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LIQUIP INTERNATIONAL PTY LIMITED - ENGINEERING DEPARTMENT - 13 HUME RD SMITHFIELD SYDNEY NSW AUSTRALIA 2164
PH: +61 2 9725 9000 FAX: +61 2 9609 4739 EMAIL: engineering@liquip-nsw.com.au

LIQUIP MOUNTING FLANGES FOR SLV5 VALVES

Part: 59080

INSTRUCTIONS / DATA SHEET

**PART N°: SLV5-13 & SLV5-13STR
SLV5-13M & SLV5-13MSTR
SLV5-13SS**

- TITLE:** Tank mounting flange assemblies for SLV5 internal valves.
- PURPOSE:** For road tanker use. Flange is welded into tanker compartment floor at its lowest point to ensure full drainage of product. Liquip SLV5 series internal valve is then mounted from underneath (external to tank shell) and piped to API adaptors. Optional strainer is to stop any foreign objects being discharged and damaging seals, couplers or other downstream equipment.
- OPERATION:** None.
- PERIODIC SERVICE:** No routine maintenance required. When possible, check for and remove any objects caught by strainer (if fitted).
- DISMANTLE:** None required. Removing 4 x M5 screws allows strainer to be removed. Flanges are permanently welded to tank shell.
- TECHNICAL DATA:** Strainer hole size is $\text{Ø}4.76\text{mm}$, flow area through strainer is equivalent to $\text{Ø}230\text{mm}$.
- ASSOCIATED EQUIPMENT:**
1. Air operated valve – SLV5-ARO
 2. Cable operated valve –SLV5CO
 3. Manual operated valve – SLV5M
- WEIGHT:**
- | | |
|--------------------|----------------------|
| SLV5-13 – 1.16kg | SLV5-13STR – 1.45kg |
| SLV5-13M – 3.46kg | SLV5-13MSTR – 3.83kg |
| SLV5-13SS – 3.55kg | |
- MOUNTING:** See flange welding procedure on last page. All flanges are 244mm OD. Gasket for mounting SLV5 valve is supplied with the valve.
- MATERIALS OF CONSTRUCTION:** Flanges are cast aluminium AA601, mild steel or stainless steel 316. Strainer is zinc plated mild steel. See following pages for fastener variations.
- DISMANTLE:** None

Overall dimensions shown on the drawing overleaf.

