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	25 JUL 2005	Zut	
Drawn checked by			

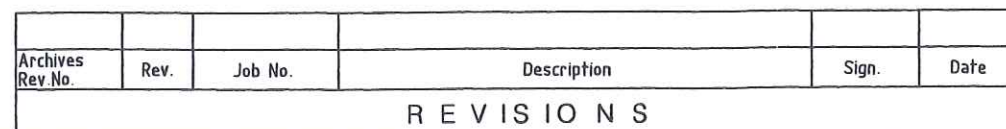


AIR LIQUIDE

Air Liquide AGS GmbH

	Date	Name	Check.	History File			
	10.06.2005	GU	Zut				
	Job Code:	K70101 ASU No.9 Kosice			Scale:	1:10	Original Format
	Reference:	PIPING SUPPORT			Sheet:	1	of:
Replaces:	Title	PS-126			Drawing-No.	792.87926	Re

As built



LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

RESPONSIBILITY OF ERECTION COMPANY

- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED


- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:

MARKING:
-THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER
RESISTANT PAINT AND WHITE COLOR

Total Weight:	1.96 kg
---------------	---------

[illegible]

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	25 JUL. 2005	Zut	
Drawn checked by			



AIR LIQUIDE

Air Liquide AGS GmbH

	Date	Name	Check.	History File		
	18.07.2005	GU	Zut			
	Job Code:	K70101 ASU No.9 Kosice			Scale:	Original Format
	Reference:	PIPING SUPPORT			1:10	DIN A3
Replaces:	Title	PS-128			Sheet:	1 of:
					Drawing-No.	Rev
					792.87926	a

Price Bill of materials 0 50RL48004ZB40C1 0 50 RL 48004 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0109	16	65	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,13 kg	8,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	8,00				0,00
G0100	50	0	Flat packings Graphite with CrNi-insert Standard 40002 107x2x61		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		1,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		8,00				0,00
IHV48070	50	0	HV48070 supplied by AGS		1,00				0,00
IZ44062	20	15	Z44062		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,50				0,00
P0134	50	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 60,3x2	2,92 kg	2,70				0,00
P0150	12	0	PIPE, SEAMLESS, ERMETO 1.4541	0,28 kg	0,06				0,00
P0287	50	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2	0,35 kg	3,00				0,00
P2677	15	0	CAPS 1.4541		1,00				0,00
P2997	50	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 60,3	3,00 kg	2,00				0,00

Price Bill of materials 0 50RL48004ZB40C1 0 50 RL 48004 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
PW11	50	15	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 60,3x2x21,3x1,6		1,00				0,00
PW132	15	12	PIPE WELD-IN 1.4541		1,00				0,00
S0030250	50	0	T-support, 1.4541, TA 120B 61 W3, H2 = 2 1.4 Hesterberg	3,90 kg	1,00				0,00
S0042250	50	0	T-support, 1.4541, TA 120G 61 W3, H2 = 2 1.4 Hesterberg	8,30 kg	1,00				0,00
S0161	15	0	Pipe clamp, RB10A 22 W3 1.4 Hesterberg 22	0,10 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00
SC5	50	0	Segment cut 60,3		6,00				0,00
SPS123	0	0	SUPPORT PS-123	19,42 kg	1,00				0,00
SPS124	0	0	SUPPORT PS-124	1,72 kg	1,00				0,00
Summe: 0 50RL48004ZB40C1 0				50,07 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

50,07 kg



Jop Code: K70101 ASU No. 9, Kosice **Order No.:**

Title: 50 RL 48004

Drawing No.:

792.87826 - 00	Makers No.:
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792.87826 - 00	Makers No.:
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geprüft

erstellt:

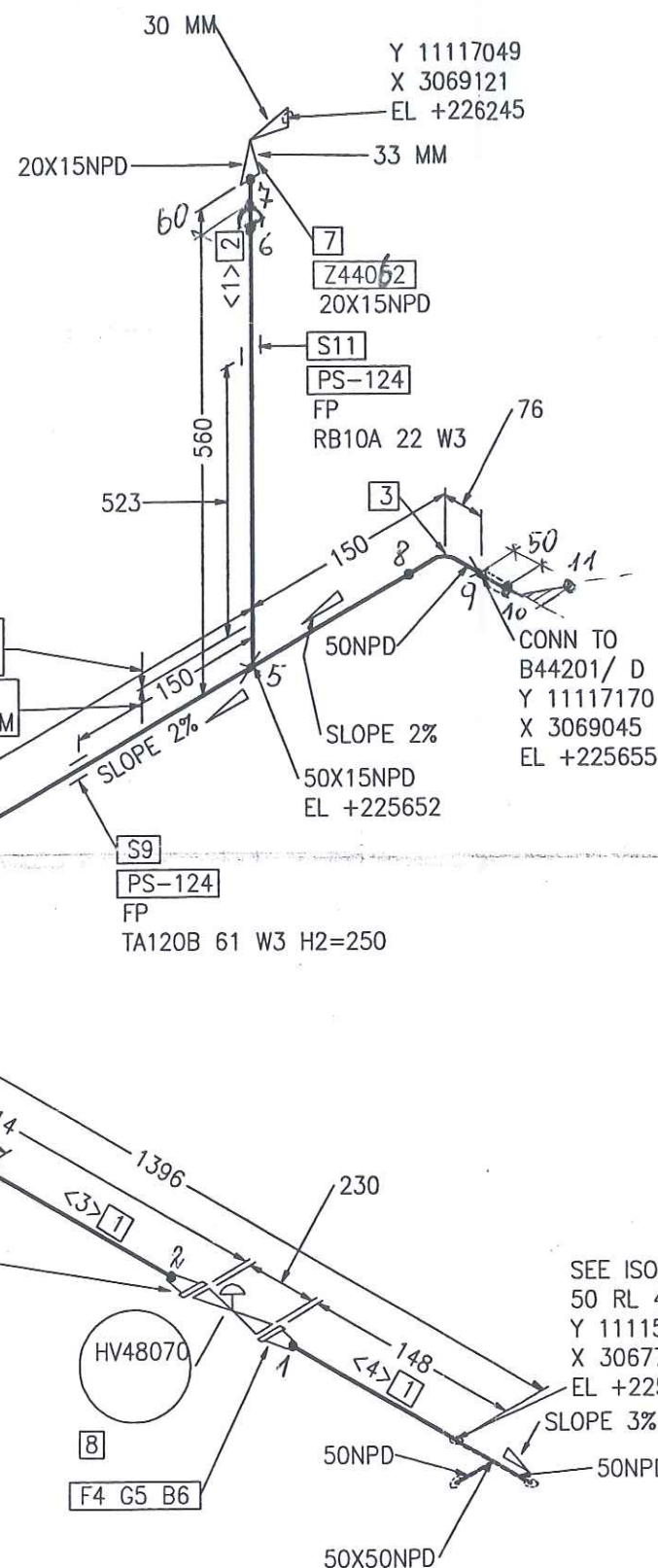
84.02.06 211
Pelzeder Erich

Schweisstechnologie VAM

Datum / Unterschrift

[illegible]

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	2709 MM	50	PIPE, WELDED 60.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	532 MM	15	PIPE, WELDED 21.3 * 1.6 , 1.4541, DIN EN ISO 1127
3	2	50	ELBOW, WELDED, 1,5D 60.3*2.0-90, B-ART 3,DIN 2605-1
4	2	50	WELDING-NECK-FLANGE PN40, 1.4541, DIN EN 1092-1
5	2	50	FLAT GASKET
6	8	16	HEXAGON HEAD BOLT A2-70 WITH NUT A2-70, 65.0MM LANG
7	1	20X15	Z44052
8	1	50	HV48070 HV48070
9	1	50	FIX POINT PSUPPORT
10	1	50	SLIDE SUPPORT PSUPPORT
11	1	15	FIX POINT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	532	15		SHAPED	BEVEL	RG1
<2>	1719	50		BEVEL	BEVEL	RG1
<3>	890	50		BEVEL	BEVEL	RG1
<4>	100	50		BEVEL	BEVEL	RG1



LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

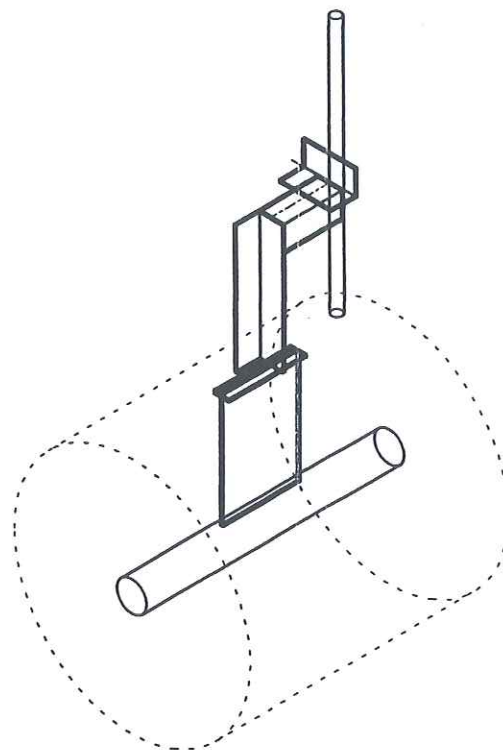
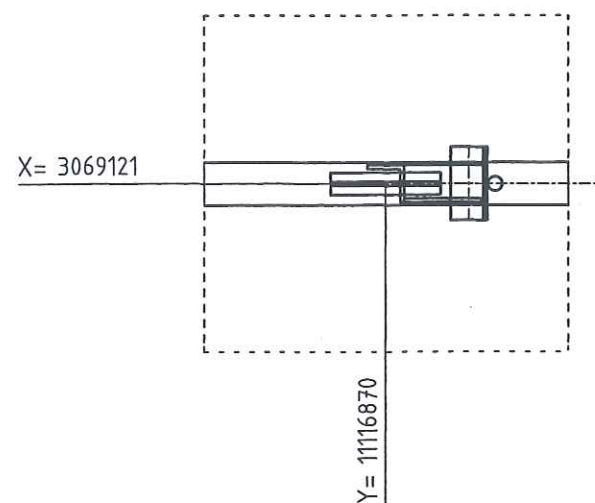
RESPONSIBILITY OF ERECTION COMPANY:
 - Situation of mounting seams
 - Situation off pass- length
 - Check of measure details and pipe courses on the construction site
 - Situation of the spindle at valve
 - All components for Oxygen use free of oil and grease

SUPPORTS:
 PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				

AIR LIQUIDE Air Liquide AGS GmbH	Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
	Job Code: K70101		Scale: 1:1	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1		Sheets: 1
Title: 50 RL 48004 ZB40C1C		Drawing No: 792.87826		Rev. 00

As built



LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS $a=4\text{mm}$ ROUND

MARKING:

- THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

RESPONSIBILITY OF ERECTION COMPANY

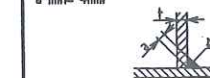
- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED


WELDING DATA ACC. TO DIN 1912 T5

a $\geq 0,7 \times t$
a min = 4mm



Total Weight:	1.72 kg
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[illegible]

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	5. JUL 2005	Zuf	
Drawn checked by			



AIR LIQUIDE

Air Liquide AGS GmbH

	Date	Name	Check	History File
	10.06.2005	GU	Zut	
	Job Code:	K70101 ASU No.9 Kosice		
	Reference:	PIPING SUPPORT		
Replaces:	Title	PS-124		
		Drawing-No. 792.87926		

Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

Price Bill of materials 0 25R48009ZB40C1 0 25 R 48009 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0101	12	55	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	8,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	8,00				0,00
G0097	25	0	Flat packings Graphite with CrNi-insert Standard 40002 70x2x35		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		3,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		24,00				0,00
IPV48005	25	0	PV48005		1,00				0,00
ITE48004	15	0	TE48004		1,00				0,00
IV48030	25	0	V48030		1,00				0,00
IZ24063	20	15	Z24063		1,00				0,00
P0002	12	0	PIPE, SEAMLESS 1.0254	0,28 kg	0,10				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,40				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	4,32				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	8,00				0,00
P1000	25	15	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2x21,3x1,6	0,14 kg	2,00				0,00

Price Bill of materials 0 25R48009ZB40C1 0 25 R 48009 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P1004	25	25	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2x33,7x2	0,15 kg	1,00				0,00
P2677	15	0	CAPS 1.4541		1,00				0,00
P2993	25	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 33,7	1,00 kg	2,00				0,00
PWI32	15	12	PIPE WELD-IN 1.4541		1,00				0,00
S0039250	25	0	T-support, 1.4541, TA 120G 34 W3, H2 = 2 1.4 Hesterberg	7,60 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00
SC3	25	0	Segment cut 33,7		12,00				0,00
SCP01	15	0	PIPE CLAMP, RB10A 22 W3 HESTERBERG 21,3		1,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		1,00				0,00
SPG01	0	0	PIPE GUIDE 1.0 HESTERBERG		1,00				0,00
SPS320	0	0	SUPPORT PS-320	1,96 kg	1,00				0,00
SPS321	0	0	SUPPORT PS-321	5,30 kg	1,00				0,00
SPS322	0	0	SUPPORT PS-322	4,32 kg	1,00				0,00
XZB04	50	15	welding nozzle for thermowell, drawing N 1.4541 22		1,00				0,00

Price Bill of materials 0 25R48009ZB40C1 0 25 R 48009 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
Summe: 0 25R48009ZB40C1 0				30,14 kg		0,00	0,00		0,00

Total Delivery:	
Total Mounting:	
Grand Total:	
Total Weight:	30,14 kg
** End of List	

AS LECT

	SCHWEISSDOKUMENTATION WELDING DOCUMENTATION		erstellt: Pelzeder Erich Datum / Unterschrift	geprüft Schweißtechnologie VAM Datum / Unterschrift	(Kunde / TÜV, ...)
Jop Code: K70101 ASU No. 9, Kosice		Order No.:		Project No.: 9050300	
Client: AIR LIQUIDE		Title: 25 R 48009			
		Sheet 1	Drawing No.: 792.87826 - 00		Maker's No.:

Seam No.:	Welder No.:	Material	Dimension	Protocol No.:				Remerk
				Wärme- behandlung	RT	UT	MT/PT	SP
1	V2	1.4541	33,7*2					
2	V2	1.4541	33,7*2					
3	V2	1.4541	33,7*2					
4	V2	1.4541	33,7*2					
5	V2	1.4541	33,7*2					
6	V2	1.4541	33,7*2					
7	V2	1.4541	33,7*2					
8	V2	1.4541	33,7*2					
9	V2	1.4541	33,7*2					
10	V2	1.4541	33,7*2					
11	V2	1.4541	21,3*1,6					
12	V2	1.4541	21,3*1,6					
13	V2	1.4541	NPD12					
14	V2	1.4541	33,7*2					
15	V2	1.4541	33,7*2					
16	V2	1.4541	33,7*2					
17	V2	1.4541	21,3*1,6					
18	V2	1.4541	33,7*2					
19	V2	1.4541	33,7*2					
20	V2	1.4541	33,7*2					
21	V2	1.4541	33,7*2					
22	V2	1.4541	33,7*2					
23	V2	1.4541	33,7*2					
24	V2	1.4541	33,7*2					
25	V2	1.4541	33,7*2					
26	V2	1.4541	33,7*2					
27	V2	1.4541	33,7*2					

VAM

SCHWEISSDOKUMENTATION WELDING DOCUMENTATION

Prot. Nr.

Jop Code: K70101 ASU No. 9, Kosice Order No.:

Client: AIR LIQUIDE Title: 25 R 48009

Sheet 1

Drawing No.:

Project No.: 9050300

Maker's No.:

erstellt:

Ab. v. L. Erich

Pelzeder Erich

Datum / Unterschrift

Schweisstechnologie VAM

Datum / Unterschrift

(Kunde / TÜV, ...)



Datum / Unterschrift

Seam No.:

Welder
No.:
V2

Material

1.4541

Dimension

33,7*2

Wärme-
behandlung

RT

UT

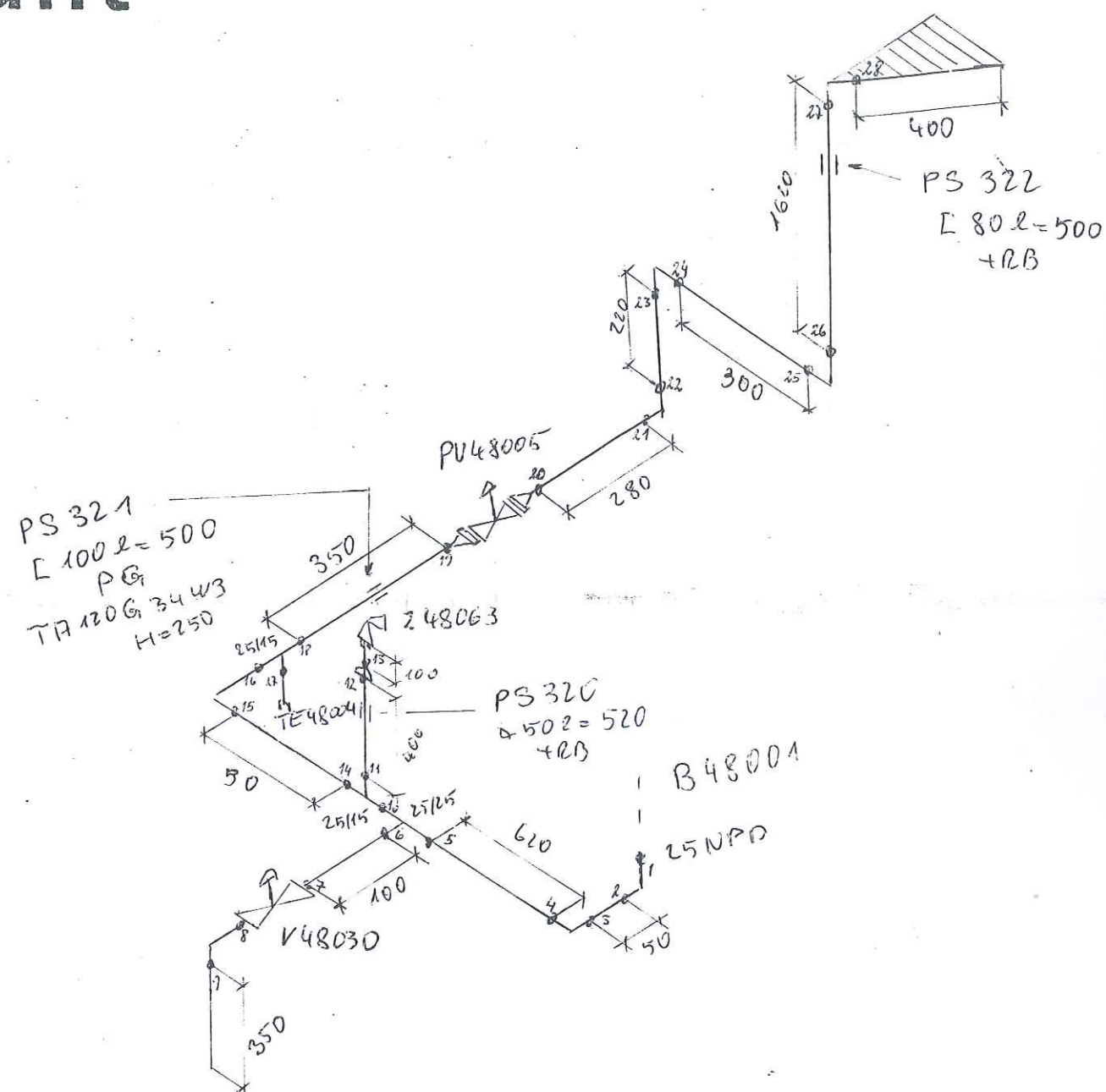
Protocol No.:

MT/PT

SP

Remerk

 N



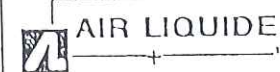
LEVELS:

TOP OF INTERNAL ROADS:	225,00m n.m.
TOP OF FOUNDATION:	225,10m
BOTTOM OF STEEL STRUCTURE:	225,15m = ± 0.00

- Situation of mounting soams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

PS-(NO.) - PIPE SUPPORT
WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT
ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

_C				
_B				
_A				
Rev.	Revisions	Date	Name	checked



Air Liquide AGS GmbH

Replaces: 79_-----
Replaced by: 79_-----

Date:	Name:	Checked:	History file:
23-JUN-2005	Lesum / HGH	05-07-11 <i>27</i>	
Job Code: K70101		Scale -- : --	Original format DIN A3
Reference: ASU No. 9, Kosice		Sheet:	Sheets:
Title:		Drawing No:	Rev.
25 R 48009 2B40C1		792.87826	00

Price Bill of materials 0 50R48033ZB40C1 0 50 R 48033 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0109	16	65	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,13 kg	20,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	20,00				0,00
G0100	50	0	Flat packings Graphite with CrNi-insert Standard 40002 107x2x61		5,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		1,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		37,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		3,00				0,00
GW8	40	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 48,3x2		2,00				0,00
IP49020	15	0	P49020 supplied by AGS		1,00				0,00
IP49021	15	0	P49021 supplied by AGS		1,00				0,00
IPV49020	50	0	PV49020 supplied by AGS		1,00				0,00
IQ49021	15	0	Q49021 supplied by AGS		1,00				0,00
IT49020	15	0	T49020 supplied by AGS		1,00				0,00
IT49021	15	0	T49021 supplied by AGS		1,00				0,00

Price Bill of materials 0 50R48033ZB40C1 0 50 R 48033 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
IV48102	50	0	V48102 supplied by AGS		1,00				0,00
IV49020H1	15	0	V49020H1 supplied by AGS		1,00				0,00
IV49021H1	15	0	V49021H1 supplied by AGS		1,00				0,00
IV49021H2	15	0	V49021H2 supplied by AGS		1,00				0,00
IZ48102	25	20	Z48102 supplied by AGS		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,50				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	1,00				0,00
P0133	40	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 48,3x2	2,31 kg	0,10				0,00
P0134	50	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 60,3x2	2,92 kg	52,30				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	1,00				0,00
P0287	50	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2	0,35 kg	13,00				0,00
P1035	50	50	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2,9x60,3x2,9	0,68 kg	1,00				0,00

Price Bill of materials 0 50R48033ZB40C1 0 50 R 48033 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P1742	25	15	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
P1743	50	40	Reducer, concentric, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x48,3x2	0,20 kg	1,00				0,00
P2997	50	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 60,3	3,00 kg	5,00				0,00
PW11	50	15	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 60,3x2x21,3x1,6		6,00				0,00
S0030250	50	0	T-support, 1.4541, TA 120B 61 W3, H2 = 2 1.4 Hesterberg	3,90 kg	1,00				0,00
S0042	50	0	T-support, 1.4541, TA 120G 61 W3 1.4 Hesterberg 61	8,30 kg	8,00				0,00
S0042250	50	0	T-support, 1.4541, TA 120G 61 W3, H2 = 2 1.4 Hesterberg	8,30 kg	9,00				0,00
S0161	15	0	Pipe clamp, RB10A 22 W3 1.4 Hesterberg 22	0,10 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
SC3	25	0	Segment cut 33,7		1,00				0,00
SC4	40	0	Segment cut 48,3		1,00				0,00
SC5	50	0	Segment cut 60,3		18,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		1,00				0,00

Price Bill of materials 0 50R48033ZB40C1 0 50 R 48033 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SPG01	0	0	PIPE GUIDE 1.0 HESTERBERG		7,00				0,00
SPS145	0	0	SUPPORT PS-145	1,59 kg	1,00				0,00
SPS146	0	0	SUPPORT PS-146	18,78 kg	1,00				0,00
SPS147	0	0	SUPPORT PS-147	18,78 kg	1,00				0,00
SPS148	0	0	SUPPORT PS-148	63,45 kg	1,00				0,00
SPS149	0	0	SUPPORT PS-149	63,45 kg	1,00				0,00
SPS150	0	0	SUPPORT PS-150	63,45 kg	1,00				0,00
SPS151	0	0	SUPPORT PS-151	63,47 kg	1,00				0,00
SPS152	0	0	SUPPORT PS-152	66,22 kg	1,00				0,00
SPS153	0	0	SUPPORT PS-153	66,21 kg	1,00				0,00
SPS323	0	0	SUPPORT PS-323	8,16 kg	1,00				0,00
SPS324	0	0	SUPPORT PS-324	2,07 kg	1,00				0,00
XZB02	50	15	welding nozzle for pressure gauge, drawi 1.4541 22		2,00				0,00
XZB03	50	15	welding nozzle for sample line, drawing 1.4541 22		1,00				0,00
XZB04	50	15	welding nozzle for thermowell, drawing N 1.4541 22		2,00				0,00
XZB08	20	0	MUFFEN 1.4571		1,00				0,00
XZB14	25	0	HOLLÄNDER 1.4571		1,00				0,00
XZB24	25	0	THREAD END 1.4541		1,00				0,00
Summe: 0 50R48033ZB40C1 0				759,37 kg		0,00	0,00		0,00

Price Bill of materials 0 50R48033ZB40C1 0 50 R 48033 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
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Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

759,37 kg



VAM	SCHWEISSDOKUMENTATION WELDING DOCUMENTATION		erstellt: 04.03.06	Datum / Unterschrift Pelzeder Erich	geprüft Schweisstechnologie VAM	Datum / Unterschrift	(Kunde / TÜV, ...)
	Prot Nr.	Order No.:	Drawing No.:	Project No.: 9050300	Datum / Unterschrift	Maker's No.:	792.87826 - 00
Jop Code: K70101 Client: AIR LIQUIDE	ASU No. 9, Kosice Title: 50 R 48033	Sheet 1					

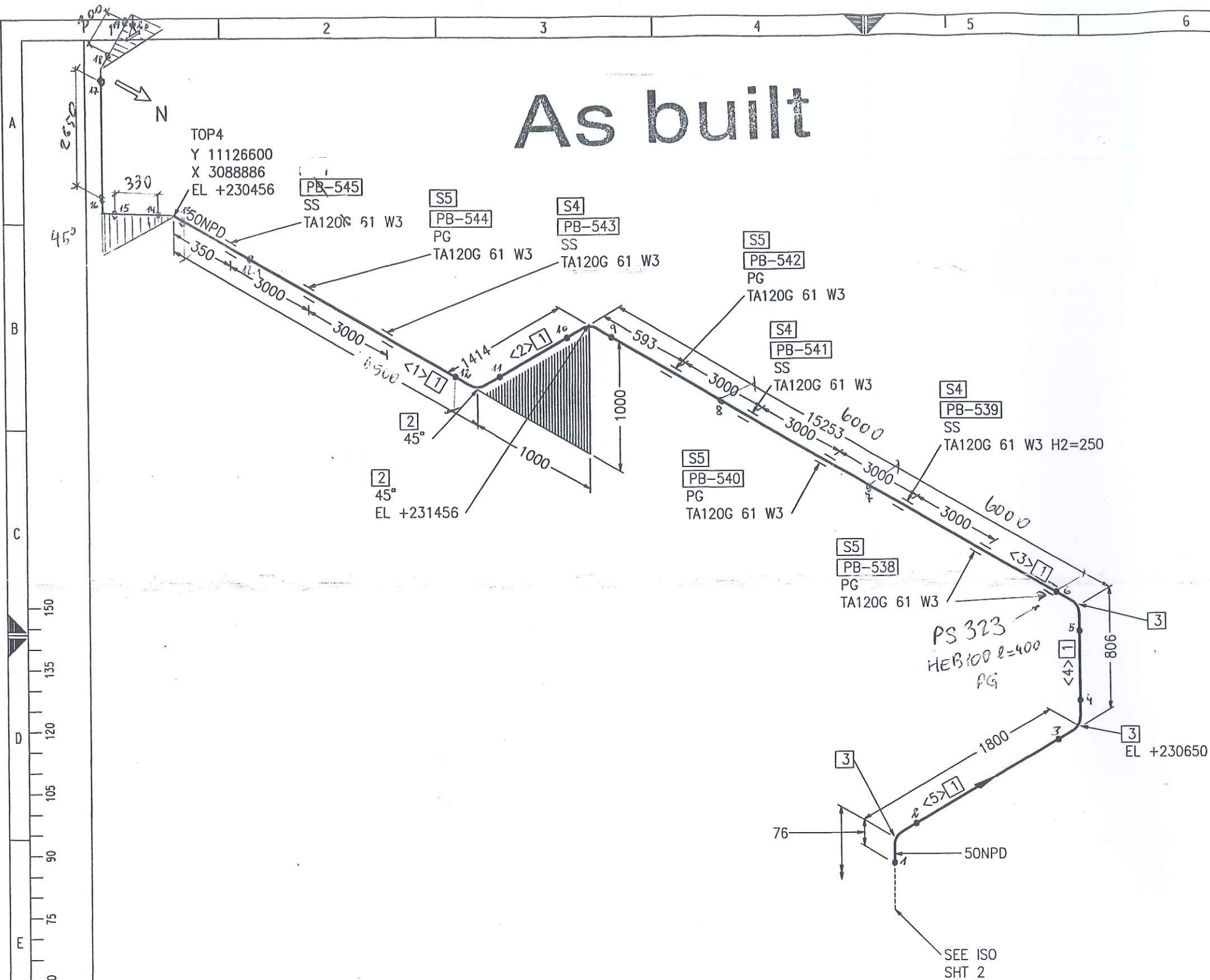
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As built

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	26525 MM	50	PIPE, WELDED 60.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	2	50	ELBOW, WELDED, 1,5D 60.3*2.0-45, B-ART 3,DIN 2605-1
3	3	50	ELBOW, WELDED, 1,5D 60.3*2.0-90, B-ART 3,DIN 2605-1
4	4	50	SLIDE SUPPORT PSUPPORT
5	4	50	PIPE GUIDE PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	7726	50		SQ.CUT	BEVEL	RG1
<2>	1352	50		BEVEL	BEVEL	RG1
<3>	15145	50		BEVEL	BEVEL	RG1
<4>	654	50		BEVEL	BEVEL	RG1
<5>	1648	50		BEVEL	BEVEL	RG1



**FREIGABE
FOR CONSTRUCTION**

12 Juli 2005 *Qaw*

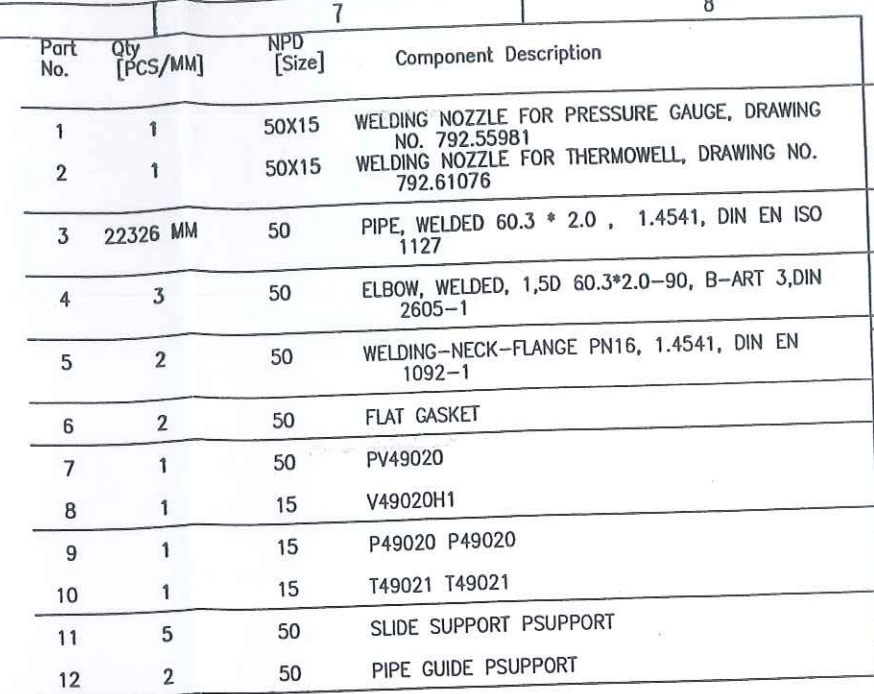
LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

AIR LIQUIDE Air Liquide AGS GmbH	Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
	Job Code: K70101		Scale: 1:1	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1		Sheets: 3
Title: 50 R 48033 ZB40C1C 792.8782600		Drawing No:		Rev.

