3 – PIECE BALL VALVES

|  |  |  |
| --- | --- | --- |
| Service  Condition | Rating | 1000 lbs. |
| Temperature | 180 °C |
| Gauge Pressure | 10 bars |
| Service Fluids | Demineralized Water |
| Test | Body Test | 15 bars |
| Seat Test | 7 bars air under water |

|  |  |
| --- | --- |
| BODY | Cylindrical – Full port valve, Quick Disconnected, Stainless Steel 304/316L. |
| CONNECTION | Flanges, Stainless Steel 304/316L, Butt – Welding (BW) ends, Sch: 80s. |
| BALL | Ball – Stainless Steel 304/316L. |
| SEAT | Spherical PTFE facing. |
| STEM | Spindle – Stainless Steel 304/316L. |
| CONTROL | Stainless Steel Hand Lever. |
| PACKING | PTFE |
| BOLTS & NUTS | Tie – rods and Nuts – Stainless Steel |
|  | Note: no part of copper metal |
| ROOM CONDITION | Corrosive atmosphere |

BILL OF QUANTITY

|  |  |  |  |
| --- | --- | --- | --- |
| Sr.No | Size | Qty (Nos.) | Remarks |
| 1. | DN 15 | 50 Nos. |  |
| 2. | DN 20 | 50 Nos. |  |
| 3. | DN 25 | 50 Nos. |  |

 SPECIFICATION SHEET

GLOBE (Regulating) VALVES

|  |  |  |
| --- | --- | --- |
| LIMITS OF USE | Rating | 150 lbs. |
| Temperature | 180 °C |
| Gauge Pressure | 10 bars |
| TEST | Body Test | 15 bars |
| Seat Test | 7 bars air under water |

|  |  |
| --- | --- |
| SERVICE FLUIDS | Oxalic Acid, Nitric acid, De-mineralized water, Caustic soda |
| BODY | Straight – Stainless Steel, SS 304 |
| BONNET | Bolted – Stainless Steel SS 304 |
| CONNECTION | Raised Faced flange – “stock Finish” machining – machined bolt facings drilling as per ASME B 16.5 |
| OBUTRATOR | Prabolic disc of stainless-steel SS 304 |
| SEAT | Integral, stellated seat facing |
| STEM | Rising with outside stainless-steel threads, sulphinized connector bush |
| STUFFING BOX | Bolted Flanged |
| STUFFING BOX PACKING | PTFE to be repacked in open position |
| CONTROL | Hand wheel with position index |
| BOLTS & NUTS | Stainless Steel |
|  | Note: No part of copper metal |
| MAKE | BONETTI/Equivalent |

BILL OF QUANTITY

|  |  |  |  |
| --- | --- | --- | --- |
| Sr.No | Size | Qty (Nos.) | Remarks |
| 1. | DN 15 | 20 Nos. |  |
| 2. | DN 20 | 20 Nos. |  |
| 3. | DN 25 | 20 Nos. |  |

 SPECIFICATION SHEET

On / Off Piston Valve (Stainless Steel, Flanged)

|  |  |  |
| --- | --- | --- |
| LIMITS OF USE | Rating | 300 lbs. |
| Temperature | 250 °C |
| Gauge Pressure | 20 bars |
| TEST | Body Test | 30 bars |
| Seat Test | 7 bars air under water |

|  |  |
| --- | --- |
| SERVICE FLUIDS | Saturated Steam, Pressured Hot water, Condensate |
| BODY | Straight – Stainless Steel, SS 304 |
| BONNET | Bolted – Stainless Steel SS 304 |
| CONNECTION | Raised Faced flange – “stock Finish” machining – machined bolt facings drilling as per ASME B 16.5 |
| OBUTRATOR | Piston for on / off working – Stainless Steel – Balanced Piston for ɸ > 50 |
| GUIDE STEM | Stainless Steel. |
| TIGHTNESS WASHERS | Material (without graphite) to be defined in accordance with above fluid |
| CONTROL | Hand wheel of plasticized cast iron |
| BOLTS & NUTS | Stainless Steel |
|  | Note: No part of copper metal |
| CONDITIONS | Normal Atmosphere |
| MAKE | BONETTI/Equivalent |

BILL OF QUANTITY

|  |  |  |  |
| --- | --- | --- | --- |
| Sr.No | Size | Qty (Nos.) | Remarks |
| 1. | DN 15 | 20 Nos. |  |
| 2. | DN 20 | 20 Nos. |  |
| 3. | DN 25 | 20 Nos. |  |
| 4. | DN 40 | 20 Nos. |  |