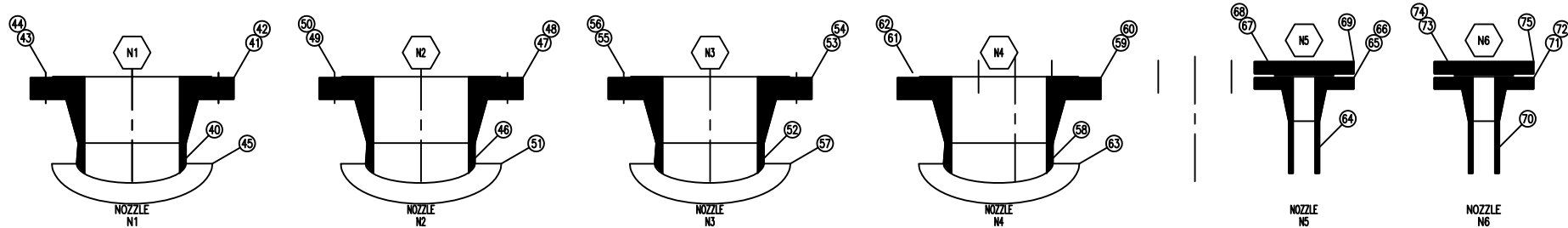
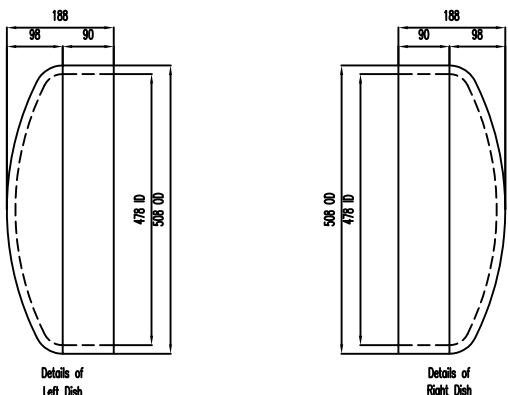
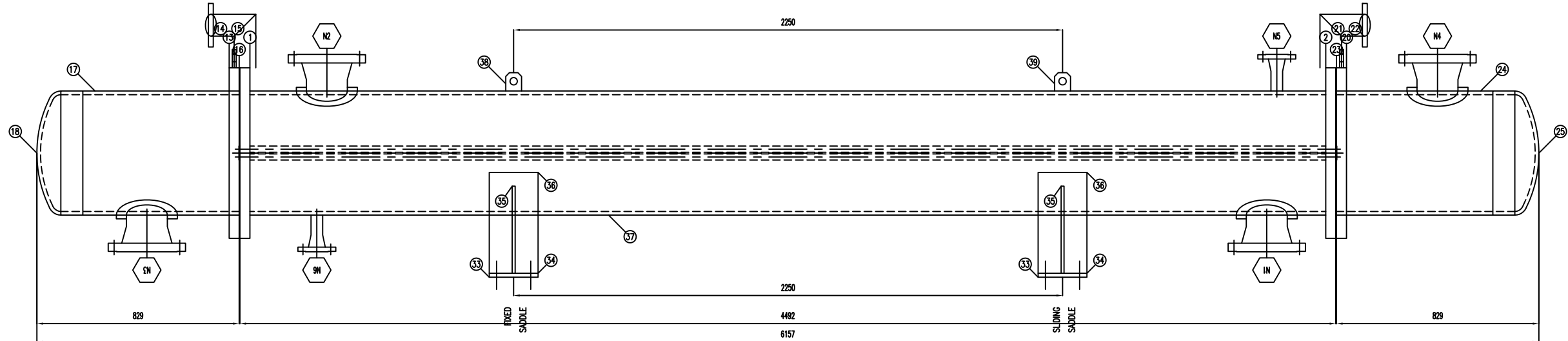






File: ht01m\_b90





|                                      |                 |
|--------------------------------------|-----------------|
| Drawing Data                         |                 |
| 1. Client Name                       | ABC ENGINEERS   |
| 2. Consultant                        | ABC CONSULTANTS |
| 3. Drawn by                          | SSD             |
| 4. Checked by                        | AWK             |
| 5. Approved by                       | AWK             |
| 6. Date                              | 27-06-2025      |
| 7. Drawing Number                    | HE-123          |
| 8. Drawing Path                      | h:\d1m          |
| 9. Project No                        | PROJECT 123     |
| 10. Equipment No                     | EQUIPT 123      |
| 11. Tag No                           | HE-123          |
| 12. Company Job No                   | XYZ 001         |
| 13. End User                         | ABC ENGINEERS   |
| 14. Revision No                      | 0               |
| 15. System of Drawing Units : Metric |                 |