Rev.	Revisions	Date	Name	checked
C				
B				
A				




CUT PIPE LENGTH			REMARKS	END ONE	END TWO	ITEM CODE
PIECE NO	LENGTH (MM)	NPD (MM)				
<1>	2898	50		BEVEL	BEVEL	RG1
<2>	16786	50		BEVEL	BEVEL	RG1
<3>	1868	50		BEVEL	BEVEL	RG1
<4>	400	50		BEVEL	BEVEL	RG1

**FREIGABE
FÜR CONSTRUCTION**

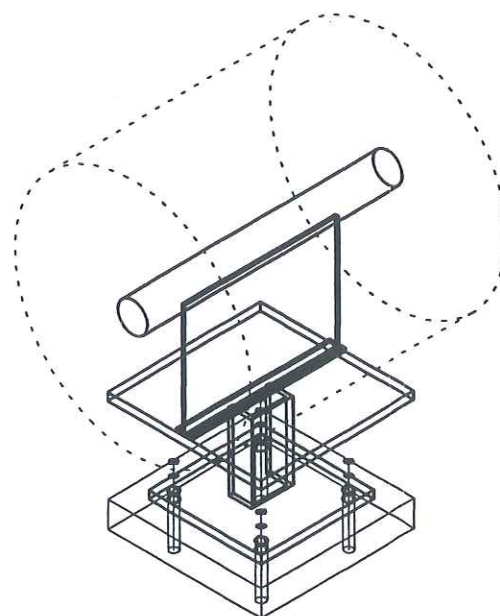
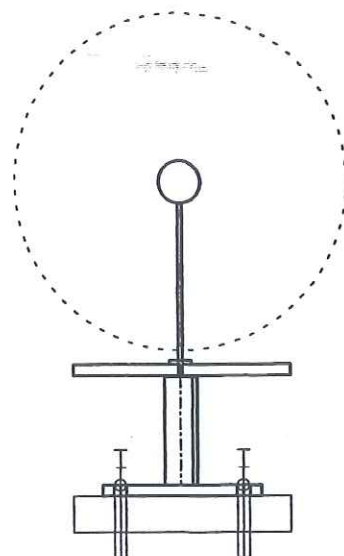
LEVELS:	
TOP OF INTERNAL ROADS:	225,00m n.m.
TOP OF FOUNDATION:	225,10m
BOTTOM OF STEEL STRUCTURE:	225,15m = ±0,00

SUPPORTS:
 PS-(NO.) - PIPE SUPPORT
 WITH SUBSTRUCTURE
 PB-(NO.) - PIPE SUPPORT
 ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

__C				
__B				
__A				
Rev.	Revisions	Date	Name	checked

	Date:	Name:	Checked:	History file:	
	23-JUN-2005	Lesum / HGH	05-07-11		
Air Liquide AGS GmbH	Job Code: K70101			Scale	Original format
	Reference: ASU No. 9, Kosice			---:---	DIN A3
Replaces: 79_--- Replaced by: 79_---	Title:			Sheet: 2	Sheets: 3
	50 R 48033-ZB40C1C			Drawing No:	Rev.
			792.87826		00

