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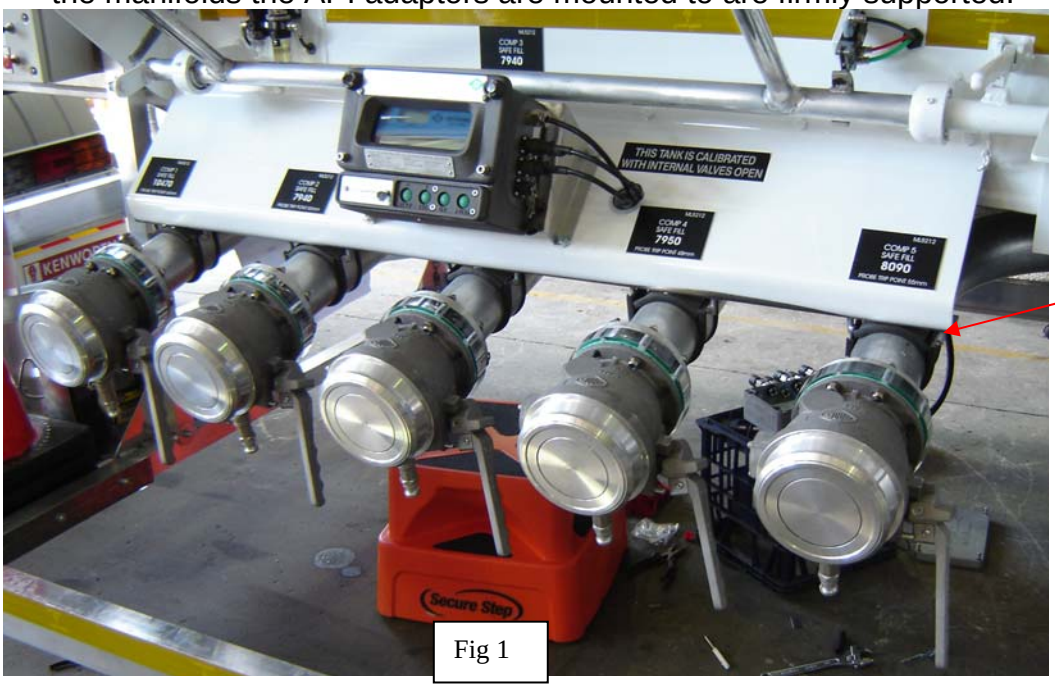
Installation of U-bolts for supporting pipe work between SLV5 & API adaptors

Introduction:

When running pipe work on tanks between the SLV5 emergency valve & API adaptors, every compartment will vary. The 1st compartment & last compartments generally have pipe work that run the longest distance. The pipe work from the SLV5's that are close to the API adaptors are much shorter. This means the number & position of U-bolts to support the pipe work for each compartment will vary. The direction in which the SLV5 faces also varies which can complicate the use of U-bolts. As a general note, pipe work must be supported to avoid excessive stress & vibration on the pipe work itself & the SLV5 emergency valves.

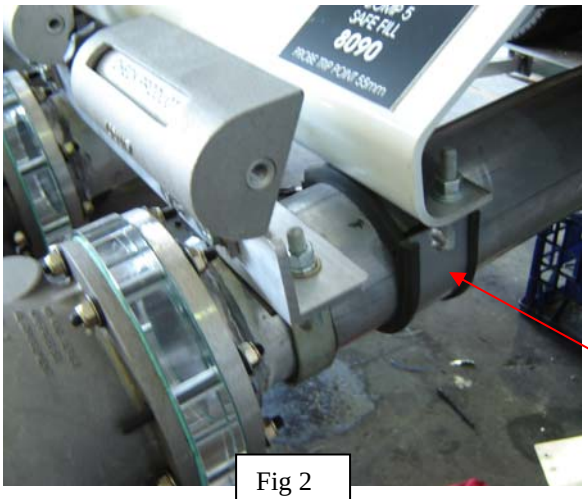
Installation:

1. The SLV5 emergency valves & API adaptors should be mounted in position before the pipe work is made.
2. Use a mounting frame to position the API adaptors or manifolds.
3. Make the pipe work so that there is no excess stress on the SLV5 emergency valves.
4. The pipe work near API adaptors must be rigidly mounted to either the front plate or that the manifolds the API adaptors are mounted to are firmly supported.



