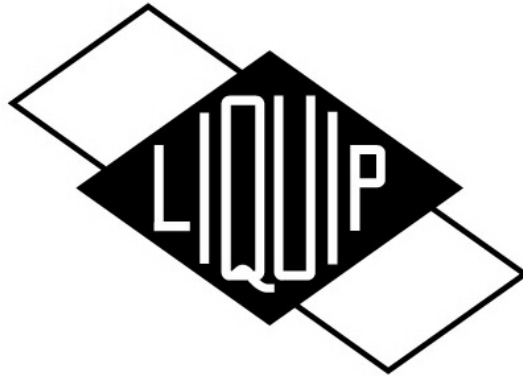


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# Tech talk 58



# Liquip's OverFill Protection Equipment Summary

October 2004



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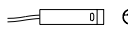
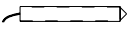


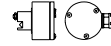

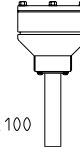
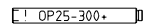
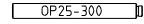
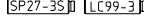

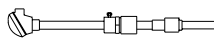
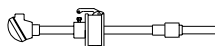
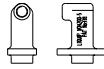

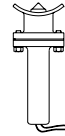
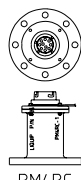
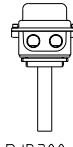
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GROUPING	TRUCK LOADING OVERFILL PROTECTION				STORAGE TANK & ON TRUCK OVERFILL PROTECTION	ON-TRUCK OVERFILL	ON-TRUCK OVERFILL & RETAINED PROTECTION	ON-TRUCK SEALED PARCEL	
PRODUCT & PICTURE	PD106 & PD108 	PD138 	PXD116, PXD118, PXD126, PXD128 	PD501 & PD511 	MPP102 	PPM330 	PPM310 	PPM320 (CALL FIBRE OPTIC) 	PCU201 & PDM201 (PROTECTOR SPDS) 
DESCRIPTION	AUTOMATIC SWITCHING 2 AND 5 WIRE MONITOR VISUAL DIAGNOSTICS	AUTOMATIC SWITCHING 2 AND 5 WIRE MONITOR VISUAL DIAGNOSTICS, NO OVERRIDE SWITCH	AUTOMATIC SWITCHING 2 AND 5 WIRE MONITOR VISUAL DIAGNOSTICS WITH GROUND ASSURANCE	MULTI-PURPOSE 5-WIRE, 2-WIRE SINGLE CHANNEL & GROUND ASSURANCE MONITOR	MINIATURE MONITOR WITH 1 CHANNEL ELECTRONIC 2 WIRE PLUS 1 CHANNEL FIBRE OPTIC	MOBILE TRUCK PROTECTOR WITH ELECTRONIC ONLY OVERFILL SENSING & NEW GENERATION SCANNING TECHNOLOGY	ELECTRONIC OVERFILL WITH FIBRE OPTIC RETAINED SENSING, NEW GENERATION SCANNING TECHNOLOGY	FIBRE OPTIC OVERFILL & RETAINED SENSING, NEW GENERATION SCANNING TECHNOLOGY	*PROTECTOR - SP.D.S. WITH SENSING FOR MANHOLES, FOOT-VALVES, APT ADAPTORS & WET-LEG
TYPICAL USE	TANKER LOADING	TANKER LOADING	TANKER LOADING PXD116 & PXD118 UPTO 15 CHANNEL - FM APPROVED	TANKER/RAILCAR LOADING, GROUND ASSURANCE	STORAGE TANKS IN ISOLATED SITES, AVIATION REFUELLERS				
VOLTAGE & NO OF CHANNELS	110 OR 240VAC 2 WIRE - 6 OR 8 CHANNEL UPTO 15 CHANNEL (8 OFF DIAGNOSTIC ONLY)	110 OR 240VAC 2 WIRE & CHANNEL UPTO 15 CHANNEL 8 OFF DIAGNOSTIC ONLY	110 OR 240VAC 2 WIRE & CHANNEL UPTO 15 CHANNEL 8 OFF DIAGNOSTIC ONLY	110 OR 240VAC 2 WIRE - 1 CHANNEL 5 WIRE - 15 CHANNEL 2 CONNECTORS FOR GROUNDING ASSURANCE	12/24VDC 1 FIBRE OPTIC CHANNEL LFG TANKS	12 TO 24VDC UP TO 8 CHANNELS	12 TO 24VDC UP TO 8 CHANNELS	12 TO 24VDC UP TO 8 CHANNELS	
PROTECTION	IP65 Ex 'd' ia EXPLOSION PROOF HOUSING	IP65 Ex 'd' ia EXPLOSION PROOF HOUSING	IP65 Ex 'd' ia EXPLOSION PROOF HOUSING	IP54 Ex 'd' ia EXPLOSION PROOF HOUSING	IP66 Ex 'm' ia	IP66 Ex 'm' HOUSING	IP66 Ex 'm' HOUSING	IP66 Ex 'm' HOUSING	
MOUNTING LOCATION	LOADING POINT	LOADING POINT	LOADING POINT	LOADING POINT	DEPOT OR VEHICLE	VEHICLE OR DEPOT	VEHICLE	VEHICLE	VEHICLE
ASSOCIATED COMPONENTS	GP100 & GP110 GANTRY PLUGS & CABLE ASSY. JB100	GP100 & GP110 GANTRY PLUGS & CABLE ASSY. JB100	GP100 & GP110 GANTRY PLUGS & CABLE ASSY. JB100	GP100 & GP110 GANTRY PLUGS EAL201 EARTH CLAMP & GROUND BALL PLUG JB100 & CABLE ASSY	OVERFILL PROBES LC99 AGP102 FOB100 FOT100, FOL100	ELECTRONIC OVERFILL PROBES	OVERFILL PROBES & FIBRE OPTIC RETAINED SENSORS	ALL FIBRE OPTIC OVERFILL & RETAINED SENSING	USED TOGETHER WITH OVERFILL PROBES, SENSORS, TRUCK PLUG AND PRINTER/CABINET
MANUAL	4773 7401	4773 7401	7282	6381	6434	6439	6439	6439	6445
NOTE: CERTAIN APPLICATIONS MAY REQUIRE APPROVALS FOR USE IN PARTICULAR LOCATIONS. ALWAYS CONSULT LIQUIP FOR ALL-ROUND SUITABILITY OF APPLICATIONS.									X4-00301 Issue: C



