
 <b>AIR LIQUIDE</b>		<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE20003</b>	
Air Liquide AGS GmbH		Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101	
		Designation: <b>HP-GAN TO CUSTOMER</b>				Page:                      of:	
						Combination with Tag-No.:	

Rev.						Rev.			
1	Location	Line - No.		100 N-20008-AA40C1		54	<input checked="" type="checkbox"/> Manufacturer	WIKA	
2		Equipment-No.				55	Type		
3		DN	100	PN	40	Material	St37	Design	with terminal socket
4		Flanges		DIN EN 1092-1		Gasket	Form B1	Cable length	
5		Taps				Material		Cable type	
6	Service conditions	Medium		GAN		59			
7						60	Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire	
8		State		<input type="checkbox"/> liquid <input checked="" type="checkbox"/> gaseous <input type="checkbox"/> vaporous		61	Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100	
9		Operation case		case 1	case 2	case 3	62	Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
10		Flow	Nm³/h	3500			63	Sheath OD	3 mm
11		P <sub>1</sub> (abs.)	bar	21			64	Sensor Length "ML"	257 mm
12		Temperature t <sub>1</sub>	°C	20			65	Material	316 SST
13		Ambient temp.	°C	-25...35 °C			66	IEC 751	<input checked="" type="checkbox"/>
14	Connection head	<input checked="" type="checkbox"/> Manufacturer		WIKA		67	Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B	
15		Type				68	Range	-200...+450 °C	
16		Form		DIN 43729-Form B		69	Vibration proof	10 x g continual	
17		Material		Aluminum		70	Junction	ungrounded	
18		Enclosure Class		IP65 / NEMA 4x		71	Drawing no.	792.82048 dated 01.04.2003	
19		Conduit Connection		M20x1,5		72			
20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"		72 mm		73	Certificates	<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1	
21		Diameter	da x s	11 x 2 mm		74		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)	
22		Material		316 SST		75		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service	
23						76		<input checked="" type="checkbox"/> Packed acc. cert. 06271	
24		Drawing No.		792.82046 dated 01.04.2003		77		<input type="checkbox"/> Conformity certificate	
25	Thermowell	<input checked="" type="checkbox"/> Manufacturer		WIKA		78		<input checked="" type="checkbox"/> Marking with TAG-number	
26		Type				79			
27		Immersion Length "EL"		160 mm		80			
28		Style; OD; Bore ID		stepped; ID 3,2 mm		81			
29		Process Connection		<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT		82			
30				<input type="checkbox"/> Weld Mounted		83			
31		Pressure Limit		PN 100		84			
32		Allow. flow speed		10 m/s in water, 30 m/s in gas		85			
33	Material		316 SST		86				
34	Drawing No.		792.82045 dated 01.04.2003		87				
35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.							
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 <b>AIR LIQUIDE</b>		<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE20013</b>	
Air Liquide AGS GmbH		Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101	
		Designation: <b>HP-GOX TO CUSTOMER</b>				Page:                      of:	
						Combination with Tag-No.:	

Rev.						Rev.				
1	Location	Line - No.	250 O-20006-ZB40C1			54	Sensor element	<input checked="" type="checkbox"/> Manufacturer	WIKA	
2		Equipment-No.				55		Type		
3		DN	250	PN	40	Material		SST	Design	with terminal socket
4		Flanges	DIN EN 1092-1		Gasket	Form B1		Cable length		
5		Taps			Material			Cable type		
6	Service conditions	Medium	GOX (oxygen)			59	Certificates	Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire	
7								60	Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
8		State	<input type="checkbox"/> liquid <input checked="" type="checkbox"/> gaseous <input type="checkbox"/> vaporous			61		Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic	
9		Operation case	case 1	case 2	case 3	62		Sheath OD	3 mm	
10		Flow	Nm³/h	11000	20000	25000		63	Sensor Length	"ML" 347 mm
11		P <sub>1</sub> (abs.)	bar	28	28	28		64	Material	316 SST
12		Temperature t <sub>1</sub>	°C	23,1	20	19,4		65	IEC 751	<input checked="" type="checkbox"/>
13		Ambient temp.	°C	-25...35 °C				66	Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B
14	Connection head	<input checked="" type="checkbox"/> Manufacturer	WIKA			67	Range	-200...+450 °C		
15		Type				68	Vibration proof	10 x g continual		
16		Form	DIN 43729-Form B			69	Junction	ungrounded		
17		Material	Aluminum			70	Drawing no.	792.82048 dated 01.04.2003		
18		Enclosure Class	IP65 / NEMA 4x			71				
19	Conduit Connection	M20x1,5			72					
20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"	72 mm			73				
21		Diameter da x s	11 x 2 mm			74				
22		Material	316 SST			75				
23							76			
24	Drawing No.	792.82046 dated 01.04.2003			77					
25	Thermowell	<input checked="" type="checkbox"/> Manufacturer	WIKA			78				
26		Type				79				
27		Immersion Length "EL"	250 mm			80				
28		Style; OD; Bore ID	stepped; ID 3,2 mm			81				
29		Process Connection	<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT			82				
30		<input type="checkbox"/> Weld Mounted				83				
31		Pressure Limit	PN 100			84				
32		Allow. flow speed	10 m/s in water, 30 m/s in gas			85				
33	Material	316 SST			86					
34	Drawing No.	792.82045 dated 01.04.2003			87					
35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.								
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 <b>AIR LIQUIDE</b>		<b>Specification</b> Resistance Thermometer Pt100			TAG - No.: <b>TE44104</b>	
Air Liquide AGS GmbH		Project: <b>ASU No. 9 KOSICE</b>			Project-No.: K70101	
		Designation: <b>OVERFLOW PIPE LP-LAR TANK B44101</b>			Page:                      of:	
					Combination with Tag-No.:	

Rev.			Rev.		
1	Location	Line - No.	54	<input checked="" type="checkbox"/>	Manufacturer
2		Equipment-No.	55		Type
3		DN	56		Design
4		Flanges	57		Cable length
5		Taps	58		Cable type
6	Service conditions	Medium	59		Wiring
7			60		<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire
8		State	61		Number of elements
9		Operation case	62		<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
10		Flow	63		Winding body
11		P <sub>1</sub> (abs.)	64		<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
12		Temperature t <sub>1</sub>	65		Sheath OD
13		Ambient temp.	66		3 mm
14	Connection head	Manufacturer	67		Sensor Length "ML"
15		Type	68		257 mm
16		Form	69		Material
17		Material	70		316 SST
18		Enclosure Class	71		IEC 751
19	Conduit Connection	72		<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B	
20	Extension	Extension Length "HL"	73		Range
21		Diameter da x s	74		-200...+450 °C
22		Material	75		Vibration proof
23			76		10 x g continual
24	Drawing No.	77		Junction	
25	Thermowell	Manufacturer	78		ungrounded
26		Type	79		Drawing no.
27		Immersion Length "EL"	80		792.82048 dated 01.04.2003
28		Style; OD; Bore ID	81		
29		Process Connection	82		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1
30			83		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)
31		Pressure Limit	84		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service
32		Allow. flow speed	85		<input checked="" type="checkbox"/> Packed acc. cert. 06271
33		Material	86		<input type="checkbox"/> Conformity certificate
34		Drawing No.	87		<input checked="" type="checkbox"/> Marking with TAG-number
35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.			
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<b>AIR LIQUIDE</b> <small>TM</small>				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE44204</b>	
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101	
				Designation: <b>OVERFLOW PIPE LP-LAR TANK B44201</b>				Page:                      of:	
								Combination with Tag-No.:	