U-bolts mounted close to API adaptors

Fig 1



U-bolts mounted close to API adaptors

Fig 2

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5. When securing the pipe work near the SLV5 emergency valves, the U-bolt must be positioned as close as possible the outlet flange of the SLV5. i.e. no more than 200mm away.

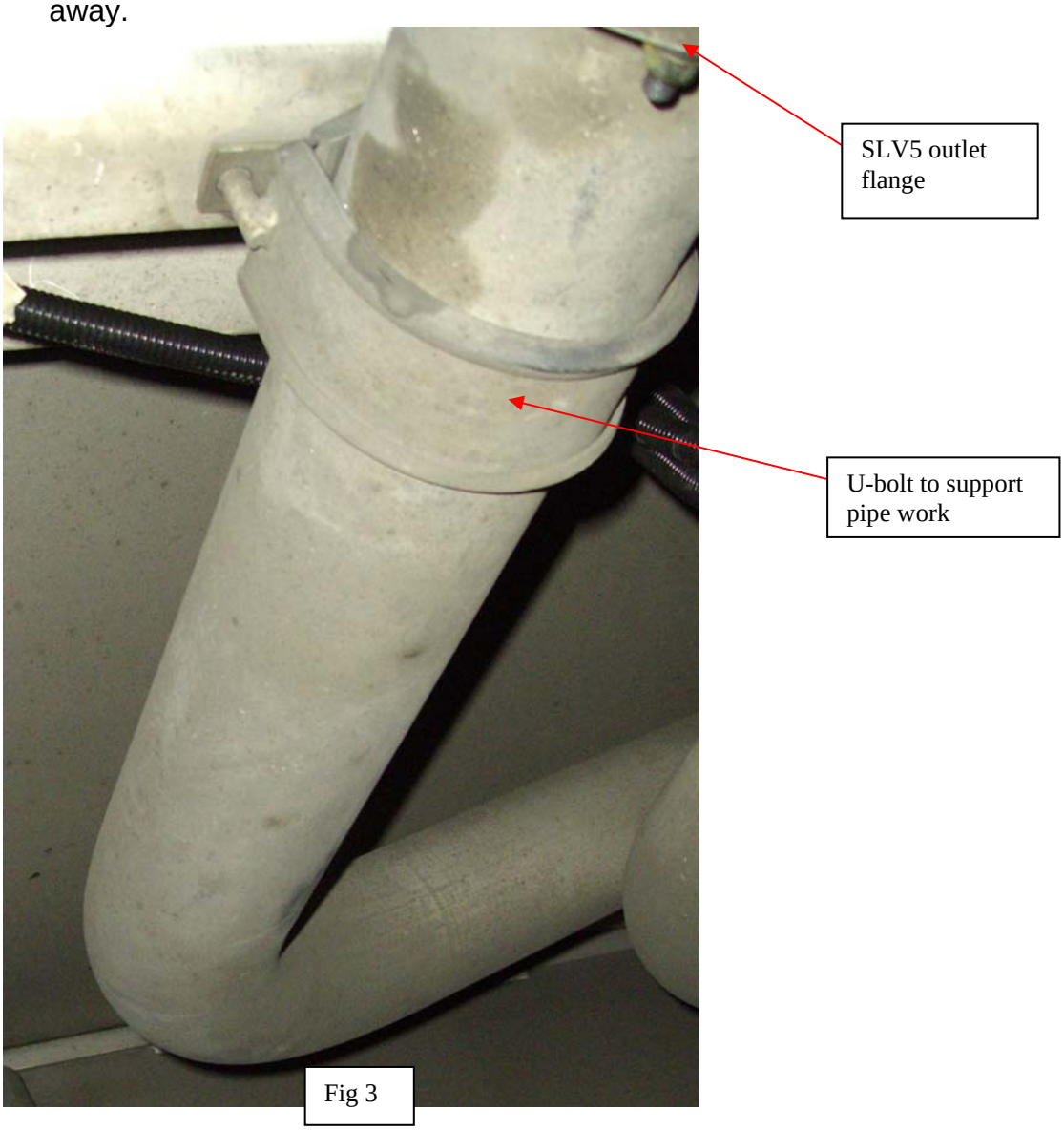

Fig 3

6. Even with the shortest pipe lengths, a U-bolt is required near the SLV5.
7. For long lengths of pipe, it is recommended extra U-bolts be used to support the pipe work. Typical spacing of U-bolts 1.5m.
8. In extreme cases where the truck is likely to go off road regularly, it is recommended to use a flexible coupling between the SLV5 emergency valve & pipeline.