|                                      |         |
|--------------------------------------|---------|
| *Tube Data                           |         |
| 1. Tube Diameter                     | :25     |
| 2. Number of Tubes                   | :100    |
| 3. Length of Tube                    | :4500   |
| 4. Tube Thickness DWG                | :16     |
| 5. Tube Thickness                    | :2      |
| 6. Distance of Tube Pitch            | :32     |
| 7. Number of passes                  | :1      |
| 8. Tube extension :                  | :4      |
| 9. Type of Pitch                     | :Square |
| Gasket Width for Fixed Tube Sheet    | :12     |
| Gasket Width for Floating Tube Sheet | :12     |

|                                  |              |
|----------------------------------|--------------|
| *Fixed Tube Sheet Data           |              |
| 1. Tube Sheet Type               | :With Flange |
| 2. Outer Tube Limit              | :384         |
| 3. PCD of Tube Sheet Flanges     | :635         |
| 4. OD of Left Tube Sheet         | :698         |
| 5. Thickness of Left Tube Sheet  | :41          |
| 6. OD of Right Tube Sheet        | :698         |
| 7. Thickness of Right Tube Sheet | :41          |

|                           |              |
|---------------------------|--------------|
| *Flanges Data             |              |
| 1. Head Type              | : Fixed Head |
| 2. OD of Fixed Flange     | :698         |
| 3. PCD of Fixed Flange    | :635         |
| 4. Type of Left Flange    | : Slip On    |
| 5. Number of Bolt Holes   | :20          |
| 6. Diameter of bolt holes | :31          |
| 7. Length of Stud Bolts   | :158         |
| 8. Diameter of stud bolts | :28          |
| 9. Type of Right Flange   | : Slip On    |

|                                |      |
|--------------------------------|------|
| *Shell Data                    |      |
| 1. Main Shell OD               | :508 |
| 2. Main Shell Thickness        | :15  |
| 3. Cap in Baffle OD & Shell ID | :50  |
| 4. Right Channel OD            | :508 |
| 5. Right Channel Thickness     | :15  |
| 6. Length of Right Channel     | :600 |
| 7. Left Channel OD             | :508 |
| 8. Left Channel Thickness      | :15  |
| 9. Length of Left Channel      | :600 |

|                            |      |
|----------------------------|------|
| *Baffle Data               |      |
| 1. Total Number of Baffles | :12  |
| 2. Cap of End Baffles      | :440 |
| 3. OD of Baffles           | :448 |

|                              |        |
|------------------------------|--------|
| *Top cut Baffle Data         |        |
| 1. Number of Baffles         | :5     |
| 2. Baffle Size % of Diameter | :75.00 |
| 3. Thickness of Baffles      | :6     |

|                              |        |
|------------------------------|--------|
| *Bottom cut Baffle Data      |        |
| 1. Number of Baffles         | :5     |
| 2. Baffle Size % of Diameter | :75.00 |
| 3. Thickness of Baffles      | :6     |

|                                        |        |
|----------------------------------------|--------|
| *Top / Bottom / Center cut Baffle Data |        |
| 1. Number of Baffle                    | :1     |
| 2. % Top cut                           | :10.00 |
| 3. % Bottom Cut                        | :10.00 |
| 4. Thickness of Baffles                | :6     |

|                         |       |
|-------------------------|-------|
| *Tie Rods Data          |       |
| 1. Number of Tie Rods   | :4    |
| 2. Diameter of Tie Rods | :15   |
| 3. Length of Tie Rods   | :4045 |

| WKK | QTY | NOZZLE           |      |     | FLANGE     |       |      | RF PNO |     |        | NOZZLE |    | WELD DET |  |
|-----|-----|------------------|------|-----|------------|-------|------|--------|-----|--------|--------|----|----------|--|
| No  | No  | SERVICE          | SIZE | SOH | TYPE       | CLASS | FACE | OD     | THK | LENGTH | TYPE   | A  | B        |  |
| N1  | 1   | SHELL INLET      | 150  | 80  | ASME B16.5 | 300   | WNRF | 250    | 15  | 150    | W2     | 15 | 15       |  |
| N2  | 1   | SHELL OUTLET     | 150  | 80  | ASME B16.5 | 300   | WNRF | 250    | 15  | 150    | W2     | 15 | 15       |  |
| N3  | 1   | CHANNEL INLET    | 150  | 80  | ASME B16.5 | 300   | WNRF | 250    | 15  | 150    | W2     | 15 | 15       |  |
| N4  | 1   | CHANNEL OUTLET   | 150  | 80  | ASME B16.5 | 300   | WNRF | 250    | 15  | 150    | W2     | 15 | 15       |  |
| N5  | 1   | SHELL VENT + RF  | 40   | 160 | ASME B16.5 | 300   | WNRF | 140    | 15  | 150    | W2     | 15 | 15       |  |
| N6  | 1   | SHELL DRAIN + RF | 40   | 160 | ASME B16.5 | 300   | WNRF | 300    | 15  | 150    | W2     | 15 | 15       |  |