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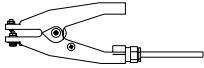
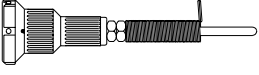
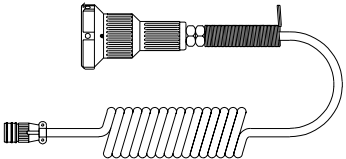

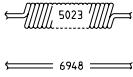


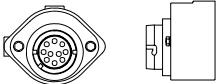
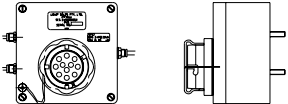
ELECTRONIC PROBES					
PICTURE & PART NO	 LC99 & LC95	 AGP102 & AGP105	 DP250		
DESCRIPTION	2 & 5 WIRE OVERFILL PROBES	2 & 5 WIRE GLASS OVERFILL PROBES	DUMMY PROBE		
MATERIAL OF CONSTRUCTION	ACETAL	GLASS	PVC/POTTED		
MOUNTING	ALL PROBE HOUSINGS BELOW	ALL PROBE HOUSINGS BELOW	BRACKET		
INSTRUCTIONS	LC95-99	6373, 6374, AGP00100, 6403	4786		
FIBRE OPTIC PROBES					
PICTURE & PART NO	 FOT100	 API461-5	 FOB100	 FOL100	
DESCRIPTION	FIBRE OPTIC OVERFILL PROBE	FIBRE OPTIC PROBE & MOVEMENT SENSOR	FIBRE OPTIC PROBE - BOTTOM	FIBRE OPTIC LPG PROBE	
MATERIAL OF CONSTRUCTION	ALUMINIUM	ALUMINIUM	ALUMINIUM	STEEL	
MOUNTING	ALL PROBE HOUSINGS SHOWN BELOW (SAME DIMS AS LC PROBES)	MOUNTS IN PLACE OF SIGHTGLASS ON API461 ONLY	SCREWS INTO WELD SOCKET IN TANK BODY (ALUM. STEEL OR ST STEEL)	2" NPT THREAD SCREWS INTO WELD SOCKET IN TANK BODY (ALUM. STEEL OR ST STEEL)	
INSTRUCTIONS	7254	6450	6448	7255, FOL00101	
PROBE EXTENSIONS					
PICTURE & PART NO	   	 AGP100-10 AGP100-17	 AGP100-18		
DESCRIPTION	LC99 & LC95 PROBE EXTENSIONS FROM 97mm LONG TO AS LONG AS REQUIRED	GLASS PROBE "CANE PROBE" EXTENSIONS FOR STORAGE TANKS	GLASS PROBE "CANE PROBE" EXTENSIONS FOR STORAGE TANKS		
MATERIAL OF CONSTRUCTION	OP25-300(+) - ALUM SP27-3S - ST STEEL LC99-3 - ACETAL	STAINLESS STEEL	STAINLESS STEEL		
MOUNTING	ALL PROBE HOUSINGS BELOW	1 1/2" OR 2" BSP	2 1/2" CAMLOCK CAP		
INSTRUCTIONS	-	AGP00199	AGP00199		
PROBE HOUSINGS					
PICTURE & PART NO	 VOH200-5, VOH200-AT & VOH200-18	 SPA100 SPA100U	 PJB400	 PM4RC	 PJB300 & PJB301