Rev.							Rev.				
	1	Location	Line - No.				54	<input checked="" type="checkbox"/>	Manufacturer	WIKA	
	2		Equipment-No.		B44201		55		Type		
	3		DN	PN	Material		56		Design	with terminal socket	
	4		Flanges		Gasket		57		Cable length		
	5		Taps		Material		58		Cable type		
	6	Service conditions	Medium		LAR (argon)		59				
	7						60		Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire	
	8		State		<input checked="" type="checkbox"/> liquid <input type="checkbox"/> gaseous <input type="checkbox"/> vaporous		61		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100	
	9		Operation case		case 1	case 2	case 3	62		Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
	10		Flow	Nm³/h				63		Sheath OD	3 mm
	11		P <sub>1</sub> (abs.)	bar				64		Sensor Length "ML"	257 mm
	12		Temperature t <sub>1</sub>	°C				65		Material	316 SST
	13		Ambient temp.	°C	-25...35 °C			66		IEC 751	<input checked="" type="checkbox"/>
	14	Connection head	<input checked="" type="checkbox"/> Manufacturer		WIKA		67		Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B	
	15		Type				68		Range	-200...+450 °C	
	16		Form		DIN 43729-Form B		69		Vibration proof	10 x g continual	
	17		Material		Aluminum		70		Junction	ungrounded	
	18		Enclosure Class		IP65 / NEMA 4x		71		Drawing no.	792.82048 dated 01.04.2003	
	19		Conduit Connection		M20x1,5		72				
	20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"		72 mm		73		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1		
	21		Diameter da x s	11 x 2 mm			74		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)		
	22		Material	316 SST			75		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service		
	23						76		<input checked="" type="checkbox"/> Packed acc. cert. 06271		
	24		Drawing No.		792.82046 dated 01.04.2003		77		<input type="checkbox"/> Conformity certificate		
	25	Thermowell	<input checked="" type="checkbox"/> Manufacturer		WIKA		78		<input checked="" type="checkbox"/> Marking with TAG-number		
	26		Type				79				
	27		Immersion Length "EL"		160 mm		80				
	28		Style; OD; Bore ID		stepped; ID 3,2 mm		81				
	29		Process Connection		<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT		82				
	30				<input type="checkbox"/> Weld Mounted		83				
	31		Pressure Limit		PN 100		84				
	32		Allow. flow speed		10 m/s in water, 30 m/s in gas		85				
	33		Material		316 SST		86				
	34		Drawing No.		792.82045 dated 01.04.2003		87				
	35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.								
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Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked	Change

 <b>AIR LIQUIDE</b> <small>TM</small>				<h2 style="text-align: center;">Specification</h2> <h3 style="text-align: center;">Resistance Thermometer Pt100</h3>				TAG - No.: <b>TE48004</b> Project-No.: K70101 Page:                      of:			
<b>Air Liquide AGS GmbH</b>				Project: <b>ASU No. 9 KOSICE</b>				Designation: <b>OVERFLOW PIPE HP-LAR TANK B48001</b>			
Rev.						Rev.					
1	Location	Line - No.				54	Sensor element	<input checked="" type="checkbox"/> Manufacturer	WIKA		
2		Equipment-No.		B48001		55		Type			
3		DN		PN		56		Design	with terminal socket		
4		Flanges		Gasket		57		Cable length			
5		Taps		Material		58		Cable type			
6	Service conditions	Medium		LAR (argon)		59	Sensor element	Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire		
7		State		<input checked="" type="checkbox"/> liquid <input type="checkbox"/> gaseous <input type="checkbox"/> vaporous		60		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100		
8		Operation case		case 1	case 2	case 3		61	Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic	
9		Flow	Nm³/h					62	Sheath OD	3 mm	
10		P <sub>1</sub> (abs.)	bar					63	Sensor Length "ML"	257 mm	
11		Temperature t <sub>1</sub>	°C					64	Material	316 SST	
12		Ambient temp.	°C	-25...35 °C				65	IEC 751	<input checked="" type="checkbox"/>	
13	Connection head	<input checked="" type="checkbox"/> Manufacturer		WIKA		66	Sensor element	Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B		
14		Type				67		Range	-200...+450 °C		
15		Form		DIN 43729-Form B		68		Vibration proof	10 x g continual		
16		Material		Aluminum		69		Junction	ungrounded		
17		Enclosure Class		IP65 / NEMA 4x		70		Drawing no.	792.82048 dated 01.04.2003		
18	Extension	Conduit Connection		M20x1,5		71	Certificates				
19		<input checked="" type="checkbox"/> Extension Length "HL"		72 mm		72		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1			
20		Diameter	da x s	11 x 2 mm		73		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)			
21		Material		316 SST		74		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service			
22		Drawing No.		792.82046 dated 01.04.2003		75		<input checked="" type="checkbox"/> Packed acc. cert. 06271			
23	Thermowell	<input checked="" type="checkbox"/> Manufacturer		WIKA		76	Certificates	<input type="checkbox"/> Conformity certificate			
24		Type				77		<input checked="" type="checkbox"/> Marking with TAG-number			
25		Immersion Length "EL"		160 mm		78					
26		Style; OD; Bore ID		stepped; ID 3,2 mm		79					
27		Process Connection		<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT <input type="checkbox"/> Weld Mounted		80					
28		Pressure Limit		PN 100		81					
29		Allow. flow speed		10 m/s in water, 30 m/s in gas		82					
30	Material		316 SST		83						
31	Drawing No.		792.82045 dated 01.04.2003		84						
32					85						
33					86						
34					87						
35	Remarks	<p><b>Note:</b></p> <p>The thermowell body shall be machined from a solid bar.</p> <p>Welded parts are not acceptable.</p> <p>Sensor element shall be insensitive to vibrations.</p>									
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		<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE48050</b>	
						Project-No.: K70101	
<b>Air Liquide AGS GmbH</b>		Project: <b>ASU No. 9 KOSICE</b>				Page:                      of:	
		Designation: <b>DISCHARGE LAR PUMP P48001</b>				Combination with Tag-No.:	