|       |                        |                                |         |            |             | Total Weight | 2376.44 |
|-------|------------------------|--------------------------------|---------|------------|-------------|--------------|---------|
| 25    | Shell                  | Iron Nozzle Head Flange (N1)   | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 26    | Shell                  | Iron Nozzle Head Flange (N2)   | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 27    | Shell                  | Iron Nozzle Head Flange (N3)   | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 28    | Shell                  | Iron Nozzle Head Flange (N4)   | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 29    | Shell                  | Iron Nozzle Head Flange (N5)   | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 30    | Shell                  | Iron Nozzle Head Flange (N6)   | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 31    | Flange on Shell (N7)   | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 32    | Shell                  | Iron Nozzle Head Flange (N8)   | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 33    | Shell                  | Iron Nozzle Head Flange (N9)   | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 34    | Shell                  | Iron Nozzle Head Flange (N10)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 35    | Shell                  | Iron Nozzle Head Flange (N11)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 36    | Shell                  | Iron Nozzle Head Flange (N12)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 37    | Flange on Shell (N13)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 38    | Shell                  | Iron Nozzle Head Flange (N14)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 39    | Shell                  | Iron Nozzle Head Flange (N15)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 40    | Shell                  | Iron Nozzle Head Flange (N16)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 41    | Flange on Shell (N17)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 42    | Shell                  | Iron Nozzle Head Flange (N18)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 43    | Shell                  | Iron Nozzle Head Flange (N19)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 44    | Shell                  | Iron Nozzle Head Flange (N20)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 45    | Flange on Shell (N21)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 46    | Shell                  | Iron Nozzle Head Flange (N22)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 47    | Shell                  | Iron Nozzle Head Flange (N23)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 48    | Flange on Shell (N24)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 49    | Shell                  | Iron Nozzle Head Flange (N25)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 50    | Shell                  | Iron Nozzle Head Flange (N26)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 51    | Flange on Shell (N27)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 52    | Shell                  | Iron Nozzle Head Flange (N28)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 53    | Shell                  | Iron Nozzle Head Flange (N29)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 54    | Flange on Shell (N30)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 55    | Shell                  | Iron Nozzle Head Flange (N31)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 56    | Shell                  | Iron Nozzle Head Flange (N32)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 57    | Flange on Shell (N33)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 58    | Shell                  | Iron Nozzle Head Flange (N34)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 59    | Shell                  | Iron Nozzle Head Flange (N35)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 60    | Flange on Shell (N36)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 61    | Shell                  | Iron Nozzle Head Flange (N37)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 62    | Shell                  | Iron Nozzle Head Flange (N38)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 63    | Flange on Shell (N39)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 64    | Shell                  | Iron Nozzle Head Flange (N40)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 65    | Shell                  | Iron Nozzle Head Flange (N41)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 66    | Flange on Shell (N42)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 67    | Shell                  | Iron Nozzle Head Flange (N43)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 68    | Shell                  | Iron Nozzle Head Flange (N44)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 69    | Flange on Shell (N45)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 70    | Shell                  | Iron Nozzle Head Flange (N46)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 71    | Shell                  | Iron Nozzle Head Flange (N47)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 72    | Flange on Shell (N48)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 73    | Shell                  | Iron Nozzle Head Flange (N49)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 74    | Shell                  | Iron Nozzle Head Flange (N50)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 75    | Flange on Shell (N51)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 76    | Shell                  | Iron Nozzle Head Flange (N52)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 77    | Shell                  | Iron Nozzle Head Flange (N53)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 78    | Flange on Shell (N54)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 79    | Shell                  | Iron Nozzle Head Flange (N55)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 80    | Shell                  | Iron Nozzle Head Flange (N56)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 81    | Flange on Shell (N57)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 82    | Shell                  | Iron Nozzle Head Flange (N58)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 83    | Shell                  | Iron Nozzle Head Flange (N59)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 84    | Flange on Shell (N60)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 85    | Shell                  | Iron Nozzle Head Flange (N61)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 86    | Shell                  | Iron Nozzle Head Flange (N62)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 87    | Flange on Shell (N63)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 88    | Shell                  | Iron Nozzle Head Flange (N64)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 89    | Shell                  | Iron Nozzle Head Flange (N65)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 90    | Flange on Shell (N66)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 91    | Shell                  | Iron Nozzle Head Flange (N67)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 92    | Shell                  | Iron Nozzle Head Flange (N68)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 93    | Flange on Shell (N69)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 94    | Shell                  | Iron Nozzle Head Flange (N70)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 95    | Shell                  | Iron Nozzle Head Flange (N71)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 96    | Flange on Shell (N72)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 97    | Shell                  | Iron Nozzle Head Flange (N73)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 98    | Shell                  | Iron Nozzle Head Flange (N74)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 99    | Flange on Shell (N75)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 100   | Shell                  | Iron Nozzle Head Flange (N76)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 101   | Shell                  | Iron Nozzle Head Flange (N77)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 102   | Flange on Shell (N78)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 103   | Shell                  | Iron Nozzle Head Flange (N79)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 104   | Shell                  | Iron Nozzle Head Flange (N80)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 105   | Flange on Shell (N81)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 106   | Shell                  | Iron Nozzle Head Flange (N82)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 107   | Shell                  | Iron Nozzle Head Flange (N83)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 108   | Flange on Shell (N84)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 109   | Shell                  | Iron Nozzle Head Flange (N85)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 110   | Shell                  | Iron Nozzle Head Flange (N86)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 111   | Flange on Shell (N87)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 112   | Shell                  | Iron Nozzle Head Flange (N88)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 113   | Shell                  | Iron Nozzle Head Flange (N89)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 114   | Flange on Shell (N90)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 115   | Shell                  | Iron Nozzle Head Flange (N91)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 116   | Shell                  | Iron Nozzle Head Flange (N92)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 117   | Flange on Shell (N93)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 118   | Shell                  | Iron Nozzle Head Flange (N94)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 119   | Shell                  | Iron Nozzle Head Flange (N95)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 120   | Flange on Shell (N96)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 121   | Shell                  | Iron Nozzle Head Flange (N97)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 122   | Shell                  | Iron Nozzle Head Flange (N98)  | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 123   | Flange on Shell (N99)  | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 124   | Shell                  | Iron Nozzle Head Flange (N100) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 125   | Shell                  | Iron Nozzle Head Flange (N101) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 126   | Flange on Shell (N102) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 127   | Shell                  | Iron Nozzle Head Flange (N103) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 128   | Shell                  | Iron Nozzle Head Flange (N104) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 129   | Flange on Shell (N105) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 130   | Shell                  | Iron Nozzle Head Flange (N106) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 131   | Shell                  | Iron Nozzle Head Flange (N107) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 132   | Flange on Shell (N108) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 133   | Shell                  | Iron Nozzle Head Flange (N109) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 134   | Shell                  | Iron Nozzle Head Flange (N110) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 135   | Flange on Shell (N111) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 136   | Shell                  | Iron Nozzle Head Flange (N112) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 137   | Shell                  | Iron Nozzle Head Flange (N113) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 138   | Flange on Shell (N114) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 139   | Shell                  | Iron Nozzle Head Flange (N115) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 140   | Shell                  | Iron Nozzle Head Flange (N116) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 141   | Flange on Shell (N117) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 142   | Shell                  | Iron Nozzle Head Flange (N118) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 143   | Shell                  | Iron Nozzle Head Flange (N119) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 144   | Flange on Shell (N120) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 145   | Shell                  | Iron Nozzle Head Flange (N121) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 146   | Shell                  | Iron Nozzle Head Flange (N122) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 147   | Flange on Shell (N123) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 148   | Shell                  | Iron Nozzle Head Flange (N124) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 149   | Flange on Shell (N125) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 150   | Shell                  | Iron Nozzle Head Flange (N126) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 151   | Shell                  | Iron Nozzle Head Flange (N127) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 152   | Flange on Shell (N128) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 153   | Shell                  | Iron Nozzle Head Flange (N129) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 154   | Shell                  | Iron Nozzle Head Flange (N130) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 155   | Flange on Shell (N131) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 156   | Shell                  | Iron Nozzle Head Flange (N132) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 157   | Shell                  | Iron Nozzle Head Flange (N133) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 158   | Flange on Shell (N134) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 159   | Shell                  | Iron Nozzle Head Flange (N135) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 160   | Shell                  | Iron Nozzle Head Flange (N136) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 161   | Flange on Shell (N137) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 162   | Shell                  | Iron Nozzle Head Flange (N138) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 163   | Shell                  | Iron Nozzle Head Flange (N139) | 1       | CSA 105    | 150X150X10  | 1550X150X10  | 23.76   |
| 164   | Flange on Shell (N140) | 1                              | CSA 105 | 150X150X10 | 1550X150X10 | 23.76        |         |
| 165</ |                        |                                |         |            |             |              |         |