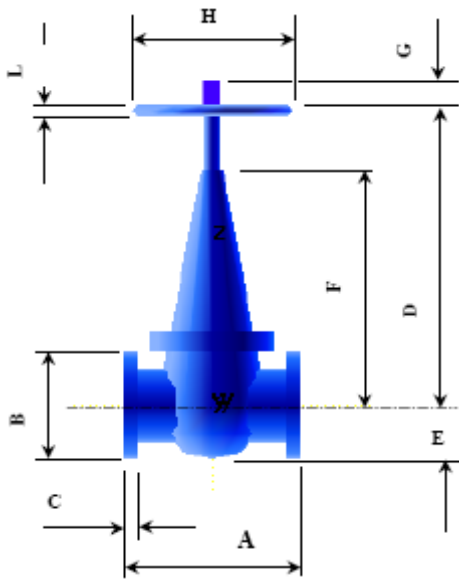


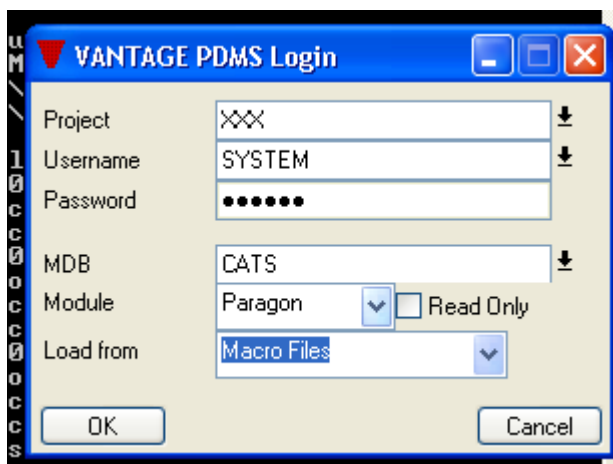
## MODELLING GLOBE VALVE

Nom Size	A	B	C	D	E	F	G	H	L
100	480	250	32	875	140	675	50	360	30
150	520	318	37	900	175	700	55	370	34
200	560	381	42	925	200	725	60	380	38

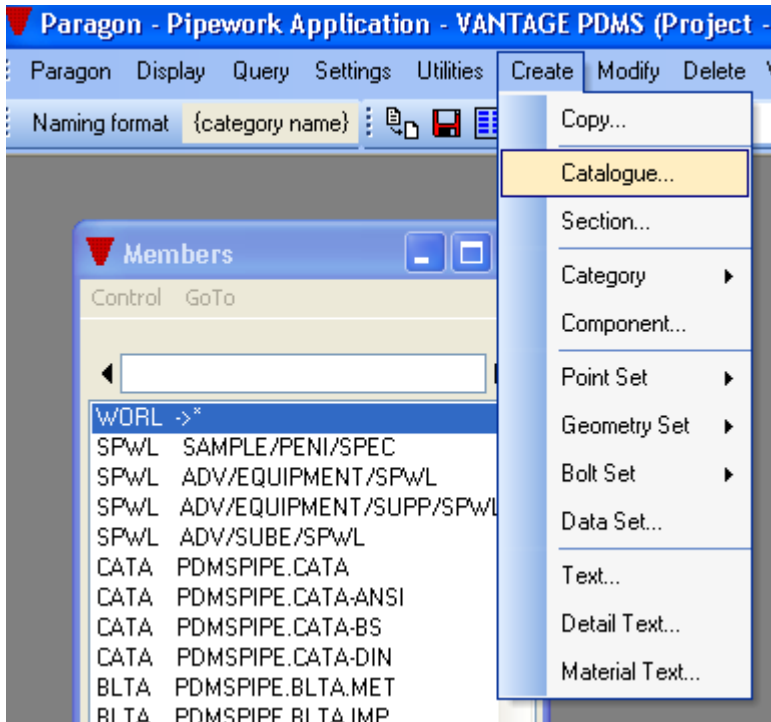


GLOBE VALVE 300#

PARA 1=NOM SIZE    DN                      100  
 PARA 2=CONNECTION                      FBB  
 PARA 3= A (LENGTH)                      480  
 PARA 4= B (FLG DIAM)                      254  
 PARA 5= C (FLG THK)                      32  
 PARA 6= D (HEIGTH)                      875



Paragon<Pipework

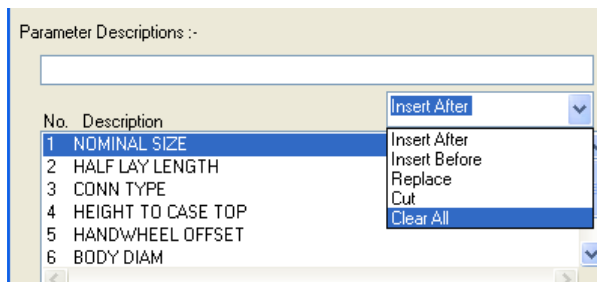


Create<Section.

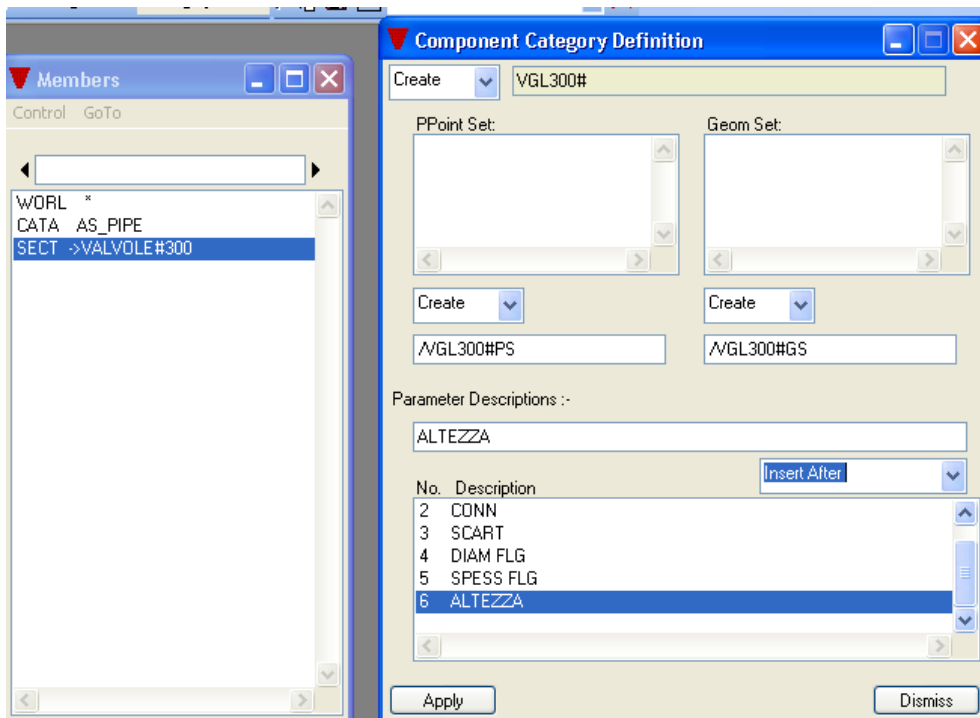
VALVES

Create<Category<For components

VGL300#



If there's something writed , first clear all.



Fill as indicated.

First fill the name of Ppoint Set :  
/VGL300#PS

Then fill the name of Geom Set:  
/VGL300#GS

Fill the “parameter Description” as indicated above and click in “insert after” everytime , at the end the description appear under “Description”

APPLY<DISMISS

Create<component

Fill as indicated below

**Piping Component**

Create  COMP /VGL300#100

Under CATE /VGL300#

References:

PPoint Set VGL300#PS

Geom Set VGL300#GS

Bolt Sets...

Add Parameter...