Rev.		Line - No.	50 RL-48001-				Rev.		Manufacturer	WIKA
	1	Equipment-No.						54	<input checked="" type="checkbox"/> Manufacturer	
	2	DN	50	PN		Material		55	Type	
	3	Flanges	DIN EN 1092-1		Gasket	Form B1		56	Design	with terminal socket
	4	Taps			Material			57	Cable length	
	5							58	Cable type	
	6	Medium	LAR (argon)					59		
	7	State	<input checked="" type="checkbox"/> liquid <input type="checkbox"/> gaseous <input type="checkbox"/> vaporous					60	Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire
	8	Operation case	case 1	case 2	case 3			61	Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
	9	Flow	Nm³/h					62	Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
	10	P <sub>1</sub> (abs.)	bar	23				63	Sheath OD	3 mm
	11	Temperature t <sub>1</sub>	°C	-180				64	Sensor Length	"ML" 257 mm
	12	Ambient temp.	°C	-25...35°C				65	Material	316 SST
	13							66	IEC 751	<input checked="" type="checkbox"/>
	14	<input checked="" type="checkbox"/> Manufacturer	WIKA					67	Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B
	15	Type						68	Range	-200...+450 °C
	16	Form	DIN 43729-Form B					69	Vibration proof	10 x g continual
	17	Material	Aluminum					70	Junction	ungrounded
	18	Enclosure Class	IP65 / NEMA 4x					71	Drawing no.	792.82048 dated 01.04.2003
	19	Conduit Connection	M20x1,5					72		
	20	<input checked="" type="checkbox"/> Extension Length	"HL"	72 mm				73	<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1	
	21	Diameter	da x s	11 x 2 mm				74	<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)	
	22	Material	316 SST					75	<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service	
	23							76	<input checked="" type="checkbox"/> Packed acc. cert. 06271	
	24	Drawing No.	792.82046 dated 01.04.2003					77	<input type="checkbox"/> Conformity certificate	
	25	<input checked="" type="checkbox"/> Manufacturer	WIKA					78	<input checked="" type="checkbox"/> Marking with TAG-number	
	26	Type						79		
	27	Immersion Length	"EL"	160 mm				80		
	28	Style; OD; Bore ID	stepped; ID 3,2 mm					81		
	29	Process Connection	<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT <input type="checkbox"/> Weld Mounted					82		
	30							83		
	31	Pressure Limit	PN 100					84		
	32	Allow. flow speed	10 m/s in water, 30 m/s in gas					85		
	33	Material	316 SST					86		
	34	Drawing No.	792.82045 dated 01.04.2003					87		
	35	<div style="border: 1px solid black; padding: 10px;"> <b>Note:</b>  The thermowell body shall be machined from a solid bar.  Welded parts are not acceptable.  Sensor element shall be insensitive to vibrations. </div>								
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<b>AIR LIQUIDE</b> <small>TM</small>		<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE49020</b>	
		Project: <b>ASU No. 9 KOSICE</b> Designation: <b>TEMPERATURE TRAP HP-GAR</b>				Project-No.: K70101	
Air Liquide AGS GmbH							
						Combination with Tag-No.:	

Rev.				Rev.			
	1	Line - No.	50 R-48033-ZB40C1		54	<input checked="" type="checkbox"/> Manufacturer Emerson Rosemount (Heraeus)	
	2	Equipment-No.			55	Type W-GYK (P-RK)	
	3	DN	50	PN	40	Material	
	4	Flanges	DIN EN 1092-1		56	Design	
	5	Taps			57	Cable length 1100 mm	
	6	Medium	GAR (argon)		58	Cable type CKM-L3S 0,75 mm²	
	7	State	<input type="checkbox"/> liquid <input checked="" type="checkbox"/> gaseous <input type="checkbox"/> vaporous		59	Wiring <input type="checkbox"/> 2-wire <input checked="" type="checkbox"/> 3-wire <input type="checkbox"/> 4-wire	
	8	Operation case	case 1	case 2	case 3	60	Number of elements <input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
	9	Flow	Nm³/h	240	400	61	Winding body <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
	10	P <sub>1</sub> (abs.)	bar	21,05	21,05	62	Sheath OD 5,0 mm
	11	Temperature t <sub>1</sub>	°C	2	2	63	Sensor Length "ML" 100 mm
	12	Ambient temp.	°C	-25...35 °C		64	Material 316 SST
	13	Manufacturer			65	IEC 751 <input checked="" type="checkbox"/>	
	14	Type			66	Accuracy class <input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B	
	15	Form			67	Range -200...+20 °C	
	16	Material			68	Vibration proof	
	17	Enclosure Class			69	Junction	
	18	Conduit Connection			70	Drawing no. HERAEUS 31.039-112/2	
	19	Extension Length "HL"			71	Item Number 0.456.003	
	20	Diameter da x s			72	see figure:                      Item-Number	
	21	Material			73	<input checked="" type="checkbox"/> Sensor closure 792.79478	
	22	Drawing No.			74	<input checked="" type="checkbox"/> Sealing 794.19314	
	23	Manufacturer			75	<input type="checkbox"/> Welding nozzle DN 25 792.79688	
	24	Type			76	<input type="checkbox"/> " DN 50 770.30598	
	25	Immersion Length "EL"			77	<input checked="" type="checkbox"/> " DN 65 and exceed 770.30599	
	26	Style; OD; Bore ID			78		
	27	Process Connection	<input type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT		79	<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1	
	28	Pressure Limit			80	<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only welding nozzle)	
	29	Allow. flow speed			81	<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service	
	30	Material			82	<input checked="" type="checkbox"/> Packed acc. cert. 06271	
	31	Drawing No.			83	<input type="checkbox"/> Conformity certificate	
	32				84	<input checked="" type="checkbox"/> Marking with TAG-number	
	33				85		
	34				86		
	35				87		

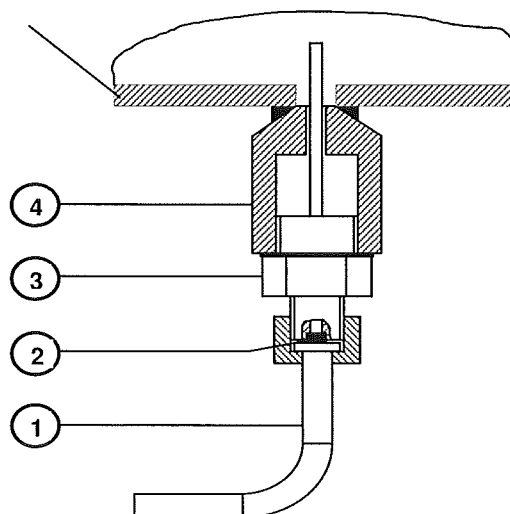
  

0	15.10.2004	Möller	Eichler	Initial Version			
Rev.	Date	Name	Checked	Change	Rev.	Date	Change

pipe / vessel

materials:

1. RTD-thermometer
  - sleeve nut                      brass
  - ball lining                      brass
  - sheath                            1.4571 (316 Ti)
2. sealing                            PTFE
3. sensor closure                      brass
4. welding nozzle                      1.4571 (316 Ti)



		<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE49021</b>	
		<b>ASU No. 9 KOSICE</b>				Project-No.: K70101	
Air Liquide AGS GmbH						Project:	
		Designation: <b>TEMPERATURE TRAP HP-GAR</b>				Combination with Tag-No.:	

