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Inspection and Test Plan for Valve

| | | Reference | | Verifying | Acti | ivity | Bv | Remark |
|-----|---|----------------------|-------------------------|--------------|--------|-------------------|--------|--------|
| No. | Inspection and Test Plan | Document | Acceptance Criteria | | Manuf. | Ė | 1 | |
| 1 | Pre-Inspection Meeting | Spec. | Spec. | MOM | Н | Н | Н | - |
| | · | | | | | | | |
| | | Before Ma | anufacturing | | | | | |
| | | API 594, 599, 600, | API 594, 599, 600, 602, | DWG, | | | | |
| 2 | DWG, Design, Calculation Document | 602, 603, 6D, 608, | 603, 6D, 608, 609 and | Calculation | Н | R | Α | - |
| | | 609 and ASME | ASME B16.34 | book | | | | |
| 3 | WPS&PQR | B16.34 ASME IX | ASME IX | Welding Book | Н | R | A | _ |
| 4 | Welder Qualification Certificates | ASME IX | ASME IX | Certificates | Н | R | _ | - |
| 5 | NDT procedures | ASME V | ASME V | Procedures | Н | R | A | _ |
| 6 | NDE Personnel Certificates | ASME | ASME | Certificates | Н | R | _ | _ |
| | NDE I CISOINICI CErtificates | API 594, 599, 600, | ASIVIE | Certificates | - '' | - `` - | | |
| | | 602, 603, 6D, 608, | API 594, 599, 600, 602, | | | | | |
| 7 | PWHT Procedure (if needed) | 609 and ASME | 603, 6D, 608, 609 and | Procedure | Н | R | Α | - |
| | | B16.34 | ASME B16.34 | | | | | |
| 8 | Shell Test Procedure | API 598 | API 598 | Procedure | Н | R | Α | |
| 9 | Backseat Test Procedure | API 598 | API 598 | Procedure | Н | R | Α | - |
| 10 | Low Pressure closure Test Procedure | API 598 | API 598 | Procedure | Н | R | Α | - |
| 11 | High Pressure closure Test Procedure | API 598 | API 598 | Procedure | Н | R | Α | - |
| 12 | Painting Procedure | SSPC | SSPC | Procedure | Н | R | Α | - |
| | | NAS | terials | | | | | |
| | | ivia | leriais | | | | | |
| | | | | Original | | | | |
| 13 | Raw Material Certificates | ASME II/ASTM | ASME II/ASTM | Material | Н | R | - | - |
| | | | | Certificates | | \vdash | | |
| 14 | Material Identification | ASME II/ASTM | ASMEII/ASTM | Report | Н | W | - | - |
| | | During F | abrication | | | | | |
| 45 | Dad Carrel David Visal Land | NACC CD EE | AACC CD EE | Daniel | | | \top | |
| 15 | Body, Cap and Bonnet Visual Inspection after Casting | MSS SP-55 | MSS SP-55 | Report | Н | W | - | |
| | Body, Cap and Bonnet | | | | | | + | |
| 16 | Dimensional, ,Mechanical and Chemical | DWG/ ASME | DWG/ ASME II/ASTM | Report | Н | w | - | |
| | Composition Inspection | II/ASTM | | | | | | |
| 17 | Trim Material Visual Inspection (Stem, | MSS SP-55/ | MSS SP-55/ Construction | Report | Н | w | _ | |
| | Ball, Disk, Seat and etc.) | Construction Code | Code | Пороте | | | | |
| | Trim Material Dimensional, Mechanical | DWG/ ASME | | | | | | |
| 18 | and Chemical Composition Inspection | II/ASTM | DWG/ ASME II/ASTM | Report | Н | w | - | |
| | (Stem, Ball, Disk, Seat and etc.) | 11/7131111 | | | | | | |
| 19 | Casting Defect Repair by Welding | WPS/ Construction | WPS/Construction Code | | Н | н | | |
| | | Code | | _ | | | | |
| 20 | PWHT Review | Procedure | Procedure | Report | Н | R | | - |
| 21 | Confirmation on NDE Test Results for all | Procedure | Procedure | Report | Н | w | | - |
| 22 | Components | 5000 | DIVIC | Daw | | \.,. | | |
| 22 | Valve Wolding Inspection (If any) | DWG | DWG | Report | Н | W | | - |
| 23 | Valve Welding Inspection (If any) Bolt, Nut, Gasket, Gland and other | WPS DWG/ ASME | WPS | Report | Н | W | | |
| 24 | Bought Components Inspection | DWG/ ASME II/ASTM | DWG/ ASME II/ASTM | Report | Н | SW | | - |
| | Bought components inspection | II/ ASTIVI | | | | | | |

| 25 Valve Body Shell Test API 598 API 598 Report H H |
|--|
| 27 Low Pressure closure Test API 598 API 598 Report H H |
| High Pressure closure Test API 598 API 598/ Construction Codes API 598/ Construction Codes Final Inspection Surface Preparation and Painting Check of Name Plate Documentation API 598 API 598 Report API 598 Construction Codes Report H H H |
| API 598/ Construction Codes Final Inspection Surface Preparation and Painting Check of Name Plate DWG Spec. DWG DWG Report H H H |
| Valve Functional Test Construction Codes Final Inspection Final Visual & Dimensional Check DWG/Spec. DWG Report H H - Surface Preparation and Painting Procedure DWG DWG Report H H - Codes Report H H - DWG Report Report H H - DWG Report Report H H - DWG Report Report H H - DWG DWG Report Report H Report H Report DWG Report Report H Report Report H Report Report H Report Report Report H Report Report Report H Report Report |
| 30 Final Visual & Dimensional Check DWG/Spec. DWG Report H H 31 Surface Preparation and Painting Procedure Procedure Report H W 32 Check of Name Plate DWG DWG Report H H 33 Check of Final Book Spec. Spec. DWG/P.O H R DOcumentation |
| 31 Surface Preparation and Painting Procedure Procedure Report H W 32 Check of Name Plate DWG DWG Report H H 33 Check of Final Book Spec. Spec. DWG/P.O H R Documentation |
| 32 Check of Name Plate DWG DWG Report H H 33 Check of Final Book Spec. Spec. DWG/ P.O H R Documentation |
| 33 Check of Final Book Spec. Spec. DWG/ P.O H R Documentation |
| Documentation |
| |
| |
| 34 Inspection Reports Spec./DWG Spec./DWG Report H R |
| 35 NCR Spec./DWG Spec./DWG Report H R |
| 36 Review Final Data Report Spec./DWG Spec./DWG Report H R |
| Pre-Shipment Inspection |
| 37 Preservation and Packing Spec. Spec. Report H H |
| 38 Marking Spec. Spec. Report H H |
| 39 Loading Inspection Spec. Spec. Report H H |
| 40 Shipping Document Control Procedure Spec. Packing List H H |
| Abbreviations: |
| H: Hold Point = Hold on the production till TPI Inspector performs inspection and supervise the required test |
| W: Witness Point = Manufacture shall notify client and TPI Inspector but there is no hold on the production; Client can waive th |
| inspection based on his discretion and informs TPI Inspector accordingly. |
| R: Document Review = Review means Review document, which includes of material test certificates, WPS, PQR, NDT Procedure |
| and etc. |
| A: Approval |
| SW: Spot Witness = for items with spot witness manufacture shall notify TPI inspector as fulfilling the monitoring; For example |
| one random visit for whole UT tests or one or two visits for whole surface preparation works for painting. |
| For example one random visit for whole UT tests or one or two visits for whole surface preparation works for painting. |
| MOM: Minute of Meeting |
| P.O: Purchase Order |

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