BDSBeamPipeFactoryBase

lengthSafety
checkOverlaps
maxStepFactor
nSegmentsPerCircle
vacuumSolid
beamPipeSolid
containerSolid
containerSubtractionSolid
vacuumLV
beamPipeLV
containerLV

+ CreateBeamPipe()
+ CreateBeamPipeAngledIn()
+ CreateBeamPipeAngledOut()
+ CreateBeamPipeAngledInOut()
# BDSBeamPipeFactoryBase()
# CleanUp()
# CommonConstruction()
# BuildBeamPipeAndRegisterVolumes()
# CalculateFaces()
# TestInputParameters()
# BuildLogicalVolumes()
# SetVisAttributes()
# SetUserLimits()
# PlaceComponents()

BDSBeamPipeFactoryLHCDetailed

− copperSkinSolid
− screenSolid
− coolingPipeSolid
− copperSkinLV
− screenLV
− coolingPipeLV
− coldBoreThickness
− coolingPipeThickness
− coolingPipeRadius
− copperSkinThickness
− vacRadius
− vacBoxX
− vacBoxY
− cuInnerRadius
− cuInnerBoxX
− cuInnerBoxY
− cuOuterRadius
− cuOuterBoxX
− cuOuterBoxY
− bsInnerRadius
− bsInnerBoxX
− bsInnerBoxY
− bsOuterRadius
− bsOuterBoxX
− bsOuterBoxY
− cbInnerRadius
− cbOuterRadius
− containerRadius
− vacHalfLength
− halfLength
− coolingPipeYOffset
− _instance

+ ~BDSBeamPipeFactoryLHCDetailed()
+ GetFullWidthOfCoolingPipe()
+ CleanUp()
+ CreateBeamPipe()
+ CreateBeamPipeAngledInOut()
+ Instance()
− BDSBeamPipeFactoryLHCDetailed()
− TestInputParameters()
− CommonFinalConstruction()
− CreateGeneralAngledSolids()
− BuildLogicalVolumes()
− SetVisAttributes()
− SetUserLimits()
− PlaceComponents()
− InitialiseGeometricalParameters()
− CalculateGeometricalParameters()