Rev.									
	1	Line - No.	50 R-48033-ZB40C1			Rev.	54	<input checked="" type="checkbox"/> Manufacturer	Emerson Rosemount (Heraeus)
	2	Equipment-No.					55	Type	W-GYK (P-RK)
	3	DN	50	PN	40	Material	VA	Design	
	4	Flanges	DIN EN 1092-1		Gasket	Form B1		Cable length	1100 mm
	5	Taps			Material			Cable type	CKM-L3S 0,75 mm²
	6	Medium	GAR (argon)				59	Wiring	<input type="checkbox"/> 2-wire <input checked="" type="checkbox"/> 3-wire <input type="checkbox"/> 4-wire
	7	State	<input type="checkbox"/> liquid <input checked="" type="checkbox"/> gaseous <input type="checkbox"/> vaporous				60	Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
	8	Operation case	case 1	case 2	case 3		61	Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
	9	Flow	Nm³/h	240	400		62	Sheath OD	5,0 mm
	10	P <sub>1</sub> (abs.)	bar	21,05	21,05		63	Sensor Length	"ML" 100 mm
	11	Temperature t <sub>1</sub>	°C	2	2		64	Material	316 SST
	12	Ambient temp.	°C	-25...35 °C			65	IEC 751	<input checked="" type="checkbox"/>
	13	Manufacturer					66	Accuracy class	<input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B
	14	Type					67	Range	-200...+20 °C
	15	Form					68	Vibration proof	
	16	Material					69	Junction	
	17	Enclosure Class					70	Drawing no.	HERAEUS 31.039-112/2
	18	Conduit Connection					71	Item Number	0.456.003
	19	Extension Length "HL"					72	see figure:	Item-Number
	20	Diameter da x s					73	<input checked="" type="checkbox"/> Sensor closure	792.79478
	21	Material					74	<input checked="" type="checkbox"/> Sealing	794.19314
	22	Drawing No.					75	<input type="checkbox"/> Welding nozzle DN 25	792.79688
	23	Manufacturer					76	<input type="checkbox"/> " DN 50	770.30598
	24	Type					77	<input checked="" type="checkbox"/> " DN 65 and exceed	770.30599
	25	Immersion Length "EL"					78	<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1	
	26	Style; OD; Bore ID					79	<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only welding nozzle)	
	27	Process Connection	<input type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT				80	<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service	
	28	Pressure Limit	<input type="checkbox"/> Weld Mounted				81	<input checked="" type="checkbox"/> Packed acc. cert. 06271	
	29	Allow. flow speed					82	<input type="checkbox"/> Conformity certificate	
	30	Material					83	<input checked="" type="checkbox"/> Marking with TAG-number	
	31	Drawing No.					84		
	32						85		
	33						86		
	34						87		

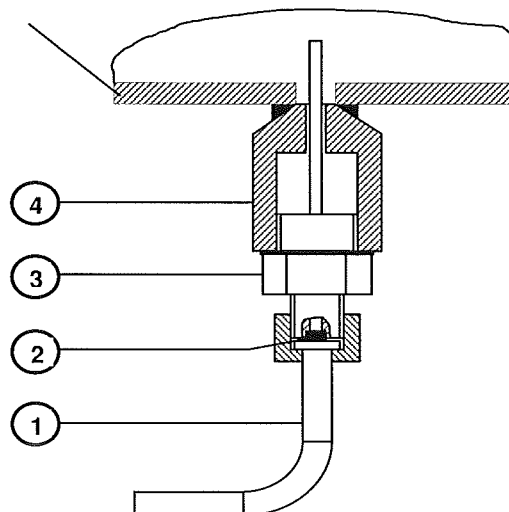
  

Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked	Change
0	15.10.2004	Möller	Eichler	Initial Version					

pipe / vessel

materials:

1. RTD-thermometer
  - sleeve nut                      brass
  - ball lining                      brass
  - sheath                            1.4571 (316 Ti)
2. sealing                            PTFE
3. sensor closure                      brass
4. welding nozzle                      1.4571 (316 Ti)





<b>AIR LIQUIDE</b> <small>TM</small>				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE62022</b>	
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101	
				Designation: <b>OVERFLOW PIPE LOX TANK B62001</b>				Page:                      of:	
								Combination with Tag-No.:	

Rev.							Rev.			
	1	Location	Line - No.				54	<input checked="" type="checkbox"/>	Manufacturer	WIKA
	2		Equipment-No.	B62001			55		Type	
	3		DN	PN	Material		56		Design	with terminal socket
	4		Flanges		Gasket		57		Cable length	
	5		Taps		Material		58		Cable type	
	6	Service conditions	Medium	LOX (oxygen)			59			
	7					60				
	8		State	<input checked="" type="checkbox"/> liquid	<input type="checkbox"/> gaseous	<input type="checkbox"/> vaporous	61		Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire
	9		Operation case	case 1	case 2	case 3	62		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
	10		Flow	Nm³/h			63		Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
	11		P <sub>1</sub> (abs.)	bar			64		Sheath OD	3 mm
	12		Temperature t <sub>1</sub>	°C			65		Sensor Length "ML"	257 mm
	13		Ambient temp.	°C	-25...35 °C		66		Material	316 SST
	14	Connection head	<input checked="" type="checkbox"/> Manufacturer	WIKA			67		IEC 751	<input checked="" type="checkbox"/>
	15		Type				68		Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B
	16		Form	DIN 43729-Form B			69		Range	-200...+450 °C
	17		Material	Aluminum			70		Vibration proof	10 x g continual
	18		Enclosure Class	IP65 / NEMA 4x			71		Junction	ungrounded
	19	Conduit Connection	M20x1,5			72		Drawing no.	792.82048 dated 01.04.2003	
	20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"	72 mm			73			
	21		Diameter da x s	11 x 2 mm			74		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1	
	22		Material	316 SST			75		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)	
	23						76		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service	
	24		Drawing No.	792.82046 dated 01.04.2003			77		<input checked="" type="checkbox"/> Packed acc. cert. 06271	
	25	Thermowell	<input checked="" type="checkbox"/> Manufacturer	WIKA			78		<input type="checkbox"/> Conformity certificate	
	26		Type				79		<input checked="" type="checkbox"/> Marking with TAG-number	
	27		Immersion Length "EL"	160 mm			80			
	28		Style; OD; Bore ID	stepped; ID 3,2 mm			81			
	29		Process Connection	<input checked="" type="checkbox"/> G 1/2"	<input type="checkbox"/> 3/4 NPT	<input type="checkbox"/> 1 NPT	82			
	30			<input type="checkbox"/> Weld Mounted			83			
	31		Pressure Limit	PN 100			84			
	32		Allow. flow speed	10 m/s in water, 30 m/s in gas			85			
	33	Material	316 SST			86				
	34	Drawing No.	792.82045 dated 01.04.2003			87				
	35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.							
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Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked
								Change

<b>AIR LIQUIDE</b> <small>TM</small>				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE64031</b>	
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101	
				Designation: <b>WATER BATH VAPORIZER LOX</b>				Page:                      of:	
								Combination with Tag-No.:	