Apply Dismiss

Generic type:

Trap

Implied Tube

Valve

Vent

**Parameter Setting**

DN 100

CONN FBB

SCART 480

DIAM FLG 254

SPESS FLG 32

ALTEZZA 875

**Members**

Control GoTo

WORL \*

CATA AS\_PIPE

SECT VALVOLE#300

CATE ->VGL300#

TEXT VGL300#-PA1

TEXT VGL300#-PA2

TEXT VGL300#-PA3

TEXT VGL300#-PA4

TEXT VGL300#-PA5

TEXT VGL300#-PA6

TEXT VGL300#-PTSE

TEXT VGL300#-GMSE

GMSE VGL300#GS

PTSE VGL300#PS

APPLY<DISMISS

In the Members form select the SCOM just created.

Display<components

**Piping Components**

☐ Plines ☐ Pkeys ☒ Ppoints ☒ Axes

References:

VALV COM /VGL300#100

Owner /VGL300#

Ptref /VGL300#PS

Gmref /VGL300#GS

Dtref NullRef

Blrfarray NullRef

Parameter Definitions:

Number	Data	Description
1	100	DN
2	FBB	CONN
3	480	SCART
4	254	DIAM FLG
5	32	SPESS FLG
6	875	ALTEZZA

**Members**

Control GoTo

WORL \*

CATA AS\_PIPE

SECT VALVOLE#300

CATE ->VGL300#

SCOM VGL300#100

TEXT VGL300#-PA1

TEXT VGL300#-PA2

TEXT VGL300#-PA3

TEXT VGL300#-PA4

TEXT VGL300#-PA5

TEXT VGL300#-PA6

TEXT VGL300#-PTSE

TEXT VGL300#-GMSE

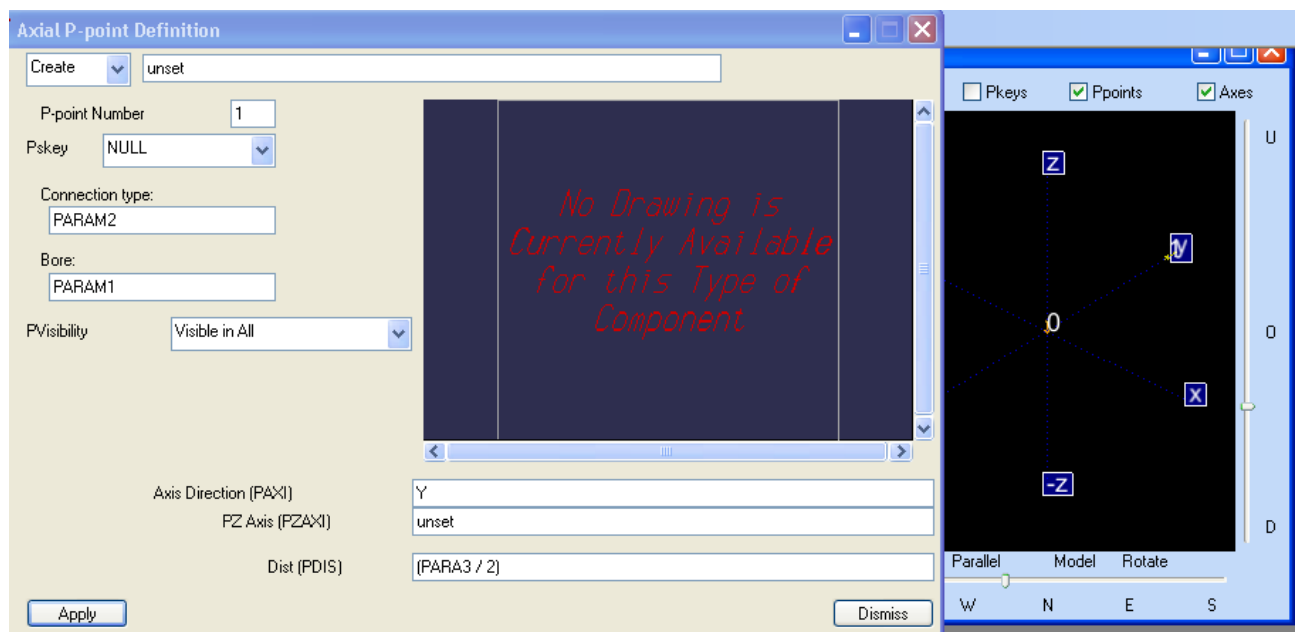
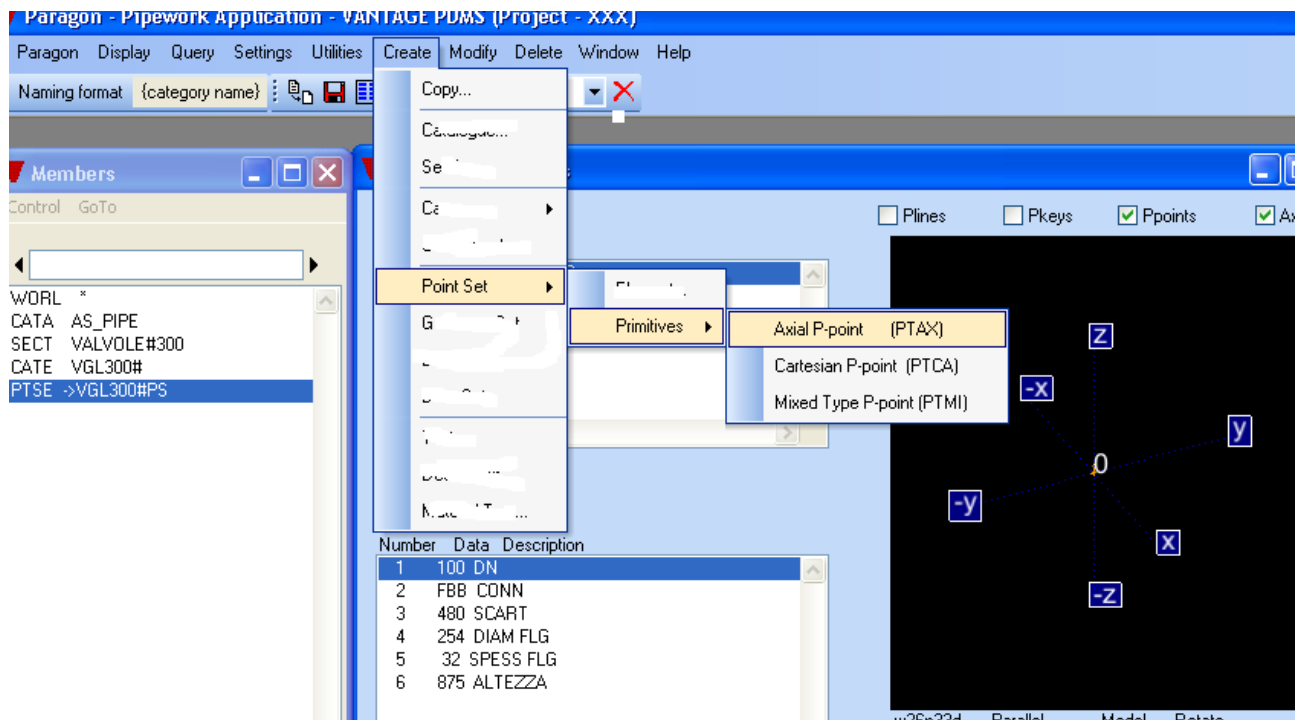
GMSE VGL300#GS

PTSE VGL300#PS

3D View: w26n33d Parallel Model Rotate S W N E S

Now we'll go to create the Ppoints.