DESCRIPTION	PROBE JUNCTION BOX COMPACT WITH SIDE ENTRY VOH200-18 HAS BLIND HOLES	2" BSP OR NPS ADAPTOR FOR VOH200-5 HOUSINGS	PROBE JUNCTION BOX STRAIGHT WITH TOP ENTRY DESIGNED FOR PIPELINES	RAILCAR PROBE MOUNT - SINGLE PROBE CAN BE MOUNTED, TRUCK PLUG ON TOP	PROBE JUNCTION BOX - TWIN PORT FOR GLASS PROBE
MATERIAL OF CONSTRUCTION	ALUMINIUM	ALUMINIUM	ALUMINIUM	S.G. IRON	ALUMINIUM
MOUNTING	VRB-13 FLANGE VOH MANHOLES SPA100 ADAPTORS	SPA100 2" BSP SPA100U 2" NPS	WELD ONTO ø100mm PIPE WORK	ANSI 150 100mm FLANGE	PJB300 2" NPS WITH NUT PJB301 2" BSP WITH NUT
INSTRUCTIONS	6406	X751398	PJB00299	PM4RC/99	6385, PJB00199

X400101 Issue: D



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<u>GROUND ASSURANCE</u>				
PICTURE & PART NO	 EAC201	 GP103 & GP104	 GP113 & GP114	
DESCRIPTION	EARTH CLAMP	3 PIN & 4 PIN GANTRY PLUGS	QUICK RELEASE GANTRY PLUGS	
MATERIAL OF CONSTRUCTION	ALUMINIUM & STEEL	POLYURETHANE	POLYURETHANE	
MOUNTING	M20 CABLE GLAND	M25 CABLE GLAND	MIL SPEC CONNECTOR	
INSTRUCTIONS	EAC00201.doc	GP100, 4776, 6381, 4773	GP001000, 4776	
<u>CONNECTIONS &amp; JUNCTION BOX</u>				
PICTURE & PART NO	 GP200	 5023 6948	 JB100	 JBL100
DESCRIPTION	QUICK RELEASE ADAPTOR	CABLES	JUNCTION BOX	JUNCTION BOX
MATERIAL OF CONSTRUCTION	ALUMINIUM & BRASS	POLYURETHANE	CAST ALUMINIUM	PVC
MOUNTING	MIL SPEC CONNECTOR	ELECTRICAL CONNECTORS	2 BY M8 SCREWS	3 BY M6 SCREWS
INSTRUCTIONS	GP00100, 4776	GP00100, 4776	4791	X650103
<u>TRUCK PLUGS</u>				
PICTURE & PART NO	 TP103, TP104, ITP113, ITP114		 ITP103U, ITP104U	
DESCRIPTION	TRUCK PLUG		TRUCK PLUG	
MATERIAL OF CONSTRUCTION	ALUMINIUM		ALUMINIUM	
MOUNTING	2 BY M8 SCREW (INSULATED)		2 BY M8 SCREW (INSULATED)	
INSTRUCTIONS	4729, 5759		4729, 5759, ITP104U	
<div style="border: 1px solid black; display: inline-block; padding: 2px;">X400304</div> Issue: A				