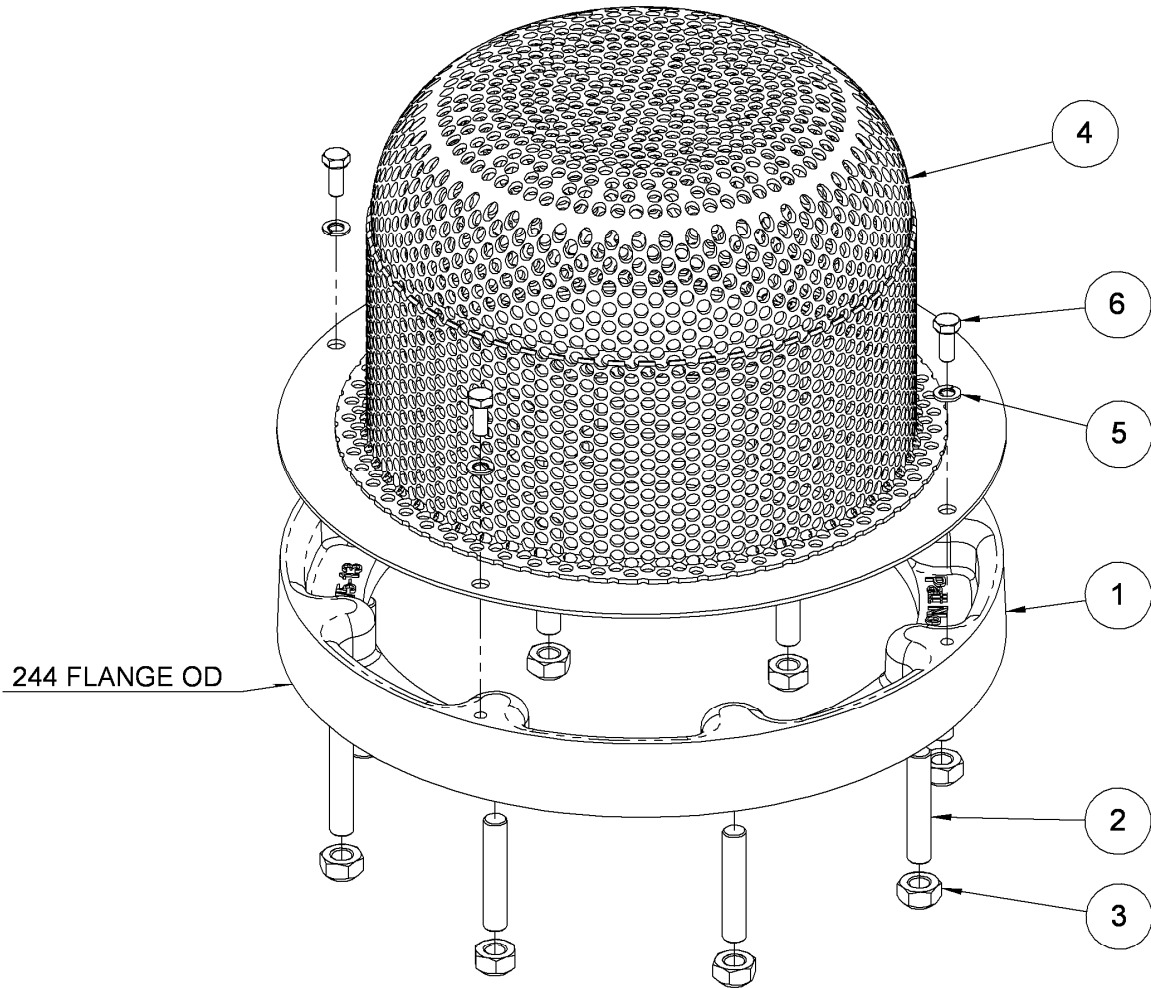


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LIQUIP

SLV5 TANK FLANGES - ALUMINIUM WITH OPTIONAL STRAINER



ITEM NO.	PART NUMBER	DESCRIPTION	SLV5-13STR	SLV5-13	MATERIAL
1	C0248	FLANGE TANK WELD SLV5	1	-	ALUMINIUM
1	C0248	FLANGE TANK WELD SLV5	-	1	ALUMINIUM
2	SLV5-21	STUD IMPERIAL	8	8	Z/P STEEL
3	1706	NUT CONELOCK	8	8	Z/P STEEL
4	SLV5-45F	STRAINER FLANGED	1	-	Z/P STEEL
5	6498	WASHER SPRING	4	-	Z/P STEEL
6	4983	SETSCREW MET	4	-	Z/P STEEL

X1100109

Issue: A

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



LIQUIP INTERNATIONAL PTY LTD
 13 Hume Road
 Smithfield, 2164
 Sydney NSW Australia
 Phone: +612 9725 9000
 Fax: +612 9725 1252

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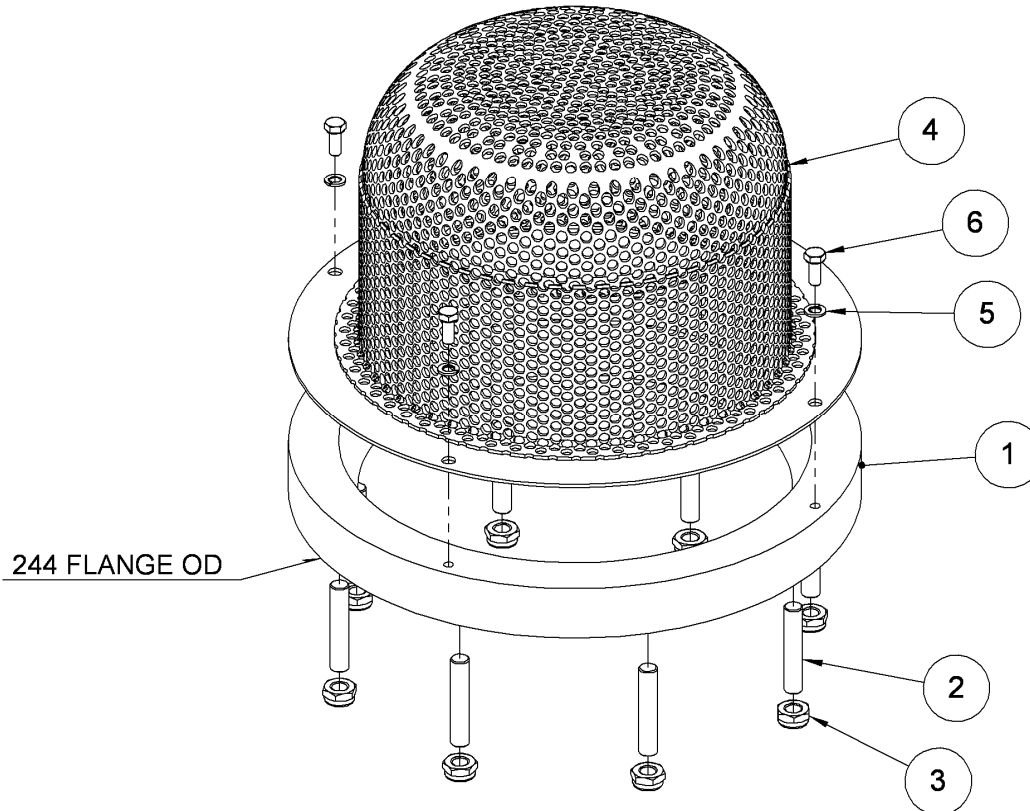