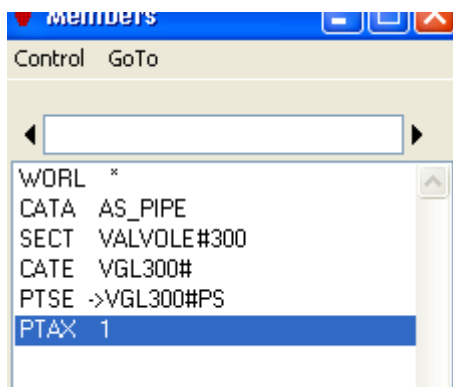
P1



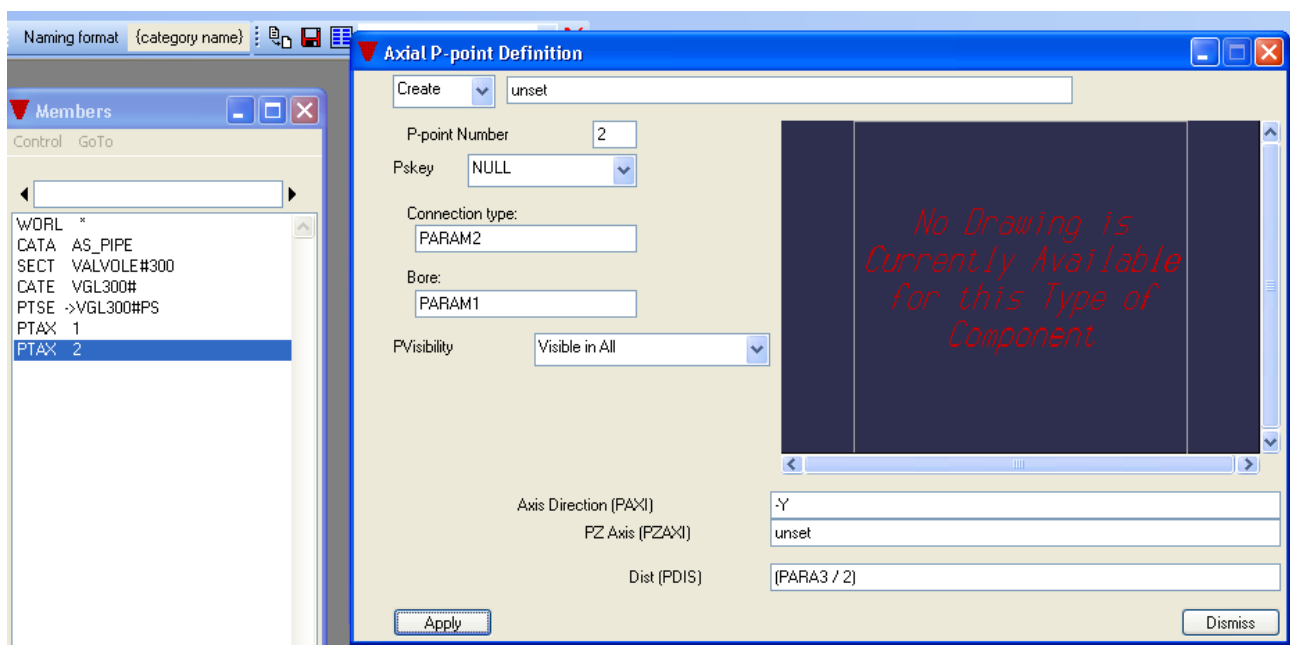
If there's an operation it must be between brackets

APPLY

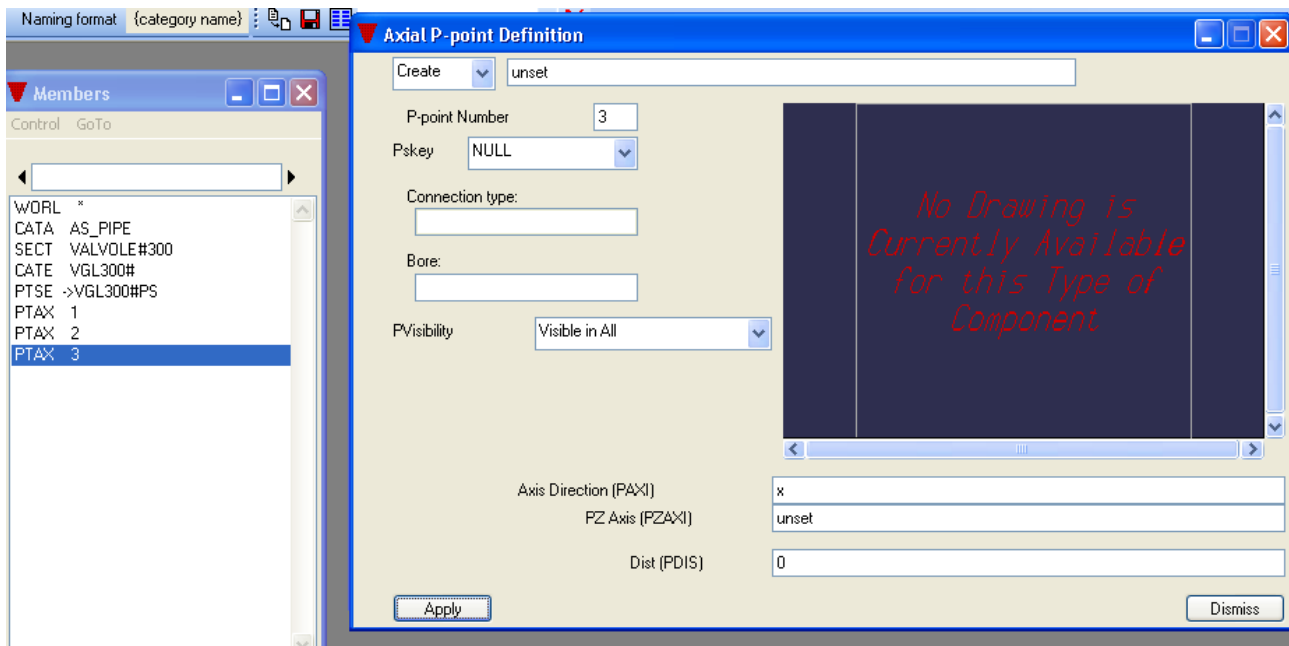
Now the first Ppoint is created



Now the P2



Now the P3 for round around the axis

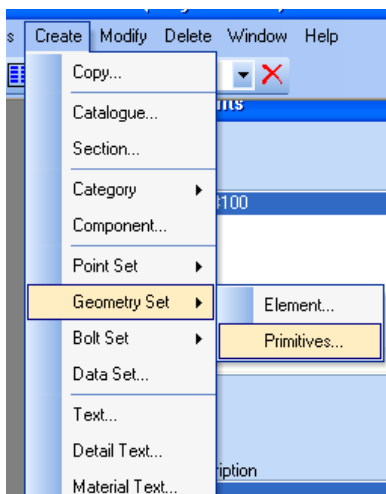
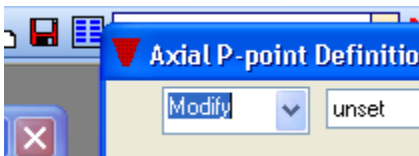


