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LIQUIP Quick-release Gantry Plugs

DATA SHEET

**Part No: GP113, GP213
GP114, GP214**

- TITLE:** Gantry plug, cable and quick disconnect plug for overfill monitors.
- PURPOSE:** Connects gantry system to tanker via industry standard bayonet connectors. May be 3 pin or 4 pin style. Specify at time of order, see below. The assembly is fully connected and sealed ready to plug into the junction box. This assembly allows customers to exchange suspected faulty or damaged gantry plugs without needing an electrician. Simply disconnect damaged cable assembly fit spare unit and send damaged assembly for repair.
- SPECIFICATION:** Designed for use with common industry monitors and vehicles as well as Liquip "Probe Doctor". But also incorporates a weather proof aluminium military plug at the Junction Box inlet end to facilitate a quick dis-connection of Gantry Plugs. This also provides a break-away junction if drivers fail to disconnect gantry plugs and just drives away. With a spare gantry plug at hand, repairs can quickly be achieved.
- Standard plug is 4-pin type for leaner, tighter electrical connection to vehicles, but a 3 pin is readily available. All are completely interchangeable with others.
- Connector pattern is 10-pin to industry standard and can cater for up to 8 compartments with 2-wire probes. The Liquip gantry socket also accommodates 5-wire probes. Check that your order details your local system, bayonet style and voltage.
- Cable is ten-core either self-coiling or 8m long uncoiled, both with petroleum-resistant outer. Each core is 32 strand tinned copper.
- Cable specifications for Intrinsically Safe installations;
- | | |
|-------------|------------------------|
| Resistance | R = 0.0178 Ω /m |
| Capacitance | C = 45 pF/m |
| Inductance | L = 0.325 μ H/m |
- All materials are non-static producing.
Junction box includes hanger for cable spring and socket
Socket is heavily ribbed for better grip and bayonet positions clearly visible by being mounted on bosses.
- ORDERING:** GP113: 3 pin gantry plug with self coiling cable. (Quick Release)
GP114: 4 pin gantry plug with self coiling cable. (Quick Release)
GP213: 3 pin gantry plug with uncoiled cable. (Quick Release)
GP214: 4 pin gantry plug with uncoiled cable. (Quick Release)
- WEIGHT:** 4kg complete kit.
- MOUNTING:** Quick Release plug. Note junction box must be fitted with a GP200 socket kit – GP200Z.
- MATERIALS:** Aluminium Quick Release plug
Polyurethane socket body.
Stainless steel pins and fittings.
10 core cable, outer polyurethane.
- ASSOCIATED EQUIPMENT:** PD100 Series "Probe Doctor" overfill monitor.
TP Series "ground Boss" truck plug.

See drawing overleaf for more details.

