

be provided with a flanged entry for the safety relief valves. All entry points into the main access flange shall be bossed out to suit the size of the tapping or hole.

- Q. A three way plug valve, with no neutral, shall be mounted on the main access flange, with two in number safety relief valves mounted either side of the plug valve outlets. The safety valves shall be suitable for air/water and rated for the pressures likely to be experienced. They shall be adjustable and incorporate a manual lift device or wedge for testing purposes.
- R. A pressure gauge shall be mounted not less than 1m above floor level, have a 100mm diameter face and be complete with isolating and a drip leg drain.

### **1.2.6 Bolts, Nuts, Studs, Washers**

- A. All bolts, nuts, etc. shall be of approved Standard and corrosion resistant material. Together with the shop drawings the Contractor shall submit a list of the manufacturers' recommended torque value for each kind of fixing. Washers, bolts and nuts shall be of the same material when used together. Adequate measures, i.e. insulation or cathodic protection, shall be taken at locations where galvanic corrosion can be expected. Unless otherwise specified or approved, all bolts or studs shall be suitable machined on the shank and under the bolt head. Washers shall be provided under nuts and, if required, under bolts. Bolts, nuts and studs shall be tightened by means of torque controlled tools. In general the below listed materials shall be used for bolts, nuts and washers except otherwise specified.

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| a. For pipe flanges:            | Stainless steel ISO 3506 (A4 grade is applicable only for dry installation) or equivalent |
| b. For structural steel:        | Galvanised steel, Sheradized  |
| c. For maintenance covers:      | Stainless steel grade A4, ISO 3506 or equivalent  |
| d. For underground flanges:     | Stainless steel grade A4, ISO 3506 or equivalent, with Suitable tape wrapping             |
| e. For submersed installations: | Stainless steel grade A4, ISO 3506 or equivalent  |