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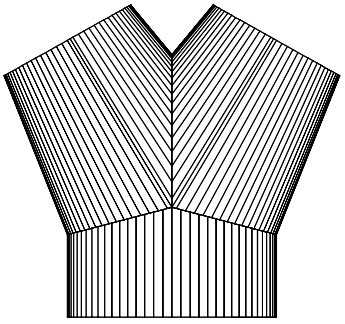
Ref: 9900-1-M3FS17

FastSHAPES® - BIFURCATE 32Bit

TYPICAL APPLICATIONS

Fluids conveying, generally.



TECHNICAL DESCRIPTION

BIFURC8 provides patterns for the developed plates used in smaller scale bifurcations where typically plate thickness' do not vary throughout the structure, but are still significant. Plate development needs to consider the various welding details and edge preparations required for economical plate cutting and fabrication.

The structure is set out using the method of common central spheres. Development uses the radial line method.

Weld preparations may be specified at all joints, and patterns provide for marking intersection lines at weld prep. depth, inside surface intersections, and outside surface intersections. The purpose of such marking is to facilitate preparation for welding, frequently undertaken as a secondary operation.

Each of the three branches exist as a simple cone, and may be developed in up to 4 segments.

Green may be added to any or all edges of each individual segment.

Patterns may be arranged to defer cutting until after rolling when the development involves significant variation in plate width for rolling.

Patterns include marking of rolling guides (generators) and constant curvature lines.

Match marks for inside and outside of bend, and top & bottom dead centre.

Continued…

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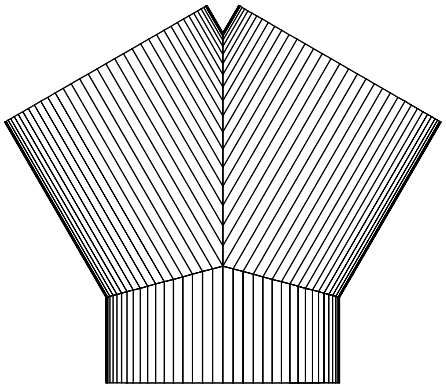
DATA REQUIREMENTS

Branch Diameters, Angles, Lengths
Common Central Sphere Diameter (internal)
Material, Thickness
Segment (longitudinal joint) locations
Green to be added to longitudinal joint edges for each segment in the section
Green to be added to circumferential joint edge 1
Green to be added to circumferential joint edge 2
Weld details



OUTPUT

Patterns in any of the following forms ...
FastCAM file
2D DXF file, 3D DXF File
NC Program
Coordinate Table

PROGRAM REFERENCE

M3FS17 : BIFURC8

OTHER REFERENCES

M3FS6 : PBRANCH (Pipe Branch)
M3FS15 : CBRANCH (Conical Branches from a Conical Body)
M3FS18 : BIFURC8PLUS (Generalized Bifurcations, with stiffeners)

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