Rev.							Rev.			
	1	Location	Line - No.				54	<input checked="" type="checkbox"/>	Manufacturer	WIKA
	2		Equipment-No.	W64001			55		Type	
	3		DN	PN	Material		56		Design	with terminal socket
	4		Flanges		Gasket		57		Cable length	
	5		Taps		Material		58		Cable type	
	6	Service conditions	Medium	WATER			59			
	7						60			
	8		State	<input checked="" type="checkbox"/> liquid <input type="checkbox"/> gaseous <input type="checkbox"/> vaporous			61	Sensor element	Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire
	9		Operation case	case 1	case 2	case 3	62		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
	10		Flow	Nm³/h			63		Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
	11		P <sub>1</sub> (abs.)	bar			64		Sheath OD	3 mm
	12		Temperature t <sub>1</sub>	°C			65		Sensor Length "ML"	257 mm
	13		Ambient temp.	°C	-25...35 °C		66		Material	316 SST
	14	<input checked="" type="checkbox"/> Manufacturer	WIKA			67	IEC 751		<input checked="" type="checkbox"/>	
	15	Type				68	Accuracy class		<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B	
	16	Connection head	Form	DIN 43729-Form B			69	Range	-200...+450 °C	
	17		Material	Aluminum			70	Vibration proof	10 x g continual	
	18		Enclosure Class	IP65 / NEMA 4x			71	Junction	ungrounded	
	19		Conduit Connection	M20x1,5			72	Drawing no.	792.82048 dated 01.04.2003	
	20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"	72 mm			73	Certificates	<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1	
	21		Diameter da x s	11 x 2 mm			74		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)	
	22		Material	316 SST			75		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service	
	23						76		<input checked="" type="checkbox"/> Packed acc. cert. 06271	
	24	Drawing No.	792.82046 dated 01.04.2003			77	<input type="checkbox"/> Conformity certificate			
	25	Thermowell	<input checked="" type="checkbox"/> Manufacturer	WIKA			78		<input checked="" type="checkbox"/> Marking with TAG-number	
	26		Type				79			
	27		Immersion Length "EL"	160 mm			80			
	28		Style; OD; Bore ID	stepped; ID 3,2 mm			81			
	29		Process Connection	<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT <input type="checkbox"/> Weld Mounted			82			
	30						83			
	31		Pressure Limit	PN 100			84			
	32		Allow. flow speed	10 m/s in water, 30 m/s in gas			85			
	33	Material	316 SST			86				
	34	Drawing No.	792.82045 dated 01.04.2003			87				
	35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.							
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Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked      Change


<b>AIR LIQUIDE</b> <small>TM</small>				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE64032</b>			
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101			
				Designation: <b>WATER BATH VAPORIZER LOX</b>				Page:                      of:			
								Combination with Tag-No.:			

Rev.							Rev.				
	1	Location	Line - No.					54	<input checked="" type="checkbox"/>	Manufacturer	WIKA
	2		Equipment-No.	W64001				55		Type	
	3		DN	PN		Material		56		Design	with terminal socket
	4		Flanges			Gasket		57		Cable length	
	5		Taps			Material		58		Cable type	
	6	Service conditions	Medium	WATER				59			
	7							60		Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire
	8		State	<input checked="" type="checkbox"/> liquid <input type="checkbox"/> gaseous <input type="checkbox"/> vaporous				61		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
	9		Operation case	case 1	case 2	case 3		62		Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
	10		Flow	Nm³/h				63		Sheath OD	3 mm
	11		P <sub>1</sub> (abs.)	bar				64		Sensor Length	"ML" 257 mm
	12		Temperature t <sub>1</sub>	°C				65		Material	316 SST
	13		Ambient temp.	°C	-25...35°C				66		IEC 751
	14	Connection head	<input checked="" type="checkbox"/> Manufacturer	WIKA				67		Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B
	15		Type					68		Range	-200...+450 °C
	16		Form	DIN 43729-Form B				69		Vibration proof	10 x g continual
	17		Material	Aluminum				70		Junction	ungrounded
	18		Enclosure Class	IP65 / NEMA 4x				71		Drawing no.	792.82048 dated 01.04.2003
	19		Conduit Connection	M20x1,5				72			
	20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"	72 mm				73		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1	
	21		Diameter da x s	11 x 2 mm				74		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)	
	22		Material	316 SST				75		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service	
	23							76		<input checked="" type="checkbox"/> Packed acc. cert. 06271	
	24		Drawing No.	792.82046 dated 01.04.2003				77		<input type="checkbox"/> Conformity certificate	
	25	Thermowell	<input checked="" type="checkbox"/> Manufacturer	WIKA				78		<input checked="" type="checkbox"/> Marking with TAG-number	
	26		Type					79			
	27		Immersion Length "EL"	160 mm				80			
	28		Style; OD; Bore ID	stepped; ID 3,2 mm				81			
	29		Process Connection	<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT				82			
	30			<input type="checkbox"/> Weld Mounted				83			
	31		Pressure Limit	PN 100				84			
	32		Allow. flow speed	10 m/s in water, 30 m/s in gas				85			
	33		Material	316 SST				86			
	34		Drawing No.	792.82045 dated 01.04.2003				87			
	35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.								
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Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked	Change

				<h2 style="text-align: center;">Specification</h2> <h3 style="text-align: center;">Resistance Thermometer Pt100</h3>				TAG - No.: <b>TE70041</b>			
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101			
				Designation: <b>MP-GAN TO CUSTOMER</b>				Page:                      of:			
								Combination with Tag-No.:			

Rev.								Rev.					
1	Location	Line - No.		350 N-75005-AA25C1				54	Sensor element	<input checked="" type="checkbox"/>	Manufacturer	WIKA	
2		Equipment-No.						55		Type			
3		DN	350	PN	25	Material	St37	56		Design	with terminal socket		
4		Flanges		DIN EN 1092-1		Gasket	Form B1	57		Cable length			
5		Taps				Material		58		Cable type			
6	Service conditions	Medium		GAN				59	Sensor element	Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire		
7								60		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100		
8		State	<input type="checkbox"/> liquid <input checked="" type="checkbox"/> gaseous <input type="checkbox"/> vaporous							61	Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic	
9		Operation case		case 1	case 2	case 3		62		Sheath OD	3 mm		
10		Flow	Nm³/h	16000	20000	29500		63		Sensor Length	"ML"	347 mm	
11		P <sub>1</sub> (abs.)	bar	7	7	7,3		64		Material	316 SST		
12		Temperature t <sub>1</sub>	°C	15	15	26		65		IEC 751	<input checked="" type="checkbox"/>		
13		Ambient temp.	°C	-25...35 °C				66		Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B		
14	Connection head	<input checked="" type="checkbox"/> Manufacturer		WIKA				67	Range	-200...+450 °C			
15		Type						68	Vibration proof	10 x g continual			
16		Form		DIN 43729-Form B				69	Junction	ungrounded			
17		Material		Aluminum				70	Drawing no.	792.82048 dated 01.04.2003			
18		Enclosure Class		IP65 / NEMA 4x				71					
19	Extension	Conduit Connection		M20x1,5				72	Certificates				
20		<input checked="" type="checkbox"/> Extension Length "HL"		72 mm				73		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1			
21		Diameter	da x s	11 x 2 mm				74		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)			
22		Material		316 SST				75		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service			
23								76		<input checked="" type="checkbox"/> Packed acc. cert. 06271			
24	Thermowell	Drawing No.		792.82046 dated 01.04.2003				77	Certificates	<input type="checkbox"/> Conformity certificate			
25		<input checked="" type="checkbox"/> Manufacturer		WIKA				78		<input checked="" type="checkbox"/> Marking with TAG-number			
26		Type						79					
27		Immersion Length "EL"		250 mm				80					
28		Style; OD; Bore ID		stepped; ID 3,2 mm				81					
29	Thermowell	Process Connection		<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT <input type="checkbox"/> Weld Mounted				82					
30								83					
31		Pressure Limit		PN 100				84					
32		Allow. flow speed		10 m/s in water, 30 m/s in gas				85					
33		Material		316 SST				86					
34	Remarks	Drawing No.		792.82045 dated 01.04.2003				87					
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Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked	Change