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LIQUIP

SLV5 TANK FLANGES - STEEL & ST STEEL WITH OPTIONAL STRAINER



ITEM NO.	PART NUMBER	DESCRIPTION	SLV5-13MSTR	SLV5-13M	SLV5-13SS	MATERIAL
1	70357	FLANGE TANK WELD MET	1	-	-	STEEL
1	70357	FLANGE TANK WELD MET	-	1	-	STEEL
1	71095	FLANGE TANK WELD	-	-	1	ST STEEL
2	SLV5-21M	STUD METRIC	8	8	-	Z/P STEEL
2	SLV5-21SS	STUD METRIC	-	-	8	ST STEEL
3	6625	NUT HALF NYLOC MET	8	8	-	Z/P STEEL
3	55054	NUT GLENLOC MET	-	-	8	ST STEEL
4	SLV5-45F	STRAINER FLANGED	1	-	-	Z/P STEEL
5	6498	WASHER SPRING	4	-	-	Z/P STEEL
6	4983	SETSCREW MET	4	-	-	Z/P STEEL

X1100209

Issue: A

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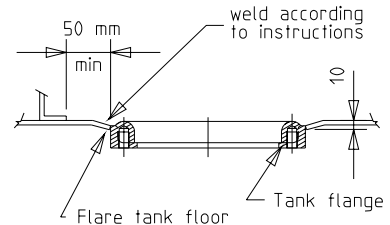
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PROCEDURES FOR WELD IN TANK FLANGES

LOCATION

This equipment should be located at the lowest point of each compartment to ensure drainage. Leave at least 50mm clearance from the edge of the bulkhead weld to the edge of the tank flange to minimise stress.



FITTING OF THE WELD FLANGE

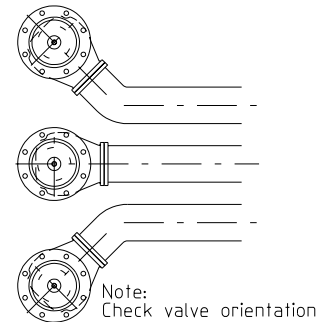
In the determined position, cut a hole slightly smaller than the diameter of the selected flange (see table) to allow for trimming later if needed. Flare the tank shell around the circumference outwards for improved drainage and so the tank flange can fit inside the hole.

OUTSIDE DIAMETERS FOR WELD-IN TANK FLANGES	
ITV2-1	140
ITV2-3	140
ITV4-1	214
ITV4-3	214
ITV6-1	295
ITV6-3	295
SLV5-13 SERIES	244
SLV5-34	247
EFV100-5 & 7	226
PBV100-5 & 7	226
*ALL DIMS IN mm.	

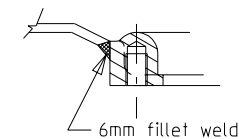
Before welding in the flange, assemble the tank flange to the outlet elbow, hold up in the hole and rotate the assembly until outlet of the elbow faces the required direction. Using a suitable marker, place a mark on the side of the flange and the tank shell for easy re-alignment.

FLANGE WELDING

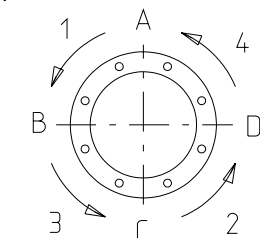
Hold the tank flange inside the hole and ensure the flange face is flush with the flared tank shell and lined up with the location marks. Place 4 tack welds approximately 25 to 40mm equally spaced to secure the flange.
 NOTE: REMOVE ALL STUDS BEFORE WELDING.



Fully weld the flange from the underside (outside) following this procedure:
 WELD NO 1 - A TO B
 WELD NO 2 - C TO D
 WELD NO 3 - B TO C
 WELD NO 4 - D TO A

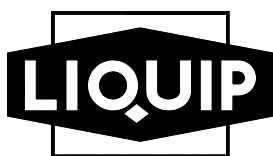


Weld for maximum penetration but keep heat to a minimum to reduce stress, distortion and keep seal face flat (within 0.5mm).
 NOTE: ALL WELDING IN ACCORDANCE WITH AS1554.1 OR AS1665
 MINIMUM WELDING STANDARD: STRUCTURAL PURPOSE.
 When cool, remove all swarf, spatter and filings from the tank to avoid damage to valve. Clean all sealing faces.



X1300097 Issue: C

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