As built



LEGEND:

```

- PG-      PIPE GUIDE
- FP-      FIX POINT
- SS-      SLIDE SUPPORT
- HN-      HANGER
- SSAX-    SLIDE SUPPORT WITH AXIAL STOP
- AXLS-    AXIAL STOP WITH LIFTING STOP
- SPS-     SPRING SUPPORT
- SPGS-    SPRING SUPPORT GUIDED
- GSAX-    GUIDE SUPPORT WITH AXIAL STOP
- SPAX-    SPRING SUPPORT WITH AXIAL STOP
- SH-      SPRING HANGER
- AX-      AXIAL STOP

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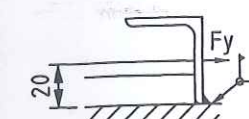
- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS $a=4\text{mm}$ ROUND

MARKING:
-THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER
RESISTANT PAINT AND WHITE COLOR

RESPONSIBILITY OF ERECTION COMPANY
-LOCATION OF FIELD WELDS
-FITTING LENGTHS
-DIMENSIONAL CHECK AT SITE BEFORE
STARTING SPOOL MANUFACTURE

COATING:
-ALL SURFACES FOR COATING MUST BE FREE OF
CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
-THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED
SUPPORT NEEDS TO BE REMOVED
-THE SUPPORT NEEDS TO BE PRIME COATED

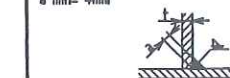
TA 120 G DN 15-80



ANGLE STEEL: L40x8x80LENGTH
ANGLE STEEL AND PLATE ACCORDING
TO ORDER NO. PIPE SHOE

WELDING DATA ACC. TO DIN 1912 T5

$a \geq 0,7 \times t$
 $a_{\min} = 4 \text{ mm}$



Total Weight:	17.58 kg
---------------	----------

[illegible]

	Date	Name	Signature	 HEGMANN
Approved by				
Checked by		Gans		
Checked by 20. JUL. 2005		Zut		
Drawn checked by				

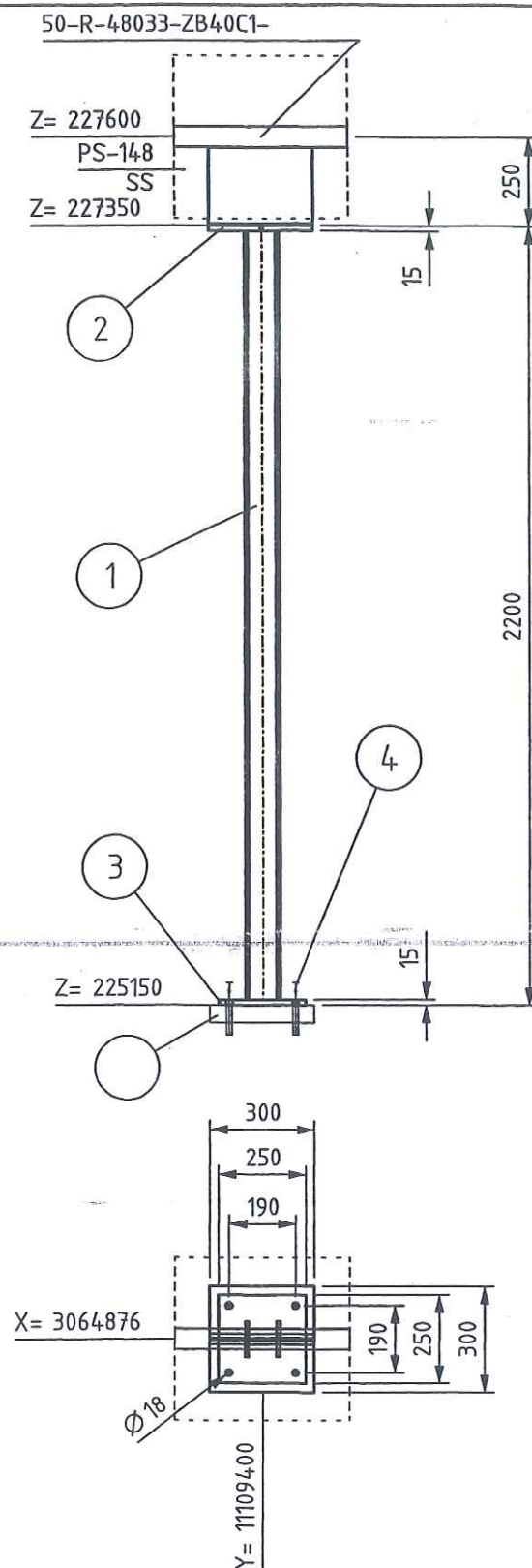

AIR LIQUIDE™

Air Liquide AGS GmbH

	Date	Name	Check.	History File	
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	Job Code:	K70101 ASU No.9 Kosice			Scale:
	Reference:	PIPING SUPPORT			1:10
Replaces:	Title	PS-147			Original Format
					DIN A3
				Sheet:	1 of:
				Drawing-No.	792.87926

Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

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As built

LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:

- THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

RESPONSIBILITY OF ERECTION COMPANY

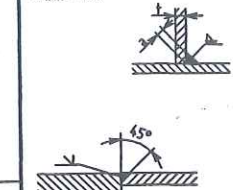
- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

WELDING DATA ACC. TO DIN 1912 TS

a >= 0,7 x t
a min= 4mm



Total Weight: 62.24 kg

Item	No. Off	Unit	Description	Dimension	Material	Weight kg	Remark
1	1	pcs	PROFILE	HE100B, L=2.170	RST37-2	44.288	
2	1	pcs	PLATE 300x300x15	PLATE 15x300x300	RST37-2	10.598	
3	1	pcs	PLATE 250	PLATE 250x250x15	RST37-2	7.359	
4	4	pcs	ANCHOR BOLT HST(-R)M16/100	HST(-R) 16-0-M16	1.4401	0.000	1.2
5	1	pcs	BASE	300x300x50	CONCRETE	0.000	63.45

Date	Name	Signature
27. Juli 2005	Gans	
25. JUL. 2005	Zut	

H G H
HEGMANN'S

AIR LIQUIDE

Air Liquide AGS GmbH

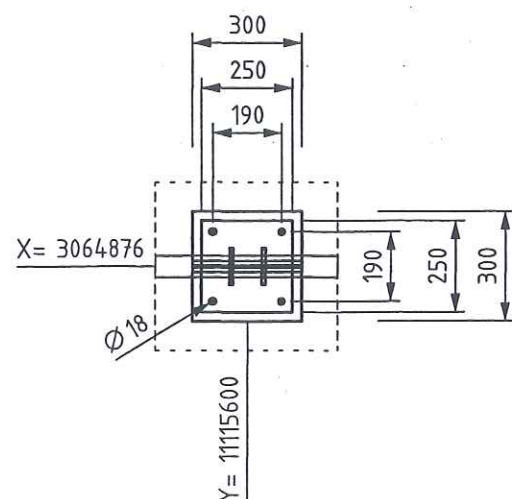
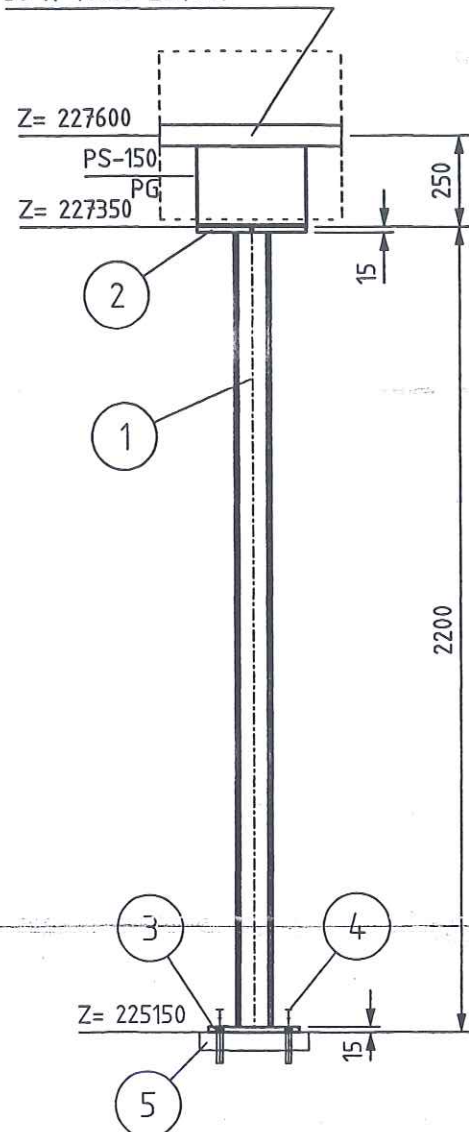
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Reference:	PIPING SUPPORT	Original Format	DIN A3
Replaces:	Title PS-148	Sheet:	1 of 1
		Drawing-No.	792.87926
		Rev.	a

Archives	Rev.	Job No.	Description	Sign.	Date
Rev. No.					
R E V I S I O N S					

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50-R-48033-ZB40C1-

As built



LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:

- THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

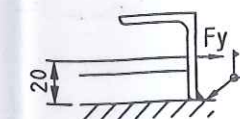
RESPONSIBILITY OF ERECTION COMPANY

- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

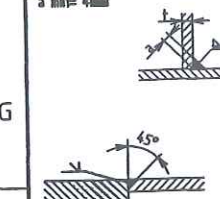
TA 120 G DN 15-80



ANGLE STEEL: L40x8x80LENGTH
ANGLE STEEL AND PLATE ACCORDING
TO ORDER NO. PIPE SHOE

WELDING DATA ACC. TO DIN 1912 T5

a >= 0,7 x t
a min= 4mm



Total Weight: 62.24 kg

Item	No. Off	Unit	Description	Dimension	Material	Weight kg	Remark
1	1	pcs	PROFILE	HE100B, L=2.170	RST37-2	44.288	
2	1	pcs	PLATE 300x300x15	PLATE 15x300x300	RST37-2	10.598	
3	1	pcs	PLATE 250	PLATE 250x250x15	RST37-2	7.359	
4	4	pcs	ANCHOR BOLT HST(-R)M16/100	HST(-R) 16-0-M16	1.4401	0.000	1,2
5	1	pcs	BASE	300x300x50	CONCRETE	0.000	63,45
27. Juli 2005							

Approved by	Date	Name	Signature
Checked by		Gans	
Checked by	25. JUL. 2005	Zut	
Drawn checked by			

HGH
HEGMANN'S

AIR LIQUIDE

Air Liquide AGS GmbH

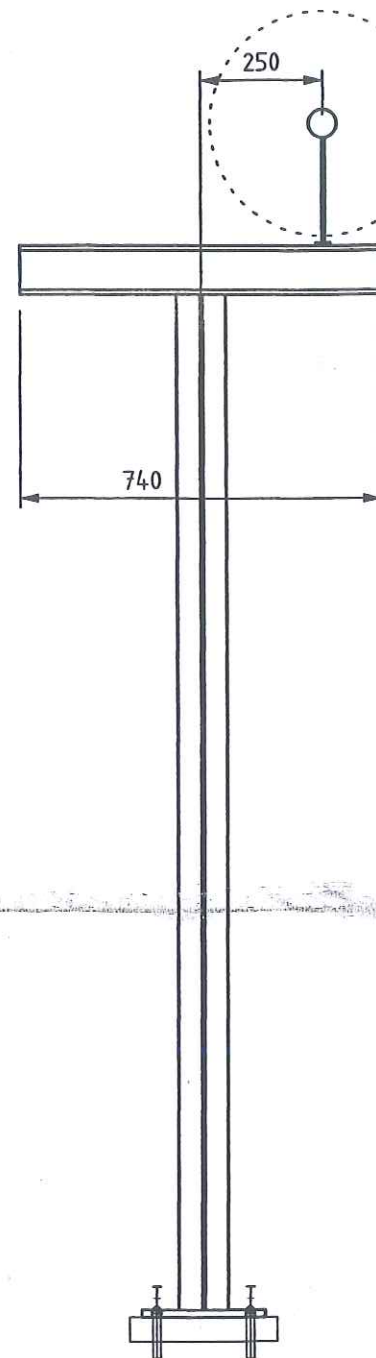
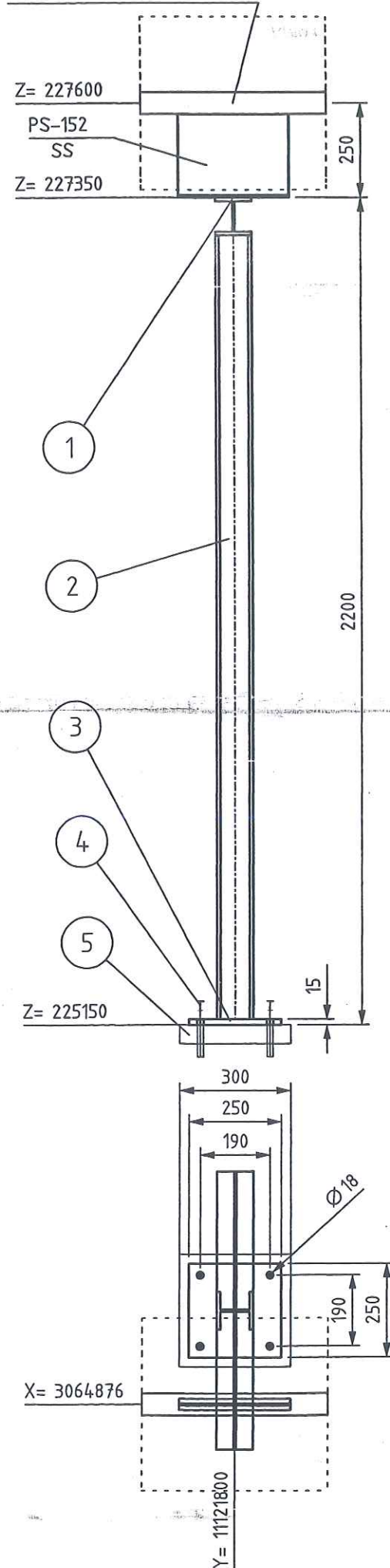
Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
REVISIONS					

Date	Name	Check	History File
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Job Code:	K70101 ASU No.9 Kosice		
Reference:	PIPING SUPPORT		
Replaces:	Title PS-150		
Scale:	1:20	Original Format	DIN A3
Sheet:	1	of:	1
Drawing-No.	792.87926	Rev.	a

	Date	Name	Check.	History File		
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	Job Code: K70101 ASU No.9 Kosice				Scale: 1:20	Original Format DIN A3
	Reference: PIPING SUPPORT				Sheet: 1	of:
Replaces:	Title PS-151				Drawing-No. 792.87926	Rev a

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50-R-48033-ZB40C1-



As built

LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:

- THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

RESPONSIBILITY OF ERECTION COMPANY

- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

WELDING DATA ACC. TO DIN 1912 T5

a >= 0,7 x t
a min= 4mm



Total Weight: 65.02 kg

Item	No. Off	Unit	Description	Dimension	Material	Weight kg	Remark
1	1	pcs	PROFILE	HE100B, L=0.740	RST37-2	15.103	
2	1	pcs	PROFILE	HE100B, L=2.085	RST37-2	42.556	
3	1	pcs	PLATE 250	PLATE 250x250x15	RST37-2	7.359	
4	4	pcs	ANCHOR BOLT HST(-R)M16/100	HST(-R) 16-0-M16	1.4401	0.000	
5	1	pcs	BASE	300x300x50	CONCRETE	0.000	
							66,22
27. Juli 2005							

Approved by	Date	Name	Signature
Checked by		Gans	
Checked by	25 JUL 2005	Zut	
Drawn checked by			

HGH
HEGMANN'S

AIR LIQUIDE
TM

Air Liquide AGS GmbH

Date	Name	Check.	History File
21.06.2005	SWA	Zut	
Job Code:	K70101 ASU No.9 Kosice		
Reference:	PIPING SUPPORT		
Replaces:	Title	PS-152	
Scale:	1:15	Original Format	DIN A3
Sheet:	1 of 1	Rev.	1
Drawing-No.	792.87926		a

Archives	Rev.	Job No.	Description	Sign.	Date
Rev.No.					
R E V I S I O N S					

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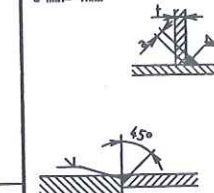
- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP


COATING:
-ALL SURFACES FOR COATING MUST BE FREE OF
CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
-THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED
SUPPORT NEEDS TO BE REMOVED
-THE SUPPORT NEEDS TO BE PRIME COATED

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

WELDING DATA ACC. TO DIN 1912 TS

$a \geq 0,7 \times t$
 $a_{\min} = 400$

[illegible]

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by 25 JUL 2005		Zut	
Drawn checked by			

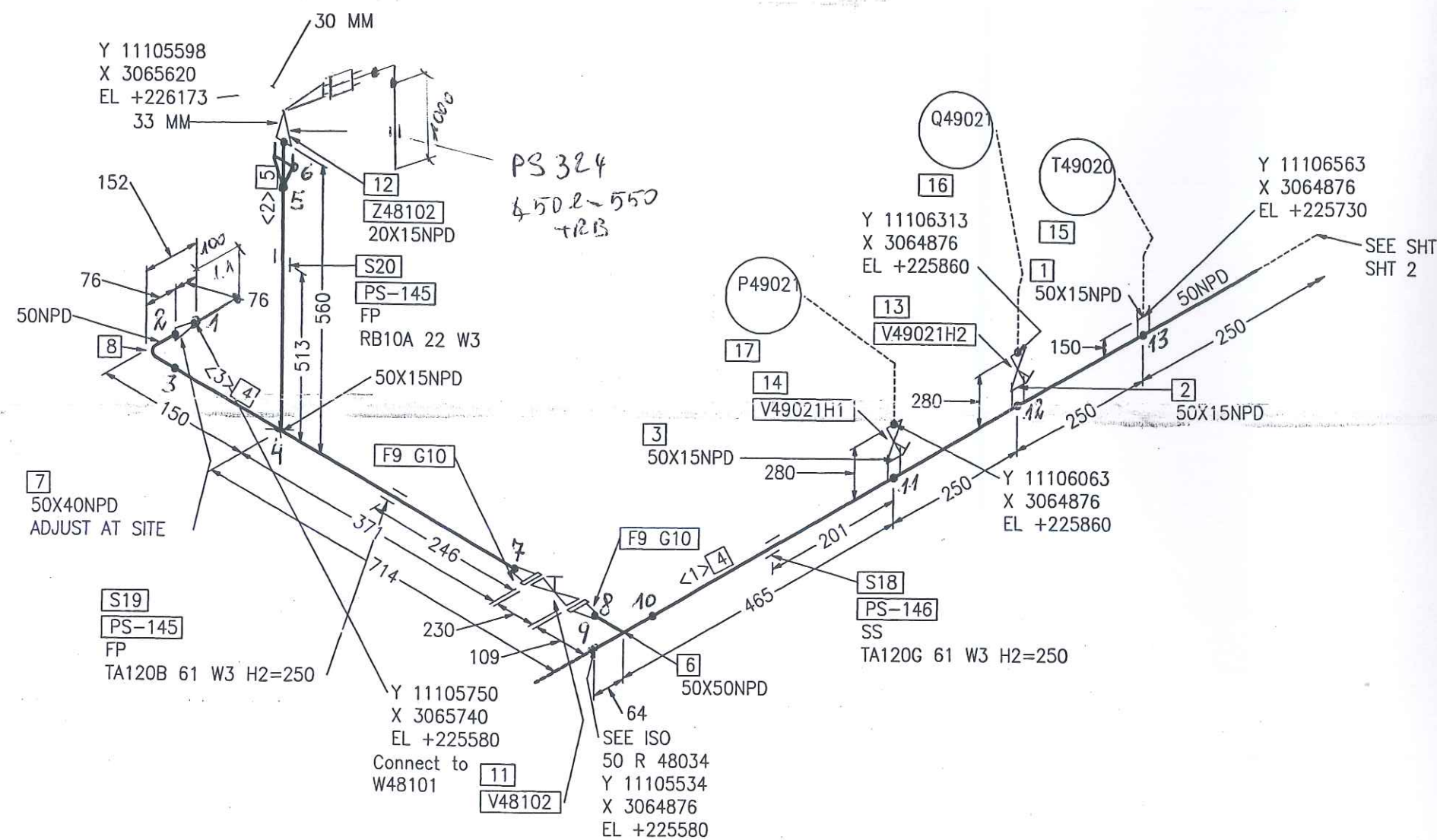


Air Liquide AGS GmbH

	Date	Name	Check.	History File			
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	Reference:	PIPING SUPPORT			Sheet:	1 of:	DIN A3
Replaces:	Title			Drawing-No.			R
	PS-153			792.87926			



N

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	1400	50		BEVEL	BEVEL	RG1
<2>	532	15		SHAPED	BEVEL	RG1
<3>	400	50		BEVEL	BEVEL	RG1

LEIGABE CONSTRUCTION

12. Juli 2005 G. O. K.

LEVELS:	
TOP OF INTERNAL ROADS:	225,00m n.m.
TOP OF FOUNDATION:	225,10m
BOTTOM OF STEEL STRUCTURE:	225,15m = ±0,00

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

PS-(NO.) - PIPE SUPPORT
WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT
ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

_C				
_B				
_A				
Rev.	Revisions	Date	Name	checked

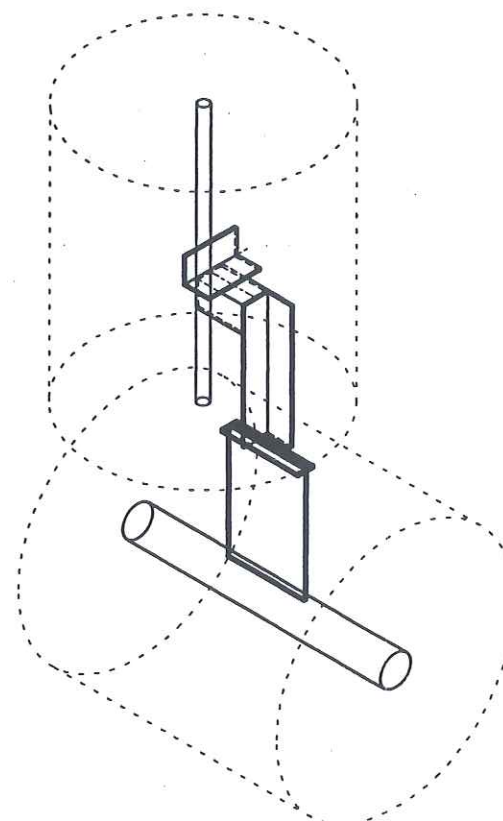
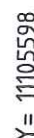


Air Liquide AGS GmbH

Replaces: 79____
Replaced by: 79____

Date:	Name:	Checked:	History file:	
23-JUN-2005	Lesum / HGH	05-07-11		
Job Code: K70101			Scale --:--	Original format DIN A3
Reference: ASU No. 9, Kosice			Sheet: 3	Sheets: 3
Title:			Drawing No:	Rev.
50 R 48033 ZB40C1C			792.87826	00

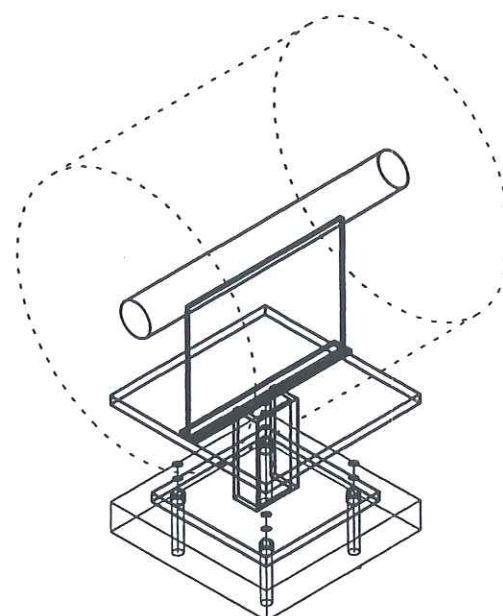
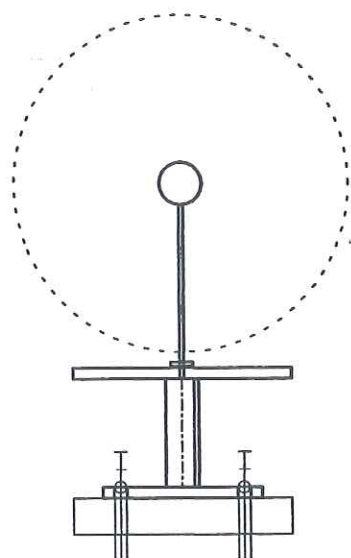
As built



Archives Rev No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

	Date	Name	Check.	History File	
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Replaces:	Title PS-145			Sheet: 1 of:	Drawing-No. 792.87926

As built



Date	Name	Check.	History File			
20.06.2005	SWA	Zut				
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Reference:	PIPING SUPPORT			Sheet:	1	of: DIN A3
Title	PS-146			Drawing-No.	792.87926	Rev
						a

Archives Rev. No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

Price Bill of materials 0 25R48033_1ZB40C1 0 25 R 48033_1 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0102	12	55	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	12,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	12,00				0,00
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		1,00				0,00
G0097	25	0	Flat packings Graphite with CrNi-insert Standard 40002 70x2x35		3,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		2,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		2,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		14,00				0,00
IQ48020	15	0	Q48020 supplied by AGS		1,00				0,00
IV48020H1	15	0	V48020H1 supplied by AGS		1,00				0,00
IV48101	25	0	V48101 supplied by AGS		1,00				0,00
IZ48020	20	15	Z48020 supplied by AGS		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,50				0,00

Price Bill of materials 0 25R48033_1ZB40C1 0 25 R 48033_1 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P0130	20	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 26,9x1,6	1,01 kg	0,10				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	4,27				0,00
P0150	12	0	PIPE, SEAMLESS, ERMETO 1.4541	0,28 kg	0,10				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	4,00				0,00
P1000	25	15	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2x21,3x1,6	0,14 kg	1,00				0,00
P1004	25	25	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2x33,7x2	0,15 kg	1,00				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
P2677	15	0	CAPS 1.4541		1,00				0,00
P2993	25	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 33,7	1,00 kg	3,00				0,00
PW132	15	12	PIPE WELD-IN 1.4541		1,00				0,00
S0027	25	0	T-support, 1.4541, TA 120B 34 W3 1.4 Hesterberg 34	3,70 kg	1,00				0,00
S0039250	25	0	T-support, 1.4541, TA 120G 34 W3, H2 = 2 1.4 Hesterberg	7,60 kg	1,00				0,00

Price Bill of materials 0 25R48033_1ZB40C1 0 25 R 48033_1 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
S0161	15	0	Pipe clamp, RB10A 22 W3 1.4 Hesterberg 22	0,10 kg	1,00				0,00
S0165	25	0	T-support TA120D 34 W3 H2=250 1.0 Hesterberg	4,00 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
SC2	20	0	Segment cut 26,9		1,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00
SC3	25	0	Segment cut 33,7		7,00				0,00
SPS171	0	0	SUPPORT PS-171	18,80 kg	1,00				0,00
SPS325	0	0	SUPPORT PS-325	1,77 kg	1,00				0,00
SPS326	0	0	SUPPORT PS-326	11,89 kg	1,00				0,00
XZB03	25	15	welding nozzle for sample line, drawing 1.4541 22		1,00				0,00
Summe: 0 25R48033_1ZB40C1 0				59,74 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

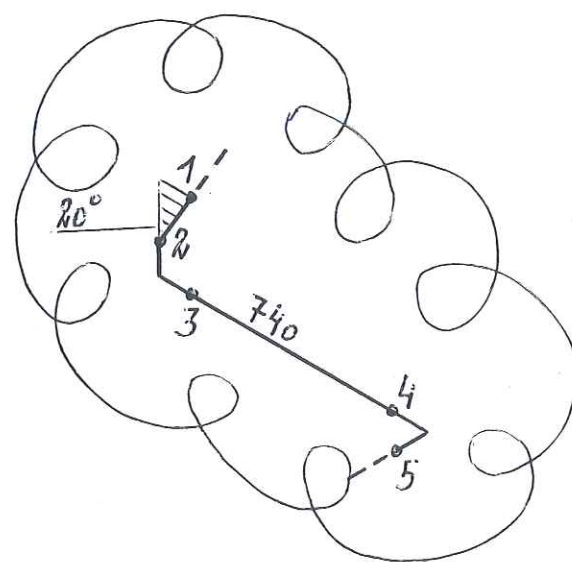
Grand Total:

Total Weight:

** End of List

59,74 kg

↓



CUT PIPE LENGTH	WELDING TIME	WELDING COST	WELDING TIME COST	WELDING COST PER INCH
10	1.0	1.00	1.00	0.10
20	1.5	1.50	1.50	0.075
30	2.0	2.00	2.00	0.067
40	2.5	2.50	2.50	0.063
50	3.0	3.00	3.00	0.060
60	3.5	3.50	3.50	0.058
70	4.0	4.00	4.00	0.057
80	4.5	4.50	4.50	0.056
90	5.0	5.00	5.00	0.056
100	5.5	5.50	5.50	0.055

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	750	25		BEVEL	BEVEL	RG1
<2>	500	15		BEVEL	BEVEL	RG1
<3>	1314	25		BEVEL	BEVEL	RG1
<4>	564	25		BEVEL	BEVEL	RG1
<5>	530	25		BEVEL	BEVEL	RG1
<6>	800	25		BEVEL	SQ.CUT	RG1

FOR INFORMATION ONLY

21. OKT. 2005

LEVELS:	
TOP OF INTERNAL ROADS:	225,00m n.m.
TOP OF FOUNDATION:	225,10m
BOTTOM OF STEEL STRUCTURE:	225,15m = ±0,00

SUPPORTS:
PS-(NO.) - PIPE SUPPORT
WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT
ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev	Revisions	Date	Name	checked

Air Liquide AGS GmbH

Replaces: 79_—
Replaced by: 79_—

Date:	Name:	Checked:	History file:	
17-OCT-2005	Lesum / HGH	05-10-20	F	
Job Code: K70101			Scale ---	Original format DIN A3
Reference: ASU No. 9, Kosice			Sheet: 1	Sheets: 1
Title:			Drawing No:	Rev.
25 R 48033_1 ZB40C1			792.87826	0

Price Bill of materials 0 50R48034ZB40C1 0 50 R 48034 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0109	16	65	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,13 kg	8,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	8,00				0,00
G0099	40	0	Flat packings Graphite with CrNi-insert Standard 40002 92x2x49		1,00				0,00
G0100	50	0	Flat packings Graphite with CrNi-insert Standard 40002 107x2x61		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		1,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		6,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		3,00				0,00
GW8	40	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 48,3x2		2,00				0,00
IV48202	50	0	V48202 supplied by AGS		1,00				0,00
IZ48202	25	20	Z48202 supplied by AGS		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,50				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	1,00				0,00

Price Bill of materials 0 50R48034ZB40C1 0 50 R 48034 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P0133	40	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 48,3x2	2,31 kg	0,10				0,00
P0134	50	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 60,3x2	2,92 kg	2,80				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	1,00				0,00
P0287	50	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2	0,35 kg	2,00				0,00
P1742	25	15	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
P1743	50	40	Reducer, concentric, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x48,3x2	0,20 kg	1,00				0,00
P2997	50	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 60,3	3,00 kg	2,00				0,00
PW11	50	15	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 60,3x2x21,3x1,6		1,00				0,00
S0030250	50	0	T-support, 1.4541, TA 120B 61 W3, H2 = 2 1.4 Hesterberg	3,90 kg	1,00				0,00
S0042250	50	0	T-support, 1.4541, TA 120G 61 W3, H2 = 2 1.4 Hesterberg	8,30 kg	1,00				0,00
S0161	15	0	Pipe clamp, RB10A 22 W3 1.4 Hesterberg 22	0,10 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00

Price Bill of materials 0 50R48034ZB40C1 0 50 R 48034 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SC3	25	0	Segment cut 33,7		1,00				0,00
SC4	40	0	Segment cut 48,3		1,00				0,00
SC5	50	0	Segment cut 60,3		3,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		1,00				0,00
SPS143	0	0	SUPPORT PS-143	1,59 kg	1,00				0,00
SPS144	0	0	SUPPORT PS-144	18,79 kg	1,00				0,00
SPS327	0	0	SUPPORT PS-327, L 50, L=450	1,69 kg	1,00				0,00
XZB08	20	0	MUFFEN 1.4571		1,00				0,00
XZB14	25	0	HOLLÄNDER 1.4571		1,00				0,00
XZB24	25	0	THREAD END 1.4541		1,00				0,00
Summe: 0 50R48034ZB40C1 0				53,02 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

53,02 kg

AS BUILT



Jop Code:	K70101 ASU No. 9, Kosice	Order No.:
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Sheet 1

792.87826 - 00

Maker's No.:

Dimension

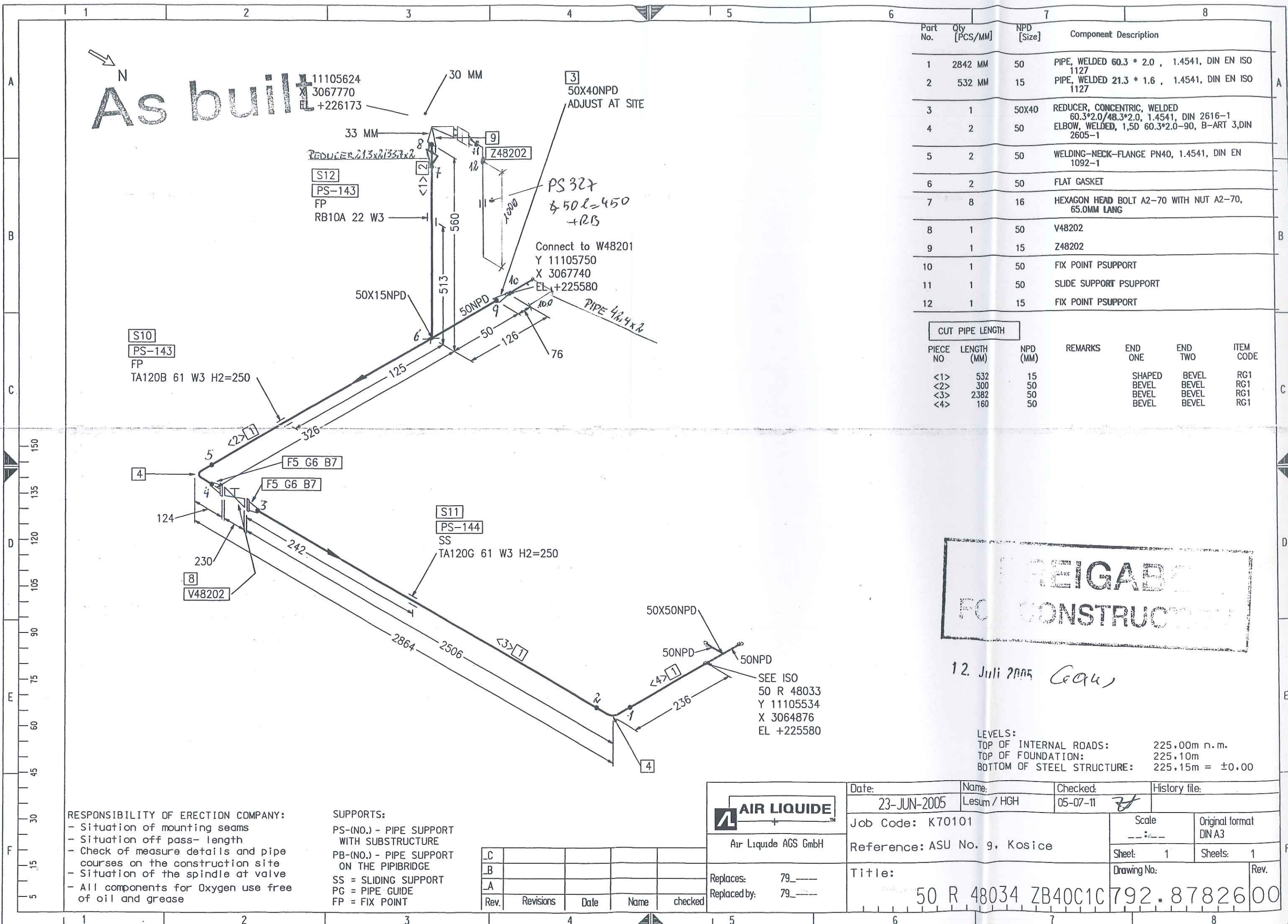
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1000

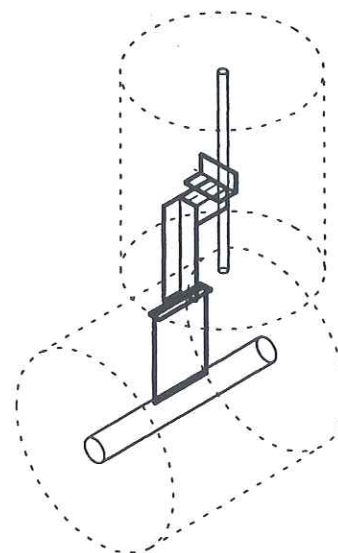
million

1

Kosice



As built



	Date	Name	Check	History File		
	03.06.2005	GU	Zut			
	Job Code:	K70101 ASU No.9 Kosice			Scale:	Original Format
	Reference:	PIPING SUPPORT			1:10	DIN A3
Replaces:	Title	PS-143			Sheet:	1 of: 1
					Drawing-No.	Rev.
					792.87926	a

As built

Technical drawing of a mechanical assembly, likely a test rig or a specialized machine component, showing multiple views and dimensions.

Top View (Left): Shows a circular component (possibly a wheel or a disk) mounted on a vertical shaft. The shaft is supported by a base with two vertical supports. Dimensions include a total width of 300 and a central width of 220.

Front View (Right): Shows the main vertical structure. It consists of a top plate (Z= 225580) and a central shaft assembly. The shaft is supported by a base (Z= 225150) and a middle support (Z= 225330). The total height is 250, with a 15-unit gap between the top plate and the middle support, and a 180-unit gap between the middle support and the base. The base has two vertical supports (Z= 225150) and a central shaft. The shaft is labeled PS-144 and SS.

Side View (Bottom Left): Shows the side profile of the assembly. It includes a base plate (X= 3067140) and a central shaft assembly. The base plate has a width of 300 and a central width of 220. The shaft assembly has a diameter of $\varnothing 18$. The total height is 300, with a 170-unit gap between the base plate and the central shaft assembly. The central shaft assembly is labeled Y= 11105298.

Isometric View (Bottom Right): Shows the assembly in a 3D perspective. It includes a base plate, a central shaft assembly, and a top plate. The assembly is shown in a disassembled state, with the top plate and the central shaft assembly separated from the base plate.

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED


- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:
-THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER
RESISTANT PAINT AND WHITE COLOR

$a \geq 0,7 \times t$
 $a_{\min} = 4 \text{ mm}$

Total Weight:	17.59 kg
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	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by 25 JUL 2005		Zut	<i>[Signature]</i>
Drawn checked by			



HEGMANN


AIR LIQUIDE™

Air Liquide AGS GmbH

Archives Rev.No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

	Date	Name	Check.	History File		
	21.06.2005	SWA	Zut			
	Job Code: K70101 ASU No.9 Kosice				Scale:	Original Format
