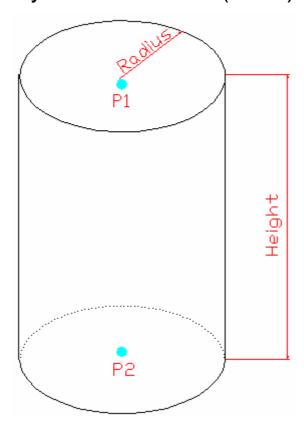
#### PW(PlantWAVE)

- 1. Pipe
- 2. Cylinder Element
- 3. Cone Element
- 4. Elbow
- 5. Tee
- 6. Flange
- 7. Box
- 8. Dome
- 9. Tetra
- 10. circular torus element
- 11. rectangular torus element
- 12. sphere
- 13. face element
- 14. mesh element
- 15. line element
- 16. hline element

# 1. Pipe<PIPE>

가

# 2. Cylinder Element(CYLI)



## Attributes:

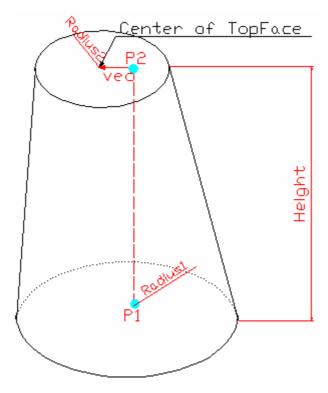
PT1 : 가

PT2 : "

Radius :

Height :

# 3. Cone Element(CONE)



#### Attributes:

P1 :

P2 :

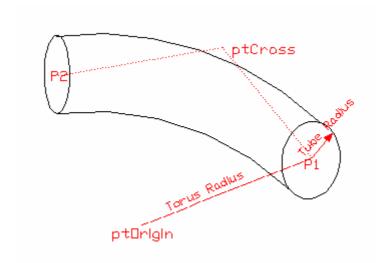
Vec : = P2 + Vec

Radius1 :

Radius2 :

Height :

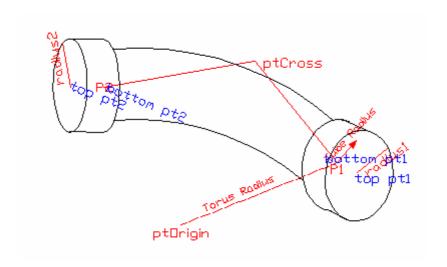
## 4. Elbow<ELBO>



#### Attributes:

ptOrigin : Elbow
P1 : Elbow
P2 : Elbow
ptCross : Elbow

Torus Radius: Tube Radius:



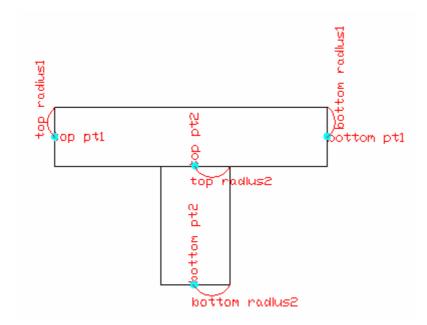
#### Desc:

#### Attributes:

ptOrigin , P1 , P2 , ptCross , Torus Radius , Tube Radius

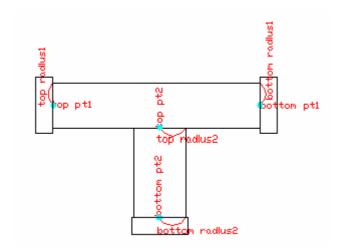
radius1 Pipe : Elbow Pipe top pt1 : Elbow bottom pt1 : Elbow Pipe Pipe radius2 : Elbow Pipe top pt2 : Elbow bottom pt2 : Elbow Pipe

## 5. TEE <TEE>



## Attributes:

top radius1	: TEE	Pipe
top pt1	: TEE	Pipe
bottom radius1	: TEE	Pipe
bottom pt1	: TEE	Pipe
top radius2	: TEE	Pipe
top pt2	: TEE	Pipe
bottom radius2	: TEE	Pipe
bottom pt2	: TEE	Pipe



#### Desc:

TEE, Pipe

### **Attributes:**

top radius1 ~ top radius5 : Pipe

top pt1 ~ top pt5 : Pipe bottom radius1 ~ bottom radius5 : Pipe

bottom pt1 ~ bottom pt5 : Pipe

# 6. Flange <FLAN>

## Desc:

가 .

## **Attributes:**

radius : P1 : P2 :

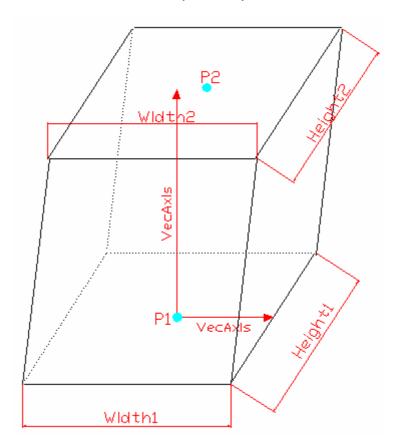
### Desc:

가 .