PAXI= X because must be perpendicular

PDIS=0 matching with origin or P0

Nor Connection Type neither Bore

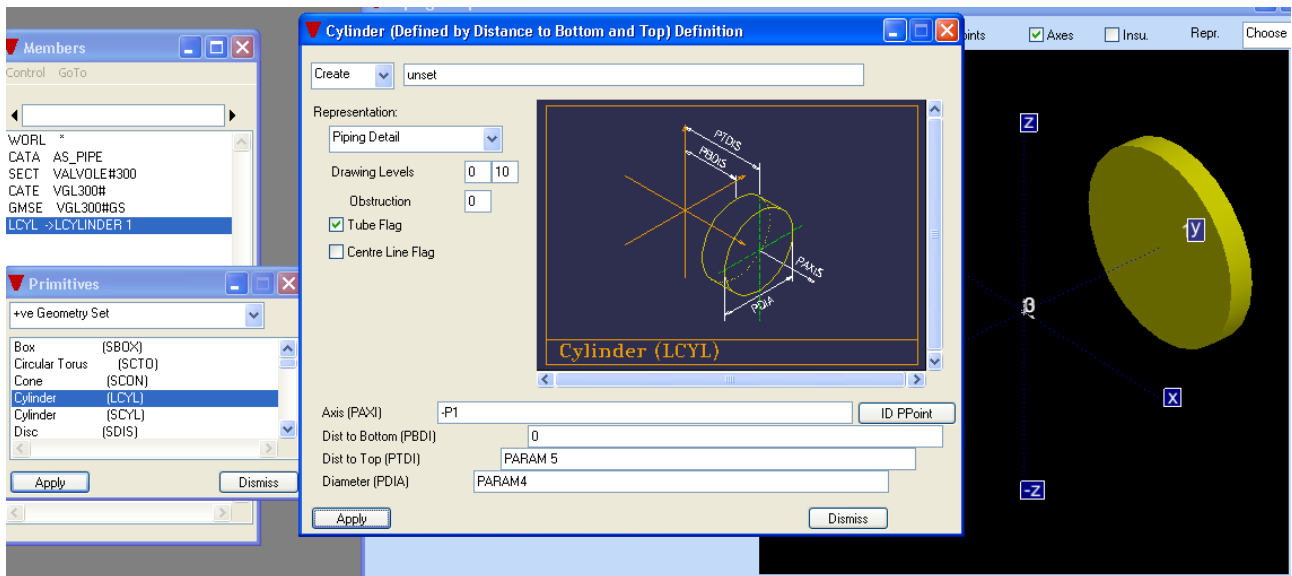
If it's necessary to modify a Ppoint, select the PTAX and select Modify instead of Create



Now it's necessary to define the Geometry

Select the GMSE /VGL300#GS

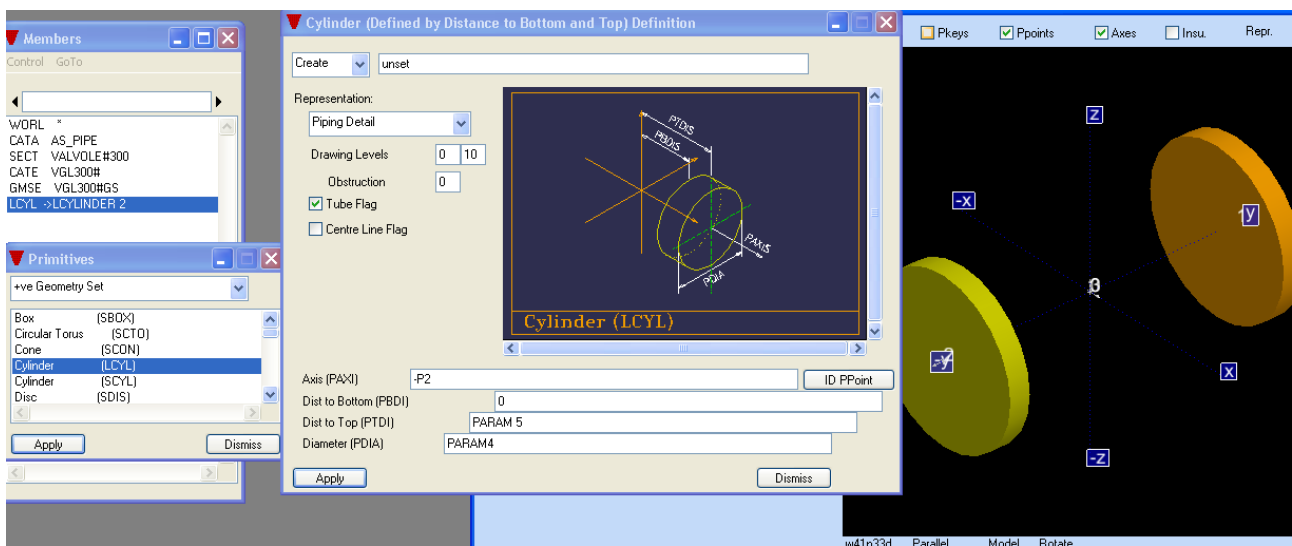
Cylinder (LCYL)



APPLY

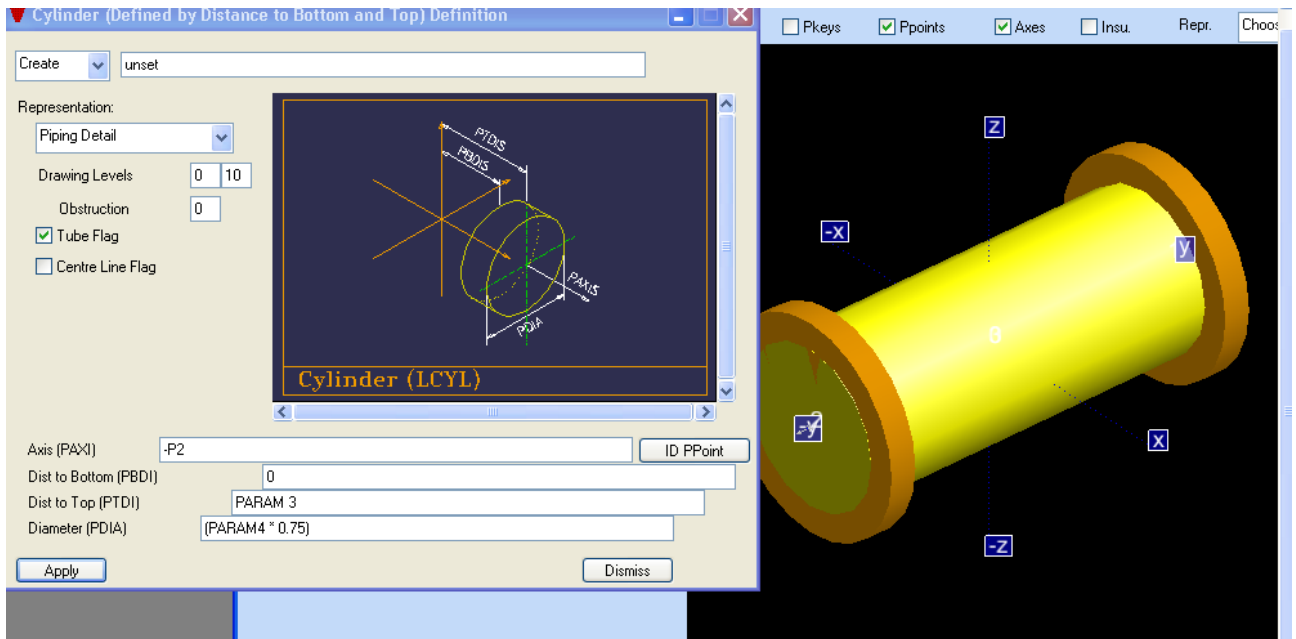
We've created the flange

Now the other flange

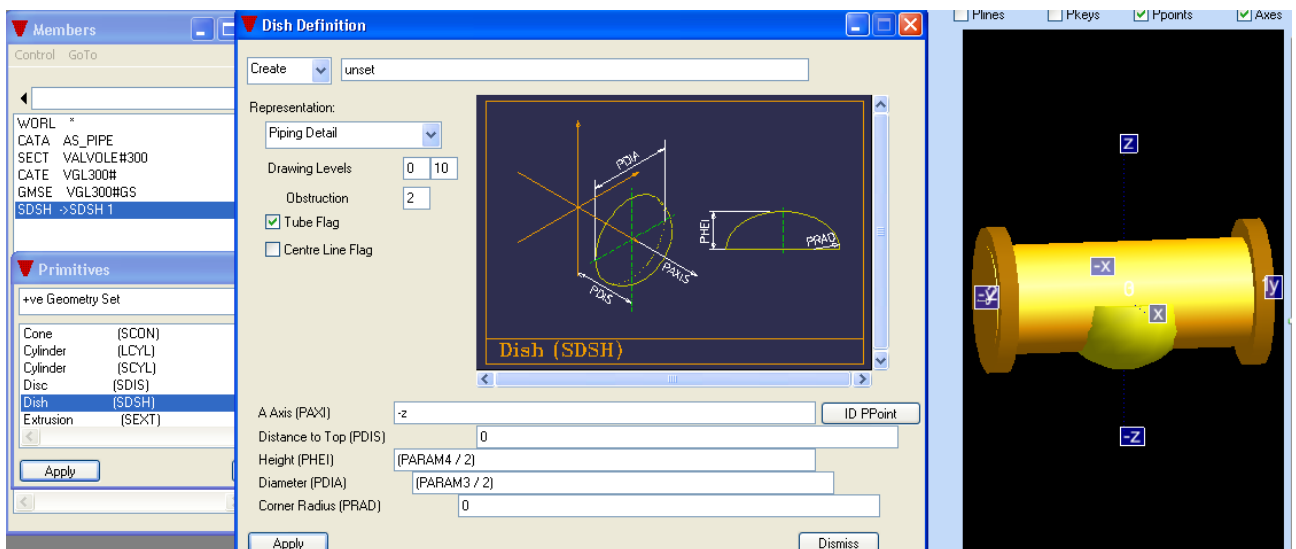


Now we'll create the body of valve.