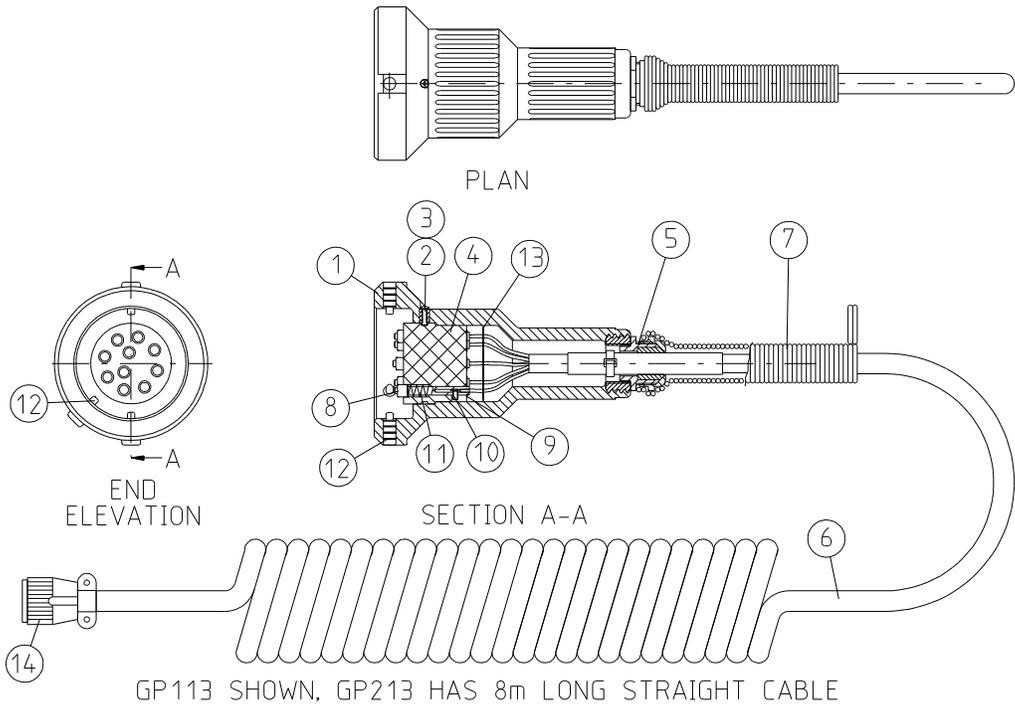


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LIQUIP

3 PIN GANTRY PLUG GP113 & GP213



ITEM	PART NO	DESCRIPTION	MATERIAL	GP113	GP213
1	GP103-1	PLUG BODY	POLYURETHANE	1	1
2	6526	SETSCREW	ST STEEL	1	1
3	6527	WASHER SHAKEPROOF	ST STEEL	1	1
4	GP100-2	SOCKET	POLYURETHANE	1	1
5	6885	CABLE GLAND	N/P BRASS	1	1
6	5023	CABLE - COILED (SELF STORE)	POLYURETHANE	1	
	6948	CABLE - STRAIGHT (8m)	POLYURETHANE		1
7	4477	SPRING	ST STEEL	1	1
8	5713	PIN	ST STEEL	10	10
9	4517	E CLIP	ST STEEL	10	10
10	4874	GRUBSCREW	ST STEEL	10	10
11	4478	SPRING RETURN	ST STEEL	10	10
12	5714	LOCKING PIN	ST STEEL	3	3
13	4755	CABLES IDENTIFICATION LABEL	POLYCARBONATE	1	1
14		MILITARY PLUG (FEMALE)	ALUMINIUM	1	1
15					

CABLE CONNECTIONS FOR THE LIQUIP GP113 & GP213 GANTRY PLUG, MILITARY PLUG AND PROBE DOCTOR

WIRE COLOUR	GANTRY PLUG PIN No	MILITARY PLUG PIN No.	PROBE DOCTOR TOP BOARD
BROWN	1	A	1
PINK	2	B	2
BLUE	3	C	3
YELLOW	4	D	4
GREEN	5	E	5
ORANGE	6	F	6
VIOLET	7	G	7
RED	8	H	8
WHITE	9	I	9
BLACK	10	J	10

NOTES: Wiring colour codes may vary from country to country. In 1996 Liquip Sales Pty Limited adopted the I.P. code of practice in the general interest of compatibility.

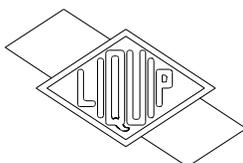
CENTRE PINS 9 AND 10 ARE EXTENDED TO CONTACT BEFORE THE OTHER 8 TO ENSURE THAT ANY ELECTROSTATIC CHARGE ON THE TANKER IS GROUNDED BEFORE POWER IS APPLIED TO THE SOCKET.