	Reference: PIPING SUPPORT				1:10	DIN A3
					Sheet:	1 of:
Replaces:	Title PS-144				Drawing-No.	Re
					792.87926	

Price Bill of materials 0 25R48034_1ZB40C1 0 25 R 48034_1 ZB40C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0102	12	55	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	4,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	4,00				0,00
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		1,00				0,00
G0097	25	0	Flat packings Graphite with CrNi-insert Standard 40002 70x2x35		1,00				0,00
GW2	15	0	girth weld 1.0254 (St 37.0) 21,3x2		2,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		4,00				0,00
IV48201	25	0	V48201 supplied by AGS		1,00				0,00
P0130	20	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 26,9x1,6	1,01 kg	0,10				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	1,65				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	1,00				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
P2993	25	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 33,7	1,00 kg	1,00				0,00

Price Bill of materials 0 25R48034_1ZB40C1 0 25 R 48034_1 ZB40C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
S0165	25	0	T-support TA120D 34 W3 H2=250 1.0 Hesterberg	4,00 kg	1,00				0,00
SC2	20	0	Segment cut 26,9		1,00				0,00
SC3	25	0	Segment cut 33,7		2,00				0,00
SPS328	0	0	SUPPORT PS-328, U 80, L=150	11,89 kg	1,00				0,00
			Summe: 0 25R48034_1ZB40C1 0	20,01 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

20,01 kg

AS BUILT



Jop Code: K70101 ASU No. 9, Kosice

Title: 25 R 48034-1

Sheet 1

Drawing No.:

792.87826 - 00

Maker's No.:

(Kunde / TÜV, ...)

geprüft

Schweisstechnologie VAM

Datum / Unterschrift

Ad. Ch. 06
Pelzeder Erich

Datum / Unterschrift

[illegible]

As built

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1630 MM	25	PIPE, WELDED 33.7 * 2.0 , 1.4541, DIN EN ISO 1127
2	1	25	ELBOW, WELDED, 1,5D 33.7*2.0-90, B-ART 3,DIN 2605-1
3	1	25	WELDING-NECK-FLANGE PN40, 1.4541, DIN EN 1092-1
4	2	25	FLAT GASKET
5	8	12	HEXAGON HEAD BOLT A2-70 WITH NUT A2-70, 55.0MM LANG
6	1	25	V48201
7	1	25	SLIDE SUPPORT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	830	25		BEVEL	BEVEL	RG1
<2>	800	25		BEVEL	SQ.CUT	RG1

Y 11107200
X 3068820
EL +225580

PIPE 28x2

5
100

REDUCER 88x2/33.7x2

CONNECT TO W48201

S7

PS 328

SS

TA120D 34 W3 H2=250

C 80 R=150

Bx 220x120x15

Bx 220x150x15

6

V48201

G4 B5

F3 G4 B5

160

SEE ISO
25 R 48033_1
Y 11108038
X 3067748
EL +225580

NUR ZUR INFORMATION

FOR INFORMATION ONLY

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

- PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
- PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE
- SS = SLIDING SUPPORT
- PG = PIPE GUIDE
- FP = FIX POINT

 Air Liquide AGS GmbH	Date: 17-OCT-2005	Name: Lesum / HGH	Checked: 05-10-20	History file:
	Job Code: K70101		Scale: ---:---	Original format: DIN A3
Replaces: 79_	Reference: ASU No. 9, Kosice		Sheet: 1	Sheets: 1
Replaced by: 79_	Title: 25 R 48034_1 ZB40C1		Drawing No: 792.878260	Rev.

Rev.	Revisions	Date	Name	checked

Price Bill of materials 0 80061103ZB16C1 1 50 O 61103 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0100	12	50	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	12,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	12,00				0,00
G0097	25	0	Flat packings Graphite with CrNi-insert Standard 40002 70x2x35		3,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		1,00				0,00
GW15	80	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 88,9x2,3		9,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		10,00				0,00
ILV23076	25	0	LV23076 supplied by AGS		1,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	1,88				0,00
P0136	80	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 88,9x2,3	4,98 kg	12,47				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	4,00				0,00
P0289	80	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 88,9x2,3	0,89 kg	4,00				0,00
P1739	50	25	Reducer, concentric, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 60,3x2x33,7x2	0,17 kg	1,00				0,00

Price Bill of materials 0 80061103ZB16C1 1 50 0 61103 ZB16C1 Revision:

(Cont.)

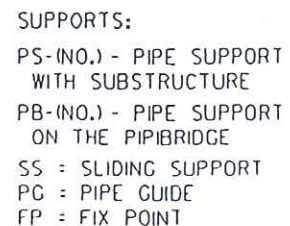
Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P1756	80	50	Reducer, concentric, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 88,9x2,3x60,3x2	0,38 kg	1,00				0,00
P2993	25	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 33,7	1,00 kg	3,00				0,00
PW13	80	25	Pipe weld-in 1.4541 (X 6 CrNiTi 18 10) 88,9x2,3x33,7x2		1,00				0,00
S0044250	80	0	T-support, 1.4541, TA 120G 89 W3, H2 = 2 1.4 Hesterberg	8,70 kg	4,00				0,00
SC3	25	0	Segment cut 33,7		6,00				0,00
SC6	80	0	Segment cut 88,9		6,00				0,00
SPG01	0	0	PIPE GUIDE 1.0 HESTERBERG		2,00				0,00
Summe: 0 80061103ZB16C1 1				108,30 kg		0,00	0,00		0,00

Total Delivery:
Total Mounting:
Grand Total:
Total Weight:
** End of List


108,30 kg

AS DUBLI

F



SITE-OFFICE

	Date:	Name:	Checked:	History file.	
	25-AUG-2005	Lesum / HGH	05-09-15		
Air Liquide AGS GmbH	Job Code: K70101	Scale	Original format		
	Reference: ASU No. 9. Kosice	---	DIN A3		
		Sheet: 1	Sheets: 1		
Replaces: 79_-----	Title:	Drawing No.			Rev.
Replaced by: 79_-----	80 OL 61103 ZB16C1		792.87826		01

Price Bill of materials 0 25OL61104ZB16C1 0 25 OL 61104 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		1,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		1,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		1,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	0,55				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
SC3	25	0	Segment cut 33,7		1,00				0,00
Summe: 0 25OL61104ZB16C1 0				0,87 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

0,87 kg

AS BUILT



As built

40NPD
40NPD
SEE ISO
40 OL 61110
Y 11128585
X 3055773
EL +225800

40X25NPD

2
25X20NPD

SEE ISO
25 OL 61104BOX
Y 11128585
X 3055316
EL +225800

50

20NPD

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	407 MM	25	PIPE, WELDED 33.7 * 2.0 , 1.4541, DIN EN ISO 1127
2	1	25X20	REDUCER, CONCENTRIC, WELDED 33.7*2.0/26.9*1.6, 1.4541, DIN 2616-1

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	407	25		BEVEL	BEVEL	RG1

NUR ZUR INFORMATION
FOR INFORMATION ONLY


21. OCT. 2005

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked

 Air Liquide AGS GmbH	Date: 17-OCT-2005	Name: Lesum / HGH	Checked: 05-10-20	History file:	
	Job Code: K70101		Scale: 1:1		Original format: DIN A3
Reference: ASU No. 9, Kosice		Title: 25 OL 61104 ZB16C1		Drawing No: 1792.878260	
Replaces: 79_		Replaced by: 79_		Rev.	

Price Bill of materials 0 15OL61107ZB16C1 0 15 OL 61107 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0100	12	50	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	8,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	8,00				0,00
G0092	15	0	Flat packings Graphite with CrNi-insert Standard 40002 50x2x22		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		5,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		2,00				0,00
IHH61103	15	0	HH61103		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	0,85				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	0,30				0,00
P0282	15	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 21,3x1,6	0,03 kg	2,00				0,00
P1742	25	15	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
P2991	15	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 21,3	1,00 kg	2,00				0,00
S0039	25	0	T-support, 1.4541, TA 120G 34 W3 1.4 Hesterberg 34	7,60 kg	1,00				0,00

Price Bill of materials 0 15OL61107ZB16C1 0 15 OL 61107 ZB16C1 Revision:


(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SC1	15	0	Segment cut 21,3		2,00				0,00
SC3	25	0	Segment cut 33,7		1,00				0,00
XZB24	25	0	THREAD END 1.4541		1,00				0,00
Summe: 0 15OL61107ZB16C1 0				11,45 kg		0,00	0,00		0,00

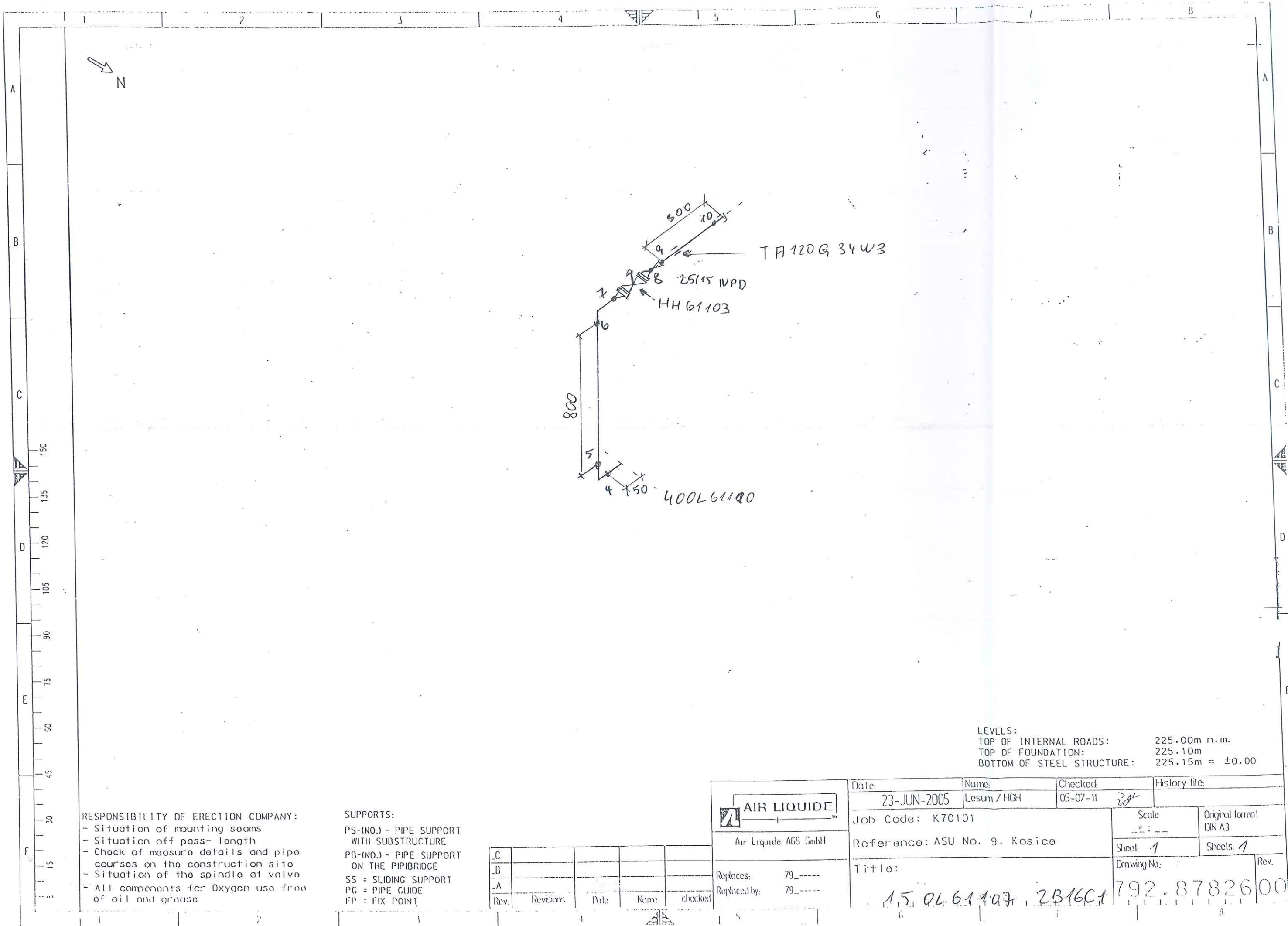
Total Delivery:
Total Mounting:
Grand Total:
Total Weight: 11,45 kg
** End of List

AS BEST



VAM	SCHWEISSDOKUMENTATION WELDING DOCUMENTATION		erstellt:  Pelzeder Erich	geprüft Schweissttechnologie VAM	(Kunde / TÜV, ...)
	Prot. Nr.	ASU No. 9, Kosice	Order No.:	Datum / Unterschrift	Datum / Unterschrift
Jop Code: K70101	Client: AIR LIQUIDE	Title: 15 OL 61107	Project No.: 9050300	Drawing No.: 792.87826 - 00	Maker's No.:

[illegible]



RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting soams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE

PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				

AIR LIQUIDE

Air Liquide AGS GmbH

Replaces: 79_----

Replaced by: 79_----

Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
Job Code: K70101		Scale: 1:1	Original format: DIN A3
Reference: ASU No. 9. Kosice		Sheet: 1	Sheets: 1
Title: 15.04.61190, 2B16C1		Drawing No: 792.8782600	Rev.

LEVELS:

TOP OF INTERNAL ROADS: 225.00m n.m.

TOP OF FOUNDATION: 225.10m

BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

Price Bill of materials 0 25061108ZB16C1 0 25 O 61108 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		1,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		1,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		9,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	2,45				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	5,00				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
SC3	25	0	Segment cut 33,7		6,00				0,00
Summe: 0 25061108ZB16C1 0				4,32 kg		0,00	0,00		0,00

Total Delivery:	
Total Mounting:	
Grand Total:	
Total Weight:	4,32 kg
** End of List	

AS BUILT



N



SUPPORTS:

PS-(NO.) - PIPE SUPPORT
WITH SUBSTRUCTURE

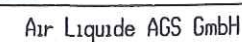
PB-(NO.) - PIPE SUPPORT
ON THE PIPIBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

Rev.	Revisions	Date	Name	checked



Replaces: 79____
Replaced by: 79____

Date:	Name:	Checked:	History file:	
17-OCT-2005	Lesum / HGH	05-10-20	<i>25</i>	
Job Code: K70101			Scale -- : --	Original format DIN A3
Reference: ASU No. 9, Kosice			Sheet: 1	Sheets: 1
Title:			Drawing No:	Rev.
25 0 61108 ZB16C1			792.87826	0

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1058 MM	25	PIPE, WELDED 33.7 * 2.0 , 1.4541, DIN EN ISO 1127
2	1	25X20	REDUCER, CONCENTRIC, WELDED 33.7*2.0/26.9*1.6, 1.4541, DIN 2616-1
3	2	25	ELBOW, WELDED, 1,5D 33.7*2.0-90, B-ART 3,DIN 2605-1
4	1	20	ELBOW, WELDED, 1,5D 26.9*1.6-90, B-ART 3,DIN 2605-1

CUT PIPE LENGTH		NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
PIECE NO	LENGTH (MM)					
<1>	209	25		BEVEL	BEVEL	RG1
<2>	224	25		BEVEL	BEVEL	RG1
<3>	625	25		BEVEL	BEVEL	RG1

NUR ZUR INFORMATION

FOR INFORMATION ONLY

21. OKT. 2005

LEVELS:	
TOP OF INTERNAL ROADS:	225,00m n.m.
TOP OF FOUNDATION:	225,10m
BOTTOM OF STEEL STRUCTURE:	225,15m = $\pm 0,00$

Price Bill of materials 0 25OL61110ZB10C1 0 25 OL 61110 ZB10C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
G0093	32	0	FLAT PACKINGS Graphite with CrNi-insert Standard 40002 42,4		1,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		1,00				0,00
GW7	32	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 42,4x2		1,00				0,00
GW8	40	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 48,3x2		6,00				0,00
P0133	40	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 48,3x2	2,31 kg	1,89				0,00
P0286	40	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 48,3x2	0,21 kg	2,00				0,00
P1016	40	25	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 48,3x2x33,7x2	0,32 kg	1,00				0,00
P1741	40	32	REDUCER, CONCECENTRIC, WELDED 1.4541		1,00				0,00
PW134	40	15	PIPE WELD-IN 1.4541		1,00				0,00
SC4	40	0	Segment cut 48,3		3,00				0,00
Summe: 0 25OL61110ZB10C1 0				5,11 kg		0,00	0,00		0,00

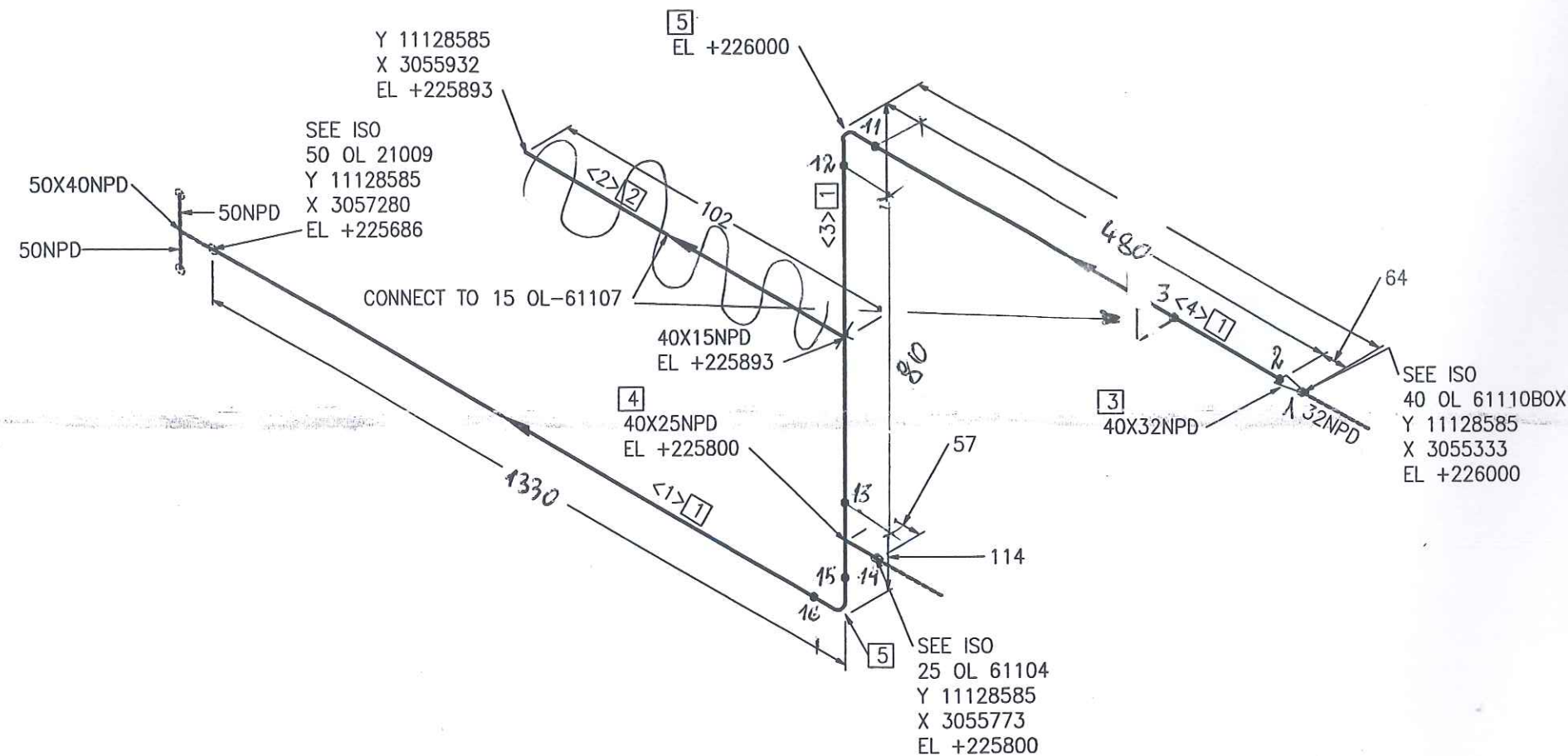
Total Delivery:
Total Mounting:

AS BUILT

Price Bill of materials 0 25OL61110ZB10C1 0 25 OL 61110 ZB10C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
Grand Total:									
Total Weight:				5,11 kg					
** End of List									

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1855 MM	40	PIPE, WELDED 48.3 * 2.0 , 1.4541, DIN EN ISO 1127
2	80 MM	15	PIPE, WELDED 21.3 * 1.6 , 1.4541, DIN EN ISO 1127
3	1	40X32	REDUCER, CONCENTRIC, WELDED 48.3*2.0/42.4*2.0, 1.4541, DIN 2616-1
4	1	40X25	TEE, WELDED 48.3*2.0/33.7*2.0, 1.4541, DIN 2615-1
5	2	40	ELBOW, WELDED, 1,5D 48.3*2.0-90, B-ART 3,DIN 2605-1

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	1393	40		BEVEL	BEVEL	RG1
<2>	80	15		SHAPED	SQ.CUT	RG1
<3>	86	40		BEVEL	BEVEL	RG1
<4>	376	40		BEVEL	BEVEL	RG1

NUR ZUR INFORMATION!

21 OCT. 2005

LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
 - Situation of mounting seams
 - Situation off pass- length
 - Check of measure details and pipe courses on the construction site
 - Situation of the spindle at valve
 - All components for Oxygen use free of oil and grease

SUPPORTS:
 PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

Rev.	Revisions	Date	Name	checked

AIR LIQUIDE Air Liquide AGS GmbH	Date: 17-OCT-2005	Name: Lesum / HGH	Checked: 05-10-20	History file:
	Job Code: K70101		Scale: ---:---	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1	Sheets: 1	
Title: 40 OL 61110 ZB16C1792.878260		Drawing No: Rev.		

Price Bill of materials 0 25OL61204ZB10C1 0 25 OL 61204 ZB10C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		1,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	0,82				0,00
SC3	25	0	Segment cut 33,7		1,00				0,00
Summe: 0 25OL61204ZB10C1 0				1,30 kg		0,00	0,00		0,00

Total Delivery:	
Total Mounting:	
Grand Total:	
Total Weight:	1,30 kg
** End of List	



Prot Nr.

Jop Code:	K70101 ASU No. 9, Kosice	Order No.:
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Client:	AIR LIQUIDE	Title:	25 OL 61204
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AIR LIQUIDE

Title:

25 OL 61204

Sheet 1

Drawing No.:

Maker's No.:

(Kunde / TÜV, ...)

geprüft

erstellt:

Ab, d. d. 21.11.
Pelzeder Erich
Datum / Unterschrift

Schweisstechnologie VAM

Datum / Unterschrift

[illegible]

Pelzeder Erich, 26.01.06

1

Kosice



As built

50NPD
50NPD
50X25NPD
SEE ISO
50 OL 21009
Y 11128585
X 3057289
EL +225900

820

SEE ISO
25 OL 61204BOX
Y 11128585
X 3056521
EL +225900

25NPD

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	768 MM	25	PIPE, WELDED 33.7 * 2.0 , 1.4541, DIN EN ISO 1127

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	768	25		BEVEL	BEVEL	RG1


NUR ZUR INFORMATION
FOR INFORMATION ONLY

LEVELS: 21 OCT 2005
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked

 Air Liquide AGS GmbH	Date: 17-OCT-2005	Name: Lesum / HGH	Checked: 05-10-20	History file:	
	Job Code: K70101		Scale: 1:1	Original format: DIN A3	
Reference: ASU No. 9, Kosice		Sheet: 1		Sheets: 1	
Title: 25 OL 61204 ZB16C1		Drawing No: 1792-878260		Rev.	
Replaces: 79_		Replaced by: 79_			

Price Bill of materials 0 15OL61207ZB16C1 0 15 OL 61207 ZB16C1 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0100	12	50	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	8,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	8,00				0,00
G0092	15	0	Flat packings Graphite with CrNi-insert Standard 40002 50x2x22		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		7,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		2,00				0,00
IHH61103	15	0	HH61103		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	1,04				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	0,30				0,00
P0282	15	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 21,3x1,6	0,03 kg	3,00				0,00
P1742	25	15	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
P2991	15	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 21,3	1,00 kg	2,00				0,00
S0039	25	0	T-support, 1.4541, TA 120G 34 W3 1.4 Hesterberg 34	7,60 kg	1,00				0,00

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDERROHRUNG KOSICE AIR LIQUIDE

Price Bill of materials 0 15OL61207ZB16C1 0 15 OL 61207 ZB16C1 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SC1	15	0	Segment cut 21,3		3,00				0,00
SC3	25	0	Segment cut 33,7		1,00				0,00
XZB24	25	0	THREAD END 1.4541		1,00				0,00
Summe: 0 15OL61207ZB16C1 0				11,63 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

** End of List

11,63 kg



Jop Code:	K70101 ASU No. 9, Kosice	Order No.:
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Client: AIR LIQUIDE

Title:

15 OL 61207

Sheet 1

Drawing No.:

792-87826 - 00

Maker's No.:

(Kunde / TÜV, ...)

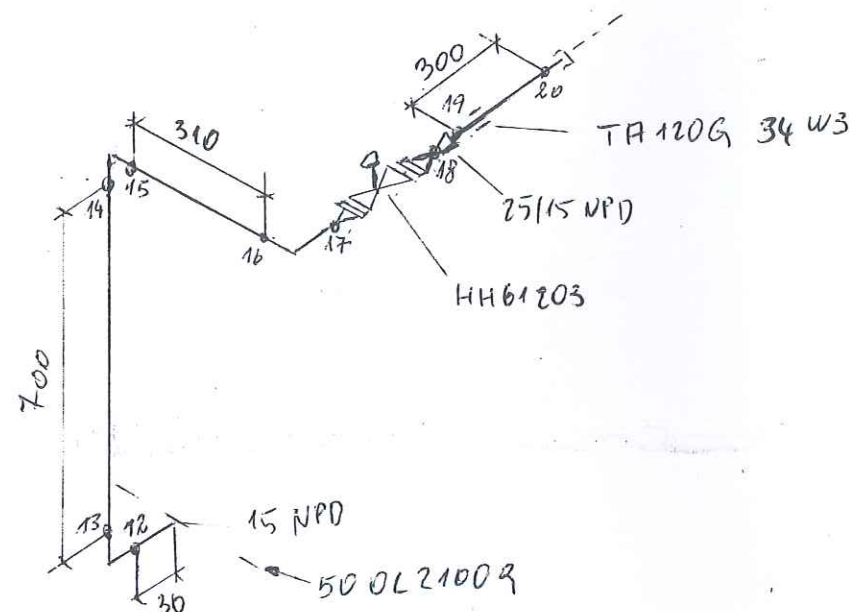
geprüft

erstellt:

20.02.2024
 RLL
 Pelzeder Erich
 Schweißstechnologie VAM

Datum / Unterschrift

[illegible]

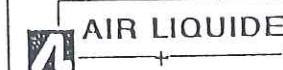


RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT



Air Liquide AGS GmbH

Replaces: 79_----

Replaced by: 79_----

Rev.	Revisions	Date	Name	checked
C				
B				
A				

Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
Job Code: K70101		Scale: ---:---	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1	Sheets: 1
Title: 15.01.61.2.07.2B16C1		Drawing No: 792.87826	Rev. 00

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Price Bill of materials 0 150WC70020AA10C2 0 150 WC 70020 AA10C2 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0017	20	70	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,23 kg	8,00				0,00
B0025	20	150	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,45 kg	8,00				0,00
B0508	20	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,06 kg	16,00				0,00
G0158	100	0	Fibrous packings asbestos-free laminate made of aramide f 162x2x115		1,00				0,00
G0160	150	0	Fibrous packings asbestos-free laminate made of aramide f 218x2x169		3,00				0,00
GW18	100	0	girth weld 1.0254 (St 37.0) 114,3x3,6		1,00				0,00
GW24	150	0	GIRTH WELD 1.0254 (St 37.0) 168,3x4,5		9,00				0,00