<b>AIR LIQUIDE</b> <small>TM</small>				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE72022</b>	
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101	
				Designation: <b>OVERFLOW PIPE LIN TANK B72001</b>				Page:                      of:	
								Combination with Tag-No.:	

Rev.				Rev.				
1	Location	Line - No.		54	Sensor element	<input checked="" type="checkbox"/> Manufacturer	WIKA	
2		Equipment-No.	B72001	55		Type		
3		DN	PN	Material		56	Design	with terminal socket
4		Flanges		Gasket		57	Cable length	
5		Taps		Material		58	Cable type	
6	Service conditions	Medium	LIN (nitrogen)	59	Certificates	Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire	
7		State	<input checked="" type="checkbox"/> liquid <input type="checkbox"/> gaseous <input type="checkbox"/> vaporous	60		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100	
8		Operation case	case 1    case 2    case 3	61		Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic	
9		Flow	Nm³/h	62		Sheath OD	3 mm	
10		P <sub>1</sub> (abs.)	bar	63		Sensor Length "ML"	257 mm	
11		Temperature t <sub>1</sub>	°C	64		Material	316 SST	
12		Ambient temp.	°C	65		IEC 751	<input checked="" type="checkbox"/>	
13				66		Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B	
14	Connection head	<input checked="" type="checkbox"/> Manufacturer	WIKA	67	Range	-200...+450 °C		
15		Type		68	Vibration proof	10 x g continual		
16		Form	DIN 43729-Form B	69	Junction	ungrounded		
17		Material	Aluminum	70	Drawing no.	792.82048 dated 01.04.2003		
18		Enclosure Class	IP65 / NEMA 4x	71				
19		Conduit Connection	M20x1,5	72				
20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"	72 mm	73	Certificates	<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1		
21		Diameter da x s	11 x 2 mm	74		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)		
22		Material	316 SST	75		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service		
23				76		<input checked="" type="checkbox"/> Packed acc. cert. 06271		
24	Drawing No.	792.82046 dated 01.04.2003	77	<input type="checkbox"/> Conformity certificate				
25	Thermowell	<input checked="" type="checkbox"/> Manufacturer	WIKA	78		<input checked="" type="checkbox"/> Marking with TAG-number		
26		Type		79				
27		Immersion Length "EL"	160 mm	80				
28		Style; OD; Bore ID	stepped; ID 3,2 mm	81				
29		Process Connection	<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT <input type="checkbox"/> Weld Mounted	82				
30			83					
31	Pressure Limit	PN 100	84					
32	Allow. flow speed	10 m/s in water, 30 m/s in gas	85					
33	Material	316 SST	86					
34	Drawing No.	792.82045 dated 01.04.2003	87					
35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.						
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Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked
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<b>AIR LIQUIDE</b> <small>TM</small>				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE73005</b>			
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101			
				Designation: <b>OVERFLOW PIPE MP-LIN TANK B73001</b>				Page:                      of:			
								Combination with Tag-No.:			

Rev.							Rev.			
	1	Location	Line - No.				54	<input checked="" type="checkbox"/>	Manufacturer	WIKA
	2		Equipment-No.	B73001			55		Type	
	3		DN	PN	Material		56		Design	with terminal socket
	4		Flanges		Gasket		57		Cable length	
	5		Taps		Material		58		Cable type	
	6	Service conditions	Medium	LIN (nitrogen)			59		Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire
	7						60		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
	8		State	<input checked="" type="checkbox"/> liquid <input type="checkbox"/> gaseous <input type="checkbox"/> vaporous			61		Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
	9		Operation case	case 1	case 2	case 3	62		Sheath OD	3 mm
	10		Flow	Nm³/h			63		Sensor Length	"ML"      257 mm
	11		P <sub>1</sub> (abs.)	bar			64		Material	316 SST
	12		Temperature t <sub>1</sub>	°C			65		IEC 751	<input checked="" type="checkbox"/>
	13		Ambient temp.	°C	-25...35°C		66		Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B
	14	Connection head	<input checked="" type="checkbox"/> Manufacturer	WIKA			67		Range	-200...+450 °C
	15		Type				68		Vibration proof	10 x g continual
	16		Form	DIN 43729-Form B			69		Junction	ungrounded
	17		Material	Aluminum			70		Drawing no.	792.82048 dated 01.04.2003
	18		Enclosure Class	IP65 / NEMA 4x			71			
	19	Conduit Connection	M20x1,5			72				
	20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"	72 mm			73		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1	
	21		Diameter da x s	11 x 2 mm			74		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)	
	22		Material	316 SST			75		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service	
	23						76		<input checked="" type="checkbox"/> Packed acc. cert. 06271	
	24		Drawing No.	792.82046 dated 01.04.2003			77		<input type="checkbox"/> Conformity certificate	
	25	Thermowell	<input checked="" type="checkbox"/> Manufacturer	WIKA			78		<input checked="" type="checkbox"/> Marking with TAG-number	
	26		Type				79			
	27		Immersion Length "EL"	160 mm			80			
	28		Style; OD; Bore ID	stepped; ID 3,2 mm			81			
	29		Process Connection	<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT			82			
	30			<input type="checkbox"/> Weld Mounted			83			
	31		Pressure Limit	PN 100			84			
	32		Allow. flow speed	10 m/s in water, 30 m/s in gas			85			
	33	Material	316 SST			86				
	34	Drawing No.	792.82045 dated 01.04.2003			87				
	35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.							
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Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked	Change	


<b>AIR LIQUIDE</b> <small>TM</small>				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE73031</b>	
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101	
				Designation: <b>WATER BATH VAPORIZER LIN</b>				Page:                      of:	
								Combination with Tag-No.:	

Rev.			Rev.		
1	Location	Line - No.	54	<input checked="" type="checkbox"/>	Manufacturer
2		Equipment-No.	55		Type
3		DN      PN      Material	56		Design
4		Flanges	57		Cable length
5		Taps	58		Cable type
6	Service conditions	Medium	59		Wiring
7			60		
8		State	61		Number of elements
9		Operation case	62		Winding body
10		Flow	63		Sheath OD
11		P <sub>1</sub> (abs.)	64		Sensor Length
12		Temperature t <sub>1</sub>	65		Material
13		Ambient temp.	66		IEC 751
14	Connection head	<input checked="" type="checkbox"/> Manufacturer	67		Accuracy class
15		Type	68		Range
16		Form	69		Vibration proof
17		Material	70		Junction
18		Enclosure Class	71		Drawing no.
19		Conduit Connection	72		
20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"	73		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1
21		Diameter da x s	74		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)
22		Material	75		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service
23			76		<input checked="" type="checkbox"/> Packed acc. cert. 06271
24		Drawing No.	77		<input type="checkbox"/> Conformity certificate
25	Thermowell	<input checked="" type="checkbox"/> Manufacturer	78		<input checked="" type="checkbox"/> Marking with TAG-number
26		Type	79		
27		Immersion Length "EL"	80		
28		Style; OD; Bore ID	81		
29		Process Connection	82		
30			83		
31		Pressure Limit	84		
32		Allow. flow speed	85		
33		Material	86		
34			Drawing No.	87	
35	Remarks	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.			
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Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked
								Change