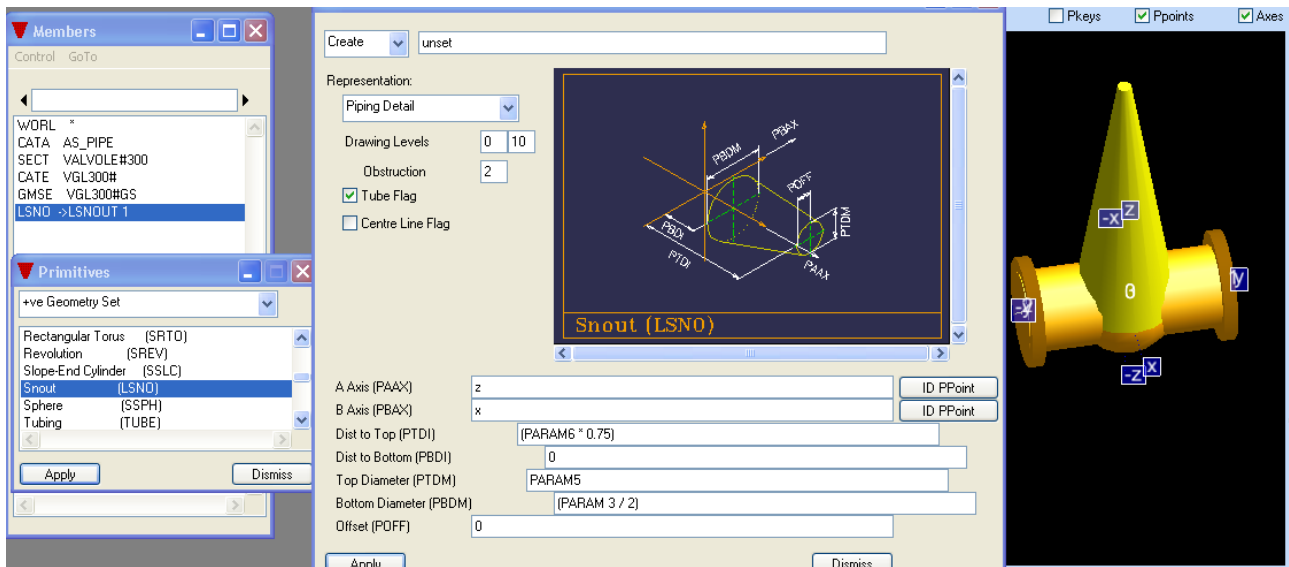
The cilinder it's created from the P1



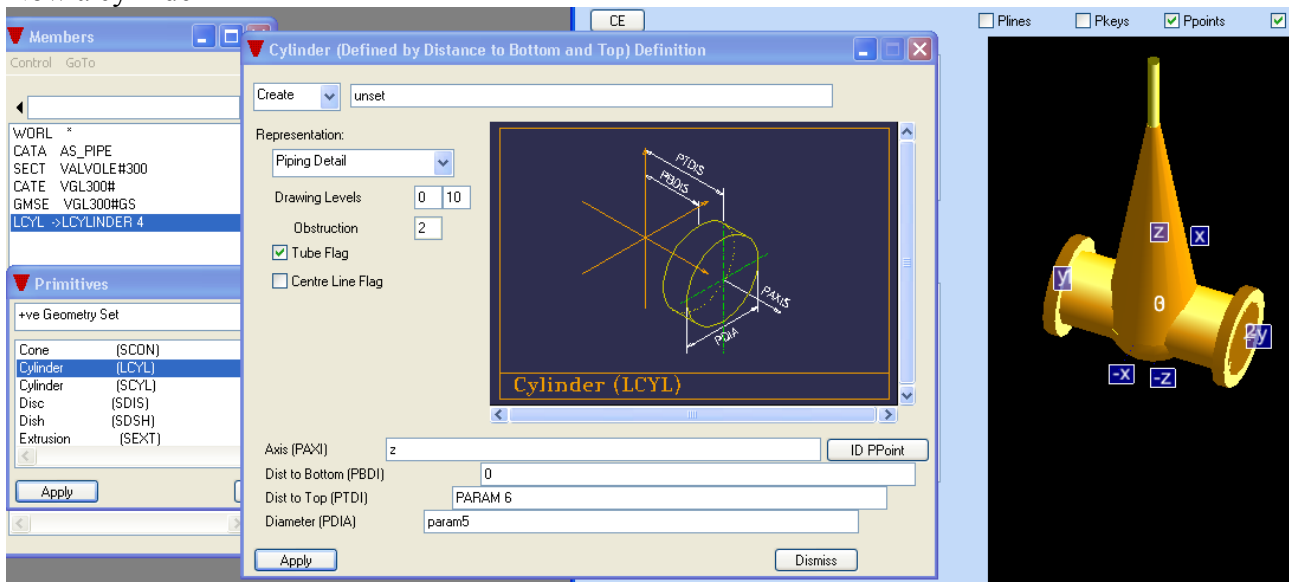
Now it's created the bottom of valve



Now a SNOUT



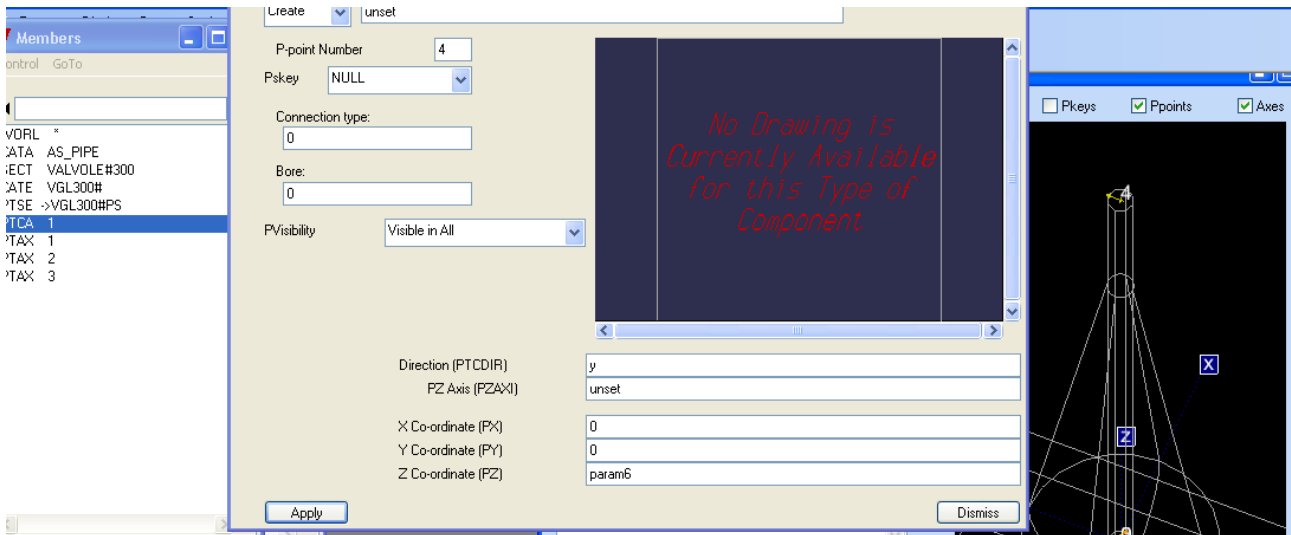
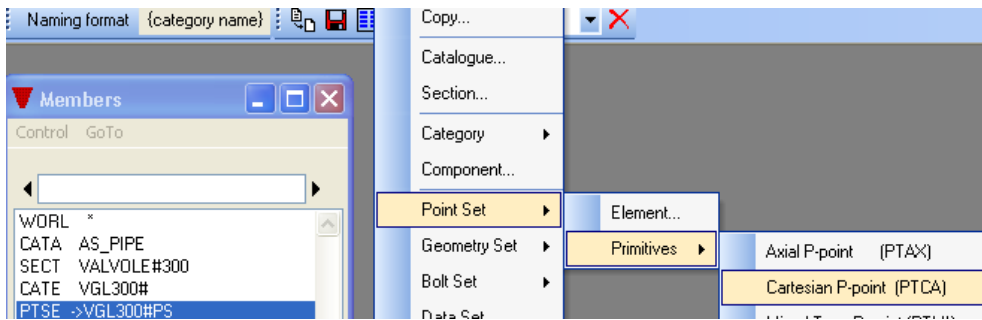
Now a cylinder