X500000

SHT 1 OF 2

Issue: D

METERS - VALVES - VENTS - MANHOLES - PUMPS - HOSEREELS - OVERFILL PROTECTION - LOADING ARMS - ELECTRONIC DIPSTICKS



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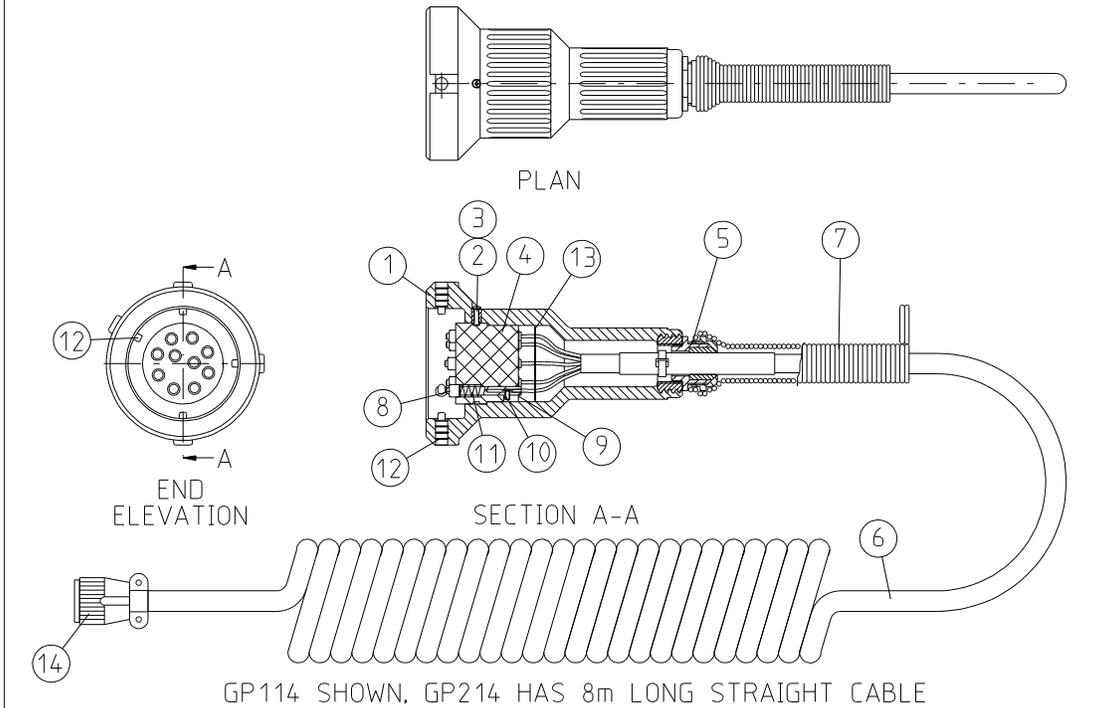


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LIQUIP

4 PIN GANTRY PLUG GP114 & GP214



ITEM	PART NO	DESCRIPTION	MATERIAL	GP114	GP214
1	GP104-1	PLUG BODY	POLYURETHANE	1	1
2	6526	SETSCREW	ST STEEL	1	1
3	6527	WASHER SHAKEPROOF	ST STEEL	1	1
4	GP100-2	SOCKET	POLYURETHANE	1	1
5	6885	CABLE GLAND	N/P BRASS	1	1
6	5023	CABLE - COILED (SELF STORE)	POLYURETHANE	1	
	6948	CABLE - STRAIGHT (8m)	POLYURETHANE		1
7	4477	SPRING	ST STEEL	1	1
8	5713	PIN	ST STEEL	10	10
9	4517	E CLIP	ST STEEL	10	10
10	4874	GRUBSCREW	ST STEEL	10	10
11	4478	SPRING RETURN	ST STEEL	10	10
12	5714	LOCKING PIN	ST STEEL	4	4
13	4755	CABLES IDENTIFICATION LABEL	POLYCARBONATE	1	1
14		MILITARY PLUG (FEMALE)	ALUMINIUM	1	1
15					

CABLE CONNECTIONS FOR THE LIQUIP GP114 & GP214 GANTRY PLUG, MILITARY PLUG AND PROBE DOCTOR

WIRE COLOUR	GANTRY PLUG PIN No	MILITARY PLUG PIN No.	PROBE DOCTOR TOP BOARD
BROWN	1	A	1
RED	2	B	2
ORANGE	3	C	3
YELLOW	4	D	4
GREEN	5	E	5
BLUE	6	F	6
VIOLET	7	G	7
PINK	8	H	8
BLACK	9	I	9
WHITE	10	J	10

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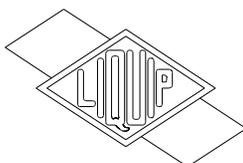
CENTRE PINS 9 AND 10 ARE EXTENDED TO CONTACT BEFORE THE OTHER 8 TO ENSURE THAT ANY ELECTROSTATIC CHARGE ON THE TANKER IS GROUNDED BEFORE POWER IS APPLIED TO THE SOCKET.