 <b>AIR LIQUIDE</b>				<h2 style="text-align: center;">Specification</h2> <p style="text-align: center;">Resistance Thermometer Pt100</p>				TAG - No.: <b>TE73032</b> Project-No.: K70101 Page:                      of:							
<b>Air Liquide AGS GmbH</b>				Project: <b>ASU No. 9 KOSICE</b>				Designation: <b>WATER BATH VAPORIZER LIN</b>							
Rev.								Rev.							
1	Location	Line - No.								54	Sensor element	<input checked="" type="checkbox"/> Manufacturer		WIKA	
2		Equipment-No.		W73001						55		Type			
3		DN		PN		Material			56	Design		with terminal socket			
4		Flanges				Gasket			57	Cable length					
5		Taps				Material			58	Cable type					
6	Service conditions	Medium		WATER						59	Wiring		<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire		
7		State		<input checked="" type="checkbox"/> liquid <input type="checkbox"/> gaseous <input type="checkbox"/> vaporous						60	Number of elements		<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100		
8		Operation case		case 1		case 2		case 3		61	Winding body		<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic		
9		Flow	Nm³/h							62	Sheath OD		3 mm		
10		P <sub>1</sub> (abs.)	bar							63	Sensor Length "ML"		257 mm		
11		Temperature t <sub>1</sub>	°C							64	Material		316 SST		
12		Ambient temp.	°C							65	IEC 751		<input checked="" type="checkbox"/>		
13										66	Accuracy class		<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B		
14	Connection head	<input checked="" type="checkbox"/> Manufacturer		WIKA						67	Range		-200...+450 °C		
15		Type								68	Vibration proof		10 x g continual		
16		Form		DIN 43729-Form B						69	Junction		ungrounded		
17		Material		Aluminum						70	Drawing no.		792.82048 dated 01.04.2003		
18		Enclosure Class		IP65 / NEMA 4x						71					
19	Conduit Connection		M20x1,5						72						
20	Extension	<input checked="" type="checkbox"/> Extension Length "HL"				72 mm				73	<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1				
21		Diameter da x s				11 x 2 mm				74	<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)				
22		Material		316 SST						75	<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service				
23										76	<input checked="" type="checkbox"/> Packed acc. cert. 06271				
24	Drawing No.		792.82046 dated 01.04.2003						77	<input type="checkbox"/> Conformity certificate					
25	Thermowell	<input checked="" type="checkbox"/> Manufacturer		WIKA						78	<input checked="" type="checkbox"/> Marking with TAG-number				
26		Type								79					
27		Immersion Length "EL"		160 mm						80					
28		Style; OD; Bore ID		stepped; ID 3,2 mm						81					
29		Process Connection		<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT <input type="checkbox"/> Weld Mounted						82					
30										83					
31		Pressure Limit		PN 100						84					
32		Allow. flow speed		10 m/s in water, 30 m/s in gas						85					
33	Material		316 SST						86						
34	Drawing No.		792.82045 dated 01.04.2003						87						
35	Remarks	<p><b>Note:</b></p> <p>The thermowell body shall be machined from a solid bar.</p> <p>Welded parts are not acceptable.</p> <p>Sensor element shall be insensitive to vibrations.</p>													
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<b>AIR LIQUIDE</b> <small>TM</small>				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE74090</b>			
Air Liquide AGS GmbH				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101			
				Designation: <b>TEMPERATURE TRAP HP-GAN</b>				Page:                      of:			
								Combination with Tag-No.:			

Rev.							Rev.			
		Line - No.	100 NL-74090-ZB40C1						<input checked="" type="checkbox"/> Manufacturer	Emerson Rosemount (Heraeus)
		Equipment-No.							Type	W-GYK (P-RK)
		DN	100	PN	40	Material	VA		Design	
		Flanges	DIN EN 1092-1		Gasket	Form B1			Cable length	1100 mm
		Taps			Material				Cable type	CKM-L3S 0,75 mm²
		Medium	GAN (nitrogen)						Wiring	<input type="checkbox"/> 2-wire <input checked="" type="checkbox"/> 3-wire <input type="checkbox"/> 4-wire
		State	<input type="checkbox"/> liquid <input checked="" type="checkbox"/> gaseous <input type="checkbox"/> vaporous						Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100
		Operation case	case 1	case 2	case 3				Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic
		Flow	Nm³/h	3500					Sheath OD	5,0 mm
		P <sub>1</sub> (abs.)	bar	21,1					Sensor Length	"ML" 100 mm
		Temperature t <sub>1</sub>	°C	2					Material	316 SST
		Ambient temp.	°C	-25...35 °C					IEC 751	<input checked="" type="checkbox"/>
		Manufacturer							Accuracy class	<input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B
		Type							Range	-200...+20 °C
		Form							Vibration proof	
		Material							Junction	
		Enclosure Class							Drawing no.	HERAEUS 31.039-112/2
		Conduit Connection							Item Number	0.456.003
		Extension Length	"HL"						see figure:	Item-Number
		Diameter	da x s						<input checked="" type="checkbox"/> Sensor closure	792.79478
		Material							<input checked="" type="checkbox"/> Sealing	794.19314
									<input type="checkbox"/> Welding nozzle	DN 25 792.79688
		Drawing No.							<input type="checkbox"/> " "	DN 50 770.30598
		Manufacturer							<input checked="" type="checkbox"/> " "	DN 65 and exceed 770.30599
		Type								
		Immersion Length	"EL"						<input type="checkbox"/> Quality check certificate	DIN 55350-18-4.2.1
		Style; OD; Bore ID							<input checked="" type="checkbox"/> Material certificate	EN 10204 -3.1B (only welding nozzle)
		Process Connection	<input type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT						<input checked="" type="checkbox"/> Cleaned, oil and grease free	for oxygen service
			<input type="checkbox"/> Weld Mounted						<input checked="" type="checkbox"/> Packed acc. cert.	06271
		Pressure Limit							<input type="checkbox"/> Conformity certificate	
		Allow. flow speed							<input checked="" type="checkbox"/> Marking-with TAG-number	
		Material								
		Drawing No.								

Rev.	0	15.10.2004	Möller	Eichler	Initial Version	Rev.		Date	Name	Checked	Change
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pipe / vessel

materials:

1. RTD-thermometer	
-sleeve nut	brass
-ball lining	brass
-sheath	1.4571 (316 Ti)
2. sealing	PTFE
3. sensor closure	brass
4. welding nozzle	1.4571 (316 Ti)

		<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE74095</b>	
						Project-No.: K70101	
Air Liquide AGS GmbH		Project: <b>ASU No. 9 KOSICE</b>				Page:                      of:	
		Designation: <b>TEMPERATURE TRAP HP-GAN</b>				Combination with Tag-No.:	