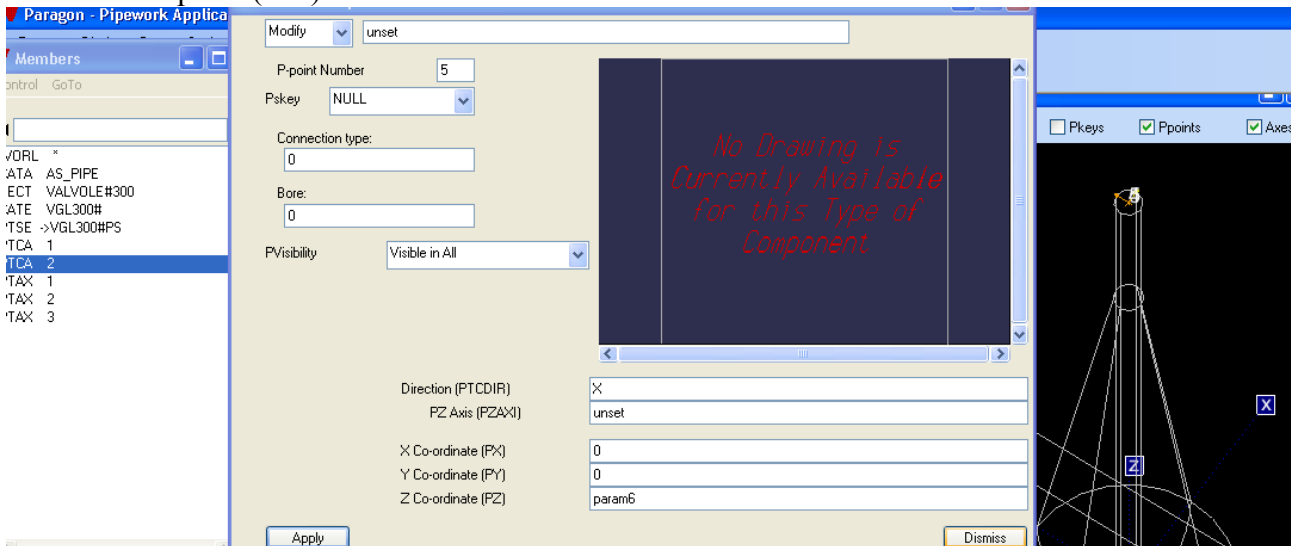
Now the handwheel

For create the hadnwheel it's necessary to create a new Ppoint (P4),

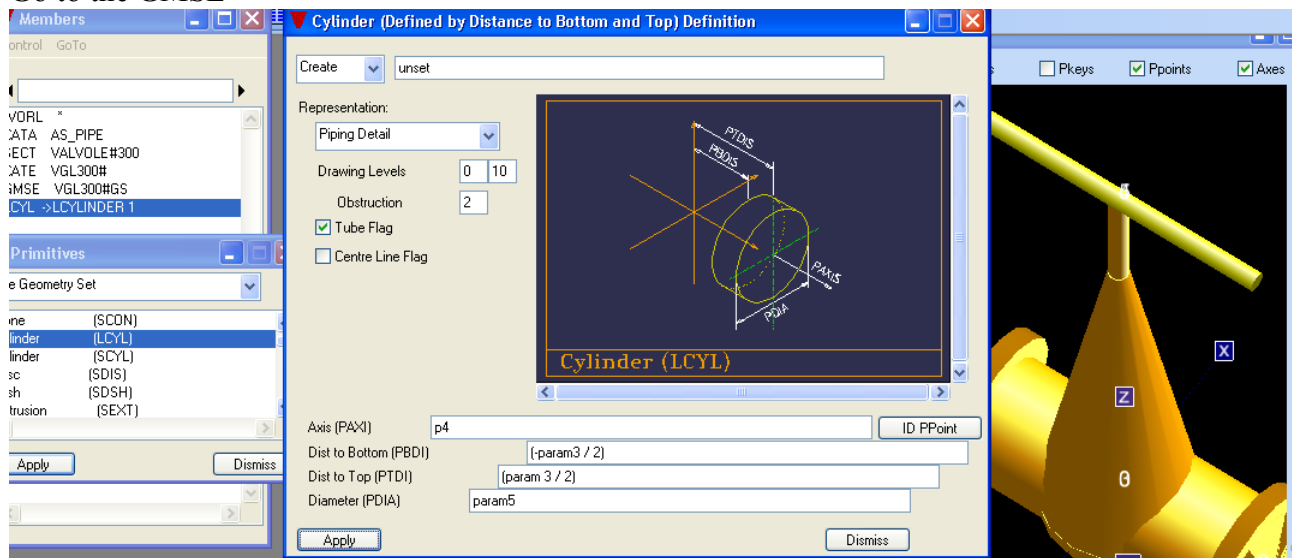
Select the PTSE /VGL300#PS



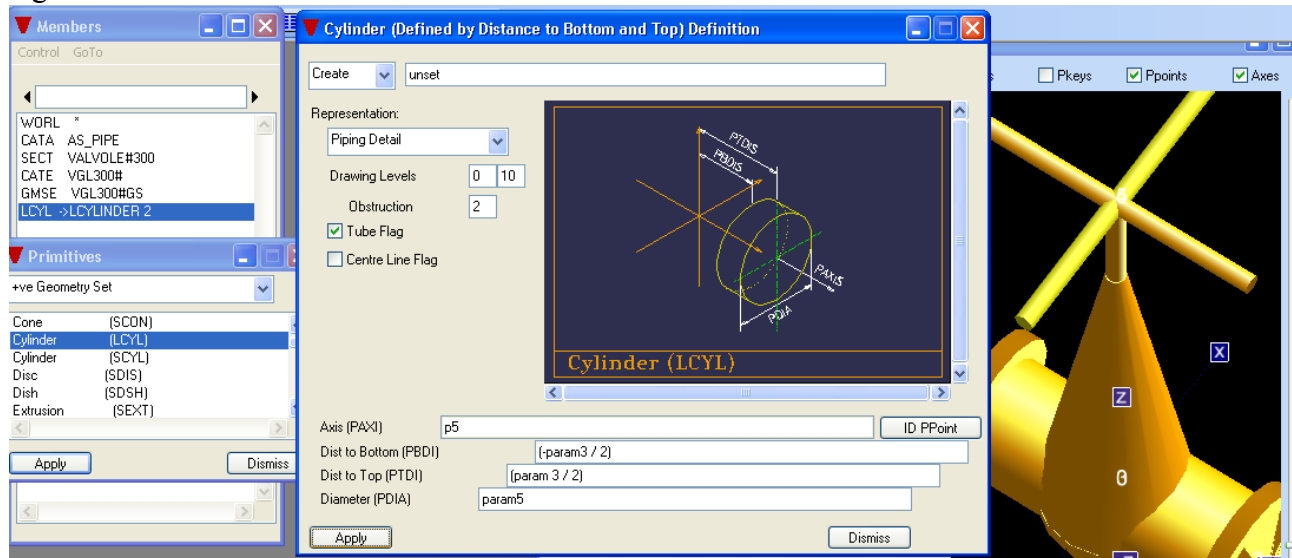
Now a new Ppoint ( P5 )