IK70580	150	0	K70580 supplied by AGS		1,00				0,00
P0011	150	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 168,3x4,5	18,20 kg	0,44				0,00
P0169	150	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 168,3x4,5	6,55 kg	3,00				0,00
P0516	150	100	Tee made of seamless pipe 1.0254 (St 37.0) DIN 2609 168,3x4,5x114,3x3,6	5,92 kg	1,00				0,00
P2881	100	0	Welding neck flanges; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 114,3	4,50 kg	1,00				0,00

Price Bill of materials 0 150WC70020AA10C2 0 150 WC 70020 AA10C2 Revision:

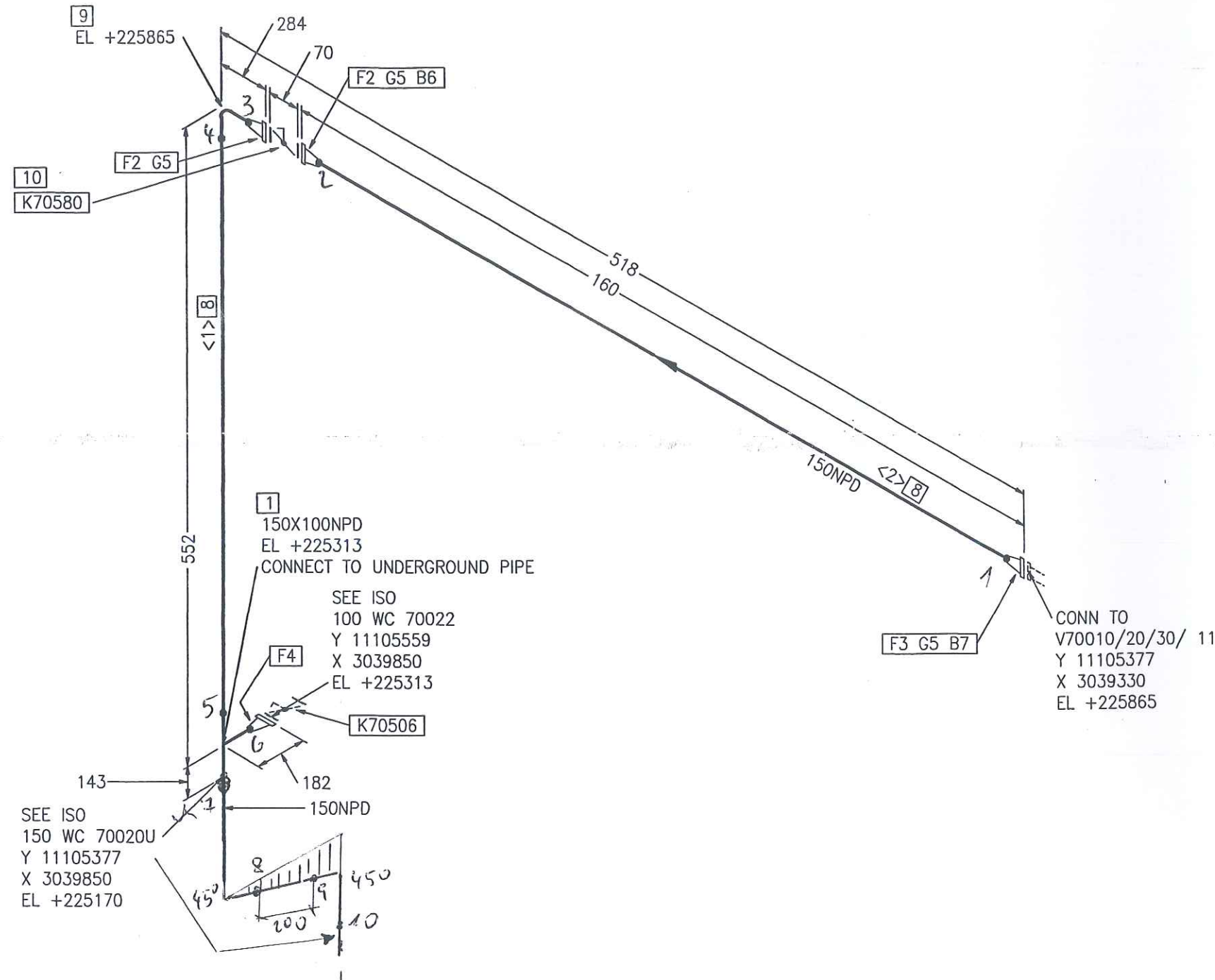
(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
P2883	150	0	WELDING NECK FLANGES; PN 16 C22.8 /DIN 2633/ 168,3	7,75 kg	3,00				0,00
SC9	150	0	Segment cut 168,3		6,00				0,00
Summe: 0 150WC70020AA10C2 0				67,73 kg		0,00	0,00		0,00

Total Delivery:	
Total Mounting:	
Grand Total:	
Total Weight:	67,73 kg
** End of List	

AC BUILT

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1	150X100	TEE, SEAMLESS 168.3*4.5/114.3*3.6, ST37.0, DIN 2615-1
2	2	150	WELDING-NECK-FLANGE PN10, S235JRG2, DIN EN 1092-1
3	1	150	WELDING-NECK-FLANGE PN16, S235JRG2, DIN EN 1092-1
4	1	100	WELDING-NECK-FLANGE PN10, S235JRG2, DIN EN 1092-1
5	3	150	FIBROUS PACKINGS
6	8	20	HEXAGON HEAD BOLT 5.6 WITH NUT 5-2, 150.0MM LANG
7	8	20	HEXAGON HEAD BOLT 5.6 WITH NUT 5-2, 70.0MM LANG
8	230 MM	150	PIPE, SEAMLESS 168.3*4.5, ST37.0, DIN EN 10220
9	1	150	ELBOW, SEAMLESS, 1,5D 168.3*4.5-90, B-ART 3, DIN 2605-1
10	1	150	K70580

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	180	150		BEVEL	BEVEL	RN
<2>	50	150		BEVEL	BEVEL	RN

PREIGABE
FOR CONSTRUCTION

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				

AIR LIQUIDE Air Liquide AGS GmbH	Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
	Job Code: K70101		Scale: 1:1	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1		Sheets: 1
Title: 150 WC 70020 AA10C2		Drawing No: 792.87826		Rev: 00

Price Bill of materials 0 150WC70021AA10C2 0 150 WC 70021 AA10C2 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0017	20	70	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,23 kg	8,00				0,00
B0025	20	150	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,45 kg	8,00				0,00
B0508	20	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,06 kg	16,00				0,00
G0160	150	0	Fibrous packings asbestos-free laminate made of aramide f 218x2x169		3,00				0,00
GW18	100	0	girth weld 1.0254 (St 37.0) 114,3x3,6		1,00				0,00
GW24	150	0	GIRTH WELD 1.0254 (St 37.0) 168,3x4,5		9,00				0,00
IK77590	150	0	K77590 supplied by AGS		1,00				0,00
P0011	150	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 168,3x4,5	18,20 kg	0,64				0,00
P0169	150	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 168,3x4,5	6,55 kg	3,00				0,00
P0516	150	100	Tee made of seamless pipe 1.0254 (St 37.0) DIN 2609 168,3x4,5x114,3x3,6	5,92 kg	1,00				0,00
P2881	100	0	Welding neck flanges; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 114,3	4,50 kg	1,00				0,00
P2883	150	0	WELDING NECK FLANGES; PN 16 C22.8 /DIN 2633/ 168,3	7,75 kg	3,00				0,00



Price Bill of materials 0 150WC70021AA10C2 0 150 WC 70021 AA10C2 Revision:

(Cont.)

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
SC9	150	0	Segment cut 168,3		6,00				0,00
Summe: 0 150WC70021AA10C2 0				71,37 kg		0,00	0,00		0,00

Total Delivery:

Total Mounting:

Grand Total:

Total Weight:

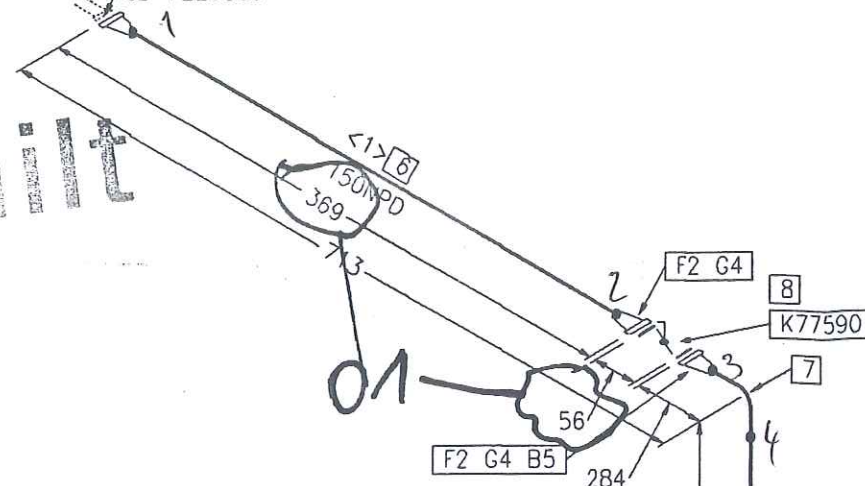
** End of List

71,37 kg

AS DUST

As built

CONN TO
V77010/ BL1
Y 11105377
X 3041876
EL +225865



1
150X100NPD
EL +225313
CONNECT TO UNDERGROUND PIPE

SEE ISO
150 WC 70021U
Y 11105377
X 3041163
EL +225170

SEE ISO
100 WC 70023
Y 11105559
X 3041163
EL +225313

45° 8<20079 10 45°

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul



Air Liquide AGS GmbH

Replaces: 79_-----
Replaced by: 79_-----

Date:	16-SEP-2005	Name:	Lesum / HGH	Checked:	05-09-15	History file.
Job Code:	K70101	Reference:	ASU No. 9, Kosice	Scale:	1	Original format DIN A3
Title:	150 WC 70021 AA10C2	Drawing No.	792.87826	Rev.	01	

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1	150X100	TEE, SEAMLESS 168.3*4.5/114.3*3.6, ST37.0, DIN 2615-1
2	2	150	WELDING-NECK-FLANGE PN10, S235JRG2, DIN EN 1092-1
3	1	100	WELDING-NECK-FLANGE PN10, S235JRG2, DIN EN 1092-1
4	2	150	FIBROUS PACKINGS
5	8	20	HEXAGON HEAD BOLT 5.6 WITH NUT 5-2, 130.0MM LANG
6	439 MM	150	PIPE, SEAMLESS 168.3*4.5, ST37.0, DIN EN 10220
7	1	150	ELBOW, SEAMLESS, 1,5D 168.3*4.5-90, B-ART 3, DIN 2605-1
8	1	150	K77590

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	259	150		BEVEL	BEVEL	RN
<2>	180	150		BEVEL	BEVEL	RN

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

Price Bill of materials 0 100WC70022AA10C2 0 100 WC 70022 AA10C2 Revision:

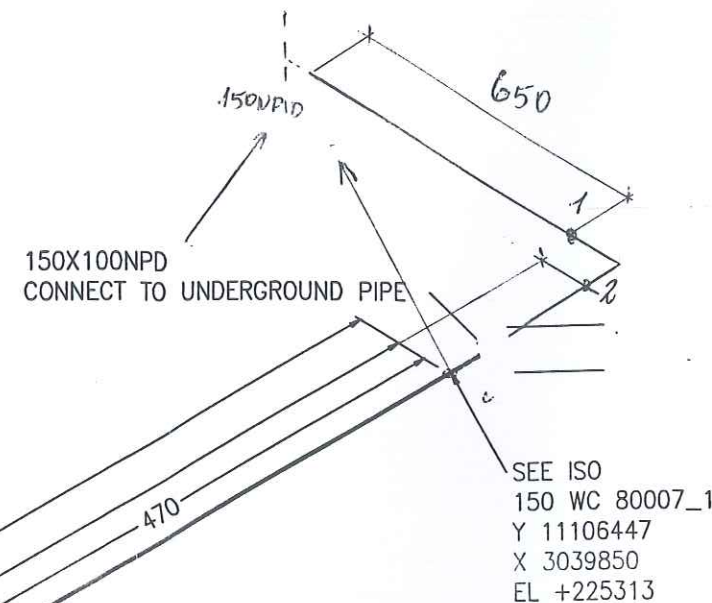
Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0014	16	120	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,20 kg	8,00				0,00
B0507	16	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,03 kg	8,00				0,00
G0158	100	0	Fibrous packings asbestos-free laminate made of aramide f 162x2x115		1,00				0,00
GW18	100	0	girth weld 1.0254 (St 37.0) 114,3x3,6		3,00				0,00
IK70506	100	0	K70506 supplied by AGS		1,00				0,00
P0009	100	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 114,3x3,6	9,83 kg	1,47				0,00
P0208	100	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 114,3x3,6	2,35 kg	1,00				0,00
P2881	100	0	Welding neck flanges; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 114,3	4,50 kg	1,00				0,00
SC7	100	0	Segment cut 114,3		2,00				0,00
Summe: 0 100WC70022AA10C2 0				23,14 kg		0,00	0,00		0,00

Total Delivery:
Total Mounting:
Grand Total:
Total Weight:
** End of List

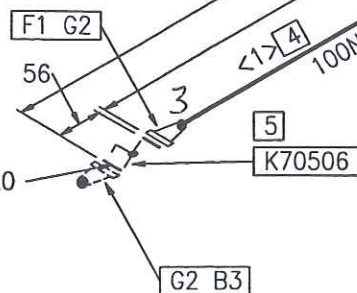
23,14 kg

AS BOLT

As built



SEE ISO
150 WC 70020
Y 11105559
X 3039850
EL +225313



RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				

AIR LIQUIDE Air Liquide AGS GmbH	Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
	Job Code: K70101		Scale: 1:1	Original format: DIN A3
Reference: ASU No. 9, Kosice		Sheet: 1		Sheets: 1
Title: 100 WC 70022 AA10C2		Drawing No: 792.8782600		Rev.

Price Bill of materials 0 100WC70023AA10C2 0 100 WC 70023 AA10C2 Revision:

Part No.	ND1	ND2	Designation of Parts	Weight	Quantity	Delivery	Mounting	D + M	Total
B0014	16	120	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,20 kg	8,00				0,00
B0507	16	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,03 kg	8,00				0,00
G0158	100	0	Fibrous packings asbestos-free laminate made of aramide f 162x2x115		2,00				0,00
GW18	100	0	girth weld 1.0254 (St 37.0) 114,3x3,6		3,00				0,00
IK77506	100	0	K77506 supplied by AGS		1,00				0,00
P0009	100	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 114,3x3,6	9,83 kg	0,85				0,00
P0167	100	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 114,3x3,6	2,35 kg	1,00				0,00
P2881	100	0	Welding neck flanges; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 114,3	4,50 kg	1,00				0,00
SC7	100	0	Segment cut 114,3		2,00				0,00
Summe: 0 100WC70023AA10C2 0				17,05 kg		0,00	0,00		0,00

Total Delivery:	
Total Mounting:	
Grand Total:	
Total Weight:	17,05 kg
** End of List	

AS BUILT



Job Code:	K70101 ASU No. 9, Kosice	Order No.:
-----------	--------------------------	------------

Title: 100 WC 70023

Ring No.:

Maker's No.:

Dimension

114 3*3 6

R0056

[illegible]

1

Remerk

1

Kosice

Preis-Stückliste 0 300N70074AA16C1 0 300 N 70074 AA16C1 Revision: 01

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0018	20	80	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,26 kg	16,00				0,00
B0037	24	120	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1/ DIN ISO 4014		12,00				0,00
B0502	20	0	Hexagon head nuts Ck 35 (1.1181) DIN 267-13	0,06 kg	16,00				0,00
B0509	24	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,11 kg	12,00				0,00
G0108	150	0	Flat packings Graphite with CrNi-insert Standard 40002 218x2x169		2,00				0,00
G0118	300	0	Flat packings Graphite with CrNi-insert Standard 40002 378x2x325		2,00				0,00
GW22	150	0	girth weld 1.0254 (St 37.0) 168,3x4,5		2,00				0,00
GW26	200	0	girth weld 1.0254 (St 37.0) 219,1x4,5		4,00				0,00
GW31	300	0	girth weld 1.0254 (St 37.0) 323,9x5,6		5,00				0,00
IF70074	300	0	F70074		1,00				0,00
IFV70074	150	0	FV70074		1,00				0,00
P0069	200	0	PIPE, WELDED 1.0254 (St 37.0) DIN 1626 219,1x4,5	23,80 kg	0,70				0,00
P0071	300	0	PIPE, WELDED St37.0 /DIN 2458/ 323,9x5,6	44,00 kg	4,22				0,00

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 300N70074AA16C1 0 300 N 70074 AA16C1 Revision: 01

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
P0225	200	0	Elbow 90° R=1,5 DA, welded 1.0254 (St 37.0) DIN 2609 219,1x4,5	11,40 kg	2,00				0,00
P0227	300	0	Elbow 90° R=1,5 DA, welded 1.0254 (St 37.0) DIN 2609 323,9x5,6	31,59 kg	1,00				0,00
P1478	300	150	REDUCER, CONCENTRIC, SEAMLESS St35.8 /DIN 2616-2/ 323,9x5,6/168,3x4,5	12,80 kg	1,00				0,00
P1480	200	150	REDUCER, CONCENTRIC, SEAMLESS St35.8I /DIN 2616-2/ 219,1x4,5/168,3x4,5	12,70 kg	1,00				0,00
P2943	150	0	WELDING NECK FLANGES; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 168,3	7,50 kg	2,00				0,00
P2951	300	0	WELDING NECK FLANGES, PN 16 C22.8 /DIN 2633/		2,00				0,00
S0062	300	0	Web-support, SV 150G 324 W1 OZN 1.0 Hesterberg 324	52,10 kg	1,00				0,00
SC10	200	0	Segment cut 219,1		3,00				0,00
SC12	300	0	Segment cut 323,9		3,00				0,00
SPS085	0	0	SUPPORT PS-085	109,25 kg	1,00				0,00
Summe: 0 300N70074AA16C1 0				465,02 kg		0,00	0,00		0,00

Liefersumme:
Montagesumme:
Gesamtsumme:

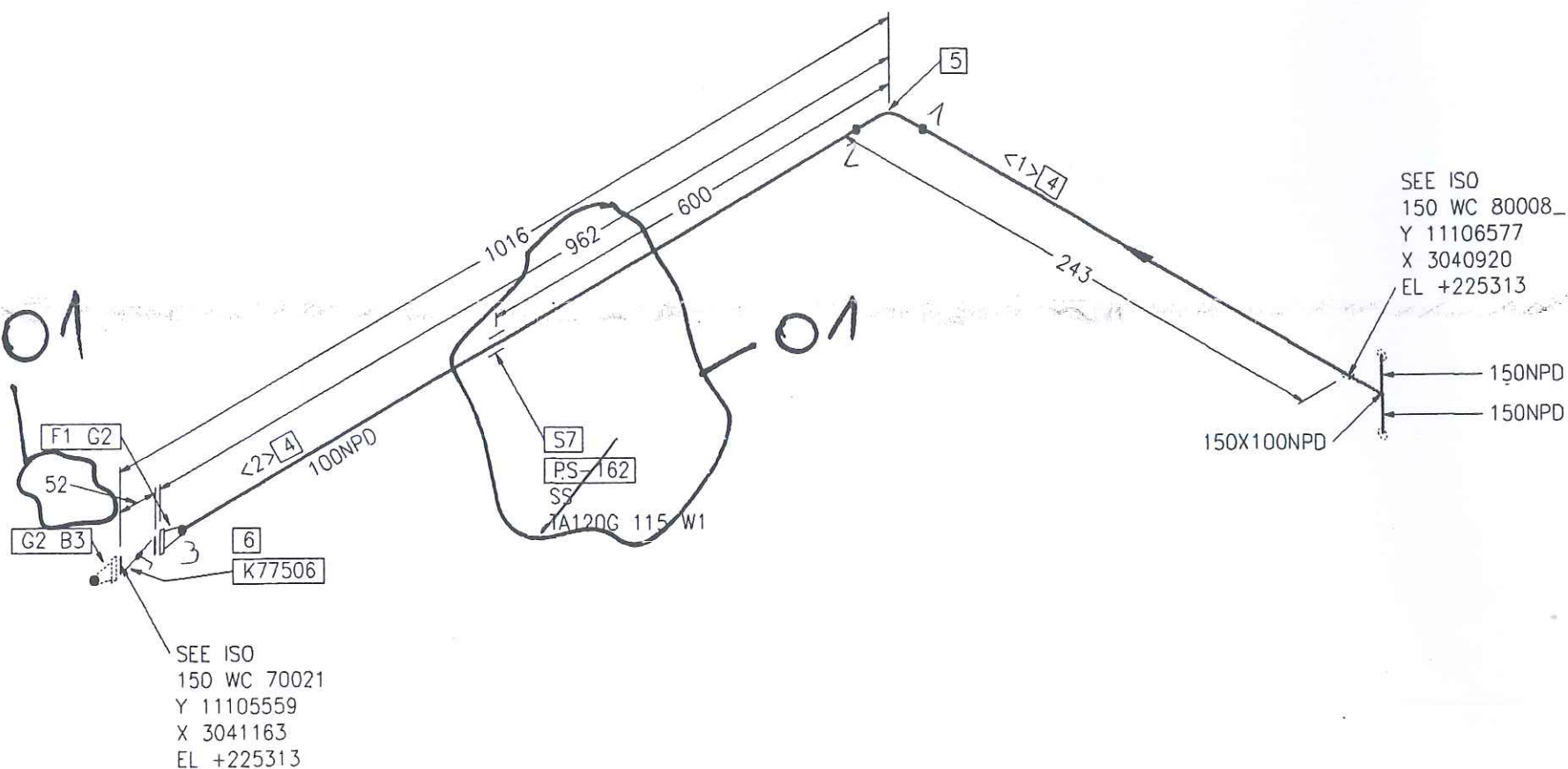
AS DELT



Preis-Stückliste 0 300N70074AA16C1 0 300 N 70074 AA16C1 Revision: 01						
Teilenummer	NW1 NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage
Gesamtgewicht:			465,02 kg			
** Ende der Ausgabe						
					L + M	Gesamt

AC DUFF

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1	100	WELDING-NECK-FLANGE PN10, S235JRG2, DIN EN 1092-1
2	2	100	FIBROUS PACKINGS
3	8	16	HEXAGON HEAD BOLT 5.6 WITH NUT 5-2. 120.0MM LANG
4	849 MM	100	PIPE, SEAMLESS 114.3*3.6, ST37.0, DIN EN 10220
5	1	100	ELBOW, SEAMLESS, 1,5D 114.3*3.6-90, B-ART 3,DIN 2605-1
6	1	100	K77506
7	1	100	SLIDE SUPPORT PSUPPORT


CUT PIPE LENGTH			REMARKS	END ONE	END TWO	ITEM CODE
PIECE NO	LENGTH (MM)	NPD (MM)				
<1>	91	100		BEVEL	BEVEL	RN
<2>	758	100		BEVEL	BEVEL	RN

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

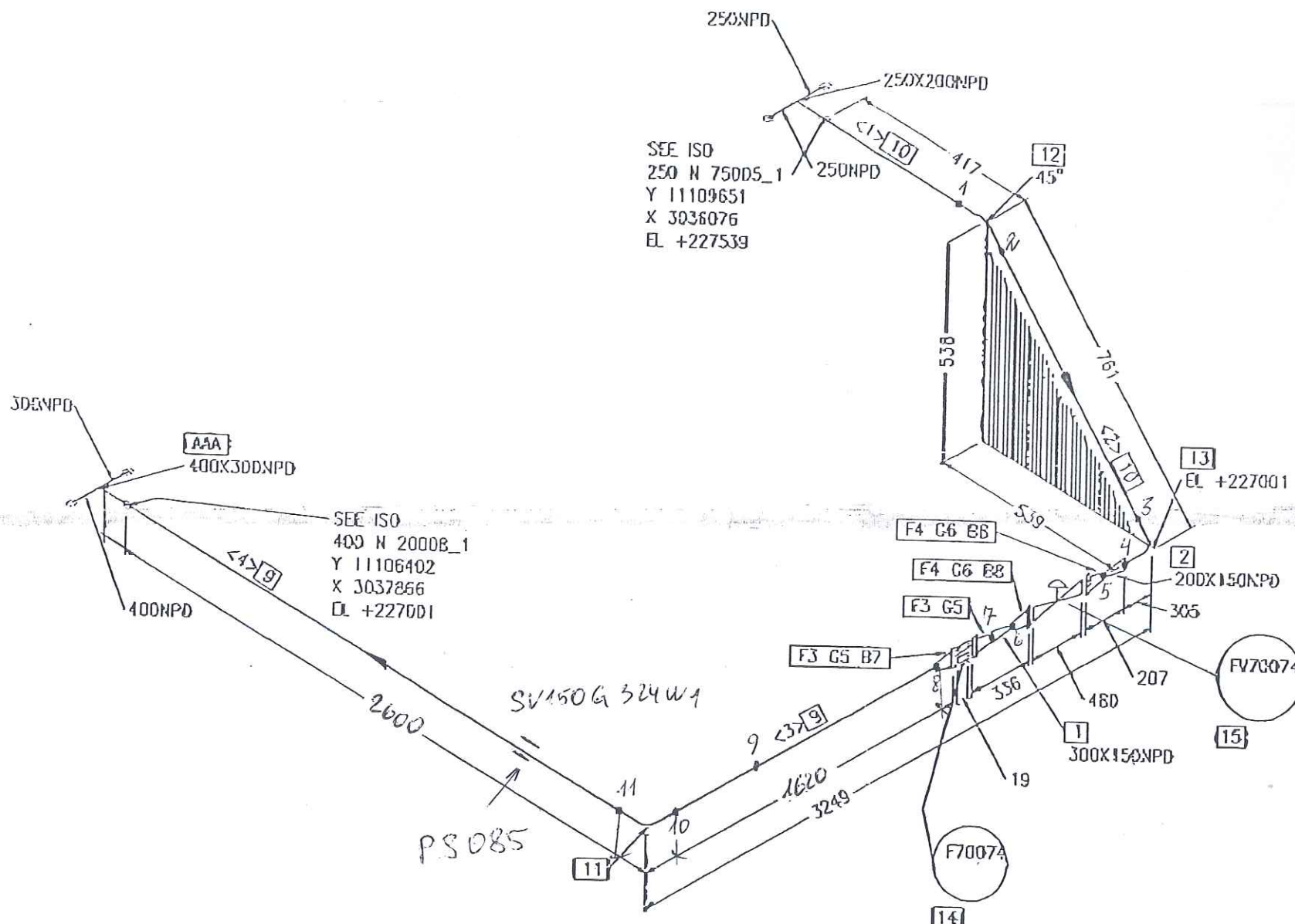
RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

 Air Liquide AGS GmbH	Date: 16-SEP-2005	Name: Lesum / HGH	Checked: 05-09-15	History file.	
	Job Code: K70101			Scale: 1:1	Original format: DIN A3
	Reference: ASU No. 9. Kosice			Sheet: 1	Sheets: 1
	Title: 100 WC 70023 AA10C2 792.8782601			Drawing No.	Rev.

As built



Part No.	Qty (Pcs/vv)	Size (mm)	Component Description
1	1	300	300X150 REDUCER, CONCENTRIC, SEAMLESS, 323.9*5.6/168.3*4.5, ST37.0, DIN 2616-1
2	1	200	200X150 REDUCER, CONCENTRIC, SEAMLESS, 219.1*4.5/168.3*4.5, ST37.0, DIN 2616-1
3	2	300	WELDING-NECK-FLANGE PN16, S235JR02, DIN EN 1092-1
4	2	150	WELDING-NECK-FLANGE PN16, S235JR02, DIN EN 1092-1
5	2	300	FLAT GASKET
6	2	150	FLAT GASKET
7	12	24	HEXAGON HEAD BOLT 5.6 WITH PKR 5-2, 120.0MM LARG
8	16	20	HEXAGON HEAD BOLT 5.6 WITH PKR 5-2, 70.0MM LARG
9	5843 MM	300	PIPE, WELDED 323.9*5.6, ST37.0, DIN EN 10220
10	622 MM	200	PIPE, WELDED 219.1*4.5, ST37.0, DIN EN 10220
11	1	300	ELBOW, WELDED, 1.5D 323.9*5.6-90, B-PRT 3, DIN 2605-1
12	1	200	ELBOW, WELDED, 1.5D 219.1*4.5-45, B-PRT 3, DIN 2605-1
13	1	200	ELBOW, WELDED, 1.5D 219.1*4.5-90, B-PRT 3, DIN 2605-1
14	1	300	ERROR READING SPECIALTY MATERIAL DESCRIPTION LIBRARY F70074
15	1	150	ERROR READING SPECIALTY MATERIAL DESCRIPTION LIBRARY FV70074

CUT PIPE LENGTH					
PIPE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO
<1>	291	260		BEVEL	BEVEL
<2>	331	200		BEVEL	BEVEL
<3>	1389	300		BEVEL	BEVEL
<4>	2292	300		BEVEL	BEVEL

LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
 - Situation of mounting seams
 - Situation off pass- length
 - Check of measure details and pipe courses on the construction site
 - Situation of the spindle of valve
 - All components for Oxygen use free of oil and grease

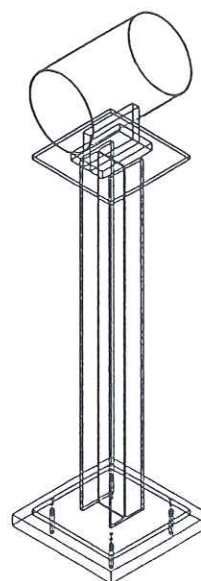
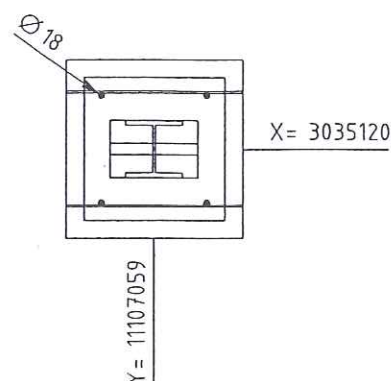
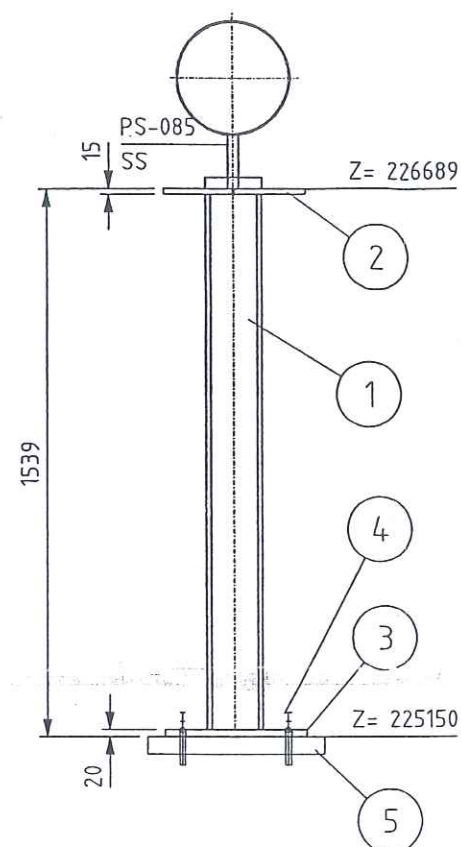
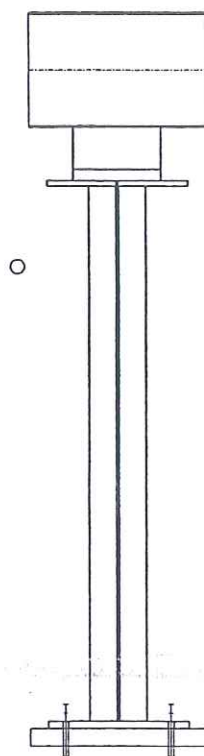
SUPPORTS:
 PS-INO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PB-INO.) - PIPE SUPPORT ON THE PIPBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

Rev	Revisions	Date	Name	checked
01	General Rev.	6/13/2005	Les	Zul



Date	17-SEP-2005	Name	Lesum / HGH	Checked	06-09-15	History file	
Job Code:	K70101	Reference:	ASU No. 9, Kosice	Scale	1	Original format	ORAJ
Title:	300 N 70074 AA:6C1792.8782601			Sheet	1	Sheets	1
Drawing No.				Rev			

THIS DRAWING AND THE INFORMATION CONTAINED THEREIN MUST NOT BE COPIED OR TRANSFERRED TO THIRD PARTIES WITHOUT PERMISSION OF THE PROPRIETOR.



LEGEND:

-PG-	PIPE GUIDE
-FP-	FIX POINT
-SS-	SLIDE SUPPORT
-HN-	HANGER
-SSAX-	SLIDE SUPPORT WITH AXIAL STOP
-AXLS-	AXIAL STOP WITH LIFTING STOP
-SPS-	SPRING SUPPORT
-SPGS-	SPRING SUPPORT GUIDED
-GSAX-	GUIDE SUPPORT WITH AXIAL STOP
-SPAX-	SPRING SUPPORT WITH AXIAL STOP
-SH-	SPRING HANGER
-AX-	AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS $a=4\text{mm}$ ROUND

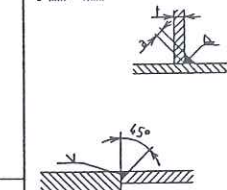
MARKING:
-THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER
RESISTANT PAINT AND WHITE COLOR

- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

REC-11
2005 NOV 10
VAM
BE FREE OF SITE OFFICE


a $\geq 0,7 \times l$
a min = 4mm



Total Weight:	108.05 kg
---------------	-----------

[illegible]

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by		Zuf	
Drawn checked by			




AIR LIQUIDE

Air Liquide AGS GmbH

	Date	Name	Check.	History File	
	30.09.2005	MG	Zut		
	Job Code:	K70101 ASU No.9 Kosice			Scale:
	Reference:	PIPING SUPPORT			1:20
					Original Format DIN A3
				Sheet:	1 of:
Replaces:	Title	PS-085			Drawing-No. 792.87926

Archives Rev.No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

Preis-Stückliste 0 15LV70505AA10C1 0 15 LV 70505 AA10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0001	12	50	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,06 kg	4,00				0,00
B0506	12	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,02 kg	4,00				0,00
G0092	15	0	Flat packings Graphite with CrNi-insert Standard 40002 50x2x22		1,00				0,00
GW2	15	0	girth weld 1.0254 (St 37.0) 21,3x2		2,00				0,00
P0001	15	0	PIPE, SEAMLESS 1.0254 (St 37.0) DIN 1629 21,3x2	0,95 kg	0,80				0,00
P0200	15	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 21,3x2	0,04 kg	1,00				0,00
P2873	15	0	Welding neck flanges; PN 40 1.0038 (S235JRG2) DIN EN 1092-1 21,3	1,00 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
Summe: 0 15LV70505AA10C1 0				2,12 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

Gesamtsumme:

Gesamtgewicht:

** Ende der Ausgabe

2,12 kg

AS BUILT



Jop Code:	K70101 ASU No. 9, Kosice	Order No.:
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Title: 15 LV 70505

15 LV 70505

Drawing No.:

04.03.06

Datum / Unterschrift

Datum / Unterschrift

Order No.:

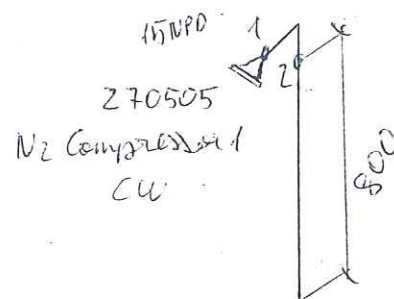
792 87826 - 00

Maker's No.:

[illegible]



As built



LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ± 0.00


RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT
WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT
ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev	Revisions	Date	Name	checked
-C				
-B				
-A				

 AIR LIQUIDE Air Liquide AGS GmbH	Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
	Job Code: K70101		Scale: ---	Original format DIN A3
Reference: ASU No. 9, Kosice		Sheet:		Sheets:
Title: 15.4 V. 270505, 1991/901		Drawing No: 792.8782600		Rev.



Preis-Stückliste 0 80LV70802AA10C1 0 80 LV 70802 AA10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
GW16	80	0	girth weld 1.0254 (St 37.0) 88,9x3,2		1,00				0,00
P0048	80	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 88,9x3,2	6,76 kg	2,75				0,00
SC6	80	0	Segment cut 88,9		1,00				0,00
SCP05	80	0	PIPE CLAMP, RB10A 89 W3 HESTERBERG		1,00				0,00
SPS331	0	0	SUPPORT PS-331	1,92 kg	1,00				0,00
Summe: 0 80LV70802AA10C1 0				20,51 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

Gesamtsumme:

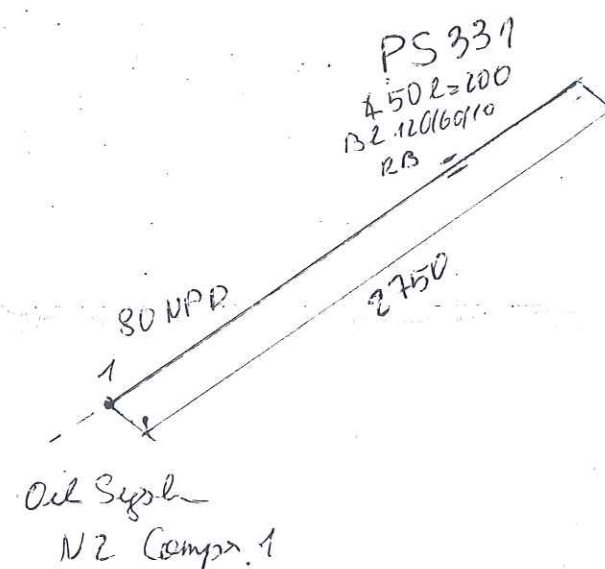
Gesamtgewicht:

** Ende der Ausgabe

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AS BUILT

[illegible]



RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting soams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE


PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				

 AIR LIQUIDE Air Liquide AGS GmbH	Date:	23-JUN-2005	Name:	Lesum / HGH	Checked:	05-07-11	History file:		
	Job Code: K70101				Scale:	1:1	Original format:	DIN A3	
	Reference: ASU No. 9, Kosice				Sheet:	1	Sheets:	1	
	Title:				Drawing No:				792.8782600
Replaces: 79-----				Replaced by: 79-----				Rev.	

Preis-Stückliste 0 25NL71103ZB10C1 0 25 NL 71103 ZB10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		2,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		1,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		2,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		9,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	2,12				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	1,00				0,00
P1000	25	15	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2x21,3x1,6	0,14 kg	1,00				0,00
P1004	25	25	Tee made of welded pipe 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2x33,7x2	0,15 kg	1,00				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		2,00				0,00
