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CERTIFICATE OF COMPLIANCE

DOUBLE CONTAINMENT

SYSTEM DESIGN AND MANUFACTURER

Thermoplastic Double Containment System shall be a floating carrier design constructed from conventional pipe and fittings meeting applicable ASTM requirements for all standard configurations of primary carrier and secondary containment. System shall include all pipe, fittings, centralizers, valves and valve boxes to be supplied by Spears® Manufacturing Company.

Standard configurations (tees, elbows, crosses, etc.) of primary carrier fitting shall be equipped with extender couplings for installation in secondary containment pipe and fittings.

Primary carrier system shall be supported by polypropylene slide-on centralizer brackets positioned with clean room adhesive. Centralizers shall provide annular space suitable for drainage or installation of user-supplied leak detection cable.

Specialty fittings shall be according to manufacturer's specifications and suitable for use with specified primary carrier and secondary containment system. Specialty fittings include the following:

- Termination fittings for start and stop of secondary containment.
- Closure fitting for joining two secondary containment lines that meet.
- Expansion joint/coupling for thermal expansion/contraction compensation or joining of pipelines.
- Sensor saddles for connection of user-supplied leak detection apparatus.
- Any other custom fitting configuration designed for the system.

Double Containment System shall be air-vented in the secondary containment to prohibit pressurization in excess of 10 psi.

Valve Box enclosure for ball and ball check valves shall be tee style with specified valve installed and [option: external stem extension].

SIZE & MATERIALS

Double Containment system shall be (specify size, material & schedule*) primary carrier pipe and fittings and (specify size, material & schedule*) secondary containment pipe and fittings.

All primary carrier and secondary containment pipe and fittings shall be manufactured from (specify: PVC, cell class 12454 or CPVC, cell class 23447) materials, according to ASTM D1784.

All primary carrier and secondary containment pipe shall meet the requirements of (specify: ASTM D1785 for PVC or ASTM F441 for CPVC).

All standard configuration primary carrier and secondary containment fittings shall meet the requirements 2.4. All standard configuration primary carrier and secondary containment fittings shall meet the requirements of (specify: ASTM D2466 for PVC Schedule 40, D2467 for PVC Schedule 80 or F439 for Schedule 80 CPVC). All special configuration fittings shall meet the manufacturer's design requirements and be suitable for use with the designated pipe.

INSTALLATION

Double Containment System shall be installed in accordance with Spears® Double Containment Design & Installation Guide DC-03.

Installation shall be made by qualified personnel trained in making solvent cement joints per ASTM practice D2855, and flanged joint assembly according to manufacturer's instructions.

Primary carrier and secondary containment pipe and fitting connections shall be made by conventional solvent cement welding. Flanged assembly connections may be used where required for disassembly or as a design necessity. Solvent cement shall be user supplied and medium to heavy bodied as required. Solvent cement shall be Spears® or equal.

*See standard size, material and pipe Schedule combinations. Custom size, material and Schedule combinations by request.



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