Now the hadwheel  
Go to the GMSE

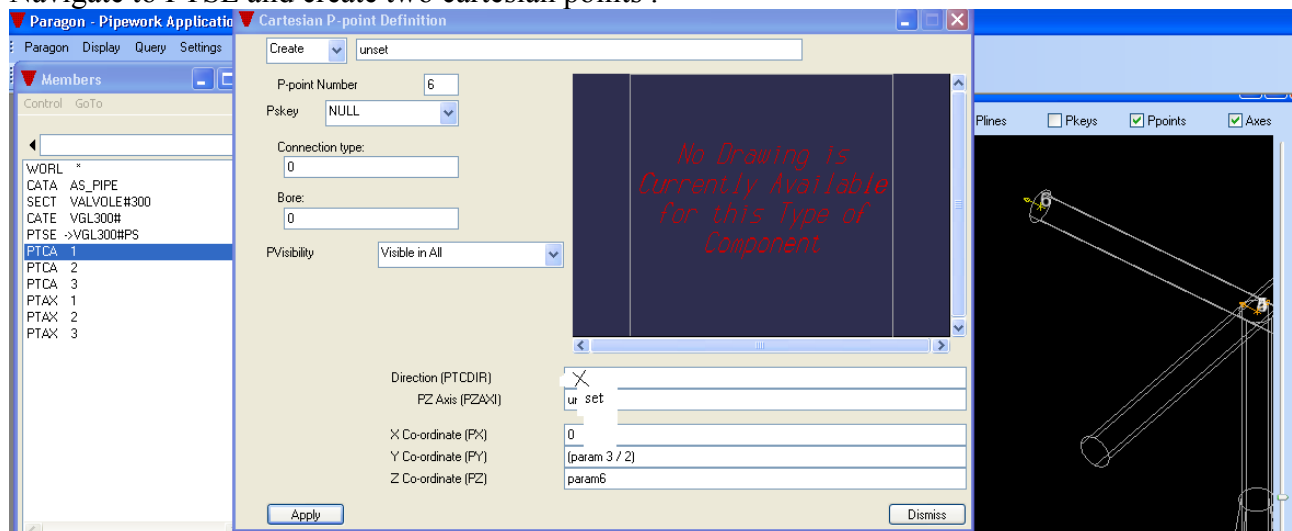


Again the other axis

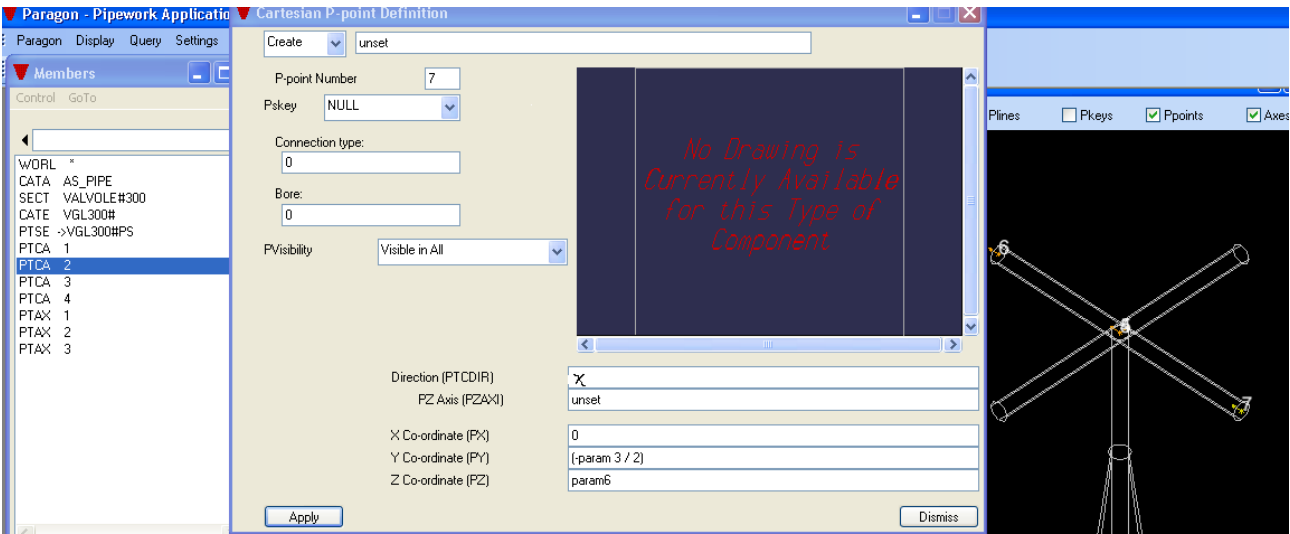


For the circles of the hadwheel use 2 circular torus.

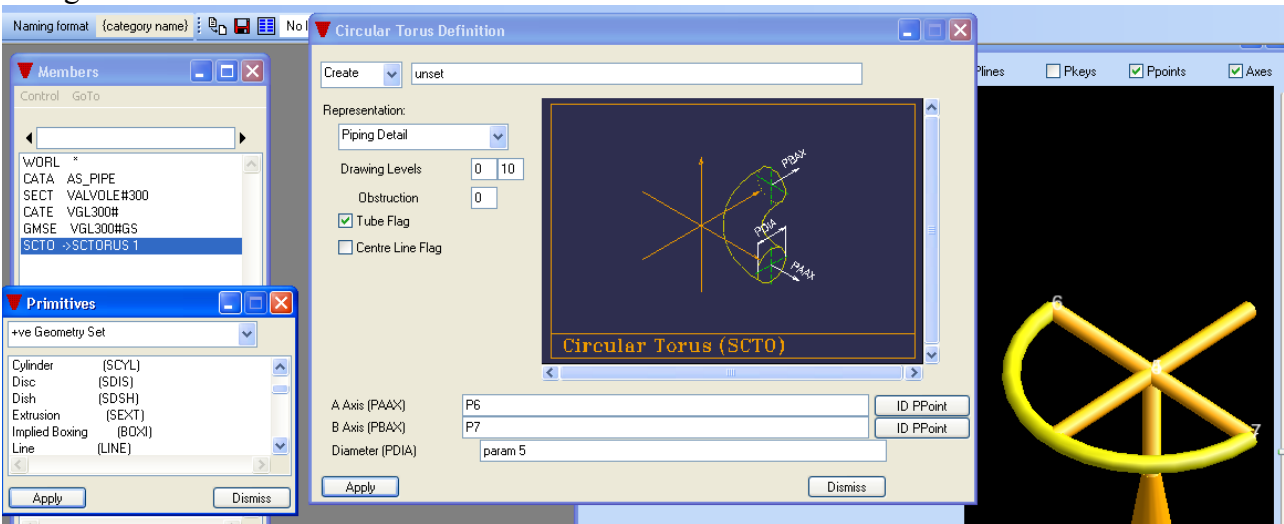
For this reason it's necessary to create 2 new Ppoints (P6 and P7), looking X  
Navigate to PTSE and create two cartesian points .