Rev.								Rev.				
	1	Line - No.	100 NL-74090-ZB40C1					54	<input checked="" type="checkbox"/>	Manufacturer	Emerson Rosemount (Heraeus)	
	2	Equipment-No.						55		Type	W-GYK (P-RK)	
	3	DN	100	PN	40	Material	VA		56		Design	
	4	Flanges	DIN EN 1092-1		Gasket	Form B1			57		Cable length	1100 mm
	5	Taps			Material				58		Cable type	CKM-L3S 0,75 mm²
	6	Medium	GAN (nitrogen)					59		Wiring	<input type="checkbox"/> 2-wire <input checked="" type="checkbox"/> 3-wire <input type="checkbox"/> 4-wire	
	7	State	<input type="checkbox"/> liquid <input checked="" type="checkbox"/> gaseous <input type="checkbox"/> vaporous					60		Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100	
	8	Operation case	case 1	case 2	case 3			61		Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic	
	9	Flow	Nm³/h	3500				62		Sheath OD	5,0 mm	
	10	P <sub>1</sub> (abs.)	bar	21,1				63		Sensor Length	"ML" 100 mm	
	11	Temperature t <sub>1</sub>	°C	2				64		Material	316 SST	
	12	Ambient temp.	°C	-25...35°C				65		IEC 751	<input checked="" type="checkbox"/>	
	13	Manufacturer						66		Accuracy class	<input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B	
	14	Type						67		Range	-200...+20 °C	
	15	Form						68		Vibration proof		
	16	Material						69		Junction		
	17	Enclosure Class						70		Drawing no.	HERAEUS 31.039-112/2	
	18	Conduit Connection						71		Item Number	0.456.003	
	19	Extension Length "HL"						72		see figure:	Item-Number	
	20	Diameter	da x s					73		<input checked="" type="checkbox"/> Sensor closure	792.79478	
	21	Material						74		<input checked="" type="checkbox"/> Sealing	794.19314	
	22	Drawing No.						75		<input type="checkbox"/> Welding nozzle	DN 25 792.79688	
	23	Manufacturer						76		<input type="checkbox"/> " "	DN 50 770.30598	
	24	Type						77		<input checked="" type="checkbox"/> " "	DN 65 and exceed 770.30599	
	25	Immersion Length "EL"						78		<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1		
	26	Style; OD; Bore ID						79		<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only welding nozzle)		
	27	Process Connection	<input type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT					80		<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service		
	28	Pressure Limit						81		<input checked="" type="checkbox"/> Packed acc. cert. 06271		
	29	Allow. flow speed						82		<input type="checkbox"/> Conformity certificate		
	30	Material						83		<input checked="" type="checkbox"/> Marking with TAG-number		
	31	Drawing No.						84				
	32							85				
	33							86				
	34							87				

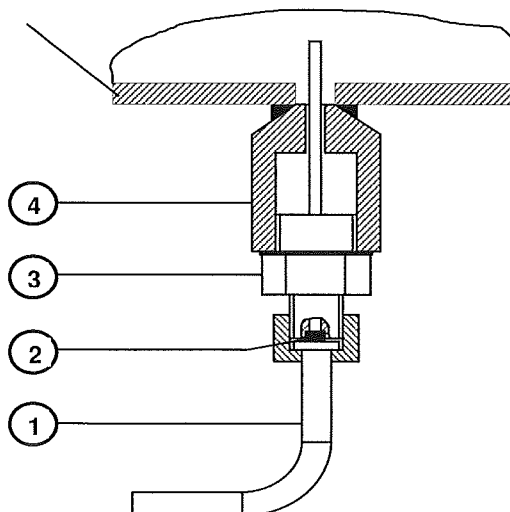
  

Rev.	Date	Name	Checked	Change	Rev.	Date	Name	Checked	Change
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pipe / vessel

materials:

1. RTD-thermometer
  - sleeve nut                      brass
  - ball lining                      brass
  - sheath                              1.4571 (316 Ti)
2. sealing                              PTFE
3. sensor closure                      brass
4. welding nozzle                      1.4571 (316 Ti)



				<b>Specification</b> Resistance Thermometer Pt100				TAG - No.: <b>TE84010</b>			
				Project: <b>ASU No. 9 KOSICE</b>				Project-No.: K70101			
Air Liquide AGS GmbH								Designation: <b>STEAM FROM CUSTOMER</b>			
								Combination with Tag-No.:			

Rev.		Line - No.	200 S-84001-BA25C1				Rev.		Manufacturer	WIKA	
	1	Equipment-No.						54	<input checked="" type="checkbox"/> Manufacturer		
	2	DN	200	PN	25	Material	St35.8		55	Type	
	3	Flanges	DIN EN 1092-1		Gasket	Form B1			56	Design	with terminal socket
	4	Taps			Material				57	Cable length	
	5								58	Cable type	
	6	Medium	STEAM					59			
	7	State	<input type="checkbox"/> liquid <input type="checkbox"/> gaseous <input checked="" type="checkbox"/> vaporous					60	Wiring	<input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input checked="" type="checkbox"/> 4-wire	
	8	Operation case	case 1	case 2	case 3			61	Number of elements	<input checked="" type="checkbox"/> 1xPt100 <input type="checkbox"/> 2xPt100	
	9	Flow	Nm³/h					62	Winding body	<input type="checkbox"/> Glass <input checked="" type="checkbox"/> Ceramic	
	10	P <sub>1</sub> (abs.)	bar	11				63	Sheath OD	3 mm	
	11	Temperature t <sub>1</sub>	°C	270				64	Sensor Length	"ML"	347 mm
	12	Ambient temp.	°C	-25...35 °C				65	Material	316 SST	
	13							66	IEC 751	<input checked="" type="checkbox"/>	
	14	<input checked="" type="checkbox"/> Manufacturer	WIKA					67	Accuracy class	<input checked="" type="checkbox"/> Class A <input type="checkbox"/> Class B	
	15	Type						68	Range	-200...+450 °C	
	16	Form	DIN 43729-Form B					69	Vibration proof	10 x g continual	
	17	Material	Aluminum					70	Junction	ungrounded	
	18	Enclosure Class	IP65 / NEMA 4x					71	Drawing no.	792.82048 dated 01.04.2003	
	19	Conduit Connection	M20x1,5					72			
	20	<input checked="" type="checkbox"/> Extension Length "HL"	72 mm					73	<input type="checkbox"/> Quality check certificate DIN 55350-18-4.2.1		
	21	Diameter da x s	11 x 2 mm					74	<input checked="" type="checkbox"/> Material certificate EN 10204 -3.1B (only thermowell)		
	22	Material	316 SST					75	<input checked="" type="checkbox"/> Cleaned, oil and grease free for oxygen service		
	23							76	<input checked="" type="checkbox"/> Packed acc. cert. 06271		
	24	Drawing No.	792.82046 dated 01.04.2003					77	<input type="checkbox"/> Conformity certificate		
	25	<input checked="" type="checkbox"/> Manufacturer	WIKA					78	<input checked="" type="checkbox"/> Marking with TAG-number		
	26	Type						79			
	27	Immersion Length "EL"	250 mm					80			
	28	Style; OD; Bore ID	stepped; ID 3,2 mm					81			
	29	Process Connection	<input checked="" type="checkbox"/> G 1/2" <input type="checkbox"/> 3/4 NPT <input type="checkbox"/> 1 NPT <input type="checkbox"/> Weld Mounted					82			
	30							83			
	31	Pressure Limit	PN 100					84			
	32	Allow. flow speed	10 m/s in water, 30 m/s in gas					85			
	33	Material	316 SST					86			
	34	Drawing No.	792.82045 dated 01.04.2003					87			
	35	<b>Note:</b> The thermowell body shall be machined from a solid bar. Welded parts are not acceptable. Sensor element shall be insensitive to vibrations.									
	36										
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