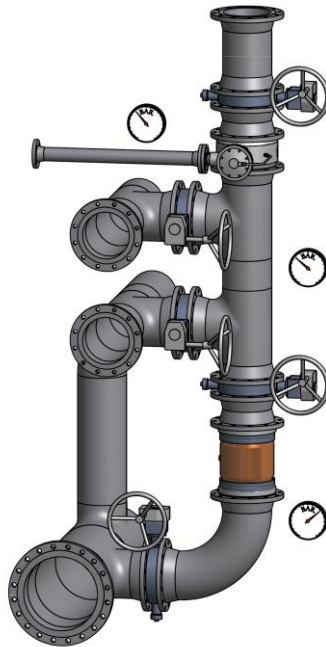


## DELUGE SKID DESIGN

### PIPING ARRANGEMENT

Deluge valves need to be taken out of service every 5 – 7 years to replace the rubber sleeve. Removing a deluge valve for servicing requires fireguards to stand near the skid to operate the manual bypass valve in the event of a fire.

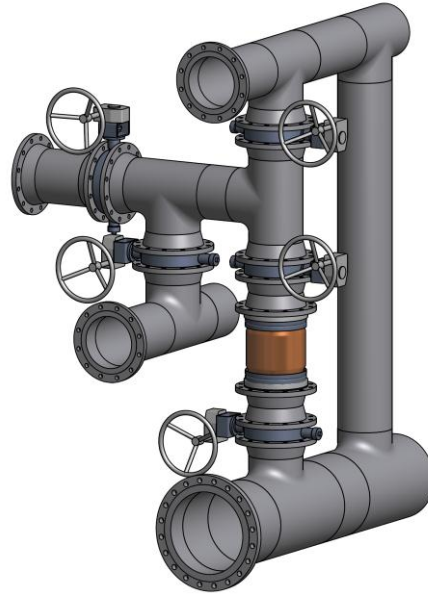
It is therefore important that the service / repair job be completed in as short a time as possible.



**Figure 1: Preferred Design**

In the design shown in Figure 1, the deluge valve can be easily removed because of the flexibility provided by the elbow.

## DELUGE SKID DESIGN



**Figure 2: Not Recommended**

In the design shown in figure 2, the deluge valve is "locked" between the 2 headers. The force required to open the joint to take out the deluge valve is a result of the production tolerances in pipe spools and valves, and can be very high. It is not uncommon that hydraulic jacks are required to separate the piping sufficiently to remove the deluge valve.