#### **Attributes:**

radius1 :
P1 :
P2 :
radius2 :
P3 :
P4 :

# 7. BOX Element(BOX)



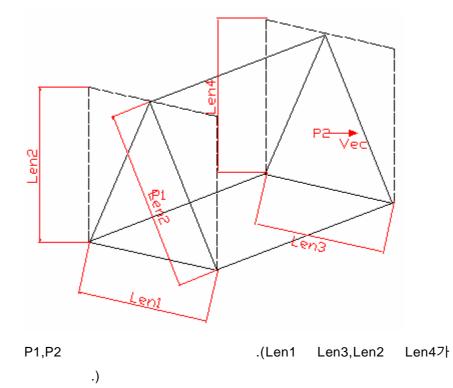
## **Attributes:**

P1 : Box P2 : Box

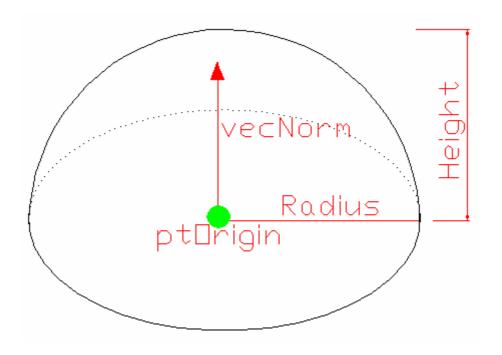
WIDTH1: P1 vec
HEIGHT1: P1 vec
WIDTH2: P2 vec
HEIGHT2: P2 vec

VecAxis : Width1 Width2가 가

VecNorm : P1,P2가



## 8. Dome Element <DOME>

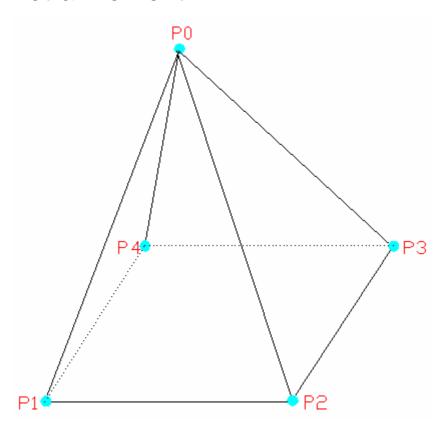


## Attributes:

PtOrigin : Radius : Height :

VecNorm : DOME

## 9. Tetra Element <TETRA>



## **Attributes:**

P0 :

P1 :

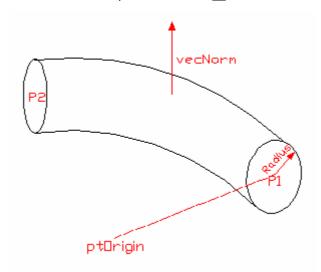
P2 :

P3 :

P4 :

<BOX>

# 10. Circular Torus Element <CTOR>,<TORS\_EQP>



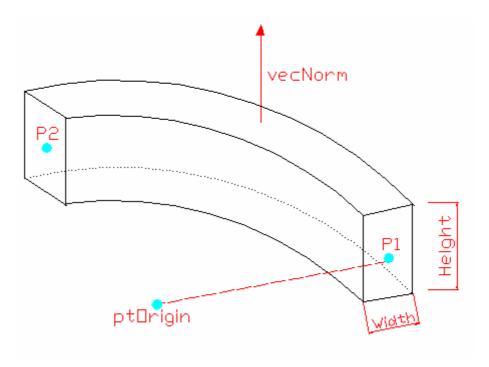
### **Attributes:**

PtOrigin : P1 : P2 :

Radius :

VecNorm : 가

# 11. Rectangular Torus Element <RTOR>

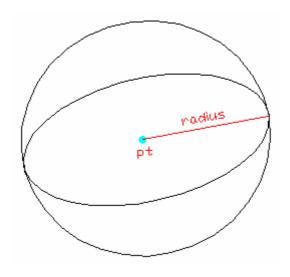


#### **Attributes:**

PtOrigin :
P1 :
P2 :
Width :
Height :

VecNorm : 가

# 12. Sphere <SPHERE>

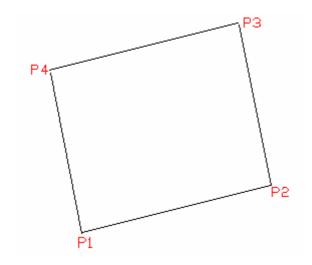


## Attributes:

pt :

radius :

# 13. Face Element <3D\_FACE>



## Attributes:

Pn : ...

## 14. MESH Element

# <MESH>,<MESH\_FACE>

	0	1	2
12			
	3	4	5
13	16	19	22
	6	7	8
14			
	,		

0	1	2
3	4	5
6	7	8

# 15. LINE Element <LINE>,LINE

### Desc:

group 가 line .

### **Attributes:**

group : line

pt1 : line pt2 : line

# 16. HLINE Element <LINE>,LINE

### Desc:

group 가 line .

line 가 .

#### **Attributes:**

group : line

pt1 : line pt2 : line visible : line