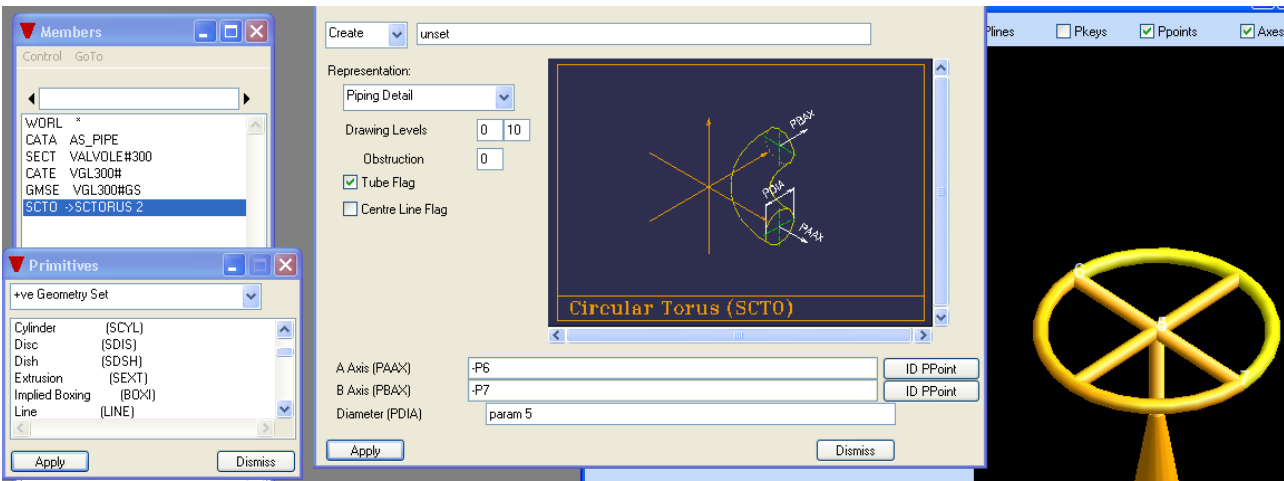
Now P7



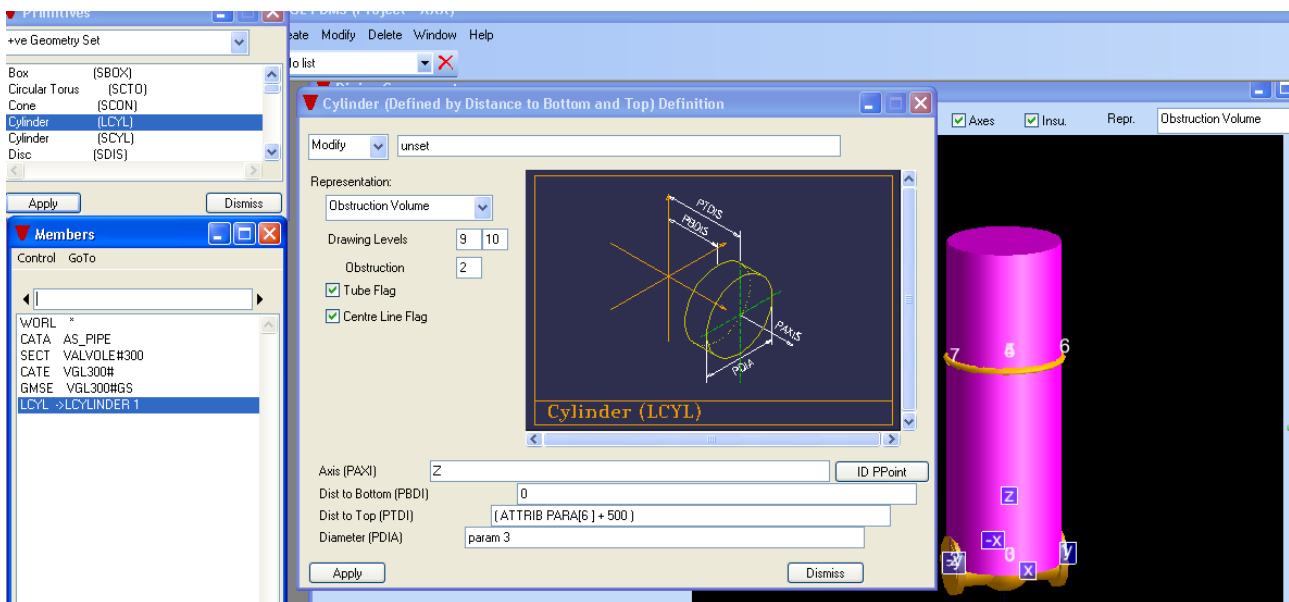
Now the geometry  
Navigate to GMSE



now the other half

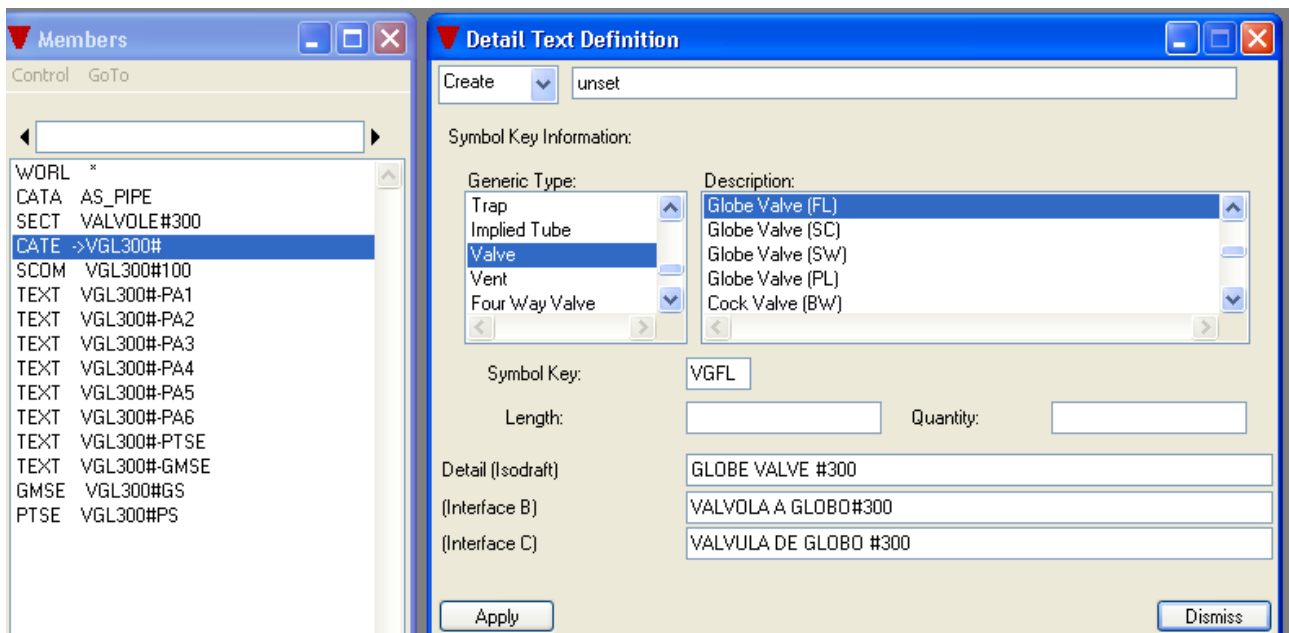


Now the obstruction.



Select Obstruction volume.

Now create the Description text:  
 Navigate to CATE  
*Create < detail text*  
 Fill:



If all is OK then SAVEWORK

Now for create the other components SCOM write the macro in a Text editor:

---

```
NEW SCOM /VGL300#150 COPY /VGL300#100 PARA 150 FBB 520 318 37 900
NEW SCOM /VGL300#200 COPY /VGL300#100 PARA 200 FBB 560 381 42 925
```

---

Save it as VGL300.txt

Select the last SCOM created and run the macro.

*Display<comand line*

\$m /path

Don't forget to assign the BLTARRAY for every SCOM if you want to use the new bolting method, for this purpose see the manuals and indications of the forum.

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#### DISCLAIMER:

This manual is for information purposes and a contribution for PDMS forum only.

It's recommended to take a training first.

Use of this manual at your own risk.

In no event shall the writer be liable for any direct, indirect, incidental, special, exemplary, or consequential damages.

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