SC3	25	0	Segment cut 33,7		5,00				0,00
Summe: 0 25NL71103ZB10C1 0				3,73 kg		0,00	0,00		0,00

Liefersumme:



Preis-Stückliste 0 25NL71103ZB10C1 0 25 NL 71103 ZB10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
Montagesumme:									
Gesamtsumme:									
Gesamtgewicht:									
** Ende der Ausgabe									

3,73 kg

AG BSH

Preis-Stückliste 0 15NL71104ZB16C1 0 15 NL 71104 ZB16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0100	12	50	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	8,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	8,00				0,00
G0092	15	0	Flat packings Graphite with CrNi-insert Standard 40002 50x2x22		2,00				0,00
GEV	12	0	Straight screw in connection		1,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		7,00				0,00
GW40	12	0	GRITH WELD 1.4541		1,00				0,00
IHH71103	15	0	HH71103		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	2,40				0,00
P0150	12	0	PIPE, SEAMLESS, ERMETO 1.4541	0,28 kg	0,55				0,00
P0155	12	0	BEND	0,02 kg	2,00				0,00
P0282	15	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 21,3x1,6	0,03 kg	3,00				0,00
P1745	15	12	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
P2991	15	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 21,3	1,00 kg	2,00				0,00
SC1	15	0	Segment cut 21,3		3,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 15NL71104ZB16C1 0 15 NL 71104 ZB16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
SCP01	15	0	PIPE CLAMP, RB10A 22 W3 HESTERBERG 21,3		1,00				0,00
SPS329	0	0	SUPPORT PS-329, L 50, L=300	1,13 kg	1,00				0,00
Summe: 0 15NL71104ZB16C1 0				5,95 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

Gesamtsumme:

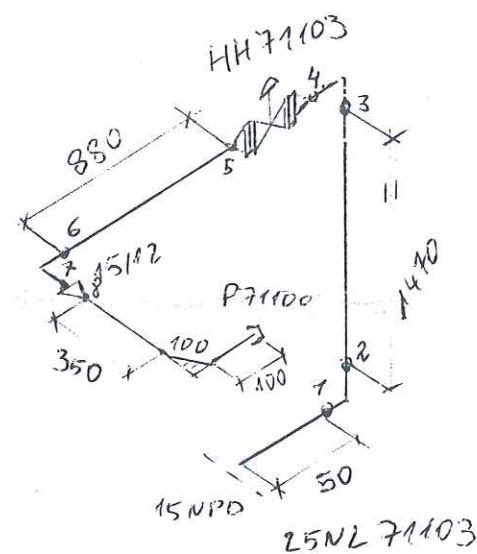
Gesamtgewicht:

** Ende der Ausgabe

5,95 kg



As built



PS 329
\$502-300
+RB

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

- PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				



Air Liquide AGS GmbH

Replaces: 79_----
Replaced by: 79_----

Date:	23-JUN-2005	Name:	Lesum / HGH	Checked:	05-07-11	History file:	
Job Code:	K70101	Scale:	---	Original format:	DIN A3		
Reference:	ASU No. 9, Kosice	Sheet:	1	Sheets:	1		
Title:	15 NL 71104, 2B 16 C 1	Drawing No:	792.87826	Rev.	00		

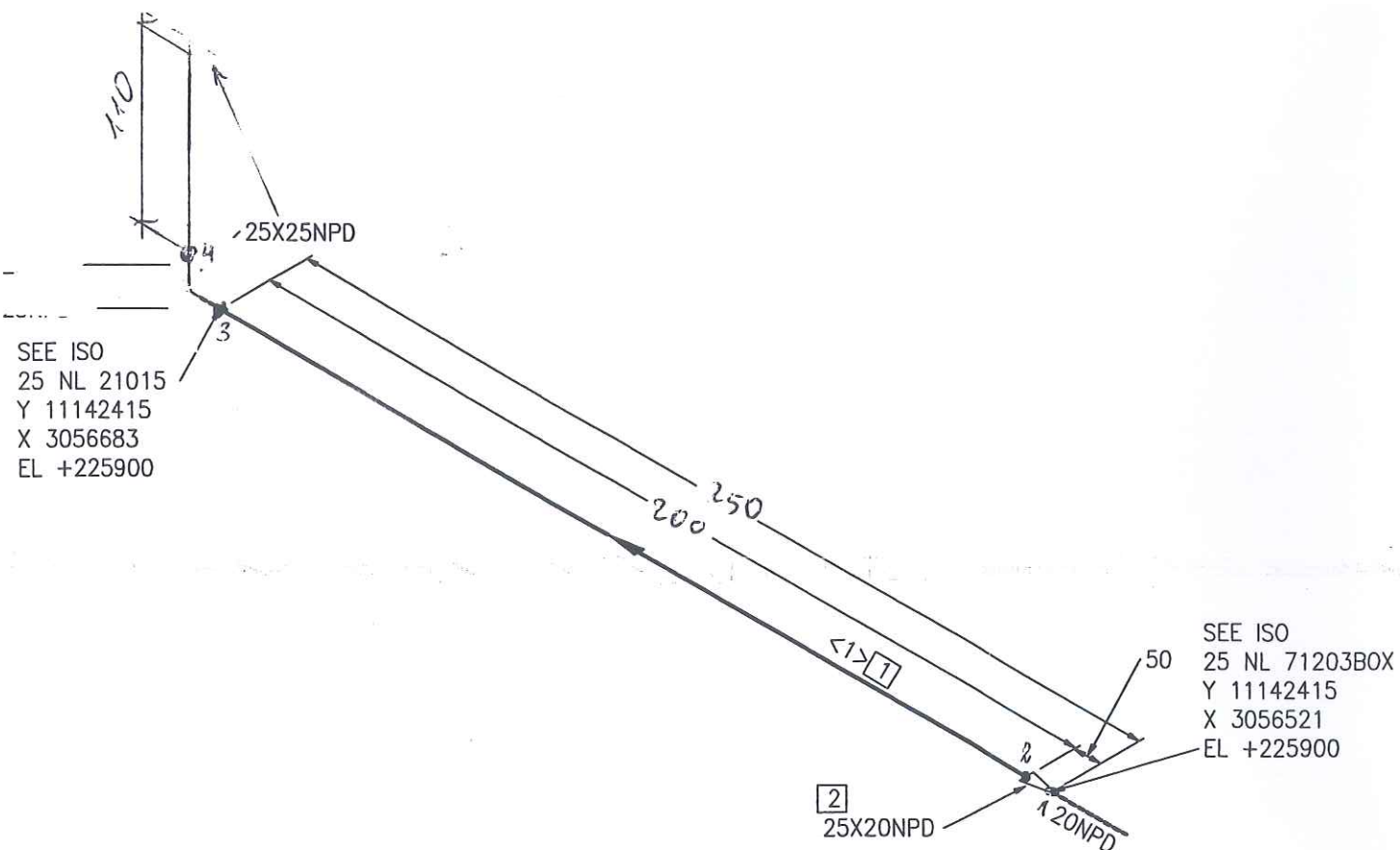
Preis-Stückliste 0 25NL71203ZB10C1 0 25 NL 71203 ZB10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		1,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		1,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		3,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	0,30				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	1,00				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
SC3	25	0	Segment cut 33,7		2,00				0,00
Summe: 0 25NL71203ZB10C1 0				0,56 kg		0,00	0,00		0,00

Liefersumme:	
Montagesumme:	
Gesamtsumme:	
Gesamtgewicht:	0,56 kg
** Ende der Ausgabe	

AS BUILT

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	112 MM	25	PIPE, WELDED 33.7 * 2.0 , 1.4541, DIN EN ISO 1127
2	1	25X20	REDUCER, CONCENTRIC, WELDED 33.7*2.0/26.9*1.6, 1.4541, DIN 2616-1

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	112	25		BEVEL	BEVEL	RG1

NUR ZUR INFORMATION

FOR INFORMATION

21.01.2005

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

AIR LIQUIDE

Air Liquide AGS GmbH

Replaces: 79_____
Replaced by: 79_____
Rev. Revisions Date Name checked

Date: 17-OCT-2005	Name: Lesum / HGH	Checked: 05-10-20	History file:
Job Code: K70101	Reference: ASU No. 9, Kosice	Scale: 1:1	Original format: DIN A3
Title: 25 NL 71203 ZB16C1792.878260		Sheet: 1	Sheets: 1
		Drawing No:	Rev.

Preis-Stückliste 0 15NL71204ZB16C1 0 15 NL 71204 ZB16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0100	12	50	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,06 kg	8,00				0,00
B0532	12	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,02 kg	8,00				0,00
G0092	15	0	Flat packings Graphite with CrNi-insert Standard 40002 50x2x22		2,00				0,00
GEV	12	0	Straight screw in connection		1,00				0,00
GW1	15	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 21,3x1,6		10,00				0,00
GW40	12	0	GRITH WELD 1.4541		1,00				0,00
IHH71203	15	0	HH71203		1,00				0,00
P0129	15	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 21,3x1,6	0,79 kg	2,65				0,00
P0150	12	0	PIPE, SEAMLESS, ERMETO 1.4541	0,28 kg	0,65				0,00
P0155	12	0	BEND	0,02 kg	2,00				0,00
P0282	15	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 21,3x1,6	0,03 kg	4,00				0,00
P1745	15	12	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
P2991	15	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 21,3	1,00 kg	2,00				0,00
SC1	15	0	Segment cut 21,3		5,00				0,00
SC20	12	0	SEGMENT CUT		1,00				0,00

Preis-Stückliste 0 15NL71204ZB16C1 0 15 NL 71204 ZB16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
SCP01	15	0	PIPE CLAMP, RB10A 22 W3 HESTERBERG 21,3		1,00				0,00
SPS330	0	0	SUPPORT PS-330, L 50, L=520	1,96 kg	1,00				0,00
Summe: 0 15NL71204ZB16C1 0				7,04 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

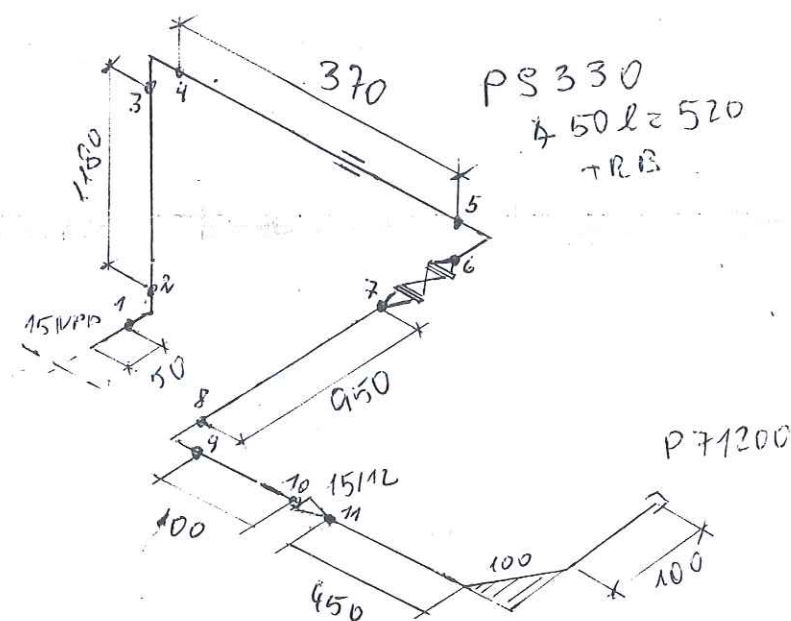
Gesamtsumme:

Gesamtgewicht:

** Ende der Ausgabe

7,04 kg

As built



RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE

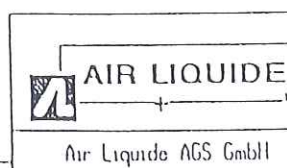
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

Rev.	Revisors	Date	Name	checked
C				
B				
A				



Replaces: 79_-----

Replaced by: 79_-----

Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
Job Code: K70101		Scale: ---	Original format: DIN A3
Reference: ASU No. 9. Kosice		Sheet: 1	Sheets: 1
Title: 15.12.71.204.2B16C1		Drawing No: 792.8782600	Rev.

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 40NL73005ZB16C1 0 40 NL 73005 ZB16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0106	16	55	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,12 kg	12,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	12,00				0,00
G0099	40	0	Flat packings Graphite with CrNi-insert Standard 40002 92x2x49		3,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		1,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		2,00				0,00
GW8	40	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 48,3x2		16,00				0,00
IHV72053	40	0	HV72053		1,00				0,00
IZ72053	25	20	Z72053		1,00				0,00
P0130	20	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 26,9x1,6	1,01 kg	1,90				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	0,30				0,00
P0133	40	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 48,3x2	2,31 kg	13,83				0,00
P0154	20	0	BEND 1.4541	0,05 kg	4,00				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	1,00				0,00



Preis-Stückliste 0 40NL73005ZB16C1 0 40 NL 73005 ZB16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
P0286	40	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 48,3x2	0,21 kg	7,00				0,00
P2995	40	0	Welding neck flanges; PN 40 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 48,3	2,00 kg	3,00				0,00
S0041	40	0	T-support, 1.4541, TA 120G 49 W3 1.4 Hesterberg 49	7,70 kg	1,00				0,00
SC2	20	0	Segment cut 26,9		1,00				0,00
SC3	25	0	Segment cut 33,7		1,00				0,00
SC4	40	0	Segment cut 48,3		8,00				0,00
SCP08	40	0	PIPE CLAMP, RB10A 49 W3 HESTERBERG		2,00				0,00
SCP09	20	0	PIPE CLAMP, RB10A W3 HESTERBERG		2,00				0,00
SPS416	0	0	SUPPORT PS-416, L 60, L=250	1,14 kg	2,00				0,00
SPS417	0	0	SUPPORT PS-417, HEB 100, L=300	12,12 kg	1,00				0,00
SPS418	0	0	SUPPORT PS-418, L 50, L=1250	10,71 kg	1,00				0,00
XZB24	25	0	THREAD END 1.4541		1,00				0,00
Summe: 0 40NL73005ZB16C1 0				76,71 kg		0,00	0,00		0,00

Liefersumme:
Montagesumme:
Gesamtsumme:





VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 40NL73005ZB16C1 0 40 NL 73005 ZB16C1 Revision:

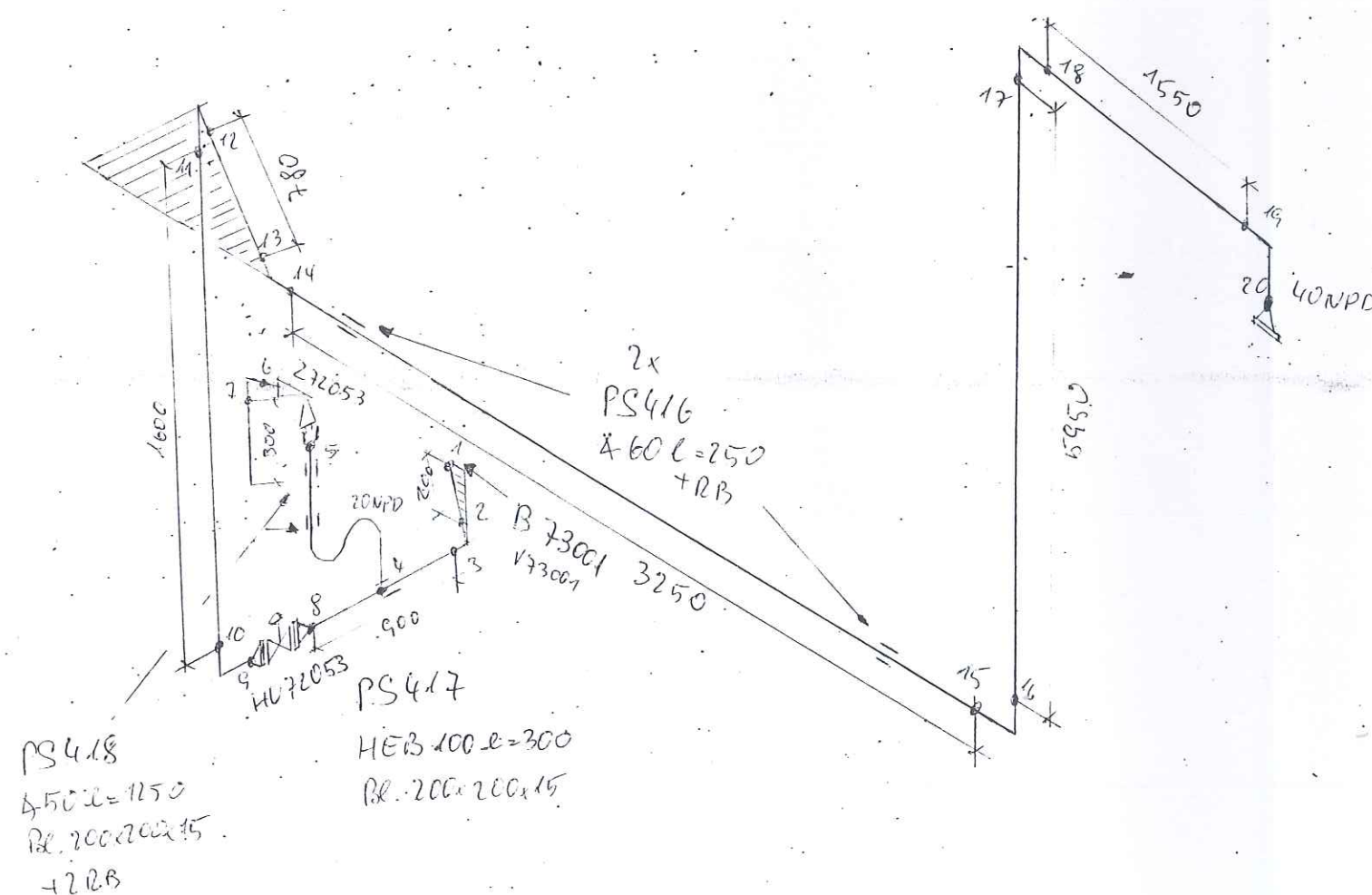
Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
Gesamtgewicht:				76,71 kg					
** Ende der Ausgabe									

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AS LUTTI

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
LEVELS:

TOP OF INTERNAL ROADS:	225.00m n.m.
TOP OF FOUNDATION:	225.10m
BOTTOM OF STEEL STRUCTURE:	225.15m = ± 0.00

- Situation of mounting seams
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

PS-(NO.) - PIPE SUPPORT
WITH SUBSTRUCTURE
PD-(NO.) - PIPE SUPPORT
ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

C				
B				
A				
Rev	Reviews	Date	Name	checked

 AIR LIQUIDE Air Liquide AGS GmbH	Date:	23-JUN-2005	Name:	Lesum / HGH	Checked:	05-07-11	History file:		
	Job Code:	K70101			Scale:	---			
	Reference:	ASU No. 9. Kosice			Sheet:	Sheets:			
Replaces:	79_-----	Title:	40 NL 73 005 2B16C1			Drawing No:	792.87826	Rev.	00
Replaced by:	79_-----								

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 25NL73017ZB16C1 0 25 NL 73017 ZB16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
G0095	20	0	Flat packings Graphite with CrNi-insert Standard 40002 60x2x28		1,00				0,00
GW3	20	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 26,9x1,6		1,00				0,00
GW4	25	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 33,7x2		28,00				0,00
P0131	25	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 33,7x2	1,58 kg	20,67				0,00
P0284	25	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 33,7x2	0,09 kg	14,00				0,00
P1740	25	20	REDUCER, CONCENTRIC, WELDED 1.4541		1,00				0,00
S0039	25	0	T-support, 1.4541, TA 120G 34 W3 1.4 Hesterberg 34	7,60 kg	5,00				0,00
SC3	25	0	Segment cut 33,7		15,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		4,00				0,00
SPS333	0	0	SUPPORT PS-333, U 140, L=350	5,60 kg	4,00				0,00
SPS334	0	0	SUPPORT PS-334, PL.100X100X10	0,80 kg	2,00				0,00
SPS335	0	0	SUPPORT PS-335, L 80, L=200	1,46 kg	2,00				0,00
Summe: 0 25NL73017ZB16C1 0				98,84 kg		0,00	0,00		0,00

Liefersumme:

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 25NL73017ZB16C1 0 25 NL 73017 ZB16C1 Revision:									
Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
			Montagesumme: Gesamtsumme: Gesamtgewicht: ** Ende der Ausgabe						
				98,84 kg					

VAM

SCHWEISSDOKUMENTATION WELDING DOCUMENTATION

Prot Nr.

Jop Code: K70101 ASU No. 9, Kosice Order No.:

Client: AIR LIQUIDE Title: 25 NL 73017

Sheet 1

Drawing No.:

Project No.: 9050300

Maker's No.:

erstellt:

Pelzeder Erich

Datum / Unterschrift

geprüft

20.02.06 P.L.L.
Schweisstechnologie VAM

Datum / Unterschrift

(Kunde / TÜV, ...)

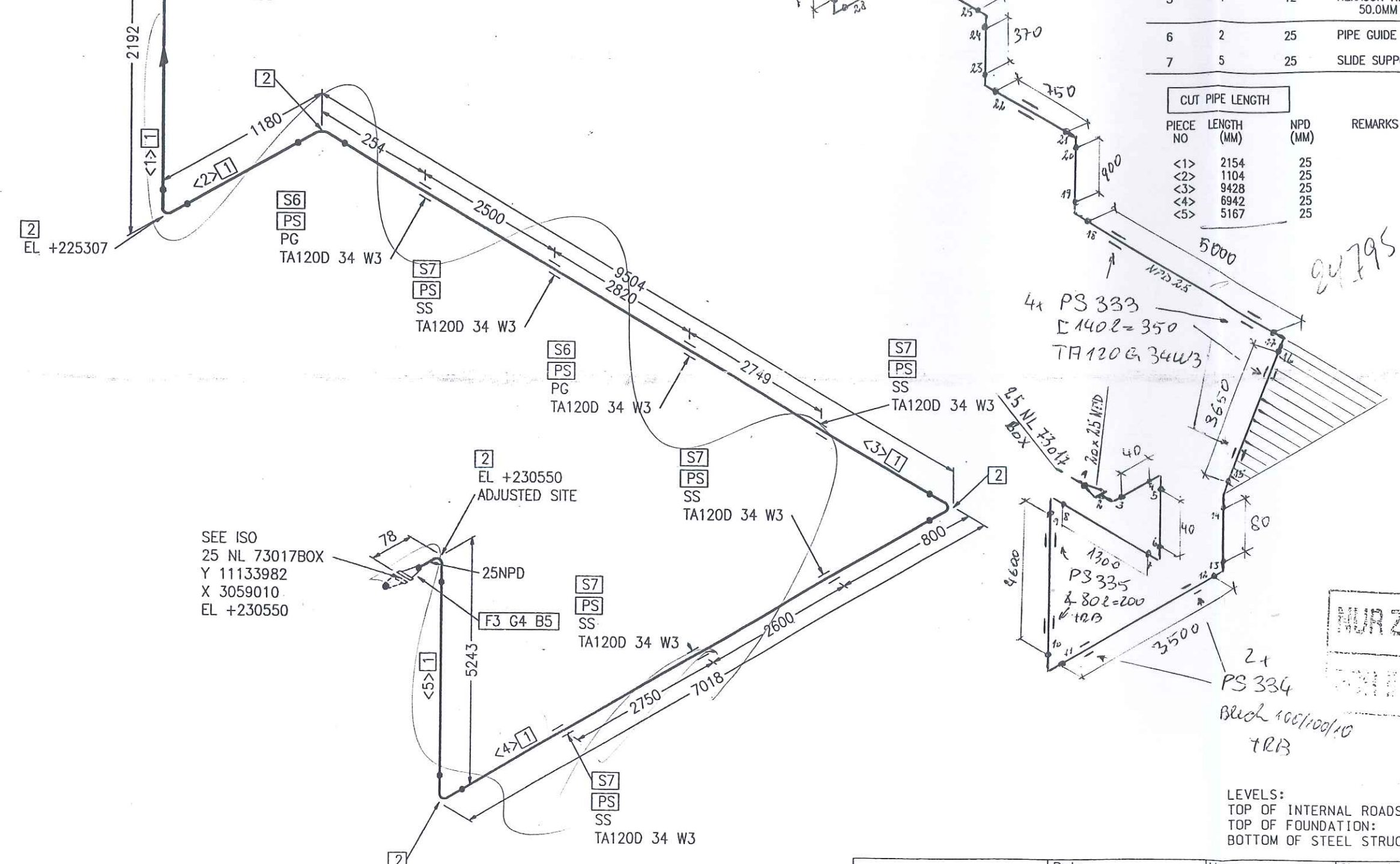


Datum / Unterschrift

Seam No.:	Welder No.:	Material	Dimension	Protocol No.:				Remerk
				Wärme- behandlung	RT	UT	MT/PT	SP
1	V2	1.4541	26,4*1,6					
2	V2	1.4541	33,7*2					
3	V2	1.4541	33,7*2					
4	V2	1.4541	33,7*2					
5	V2	1.4541	33,7*2					
6	V2	1.4541	33,7*2					
7	V2	1.4541	33,7*2					
8	V2	1.4541	33,7*2					
9	V2	1.4541	33,7*2					
10	V2	1.4541	33,7*2					
11	V2	1.4541	33,7*2					
12	V2	1.4541	33,7*2					
13	V2	1.4541	33,7*2					
14	V2	1.4541	33,7*2					
15	V2	1.4541	33,7*2					
16	V2	1.4541	33,7*2					
17	V2	1.4541	33,7*2					
18	V2	1.4541	33,7*2		R0535			
19	V2	1.4541	33,7*2		R0536			
20	V2	1.4541	33,7*2		R0537			
21	V2	1.4541	33,7*2		R0538			
22	V2	1.4541	33,7*2		R0539			
23	V2	1.4541	33,7*2					
24	V2	1.4541	33,7*2					
25	V2	1.4541	33,7*2					
26	V2	1.4541	33,7*2					
27	V2	1.4541	33,7*2					

50X25NPD
50NPD
As built

SEE ISO
50 NL 90004
Y 11139900
X 3068514
EL +227499



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	24795 MM	25	PIPE, WELDED 33.7*2.0, 1.4541, DIN EN 10220
2	5	25	ELBOW, WELDED, 1,5D 33.7*2.0-90, B-ART 3,DIN 2605-1
3	1	25	WELDING-NECK-FLANGE PN10, 1.4541, DIN EN 1092-1
4	1	25	FLAT GASKET
5	4	12	HEXAGON HEAD BOLT A2-70 WITH NUT A2-70, 50.0MM LANG
6	2	25	PIPE GUIDE PSUPPORT
7	5	25	SLIDE SUPPORT PSUPPORT

CUT PIPE LENGTH			REMARKS	END ONE	END TWO	ITEM CODE
PIECE NO	LENGTH (MM)	NPD (MM)				
<1>	2154	25		BEVEL	BEVEL	RG
<2>	1104	25		BEVEL	BEVEL	RG
<3>	9428	25		BEVEL	BEVEL	RG
<4>	6942	25		BEVEL	BEVEL	RG
<5>	5167	25		BEVEL	BEVEL	RG

FOR YOUR INFORMATION
21.08.2005

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked

AIR LIQUIDE Air Liquide AGS GmbH	Date: 17-OCT-2005	Name: Lesum / HGH	Checked: 05-10-20	History file:	
	Job Code: K70101			Scale: 1:1	Original format: DIN A3
	Reference: ASU No. 9, Kosice			Sheet: 1	Sheets: 1
	Title: 25 NL 73017 ZB10C1792.878260			Drawing No:	Rev.

Preis-Stückliste 0 80LV73150ZB16C1 0 80 LV 73150 ZB16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0105	16	50	HEXAGON HEAD SCREWS A2-70		8,00				0,00
B0109	16	65	Hexagon head screws A2-70 resp. A2-50 DIN EN ISO 3506	0,13 kg	8,00				0,00
B0111	16	80	HEXAGON HEAD SCREWS A2-70		8,00				0,00
B0534	16	0	Hexagon nuts A2-70 resp. A2-50 DIN EN ISO 3506	0,03 kg	16,00				0,00
G0100	50	0	Flat packings Graphite with CrNi-insert Standard 40002 107x2x61		2,00				0,00
G0103	80	0	Flat packings Graphite with CrNi-insert Standard 40002 142x2x90		1,00				0,00
G0107	125	0	Flat packings Graphite with CrNi-insert Standard 40002 192x2x141		1,00				0,00
GW11	50	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 60,3x2		2,00				0,00
GW15	80	0	girth weld 1.4541 (X 6 CrNiTi 18 10) 88,9x2,3		3,00				0,00
GW42	125	0	GRITH WELD 1.4541		1,00				0,00
P0136	80	0	pipe, welded 1.4541 (X 6 CrNiTi 18 10) DIN 17457 88,9x2,3	4,98 kg	1,55				0,00
P0151	125	0	PIPE, WELDED 1.4541	6,78 kg	0,65				0,00

Preis-Stückliste 0 80LV73150ZB16C1 0 80 LV 73150 ZB16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
P0289	80	0	Elbow 90° R=1,5 DA, welded 1.4541 (X 6 CrNiTi 18 10) DIN 2609 88,9x2,3	0,89 kg	1,00				0,00
P2996	50	0	Welding neck flanges; PN 16 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 60,3	3,00 kg	2,00				0,00
P3001	80	0	Welding neck flanges; PN 16 1.4541 (X 6 CrNiTi 18 10) DIN EN 1092- 88,9	4,00 kg	1,00				0,00
P3004	125	0	WELDING NECK FLANGES 1.4541		1,00				0,00
XZB28	50	0	THREAD END 1.4541		2,00				0,00
Summe: 0 80LV73150ZB16C1 0				24,54 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

Gesamtsumme:

Gesamtgewicht:

** Ende der Ausgabe

24,54 kg



Jop Code: K70101 ASU No. 9, Kosice

Title: 80

80 LV 73150

Sheet 1

Drawing No.:

792.87826 - 00

Maker's No.:

(Kunde / TÜV, ...)

geprüft

Schweisstechnologie VAM

Datum / Unterschrift

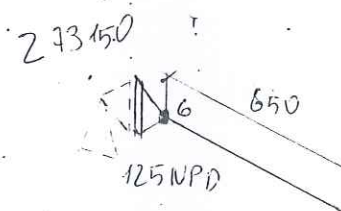
Datum / Unterschrift

Pelzeder Erich, 01.03.06

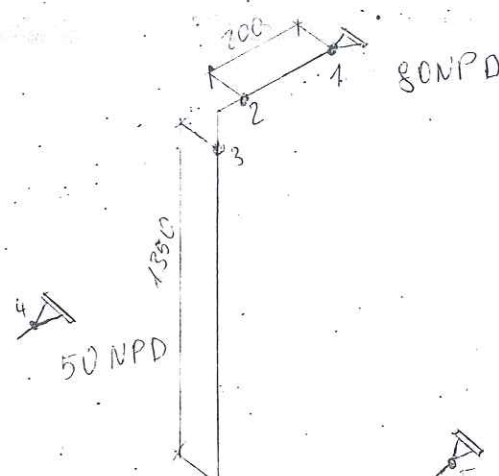
4

Kosice

As built



Overflone W 73101



50 NPD

LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ± 0.00

RESPONSIBILITY OF ERECTION COMPANY:
 - Situation of mounting seams
 - Situation off pass- length
 - Check of measure details and pipe courses on the construction site
 - Situation of the spindle at valve
 - All components for Oxygen use free of oil and grease

SUPPORTS:
 PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PD-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

 AIR LIQUIDE AGS GmbH	Date:	23-JUN-2005	Name:	Lesum / HGH	Checked:	05-07-11	History file:
	Job Code: K70101				Scale:	---	Original format:
	Reference: ASU No. 9. Kosico				Sheet:	Sheets:	
	Title:				Drawing No:		Rev.
Replaces: 79_----- Replaced by: 79_-----				80 LU 73150 2B16G1 792.87826 00			

Rev.	Revisions	Date	Name	checked
C				
B				
A				

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 25WD73180AA10C1 0 25 WD 73180 AA10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
GW5	25	0	girth weld 1.0254 (St 37.0) 33,7x2,6		8,00				0,00
ICPH01	25	0	COUPLING-PIPE-HOSE		1,00				0,00
P0014	25	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 33,7x2,6	1,99 kg	3,53				0,00
P0202	25	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 33,7x2,6	0,12 kg	3,00				0,00
S0015	25	0	T-support TA 120G 34 W1 OZN 1.0 Hesterberg 34	7,60 kg	2,00				0,00
SC3	25	0	Segment cut 33,7		3,00				0,00
SPS428	0	0	SUPPORT PS-428, L 50, L=500	8,88 kg	2,00				0,00
XZB12	25	0	THREAD END 5,6 33,7		1,00				0,00
Summe: 0 25WD73180AA10C1 0				40,34 kg		0,00	0,00		0,00

Liefersumme:

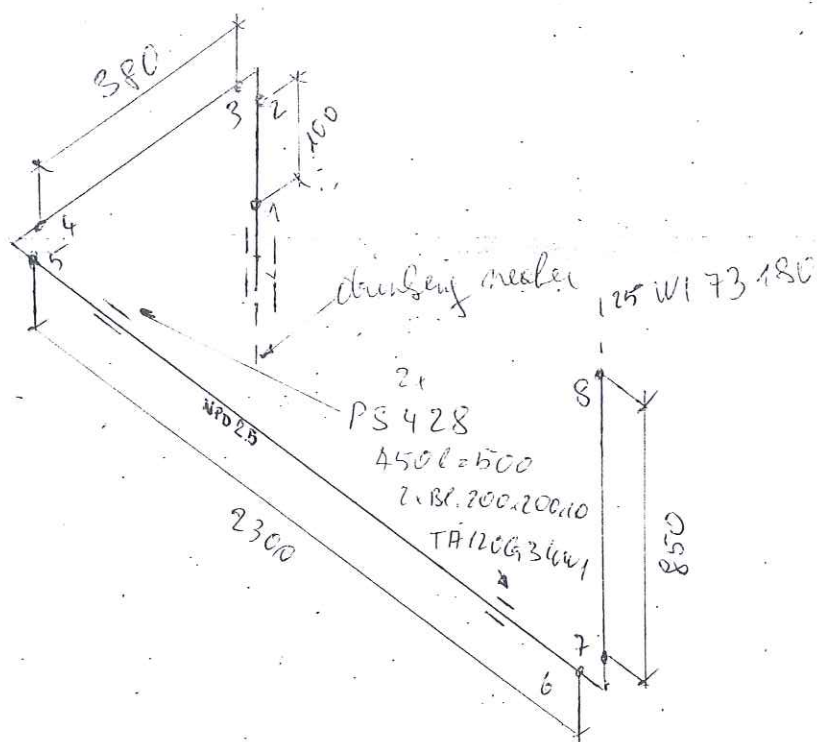
Montagesumme:

Gesamtsumme:

Gesamtgewicht:

** Ende der Ausgabe

40,34 kg



LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ± 0.00


RESPONSIBILITY OF ERECTION COMPANY:

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- Situation of the spindle at valve
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PD-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				

 Air Liquide AGS GmbH	Date:	23-JUN-2005	Name:	Lesum / HGH	Checked:	05-07-11 <i>ZH</i>	History file:		
	Job Code: K70101				Scale: ---:---		Original format: DIN A3		
	Reference: ASU No. 9. Kosico				Sheet:		Sheets:		
	Title:				Drawing No:		Rev.		
Replaces: 79_----- Replaced by: 79_-----				25 W173180 TA12CG36W1				792.8782600	

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 25W173180AA10C1 0 25 W1 73180 AA10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0002	12	55	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,06 kg	8,00				0,00
B0506	12	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,02 kg	8,00				0,00
G0097	25	0	Flat packings Graphite with CrNi-insert Standard 40002 70x2x35		2,00				0,00
GW5	25	0	girth weld 1.0254 (St 37.0) 33,7x2,6		35,00				0,00
IV73180	25	0	V73180		1,00				0,00
P0014	25	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 33,7x2,6	1,99 kg	45,50				0,00
P0202	25	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 33,7x2,6	0,12 kg	12,00				0,00
P2935	25	0	Welding neck flanges; PN 40 1.0038 (S235JRG2) DIN EN 1092-1 33,7	1,00 kg	3,00				0,00
S0015	25	0	T-support TA 120G 34 W1 OZN 1.0 Hesterberg 34	7,60 kg	10,00				0,00
SC3	25	0	Segment cut 33,7		15,00				0,00
SCP02	50	0	PIPE CLAMP, RB10A 61 W3 HESTERBERG 60,3		2,00				0,00
SCP03	25	0	PIPE CLAMP, RB10A 34 W3 HESTERBERG 33,7		3,00				0,00

VAM Anlagentechnik und Montagen
01 - 5.6948 FELDVERROHRUNG KOSICE AIR LIQUIDE