X500000

SHT 2 OF 2

Issue: D

METERS - VALVES - VENTS - MANHOLES - PUMPS - HOSEREELS - OVERFILL PROTECTION - LOADING ARMS - ELECTRONIC DIPSTICKS



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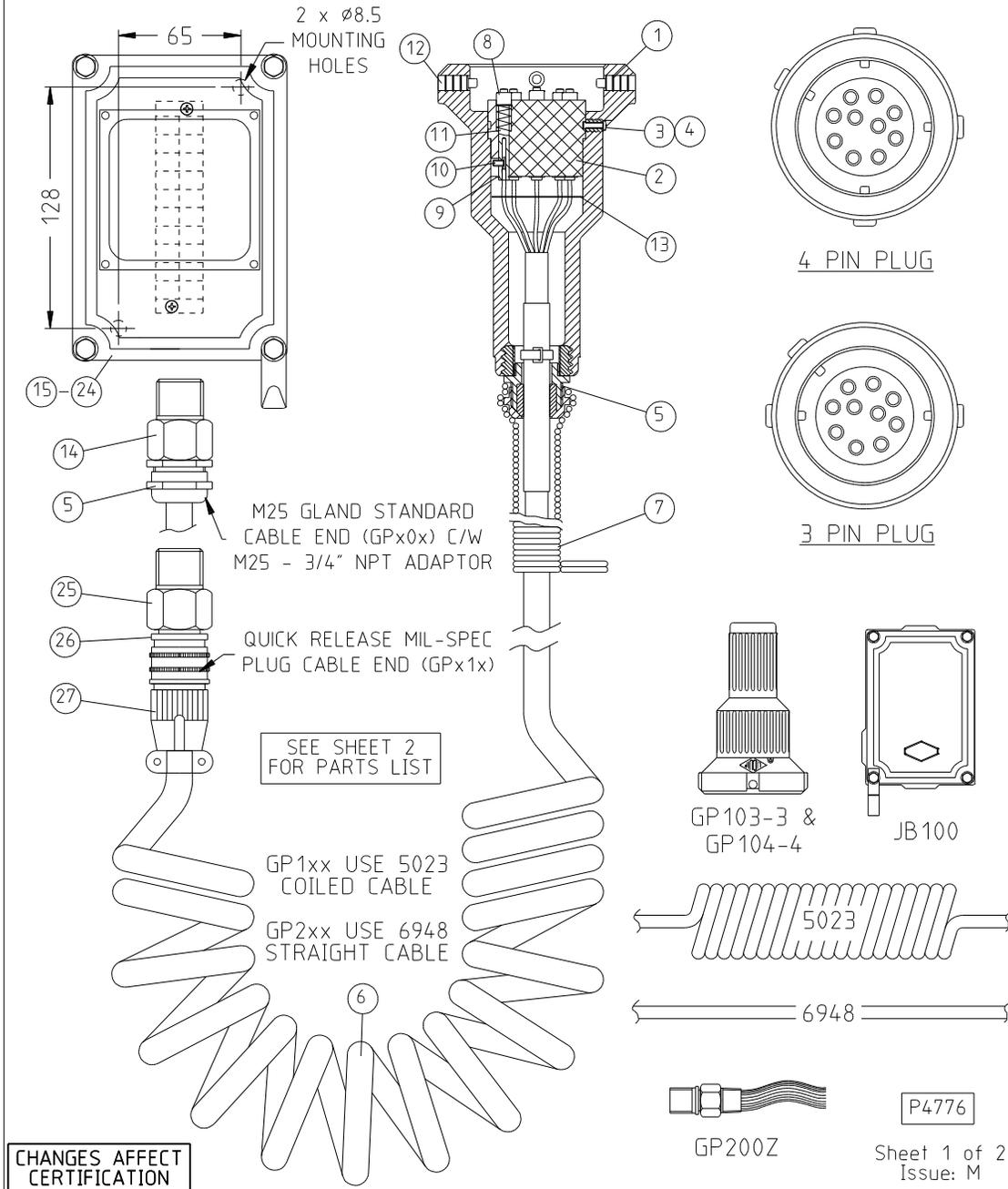


