

ITEMS SPECIFICATION

1 1-1/2" Non Return Valve

ITEM DESCRIPTION:

Non Return Valve Size 1-1/2" (Nuclear Safety Class – 2, as per ASME Code Section III, Division 1, subsection NC)

VALVE SPECIFICATIONS:

Pressure Rating : Class 600 as per ASME B 16.34
Type : Spring Loaded Lift Check Valve
End Connection : Socket Weld as per ASME B 16.11
Flow Medium : Water

MATERIAL

Body : Forged Steel ASTM A 105
Cover : Forged Steel ASTM A 105
Disc : SS 316
Spring : SS 316
Gasket : SS Spiral Wound with Graphite

GENERAL REQUIREMENTS:

- 1) The valve shall meet the requirement of nuclear safety class 2 as per ASME Section III, Division 1, Subsection NC, ASME B- 16.34 and ASME B- 16.11.
- 2) All bolts shall be ASTM A-193, and Nuts shall be ASTM A-194, have unified standard Thread. All threaded Fasteners shall be provided with locking devices.

MATERIAL TEST AND QUALITY REQUIREMENTS:

- 1) All materials designated as in accordance with ASME Code shall be tested as required by such code. Certified test reports shall be provided.
- 2) Material not specified herein shall be subjected to approval by the purchaser before use in fabrication.
- 3) A shell Hydrostatic Test shall be made using either water or air in accordance with the requirement of ASME B 16.34.
- 4) A Pressure Seat Test shall be made using water in accordance with ASME B 16.34.

DOCUMENTATION REQUIREMENT:

- 1) Certificate of compliance with Safety class -2 applications of the valve.
- 2) List of material of construction.
- 3) Certified Material Test report.
- 4) NDE reports for all valve components.
- 5) Pressure Testing Reports.
- 6) Complete Operation/ Maintenance Manual, Drawings and Part List for Valve.
- 7) All documents have to be in English Language.