Preis-Stückliste 0 25WI73180AA10C1 0 25 WI 73180 AA10C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
SCP06	100	0	PIPE CLAMP, RB10A 115 W3 HESTERBERG		1,00				0,00
SPG01	0	0	PIPE GUIDE 1.0 HESTERBERG		6,00				0,00
SPS411	0	0	SUPPORT PS-411, L 50, L=550	2,07 kg	1,00				0,00
SPS412	0	0	SUPPORT PS-412, L 50, L=700	2,63 kg	2,00				0,00
SPS413	0	0	SUPPORT PS-413, U 100, L=300	3,12 kg	2,00				0,00
XZB12	25	0	THREAD END 5.6 33,7		3,00				0,00
Summe: 0 25WI73180AA10C1 0				185,20 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

Gesamtsumme:

Gesamtgewicht:

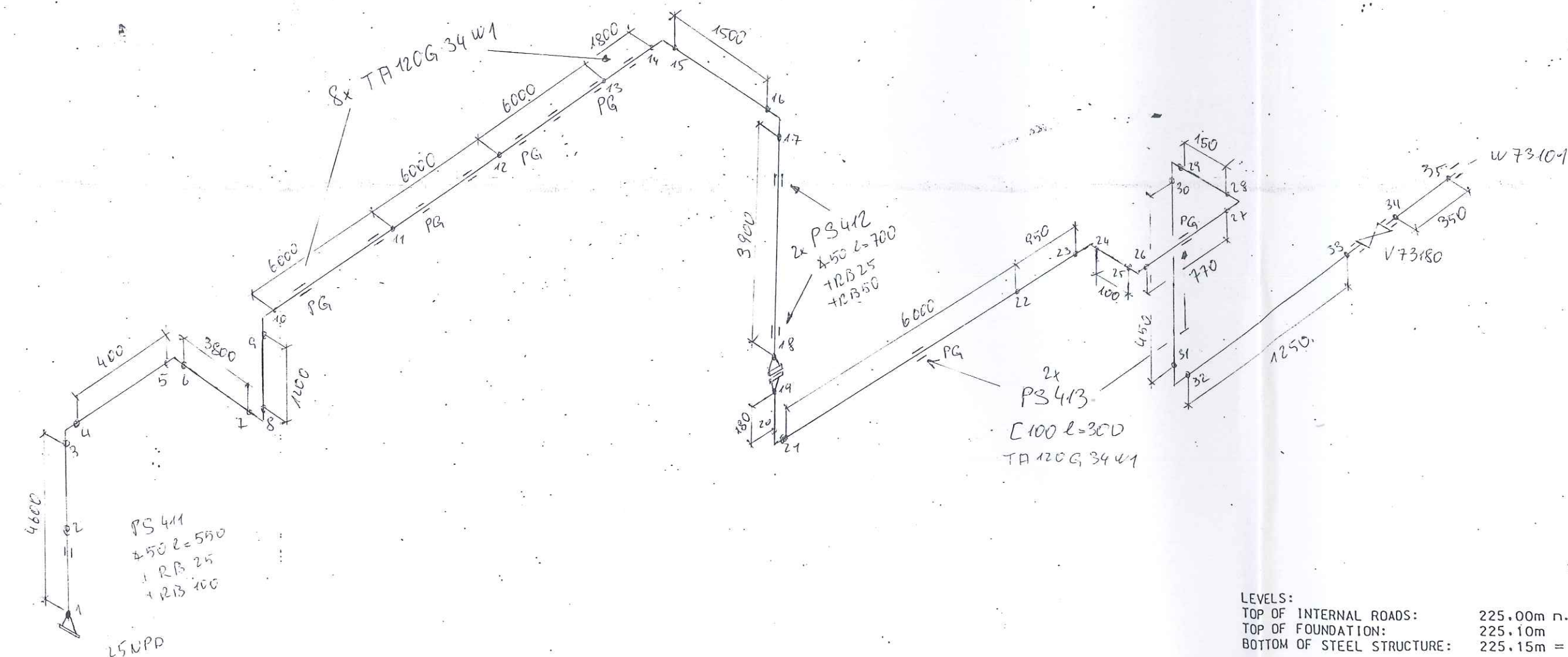
** Ende der Ausgabe

185,20 kg

	SCHWEISSDOKUMENTATION WELDING DOCUMENTATION		erstellt: <div style="border: 1px solid black; padding: 2px; display: inline-block;"> Pelzeder Erich </div>	geprüft <div style="border: 1px solid black; padding: 2px; display: inline-block;"> Schweizerische Eidgenossenschaft Datum / Unterschrift </div>	(Kunde / TÜV, ...)
Jop Code: K70101 ASU No. 9, Kosice		Order No.: 25 WI 73180		Project No.: 9050300	
Client: AIR LIQUIDE		Title: 25 WI 73180		Drawing No.: 792.87826 - 00	
Sheet 1		Maker's No.:			

Seam No.:	Welder No.:	Material	Dimension	Protocol No.:				Remerk
				Wärme- behandlung	RT	UT	MT/PT	SP
1	V1	ST37.0	33,7*2,6					
2	V1	ST37.0	33,7*2,6					
3	V1	ST37.0	33,7*2,6					
4	V1	ST37.0	33,7*2,6					
5	V1	ST37.0	33,7*2,6					
6	V1	ST37.0	33,7*2,6					
7	V1	ST37.0	33,7*2,6					
8	V1	ST37.0	33,7*2,6					
9	V1	ST37.0	33,7*2,6					
10	V1	ST37.0	33,7*2,6					
11	V1	ST37.0	33,7*2,6					
12	V1	ST37.0	33,7*2,6					
13	V1	ST37.0	33,7*2,6					
14	V1	ST37.0	33,7*2,6					
15	V1	ST37.0	33,7*2,6					
16	V1	ST37.0	33,7*2,6					
17	V1	ST37.0	33,7*2,6					
18	V1	ST37.0	33,7*2,6					
19	V1	ST37.0	33,7*2,6					
20	V1	ST37.0	33,7*2,6					
21	V1	ST37.0	33,7*2,6					
22	V1	ST37.0	33,7*2,6					
23	V1	ST37.0	33,7*2,6					
24	V1	ST37.0	33,7*2,6					
25	V1	ST37.0	33,7*2,6					
26	V1	ST37.0	33,7*2,6					
27	V1	ST37.0	33,7*2,6					

As built



RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PD-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

*Industrial master
handbook*

Rev.	Revisions	Date	Name	checked
C				
D				
A				

 Air Liquide AGS GmbH	Date:	23-JUN-2005	Name:	Lesum / HGH	Checked:	05-07-11	History file:
	Job Code: K70101				Scale:	Original format DN A3	
	Reference: ASU No. 9. Kosice				Sheet:	Sheets:	
	Title:				Drawing No:		Rev.
Replaces:	79_----						
Replaced by:	79_----						
25.01.73.180. 7A.10.01				792.8782600			

LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

Preis-Stückliste 0 350N75005AA40C1 0 350 N 75005 AA40C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0035	24	100	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,48 kg	32,00				0,00
B0203	33	200	SCREW BOLTS 5.6		16,00				0,00
B0519	24	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,11 kg	32,00				0,00
B0521	33	0	HEXAGON NUTS 5.6		32,00				0,00
G0125	350	0	Flat packings Graphite with CrNi-insert Standard 40002 445x2x368		4,00				0,00
GW28	250	0	girth weld 1.0254 (St 37.0) 273x5		2,00				0,00
GW33	350	0	girth weld 1.0254 (St 37.0) 355,6x5,6		24,00				0,00
P0099	350	0	pipe, welded 1.0254 (St 37.0) DIN 1626 355,6x5,6	48,30 kg	60,30				0,00
P0255	350	0	Elbow 90° R=1,5 DA, welded 1.0254 (St 37.0) DIN 2609 355,6x5,6	40,44 kg	6,00				0,00
P0778	350	250	Tee made of seamless pipe 1.0254 (St 37.0) DIN 2609 355,6x11x273x8,8	59,08 kg	1,00				0,00
P1519	350	250	Reducer, concentric, seamless 1.0254 (St 37.0) DIN 2609 355,6x5,6x273x5	14,08 kg	1,00				0,00
P2927	350	0	WELDING NECK FLANGES, PN 40 1.0254		2,00				0,00

Preis-Stückliste 0 350N75005AA40C1 0 350 N 75005 AA40C1 Revision:

(Fortsetzung)

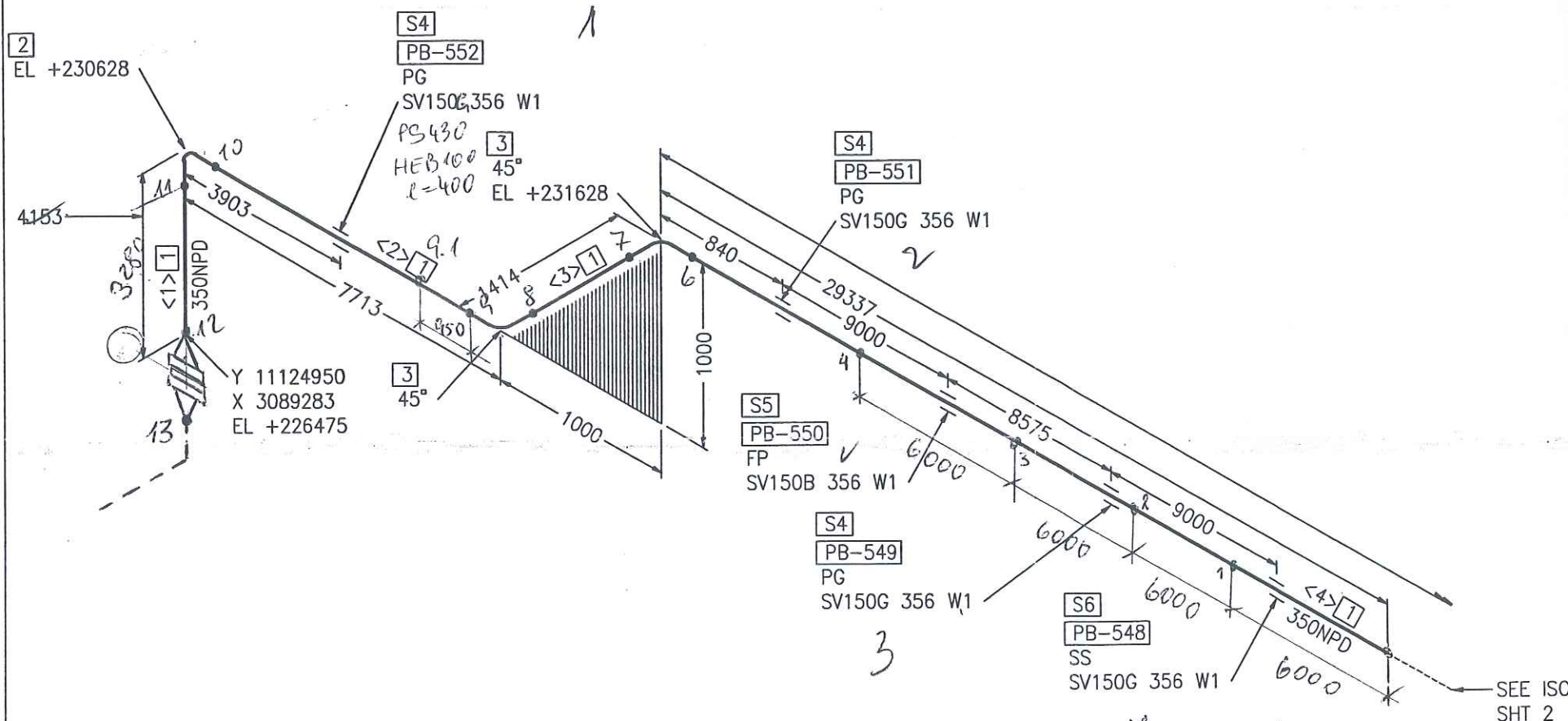
Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
P2950	350	0	WELDING NECK FLANGES; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 355,6	32,00 kg	2,00				0,00
P3140	350	0	SPECTACLE BLIND 1.0038		1,00				0,00
S0051	350	0	Web-support, SV 150B 356 W1 OZN 1.0 Hesterberg 356	43,10 kg	1,00				0,00
S0063	350	0	Web-support, SV 150G 356 W1 OZN 1.0 Hesterberg 356	62,50 kg	4,00				0,00
S0126	350	0	Web-support, SV 150H 356 W1 OZN 1.0 Hesterberg 356	62,50 kg	2,00				0,00
SC13	350	0	Segment cut 355,6		11,00				0,00
SPS041	350	0	Support PS-041, DN 350, SS pipe support	158,83 kg	1,00				0,00
SPS430	0	0	SUPPORT PS-430, HEB 100, L=400 Summe: 0 350N75005AA40C1 0	8,16 kg 3.896,26 kg	1,00	0,00	0,00		0,00 0,00

Liefersumme:	
Montagesumme:	
Gesamtsumme:	3.896,26 kg
Gesamtgewicht:	
** Ende der Ausgabe	

AS BUILT



As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	40667 MM	350	PIPE, WELDED 355.6*5.6, ST37.0, DIN EN 10220
2	1	350	ELBOW, WELDED, 1,5D 355.6*5.6-90, B-ART 3,DIN 2605-1
3	2	350	ELBOW, WELDED, 1,5D 355.6*5.6-45, B-ART 3,DIN 2605-1
4	3	350	PIPE GUIDE PSUPPORT
5	1	350	FIX POINT PSUPPORT
6	1	350	SLIDE SUPPORT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	3620	350		SQ.CUT	BEVEL	RG
<2>	6959	350		BEVEL	BEVEL	RG
<3>	972	350		BEVEL	BEVEL	RG
<4>	29116	350		BEVEL	BEVEL	RG

40667
19610
60285



17. Juni 2005 G. G. G.

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				

 Air Liquide AGS GmbH	Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:	
	Job Code: K70101		Scale: ---:---	Original format DIN A3	
Reference: ASU No. 9, Kosice		Sheet: 1		Sheets: 2	
Title: 350 N 75005 AA16C1792.8782600		Drawing No:		Rev.	



Jop Code:	K70101 ASU No. 9, Kosice	Order No.:
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Title: 350 N 75005

Drawing No.:

Project No.: 9050300

Maker's No.:

(Kunde / TÜV, ...)

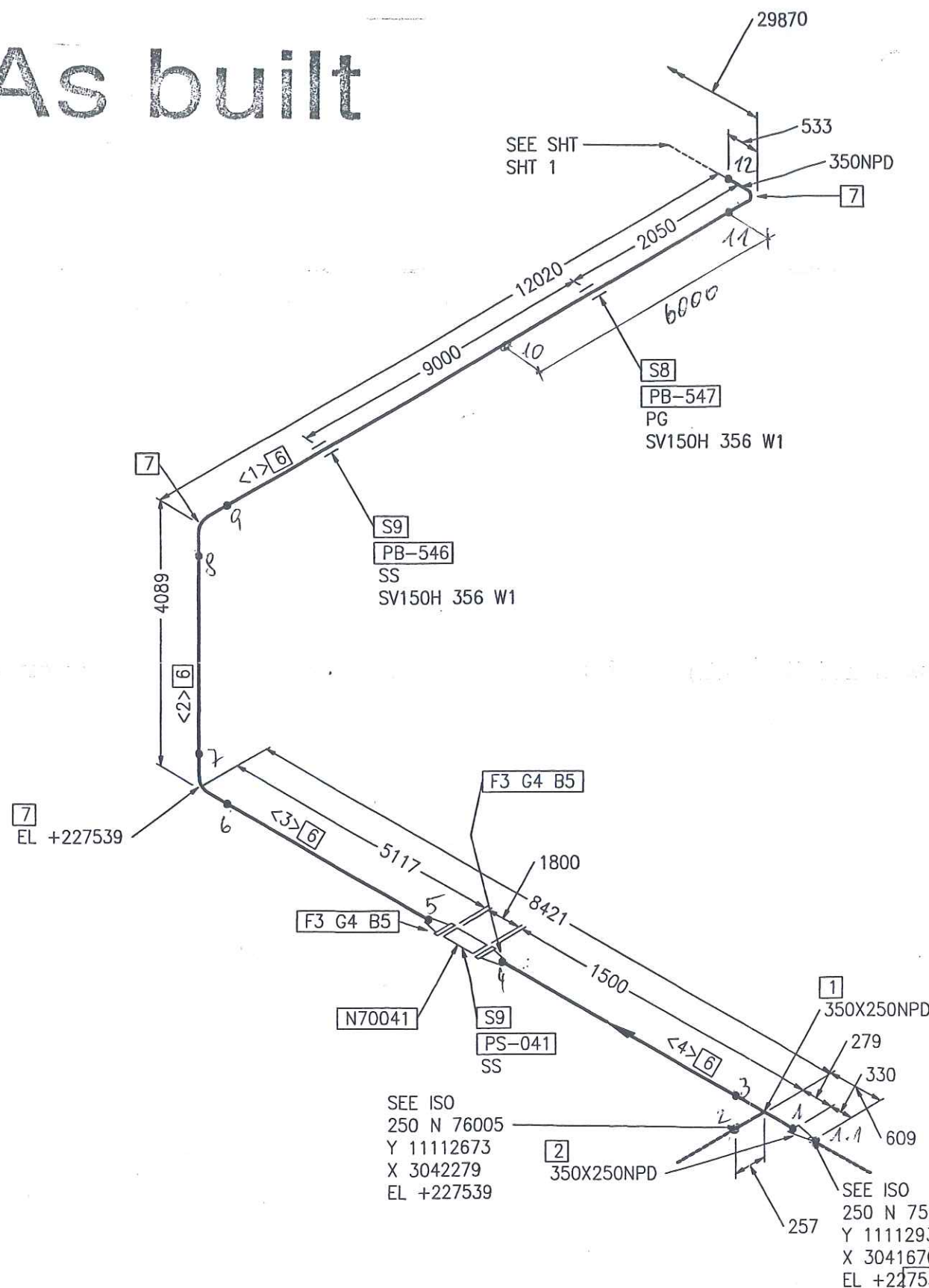
geprüft

Schweisstechnologie VAM

Datum / Unterschrift

[illegible]

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	1	350X250	TEE, SEAMLESS 355.6*11.0/273*8.8, ST37.0, DIN 2615-1
2	1	350X250	REDUCER, CONCENTRIC, SEAMLESS 355.6*5.6/273*5.0, ST37.0, DIN 2616-1
3	2	350	WELDING-NECK-FLANGE PN16, S235JRG2, DIN EN 1092-1
4	2	350	FLAT GASKET
5	32	24	HEXAGON HEAD BOLT 5.6 WITH NUT 5-2, 100.0MM LANG
6	19618	MM	PIPE, WELDED 355.6*5.6, ST37.0, DIN EN 10220
7	3	350	ELBOW, WELDED, 1,5D 355.6*5.6-90, B-ART 3,DIN 2605-1
8	1	350	PIPE GUIDE PSUPPORT
9	2	350	SLIDE SUPPORT PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	10954	350		BEVEL	BEVEL	RG
<2>	3023	350		BEVEL	BEVEL	RG
<3>	4502	350		BEVEL	BEVEL	RG
<4>	1139	350		BEVEL	BEVEL	RG

RESPONSIBILITY OF ERECTION COMPANY:

- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:

PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE

PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE

SS = SLIDING SUPPORT

PG = PIPE GUIDE

FP = FIX POINT

Rev.	Revisions	Date	Name	checked
C				
B				
A				



Air Liquide AGS GmbH

Replaces: 79_

Replaced by: 79_

Date:	Name:	Checked:	History file:
23-JUN-2005	Lesum / HGH	05-07-11	
Job Code: K70101	Reference: ASU No. 9, Kosice	Scale: 2	Original format: DIN A3
Title: 350 N 75005 AA16C1	Drawing No: 1792.87826	Rev. 00	

12. Juli 2005

LEVELS:

TOP OF INTERNAL ROADS: 225.00m n.m.

TOP OF FOUNDATION: 225.10m

BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

Preis-Stückliste 0 250N75005_1AA16C1 0 250 N 75005_1 AA16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0018	20	80	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,26 kg	8,00				0,00
B0042	24	170	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,70 kg	24,00				0,00
B0047	24	220	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,90 kg	12,00				0,00
B0508	20	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,06 kg	8,00				0,00
B0519	24	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,11 kg	36,00				0,00
G0110	200	0	Flat packings Graphite with CrNi-insert Standard 40002 273x2x220		1,00				0,00
G0115	250	0	Flat packings Graphite with CrNi-insert Standard 40002 330x2x274		6,00				0,00
GW22	150	0	girth weld 1.0254 (St 37.0) 168,3x4,5		1,00				0,00
GW26	200	0	girth weld 1.0254 (St 37.0) 219,1x4,5		2,00				0,00
GW28	250	0	girth weld 1.0254 (St 37.0) 273x5		13,00				0,00
IEXP75005	250	0	EXP75005 supplied by AGS		1,00				0,00
IHK70036	250	0	HK70036 supplied by AGS		1,00				0,00
IK70040	250	0	K70040 supplied by AGS		1,00				0,00

Preis-Stückliste 0 250N75005_1AA16C1 0 250 N 75005_1 AA16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
IQE70035	15	0	QE70035 supplied by AGS		1,00				0,00
IR70035	250	0	R70035 supplied by AGS		1,00				0,00
ITE70035	15	0	TE70035		1,00				0,00
IV70035H1	15	0	V70035H1		1,00				0,00
IV70035H2	15	0	V70035H2		1,00				0,00
P0095	250	0	pipe, welded 1.0254 (St 37.0) DIN 1626 273x5	33,00 kg	7,50				0,00
P0251	250	0	Elbow 90° R=1,5 DA, welded 1.0254 (St 37.0) DIN 2609 273x5	19,75 kg	2,00				0,00
P0758	250	150	Tee made of seamless pipe 1.0254 (St 37.0) DIN 2609 273x8,8x168,3x7,1	27,85 kg	1,00				0,00
P1500	250	200	Reducer, concentric, seamless 1.0254 (St 37.0) DIN 2609 273x5x219,1x4,5	5,30 kg	1,00				0,00
P2944	200	0	Welding neck flanges; PN 10 1.0038 (S235JRG2) DIN EN 1092-1 219,1	11,50 kg	1,00				0,00
P2946	250	0	Welding neck flanges; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 273	16,50 kg	6,00				0,00
PWI36	250	15	PIPE WELD-IN 1.4541		3,00				0,00
S0061	250	0	Web-support, SV 150G 273 W1 OZN 1.0 Hesterberg 273	49,60 kg	1,00				0,00

Preis-Stückliste 0 250N75005_1AA16C1 0 250 N 75005_1 AA16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
S0169	250	0	Web-support, SV 150G 273 W1 OZN LF 1.0 Hesterberg 273	49,80 kg	1,00				0,00
SC11	250	0	Segment cut 273		5,00				0,00
SPS082	0	0	SUPPORT PS-082	102,13 kg	1,00				0,00
SPS083	0	0	SUPPORT PS-083	244,89 kg	1,00				0,00
XZB03	250	15	welding nozzle for sample line, drawing 1.4541 22		2,00				0,00
XZB04	250	15	welding nozzle for thermowell, drawing N 1.4541 22		1,00				0,00
Summe: 0 250N75005_1AA16C1 0				911,19 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

Gesamtsumme:

Gesamtgewicht:

** Ende der Ausgabe

911,19 kg



Jop Code:	K70101	ASU No. 9, Kosice	Order No.:
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Title: 250 N 75005-1

Drawing No.:

792.87826 - 01	Maker's No.:
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geprüft

erstellt:

90.02.06

Pelzeder Erich

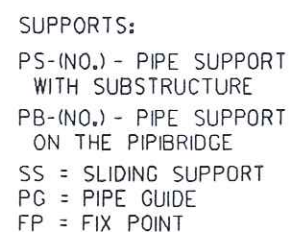
Schweisstechnologie VAM


Datum / Unterschrift

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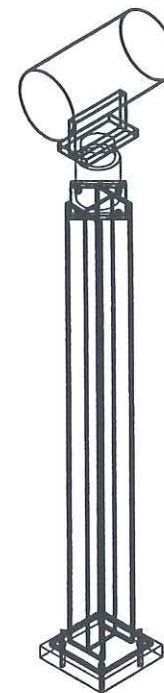
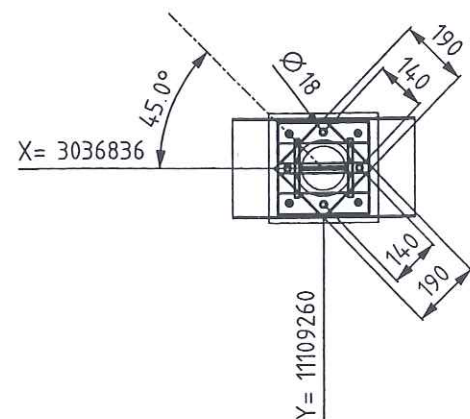
 AIR LIQUIDE Air Liquide AGS GmbH		Date: 16-SEP-2005	Name: Lesum / HGH	Checked: 05-09-15	History file.
		Job Code: K70101		Scale ---:---	Original format DIN A3
		Reference: ASU No. 9, Kosice		Sheet: 1	Sheets: 2
Replaces: 79_-----	Title:		Drawing No.		Rev.
Replaced by: 79_-----	250 N 75005_1 AA16C1		792.87826		01

* SEE ISO SHT 2 *

LEVELS:

TOP OF INTERNAL ROADS:	225.00m n.m.
TOP OF FOUNDATION:	225.10m
BOTTOM OF STEEL STRUCTURE:	225.15m = ± 0.00

THIS DRAWING AND THE INFORMATION CONTAINED THEREIN MUST NOT BE COPIED OR TRANSFERRED TO THIRD PARTIES WITHOUT PERMISSION OF THE PROPRIETOR.



	Date	Name	Check.	History File			
	09.06.2005	GU	Zut				
	Job Code:	K70101 ASU No.9 Kosice			Scale:	1:20	Original Format
	Reference:	PIPING SUPPORT			Sheet:	1	of: 1
Replaces:	Title	PS-082			Drawing-No.	792.87926	Rev. a

Technical drawing of a crane hook assembly, showing front, side, and detail views. The drawing includes dimensions and part numbers.

Front View (Left):

- Top horizontal dimension: 150-N-75006-AA16C1-
- Top horizontal part number: N70035
- Vertical dimensions (Z): 228700, 228150, 227539, 227252, 225150
- Bottom horizontal dimension: 300
- Side view dimension: 250-N-75005-AA16C1-

Side View (Right):

- Top horizontal dimension: 617, 300
- Top horizontal part number: N70035
- Vertical dimensions: 550, 611, 286, 2103, 20
- Horizontal dimensions: 270, 550, 300
- Angles: 45°, 45°
- Part numbers: PS-075 SS, PS-083 SS
- Callouts: 1, 2, 3, 4, 5, 6, 7, 8

Detail View (Bottom Left):

- Horizontal dimensions: X= 3036279, X= 3035729, X= 3035112
- Vertical dimensions: Y= 1112172, Y= 1112302
- Part number: N70035
- Dimension: Ø 78

Isometric View (Bottom Right):

- 3D perspective view of the crane hook assembly.

Table:

Archives Rev No.	Rev.	Job No.	Description	Sign.	Da

LEGEND:

-PG-	PIPE GUIDE
-FP-	FIX POINT
-SS-	SLIDE SUPPORT
-HN-	HANGER
-SSAX-	SLIDE SUPPORT WITH AXIAL STOP
-AXLS-	AXIAL STOP WITH LIFTING STOP
-SPS-	SPRING SUPPORT
-SPGS-	SPRING SUPPORT GUIDED
-GSAX-	GUIDE SUPPORT WITH AXIAL STOP
-SPAX-	SPRING SUPPORT WITH AXIAL STOP
-SH-	SPRING HANGER
-AX-	AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP
- INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:
-THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER
RESISTANT PAINT AND WHITE COLOR

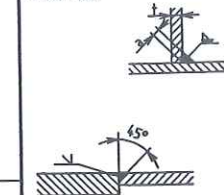
RESPONSIBILITY OF ERECTION COMPANY

- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:
-ALL SURFACES FOR COATING **MUST** BE FREE OF
CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
-THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED
SUPPORT NEEDS TO BE REMOVED
-THE SUPPORT NEEDS TO BE **PRIME** COATED

WELDING DATA ACC. TO DIN 1912 T5

$a \geq 0,7 \times t$
 $a_{\min} = 4 \text{ mm}$



Total Weight:	243.69 kg
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Item	No. Off	Unit	Description	Dimension	Material	Weight kg	Remark
1	1	pcs	PROFILE	HE200B, L=3.000	RST37-2	183.926	
2	1	pcs	PROFILE	L50X50X5, L=0.850	RST37-2	3.169	
3	1	pcs	PROFILE	L50X50X5, L=0.920	RST37-2	3.430	
4	1	pcs	U-Profil	U120, L=0.900	RST37-2	12.033	
5	1	pcs	PROFILE	U140, L=1.000	RST37-2	16.009	
6	1	pcs	PLATE 400x400x20	PLATE 20x400x400	RST37-2	25.120	
7	4	pcs	ANCHOR BOLT HST(-R)M16/100	HST-(-R) 16-0-M16	1.44.01	0.000	1,2
8	1	pcs	BASE	500x500x50	CONCRETE	0.000	

244.89

**FREIGABE
FOR CONSTRUCTION**

27. Juli 2005

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	27. JUL. 2005	Zut	<i>[Signature]</i>
Drawn checked by			



HEGMANN



AIR LIQUIDE

Air Liquide AGS GmbH

	Date	Name	Check	History File			
	26.07.2005	GU	Zut				
	Job Code:	K70101 ASU No.9 Kosice			Scale:	1:25	Original Format
	Reference:	PIPING SUPPORT			Sheet:	1	of:
Replaces:	Title	PS-083			Drawing-No.	792.87926	Rev
							a

As built



Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
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* SEE SHT SHT 1 *


CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	5010	250		BEVEL	BEVEL	RG
<2>	526	250		BEVEL	BEVEL	RG
<3>	236	250		BEVEL	BEVEL	RG
<4>	182	250		BEVEL	BEVEL	RG
<5>	524	250		BEVEL	BEVEL	RG

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

 AIR LIQUIDE Air Liquide AGS GmbH	Date: 16-SEP-2005	Name: Lesum / HGH	Checked: 05-09-15	History file.	
	Job Code: K70101		Scale: ---:---	Original format DIN A3	
Reference: ASU No. 9, Kosice		Sheet: 2		Sheets: 2	
Title: 250 N 75005_1 AA16C1792.8782601		Drawing No.		Rev.	
Replaces: 79_----- Replaced by: 79_-----					

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

Preis-Stückliste 0 150N75006AA16C1 0 150 N 75006 AA16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0017	20	70	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,23 kg	24,00				0,00
B0018	20	80	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,26 kg	20,00				0,00
B0518	20	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,06 kg	44,00				0,00
G0108	150	0	Flat packings Graphite with CrNi-insert Standard 40002 218x2x169		3,00				0,00
G0140	600	0	Flat packings Graphite with CrNi-insert Standard 40002 695x2x620		1,00				0,00
GW24	150	0	GIRTH WELD 1.0254 (St 37.0) 168,3x4,5		7,00				0,00
GW36	600	0	girth weld 1.0254 (St 37.0) 610x6,3		1,00				0,00
IHV70035	150	0	HV70035 supplied by AGS		1,00				0,00
P0054	150	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 168,3x4,5	18,20 kg	1,85				0,00
P0105	600	0	pipe, welded 1.0254 (St 37.0) DIN 1626 610x6,3	93,80 kg	0,80				0,00
P0210	150	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 168,3x4,5	6,55 kg	2,00				0,00
P2943	150	0	WELDING NECK FLANGES; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 168,3	7,50 kg	3,00				0,00

Preis-Stückliste 0 150N75006AA16C1 0 150 N 75006 AA16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
P2956	600	0	WELDING NECK FLANGES, PN 6 1.0038		1,00				0,00
SC16	600	0	Segment cut 610		1,00				0,00
SC9	150	0	Segment cut 168,3		4,00				0,00
Summe: 0 150N75006AA16C1 0				157,67 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

Gesamtsumme:

Gesamtgewicht:

** Ende der Ausgabe

157,67 kg

AS EUSIT



Jop Code:	K70101	ASU No. 9, Kosice	Order No.:
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Title: 150 N 75006

Drawing No.: 792.87826 - 01

Maker's No.:

(Kunde / TÜV, ...)

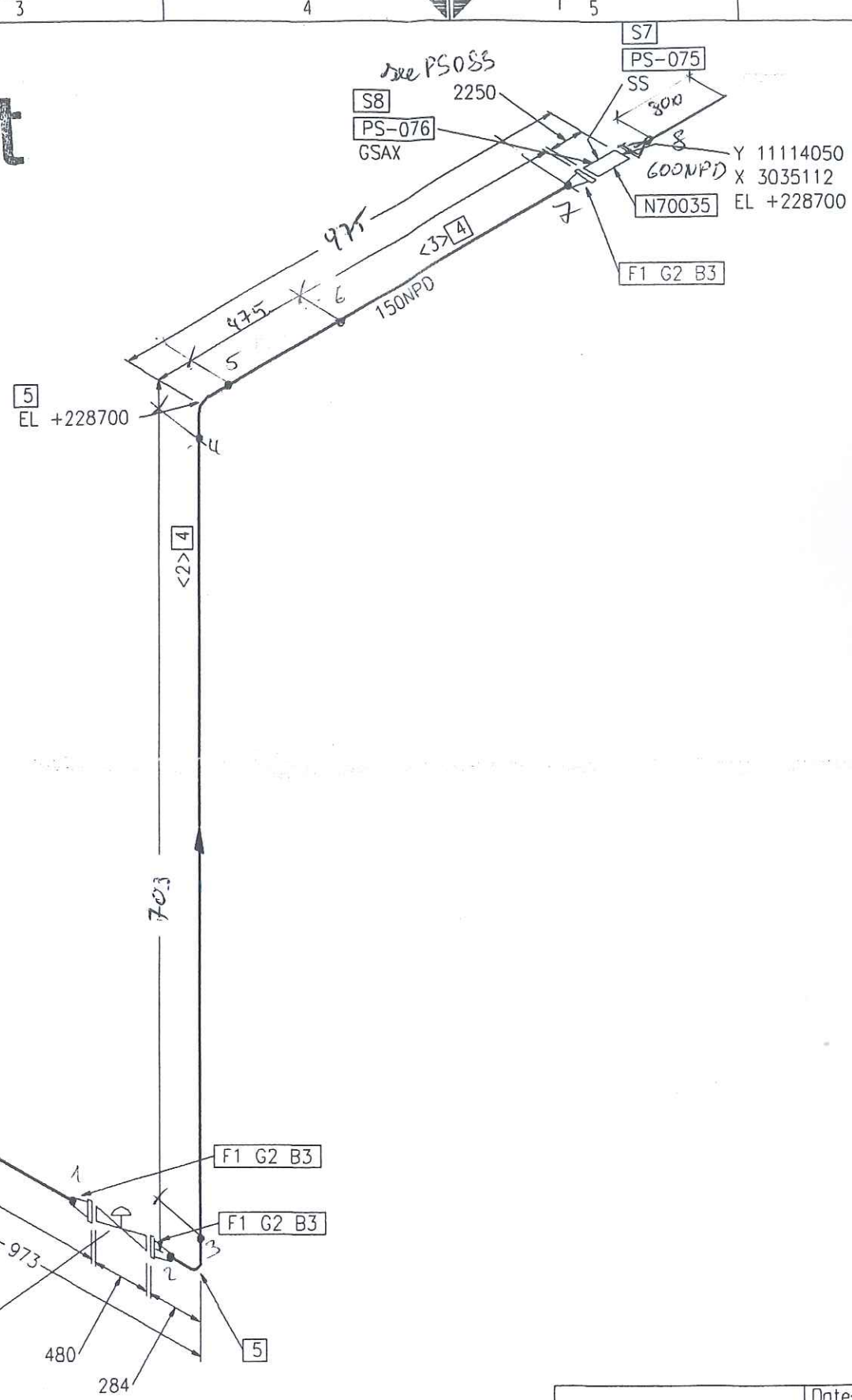
geprüft

10.02.16 DL
Pelzeder Erich
Datum / Unterschrift

Schweisstechnologie VAM
Datum / Unterschrift

[illegible]

As built



SEE ISO
250 N 75005_1
Y 11111139
X 3036085
EL +227539

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
01	General Rev	15.09.2005	Les	Zul

		Date:	16-SEP-2005	Name:	Lesum / HGH	Checked:	05-09-15	History file.	
		Job Code:	K70101	Reference:	ASU No. 9, Kosice	Title:	150 N 75006 AA16C1792.8782601		
Air Liquide AGS GmbH		Replaces:		79_-----	Replaced by:		79_-----	Scale:	1
		Revisions		Date	Name	checked	Original format	DIN A3	Rev.
							Sheet:	1	Sheets:
							Drawing No.		Rev.

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	3	150	WELDING-NECK-FLANGE PN16, S235JRG2, DIN EN 1092-1
2	3	150	FLAT GASKET
3	24	20	HEXAGON HEAD BOLT 5.6 WITH NUT 5-2, 70.0MM LANG
4	1228 MM	150	PIPE, SEAMLESS 168.3*4.5, ST37.0, DIN EN 10220
5	2	150	ELBOW, SEAMLESS, 1,5D 168.3*4.5-90, B-ART 3,DIN 2605-1
6	1	150	HV70035 HV70035
7	1	150	SLIDE SUPPORT PSUPPORT
8	1	150	GUIDE SUPPORT WITH AXIAL STOP PSUPPORT