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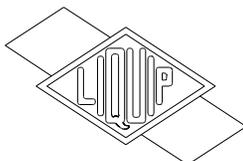
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LIQUIP

GANTRY PLUGS & COMPONENTS



METERS - VALVES - VENTS - MANHOLES - PUMPS - HOSE REELS - OVERFILL PROTECTION - LOADING ARMS - ELECTRONIC DIPSTICKS



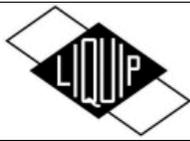
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LIQUIP

PARTS LIST & WIRING INSTRUCTIONS FOR ALL 3 & 4 PIN GANTRY PLUGS

ITEM PART NO	DESCRIPTION	MATERIAL	GP103	GP104	GP203	GP204	GP113	GP114	GP213	GP214	GP103-3	GP104-4	GP2002	JB100	5023	6948
1	GP104-1 PLUG BODY 4 PIN	POLYURETHANE	1									1				
2	GP103-1 PLUG BODY 3 PIN	POLYURETHANE	1								1					
3	GP100-2 SOCKET	POLYURETHANE	1								1					
3	SETSCREW PAN/PH HEAD	ST STEEL	1	1	1	1	1	1	1	1	1	1				
4	6527 WASHER SHAKEPROOF	ST STEEL	1	1	1	1	1	1	1	1	1	1				
5	6885 CABLE GLAND	N/P BRASS	2	2	2	2	2	2	2	2	2	2				
6	5023 CABLE - COILED (SELF STORE)	POLYURETHANE	1												1	
6	6948 CABLE - UNCOILED 8m (NOT SHOWN)	POLYURETHANE	1													1
7	4477 SPRING WIRE SUPPORT	ST STEEL	1	1	1	1	1	1	1	1	1	1				
8	5713 PIN CONTACT	ST STEEL	10	10	10	10	10	10	10	10	10	10				
9	4517 E CLIP	ST STEEL	10	10	10	10	10	10	10	10	10	10				
10	4874 GRUBSCREW	ST STEEL	10	10	10	10	10	10	10	10	10	10				
11	4478 SPRING RETURN	ST STEEL	10	10	10	10	10	10	10	10	10	10				
12	5714 LOCKING PIN	ST STEEL	3	4	3	4	3	4	3	4	3	4				
13	4755 CABLES IDENTIFICATION LABEL	POLYCARBONATE	1	1	1	1	1	1	1	1	1	1				
14	7191 ADAPTOR	BRASS	1	1	1	1										
15	JB100-1 JUNCTION BOX BODY	ALUMINIUM												1		
16	JB100-2 JUNCTION BOX COVER	ALUMINIUM												1		
17	JB100-4 JUNCTION BOX HOOK	ALUMINIUM												1		
18	0100 WASHER FLAT	ZIP M/S												4		
19	4279 GASKET	NEO-CORK												1		
20	4753 LABEL	PLASTIC												1		
21	4920 SETSCREW HEX HD	ZIP M/S												4		
22	4885 SCREW HAMMER DRIVE	STEEL												4		
23	4960 SCREW THREAD CUTTING PAN HD	ZIP M/S												2		
24	5026 BLOCK STRIP TERMINAL	P/E PLASTIC												1		
25	GP200-1 ADAPTOR	BRASS											1			
26	5125 MILITARY PLUG (MALE)	ALUMINIUM												1		
27	MILITARY PLUG (FEMALE)	ALUMINIUM					1	1	1	1	1	1				

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CHANGES AFFECT
CERTIFICATION

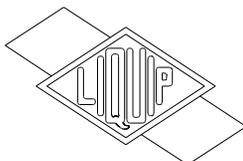
CABLE CONNECTIONS FOR BOTH 3 & 4 BAYONET PIN LIQUIP GANTRY PLUGS

WIRE COLOUR	GANTRY PLUG (3-BAYONET) PIN No	GANTRY PLUG (4-BAYONET) PIN No
BROWN	1	1
PINK	2	8
BLUE	3	6
YELLOW	4	4
GREEN	5	5
ORANGE	6	3
VIOLET	7	7
RED	8	2
WHITE	9	10
BLACK	10	9

P4776

Sheet 2 of 2
Issue: D

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