1. Use full port ball valves for isolation service up to and including 50 mm (2”NPS).

2. Use lug type butterfly valves for isolation service above 50 mm (2”NPS).

3. Provide 75mm valved drains to drain piping at all pumps. Pipe and discharge drain to nearest floor drain or glycol fill tank as applicable.

4. If the pump cases have a tapping, provide an air cock and drain connection with ball valve and plug.

5. Provide isolation valves for all supply and return mains and at all equipment, pumps, and terminal units.