CUT PIPE LENGTH			REMARKS	END ONE	END TWO	ITEM CODE
PIECE NO	LENGTH (MM)	NPD (MM)				
<1>	150	150		BEVEL	BEVEL	RN
<2>	703	150		BEVEL	BEVEL	RN
<3>	375	150		BEVEL	BEVEL	RN

LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

Preis-Stückliste 0 250N76005AA16C1 0 250 N 76005 AA16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0018	20	80	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,26 kg	8,00				0,00
B0042	24	170	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,70 kg	24,00				0,00
B0047	24	220	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,90 kg	12,00				0,00
B0508	20	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,06 kg	8,00				0,00
B0519	24	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,11 kg	36,00				0,00
G0110	200	0	Flat packings Graphite with CrNi-insert Standard 40002 273x2x220		1,00				0,00
G0115	250	0	Flat packings Graphite with CrNi-insert Standard 40002 330x2x274		6,00				0,00
GW24	150	0	GIRTH WELD 1.0254 (St 37.0) 168,3x4,5		1,00				0,00
GW26	200	0	girth weld 1.0254 (St 37.0) 219,1x4,5		2,00				0,00
GW28	250	0	girth weld 1.0254 (St 37.0) 273x5		11,00				0,00
IEXP76005	250	0	EXP76005 supplied by AGS		1,00				0,00
IHK77036	250	0	HK77036 supplied by AGS		1,00				0,00
IK77040	250	0	K77040 supplied by AGS		1,00				0,00

Preis-Stückliste 0 250N76005AA16C1 0 250 N 76005 AA16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
IQE77035	15	0	QE77035 supplied by AGS		1,00				0,00
IR77035	250	0	R77035 supplied by AGS		1,00				0,00
ITE77035	15	0	TE77035		1,00				0,00
IV77035H1	15	0	V77035H1		1,00				0,00
IV77035H2	15	0	V77035H2		1,00				0,00
P0095	250	0	pipe, welded 1.0254 (St 37.0) DIN 1626 273x5	33,00 kg	2,20				0,00
P0251	250	0	Elbow 90° R=1,5 DA, welded 1.0254 (St 37.0) DIN 2609 273x5	19,75 kg	1,00				0,00
P0682	250	200	TEE MADE OF SEAMLESS PIPE 1.0254 (St 37.0) DIN 2609	51,87 kg	1,00				0,00
P0758	250	150	Tee made of seamless pipe 1.0254 (St 37.0) DIN 2609 273x8,8x168,3x7,1	27,85 kg	1,00				0,00
P1500	250	200	Reducer, concentric, seamless 1.0254 (St 37.0) DIN 2609 273x5x219,1x4,5	5,30 kg	1,00				0,00
P2944	200	0	Welding neck flanges; PN 10 1.0038 (S235JRG2) DIN EN 1092-1 219,1	11,50 kg	1,00				0,00
P2946	250	0	Welding neck flanges; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 273	16,50 kg	6,00				0,00
PWI36	250	15	PIPE WELD-IN 1.4541		3,00				0,00
S0061	250	0	Web-support, SV 150G 273 W1 OZN 1.0 Hesterberg 273	49,60 kg	1,00				0,00

Preis-Stückliste 0 250N76005AA16C1 0 250 N 76005 AA16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
S0169	250	0	Web-support, SV 150G 273 W1 OZN LF 1.0 Hesterberg 273	49,80 kg	1,00				0,00
SC11	250	0	Segment cut 273		4,00				0,00
SPS081	0	0	SUPPORT PS-081	102,02 kg	1,00				0,00
SPS084	0	0	SUPPORT PS-084	234,42 kg	1,00				0,00
XZB03	250	15	welding nozzle for sample line, drawing 1.4541 22		2,00				0,00
XZB04	250	15	welding nozzle for thermowell, drawing N 1.4541 22		1,00				0,00
Summe: 0 250N76005AA16C1 0				757,83 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

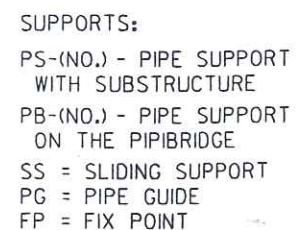
Gesamtsumme:

Gesamtgewicht:


** Ende der Ausgabe

757,83 kg

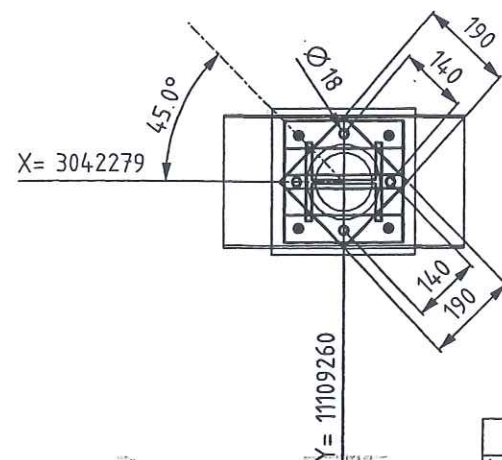
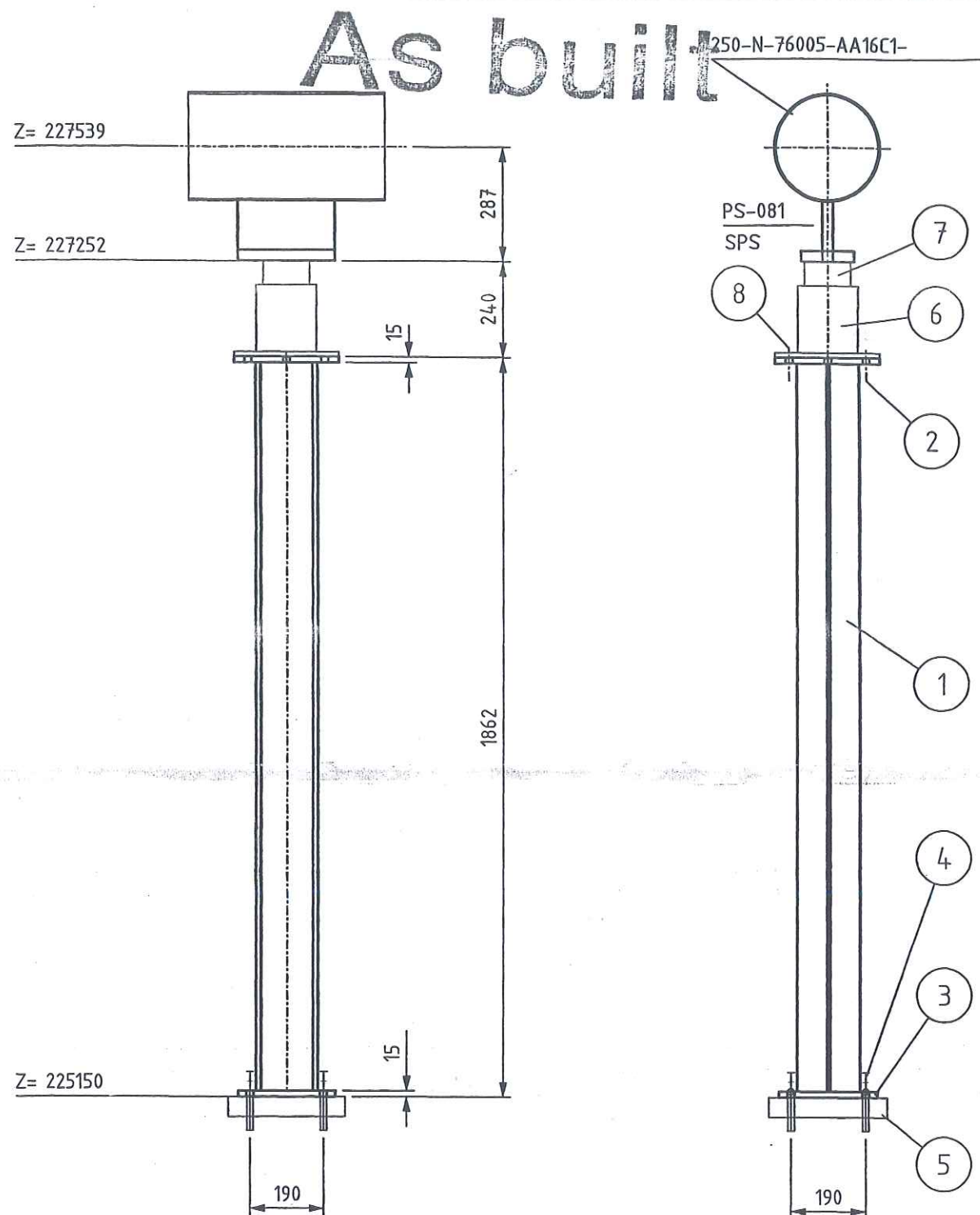
 N



LEVELS:	
TOP OF INTERNAL ROADS:	225,00m n.m.
TOP OF FOUNDATION:	225,10m
BOTTOM OF STEEL STRUCTURE:	225,15m = $\pm 0,00$

 AIR LIQUIDE Air Liquide AGS GmbH	Date:	Name:	Checked:	History file:
	16-SEP-2005	Lesum / HGH	05-09-15	
	Job Code: K70101	Scale	Original format	
	Reference: ASU No. 9, Kosice	---:---	DIN A3	
		Sheet: 1	Sheets: 1	
Replaces: 79_-----	Title:	Drawing No:		Rev.
Replaced by: 79_-----	250 N 76005 AA16C1		792.87826	01

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Archives Rev. No.	Rev.	Job No.	Description	Sign.	Date
R E V I S I O N S					

LEGEND:

- PG- PIPE GUIDE
- FP- FIX POINT
- SS- SLIDE SUPPORT
- HN- HANGER
- SSAX- SLIDE SUPPORT WITH AXIAL STOP
- AXLS- AXIAL STOP WITH LIFTING STOP
- SPS- SPRING SUPPORT
- SPGS- SPRING SUPPORT GUIDED
- GSAX- GUIDE SUPPORT WITH AXIAL STOP
- SPAX- SPRING SUPPORT WITH AXIAL STOP
- SH- SPRING HANGER
- AX- AXIAL STOP

- ALL SHARP EDGES REMOVED
- MANUFACTURING ALLOWANCE ACC. TO DIN ISO 2766-M
- FOR STAINLESS STEEL PIPES (SS) PIPE SHOE WRAP INSIDE WITH PTFE-BAND
- NOT MARKING WELDED SEAMS a=4mm ROUND

MARKING:

- THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER RESISTANT PAINT AND WHITE COLOR

RESPONSIBILITY OF ERECTION COMPANY

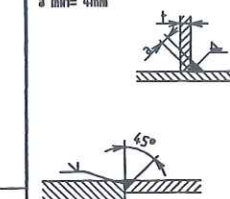
- LOCATION OF FIELD WELDS
- FITTING LENGTHS
- DIMENSIONAL CHECK AT SITE BEFORE STARTING SPOOL MANUFACTURE

COATING:

- ALL SURFACES FOR COATING MUST BE FREE OF CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
- THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED SUPPORT NEEDS TO BE REMOVED
- THE SUPPORT NEEDS TO BE PRIME COATED

WELDING DATA ACC. TO DIN 1912 TS

a >= 0,7 x t
a min= 4mm



Total Weight: 89.72 kg

Item	No. Off	Unit	Description	Dimension	Material	Weight kg	Remark
1	1	pcs	PROFILE	HE160B, L=1.832	RST37-2	78.110	
2	1	pcs	PLATE 15x190x190	PLATE 15x190x190	RST37-2	4.251	
3	1	pcs	PLATE 250	PLATE 250x250x15	RST37-2	7.359	
4	4	pcs	ANCHOR BOLT HST(-R)M16/100	HST-(-R) 16-0-M16	1.4401	0.000	1,2
5	1	pcs	BASE	300x300x50	CONCRETE	0.000	
6	1	pcs	SPRING SUPPORT	LISEGA TYP: 294118	NN	0.000	11,1
7	1	pcs	SPR. SUPP. PLATE	LISEGA TYP: 704916	NN	0.000	
8	1	pcs	SET OF 4 BOLTS+NUTS	M16x50; M16	NN	0.000	102,02
27. Juli 2005							

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	25. JUL. 2005	Zut	
Drawn checked by			

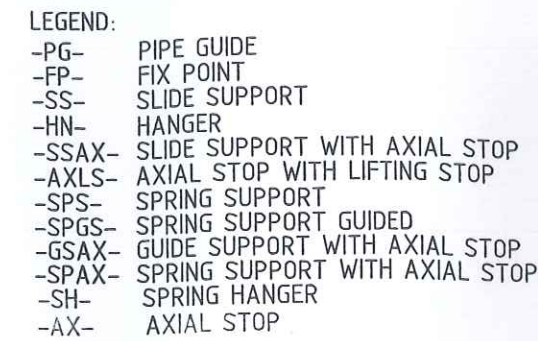
H G H
HEGMANN S

AIR LIQUIDE

Air Liquide AGS GmbH

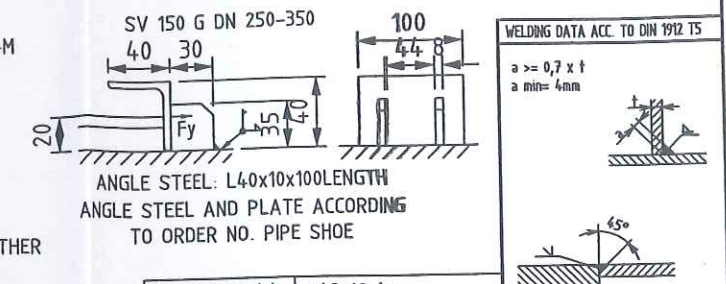
Date	Name	Check	History File
08.06.2005	GU	Zut	
Job Code:	K70101 ASU No.9 Kosice		
Reference:	PIPING SUPPORT		
Replaces:	Title PS-081		
Scale:	1:15	Original Format	DIN A3
Sheet:	1 of:	1	
Drawing-No.	792.87926	Rev.	a

As built



MARKING:
-THE SUPPORT ID-NO. IS TO BE WRITTEN WITH WEATHER
RESISTANT PAINT AND WHITE COLOR

COATING:
-ALL SURFACES FOR COATING **MUST** BE FREE OF
CONTAMINANTS ALL OIL, GREASE AND ALL LOOSE DUST
-THE RUST, WELDING FLUX AND DIRT FROM THE COMPLETED
SUPPORT NEEDS TO BE **REMOVED**
-THE SUPPORT NEEDS TO **BE PRIME COATED**



Item	No. Off	Unit	Description	Dimension	Material	Weight kg	Remark
1	1	pcs	PROFILE	HE200B, L=2.990	RST37-2	183.312	
2	1	pcs	PROFILE	L50X50X5, L=0.895	RST37-2	3.337	
3	1	pcs	PROFILE	L50X50X5, L=0.900	RST37-2	3.356	
4	1	pcs	U-Profil	U120, L=0.900	RST37-2	12.044	
5	1	pcs	PROFILE	U140, L=1.000	RST37-2	16.014	
6	1	pcs	PLATE 400x400x20	PLATE 20x400x400	RST37-2	25.120	
7	4	pcs	ANCHOR BOLT HST(-R)M16/100	HST-(-R) 16-0-M16	1.4401	0.000	4,2
8	1	pcs	BASE	500x500x50	CONCRETE	0.000	23463

FREIGABE FOR CONSTRUCTION

27. Juli 2005

	Date	Name	Signature
Approved by			
Checked by		Gans	
Checked by	27. JUL. 2005	Zut	<i>[Signature]</i>
Drawn checked by			



AIR LIQUIDE

Air Liquide AGS GmbH

	Date	Name	Check.	History File		
	26.07.2005	GU	Zut			
	Job Code:	K70101 ASU No.9 Kosice			Scale:	Original Format
	Reference:	PIPING SUPPORT			1:25	DIN A3
				Sheet:	1 of:	1
Replaces:	Title	PS-084			Drawing-No.	Rev.
					792.87926	a

Preis-Stückliste 0 150N76006AA16C1 0 150 N 76006 AA16C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0017	20	70	Hexagon head screws 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,23 kg	24,00				0,00
B0018	20	80	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,26 kg	20,00				0,00
B0518	20	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,06 kg	44,00				0,00
G0108	150	0	Flat packings Graphite with CrNi-insert Standard 40002 218x2x169		3,00				0,00
G0140	600	0	Flat packings Graphite with CrNi-insert Standard 40002 695x2x620		1,00				0,00
GW24	150	0	GIRTH WELD 1.0254 (St 37.0) 168,3x4,5		7,00				0,00
GW36	600	0	girth weld 1.0254 (St 37.0) 610x6,3		1,00				0,00
IHV77035	150	0	HV77035 supplied by AGS		1,00				0,00
P0054	150	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 168,3x4,5	18,20 kg	2,15				0,00
P0105	600	0	pipe, welded 1.0254 (St 37.0) DIN 1626 610x6,3	93,80 kg	0,80				0,00
P0210	150	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 168,3x4,5	6,55 kg	2,00				0,00
P2943	150	0	WELDING NECK FLANGES; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 168,3	7,50 kg	3,00				0,00

Preis-Stückliste 0 150N76006AA16C1 0 150 N 76006 AA16C1 Revision:

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
P2956	600	0	WELDING NECK FLANGES, PN 6 1.0038		1,00				0,00
SC16	600	0	Segment cut 610		1,00				0,00
SC9	150	0	Segment cut 168,3		4,00				0,00
Summe: 0 150N76006AA16C1 0				163,13 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

Gesamtsumme:

Gesamtgewicht:

** Ende der Ausgabe

163,13 kg

As built



250NPD
250NPD
250X150NPD
SEE ISO
250 N 76005
Y 11110875
X 3042085
EL +227539

5
EL +228700

Y 11114050
X 3041077
EL +228700
S8 PS-078 GSAX
PS-077
SS
N77035
F1 G2 B3

Part No.	Qty [PCS/MM]	NPD [Size]	Component Description
1	3	150	WELDING-NECK-FLANGE PN16, S235JRG2, DIN EN 1092-1
2	3	150	FLAT GASKET
3	24	20	HEXAGON HEAD BOLT 5.6 WITH NUT 5-2, 70.0MM LANG
4	1527 MM	150	PIPE, SEAMLESS 168.3*4.5, ST37.0, DIN EN 10220
5	2	150	ELBOW, SEAMLESS, 1,5D 168.3*4.5-90, B-ART 3,DIN 2605-1
6	1	150	HV77035 HV77035
7	1	150	SLIDE SUPPORT PSUPPORT
8	1	150	GUIDE SUPPORT WITH AXIAL STOP PSUPPORT

CUT PIPE LENGTH

PIECE NO	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	185	150		BEVEL	BEVEL	RN
<2>	703	150		BEVEL	BEVEL	RN
<3>	639	150		BEVEL	BEVEL	RN

12. Juli 2005

LEVELS:
TOP OF INTERNAL ROADS: 225,00m n.m.
TOP OF FOUNDATION: 225,10m
BOTTOM OF STEEL STRUCTURE: 225,15m = ±0,00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPIBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

AIR LIQUIDE

Air Liquide AGS GmbH

Replaces: 79____
Replaced by: 79____

Rev.	Revisions	Date	Name	checked
C				
B				
A				

Date: 07-JUL-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
Job Code: K70101	Reference: ASU No. 9, Kosice	Scale: 1:1	Original format: DIN A3
Title: 150 N 76006 AA16C1792.87826.00	Drawing No:	Sheet: 1	Sheets: 1
			Rev.

Preis-Stückliste 0 300N77074AA16C1 0 300 N 77074 AA16C1 Revision: 01

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0018	20	80	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,26 kg	16,00				0,00
B0037	24	120	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1/ DIN ISO 4014		12,00				0,00
B0502	20	0	Hexagon head nuts Ck 35 (1.1181) DIN 267-13	0,06 kg	16,00				0,00
B0509	24	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,11 kg	12,00				0,00
G0108	150	0	Flat packings Graphite with CrNi-insert Standard 40002 218x2x169		2,00				0,00
G0118	300	0	Flat packings Graphite with CrNi-insert Standard 40002 378x2x325		2,00				0,00
GW24	150	0	GIRTH WELD 1.0254 (St 37.0) 168,3x4,5		2,00				0,00
GW26	200	0	girth weld 1.0254 (St 37.0) 219,1x4,5		4,00				0,00
GW31	300	0	girth weld 1.0254 (St 37.0) 323,9x5,6		5,00				0,00
IFE77074	300	0	FE77074		1,00				0,00
IFV77074	150	0	FV77074		1,00				0,00
P0069	200	0	PIPE, WELDED 1.0254 (St 37.0) DIN 1626 219,1x4,5	23,80 kg	0,70				0,00
P0071	300	0	PIPE, WELDED St37.0 /DIN 2458/ 323,9x5,6	44,00 kg	4,22				0,00

Preis-Stückliste 0 300N77074AA16C1 0 300 N 77074 AA16C1 Revision: 01

(Fortsetzung)

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
P0225	200	0	Elbow 90° R=1,5 DA, welded 1.0254 (St 37.0) DIN 2609 219,1x4,5	11,40 kg	2,00				0,00
P0227	300	0	Elbow 90° R=1,5 DA, welded 1.0254 (St 37.0) DIN 2609 323,9x5,6	31,59 kg	1,00				0,00
P1478	300	150	REDUCER, CONCENTRIC, SEAMLESS St35.8 /DIN 2616-2/ 323,9x5,6/168,3x4,5	12,80 kg	1,00				0,00
P1480	200	150	REDUCER, CONCENTRIC, SEAMLESS St35.8I /DIN 2616-2/ 219,1x4,5/168,3x4,5	12,70 kg	1,00				0,00
P2943	150	0	WELDING NECK FLANGES; PN 16 1.0038 (S235JRG2) DIN EN 1092-1 168,3	7,50 kg	2,00				0,00
P2951	300	0	WELDING NECK FLANGES, PN 16 C22.8 /DIN 2633/		2,00				0,00
S0062	300	0	Web-support, SV 150G 324 W1 OZN 1.0 Hesterberg 324	52,10 kg	1,00				0,00
SC10	200	0	Segment cut 219,1		3,00				0,00
SC12	300	0	Segment cut 323,9		3,00				0,00
SPS166	0	0	SUPPORT PS-166	101,11 kg	1,00				0,00
Summe: 0 300N77074AA16C1 0				456,88 kg		0,00	0,00		0,00

Liefersumme:
Montagesumme:
Gesamtsumme:

Preis-Stückliste 0 300N77074AA16C1 0 300 N 77074 AA16C1 Revision: 01									
Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
Gesamtgewicht:				456,88 kg					
** Ende der Ausgabe									

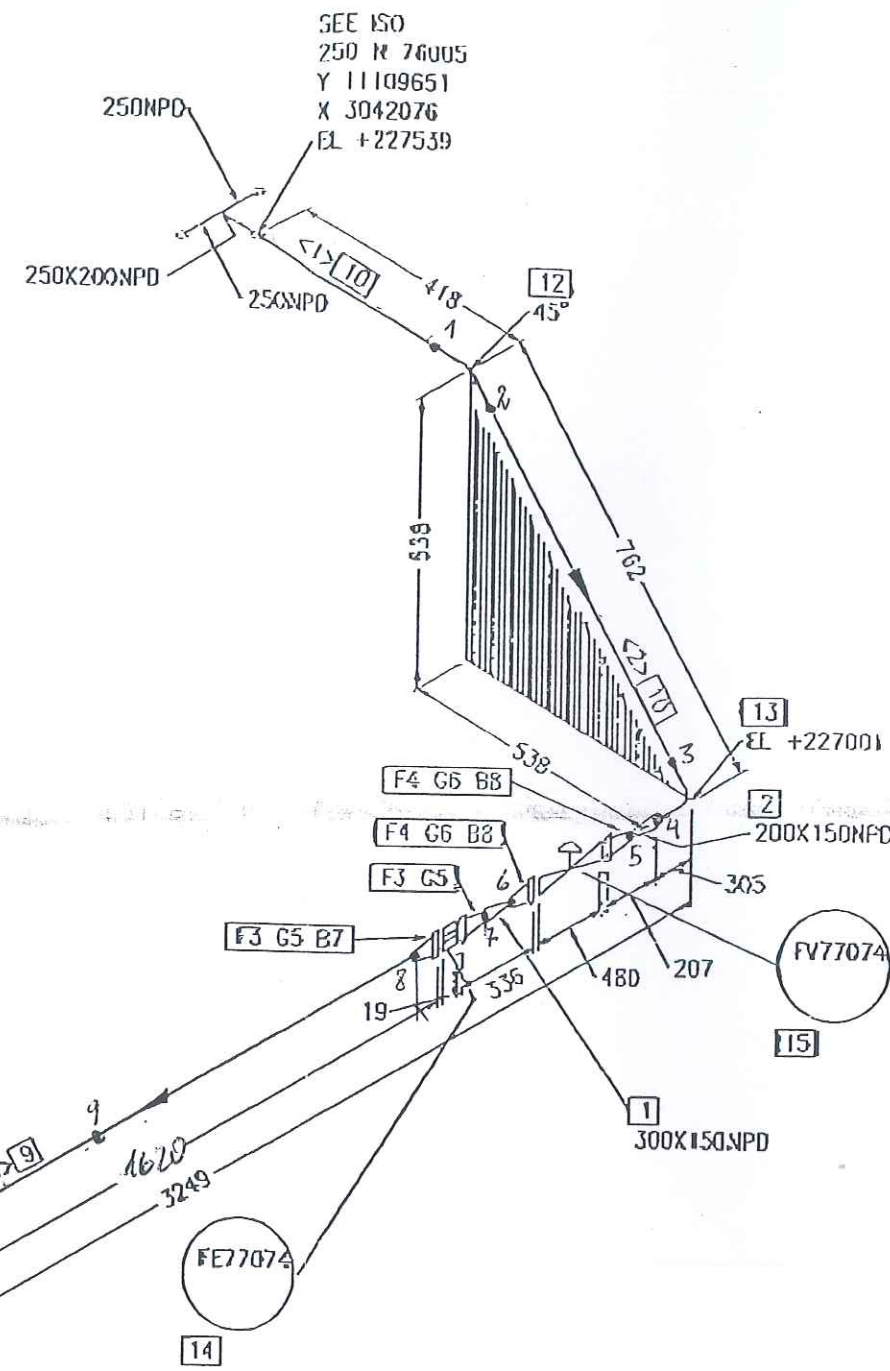
NR.878 S.9

1" ELEVATION HIG 6' 10" DIA

2.00

2.00

As built



Part No.	Qty	Unit	Size	Component Description
1	1			300X150 REDUCER, CONCENTRIC, SEAMLESS 323.9*5.6/168.3*4.5, ST37.0, DIN 2616-1
2	1			200X150 REDUCER, CONCENTRIC, SEAMLESS 219.1*4.5/168.3*4.5, ST37.0, DIN 2616-1
3	2			300 WELDING-NECK-FLANGE PN16, S235JR G2, DIN EN 1092-1
4	2			150 WELDING-NECK-FLANGE PN16, S235JR G2, DIN EN 1092-1
5	2			300 FLAT GASKET
6	2			150 FLAT GASKET
7	12			HEXAGON HEAD BOLT 5.6 WITH NUT 5-2, 120.0MM LONG
8	16			HEXAGON HEAD BOLT 5.6 WITH NUT 5-2, 70.0MM LONG
9	3648 MM			PIPE, WELDED 323.9*5.6, ST37.0, DIN EN 10220
10	622 MM			PIPE, WELDED 219.1*4.5, ST37.0, DIN EN 10220
11	1			ELBOW, WELDED, 1.5D 323.9*5.6-90, B-PART 3, DIN 2605-1
12	1			ELBOW, WELDED, 1.5D 219.1*4.5-45, B-PART 3, DIN 2605-1
13	1			ELBOW, WELDED, 1.5D 219.1*4.5-90, B-PART 3, DIN 2605-1
14	1			ERROR READING SPECIALLY MATERIAL DESCRIPTION LIBRARY FE77074
15	1			ERROR READING SPECIALLY MATERIAL DESCRIPTION LIBRARY FE77074

OUT PIPE ELEVATION						
PIECE NO.	LENGTH (MM)	NPD (MM)	REMARKS	END ONE	END TWO	ITEM CODE
<1>	291	200		BEVEL	BEVEL	RG
<2>	331	200		BEVEL	BEVEL	RG
<3>	1359	300		BEVEL	BEVEL	RG
<4>	2269	300		BEVEL	BEVEL	RG

LEVELS:
TOP OF INTERNAL ROADS: 225.00m a.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

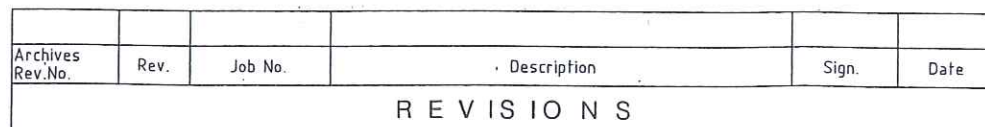
RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting seams
- Situation of pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(XO,)- PIPE SUPPORT WITH SUBSTRUCTURE
PB-(XO,)- PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev	Revisions	Date	Name	checked
01	General Rev.	05/02/2005	Lus	Zul

 Air Liquide 405 GmbH	Date:	17-SEP-2005	Name:	Lesun/H3H	Checked:	05-09-15	History No.:	
	Job Code:	K70101	Scale:	1:1	Original format:	DIN A3	Sheet:	1
	Reference:	ASU No. 9, Kosice	Sheet:	1	Shells:	1	Rev:	
	Title:	300 N 77074 AA16C1792.8782601						

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Scale:	1:15	Original Format	
Sheet:	1	of:	1
Drawing-No.			Rev
792.87926			a

Preis-Stückliste 0 15LV77505AA10C1 0 15 LV 77505 AA10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
B0001	12	50	HEXAGON HEAD SCREWS 5.6 DIN EN ISO 898-1 / DIN EN ISO 4014	0,06 kg	4,00				0,00
B0506	12	0	Hexagon nuts 5-2 DIN EN ISO 898-2 / DIN EN ISO 4032	0,02 kg	4,00				0,00
G0092	15	0	Flat packings Graphite with CrNi-insert Standard 40002 50x2x22		1,00				0,00
GW2	15	0	girth weld 1.0254 (St 37.0) 21,3x2		2,00				0,00
P0001	15	0	PIPE, SEAMLESS 1.0254 (St 37.0) DIN 1629 21,3x2	0,95 kg	0,80				0,00
P0200	15	0	Elbow 90° R=1,5 DA, seamless 1.0254 (St 37.0) DIN 2609 21,3x2	0,04 kg	1,00				0,00
P2873	15	0	Welding neck flanges; PN 40 1.0038 (S235JRG2) DIN EN 1092-1 21,3	1,00 kg	1,00				0,00
SC1	15	0	Segment cut 21,3		1,00				0,00
Summe: 0 15LV77505AA10C1 0				2,12 kg		0,00	0,00		0,00

Liefersumme:

Montagesumme:

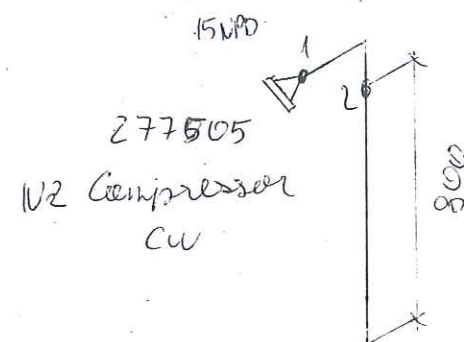
Gesamtsumme:

Gesamtgewicht:

** Ende der Ausgabe

2,12 kg

As built



LEVELS:
 TOP OF INTERNAL ROADS: 225.00m n.m.
 TOP OF FOUNDATION: 225.10m
 BOTTOM OF STEEL STRUCTURE: 225.15m = ± 0.00

RESPONSIBILITY OF ERECTION COMPANY:
 - Situation of mounting sooms
 - Situation off pass- length
 - Check of measure details and pipe courses on the construction site
 - Situation of the spindle at valve
 - All components for Oxygen use free of oil and grease

SUPPORTS:
 PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
 PD-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
 SS = SLIDING SUPPORT
 PG = PIPE GUIDE
 FP = FIX POINT

Rev.	Revisión	Date	Name	checked
C				
D				
A				

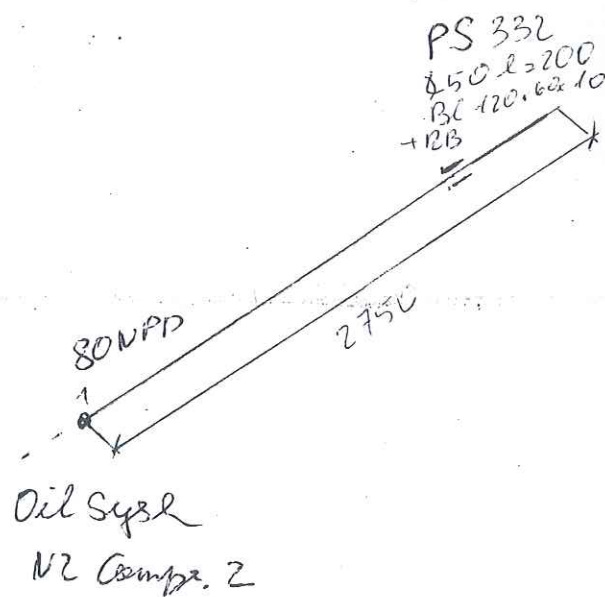
 Air Liquide AGS GmbH	Date:	23-JUN-2005	Name:	Lesum / HCH	Checked:	05-07-11	History file:
	Job Code: K70101				Scale:	Original format DIN A3	
Reference: ASU No. 9, Kosice				Sheet:	Sheets:		
Title:				Drawing No:		Rev.	
15.40 277505 174 1001				792-8782600			

Preis-Stückliste 0 80LV77802AA10C1 0 80 LV 77802 AA10C1 Revision:

Teilenummer	NW1	NW2	Teilebezeichnung	Einzelgew.	Menge	Lieferung	Montage	L + M	Gesamt
GW16	80	0	girth weld 1.0254 (St 37.0) 88,9x3,2		1,00				0,00
P0008	80	0	pipe, seamless 1.0254 (St 37.0) DIN 1629 88,9x3,2	6,76 kg	2,75				0,00
SC6	80	0	Segment cut 88,9		1,00				0,00
SCP05	80	0	PIPE CLAMP, RB10A 89 W3 HESTERBERG		1,00				0,00
SPS332	0	0	SUPPORT PS-332, L 50, L=200	1,92 kg	1,00				0,00
Summe: 0 80LV77802AA10C1 0				20,51 kg		0,00	0,00		0,00

Liefersumme:	
Montagesumme:	
Gesamtsumme:	20,51 kg
Gesamtgewicht:	
** Ende der Ausgabe	

AS BUCHT




LEVELS:
TOP OF INTERNAL ROADS: 225.00m n.m.
TOP OF FOUNDATION: 225.10m
BOTTOM OF STEEL STRUCTURE: 225.15m = ±0.00

RESPONSIBILITY OF ERECTION COMPANY:
- Situation of mounting soams
- Situation off pass- length
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valvo
- All components for Oxygen use free of oil and grease

SUPPORTS:
PS-(NO.) - PIPE SUPPORT WITH SUBSTRUCTURE
PB-(NO.) - PIPE SUPPORT ON THE PIPEBRIDGE
SS = SLIDING SUPPORT
PG = PIPE GUIDE
FP = FIX POINT

Rev.	Revisions	Date	Name	checked
-C				
-B				
-A				

 AIR LIQUIDE Air Liquide AGS GmbH	Date: 23-JUN-2005	Name: Lesum / HGH	Checked: 05-07-11	History file:
	Job Code: K70101		Scale: 1:1	Original format: DIN A3
Reference: ASU No. 9. Kosice		Sheet: 792.87826		Rev. 00
Title: 80 LV 77802 AH 1001				