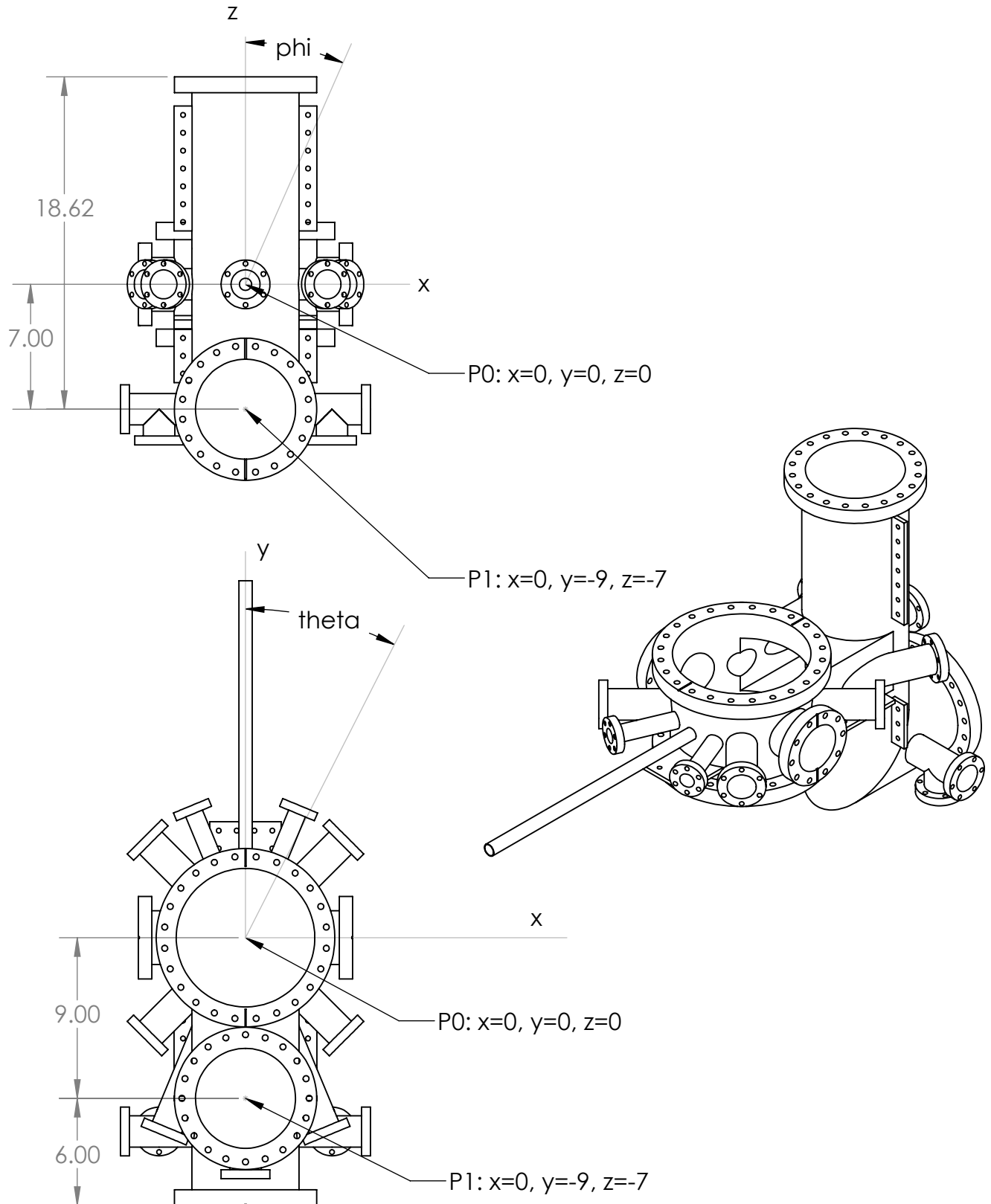
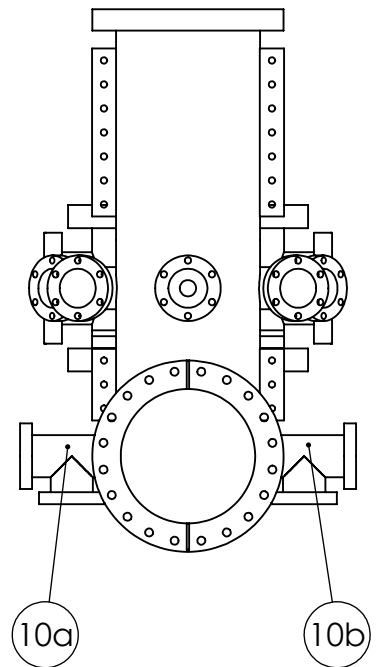
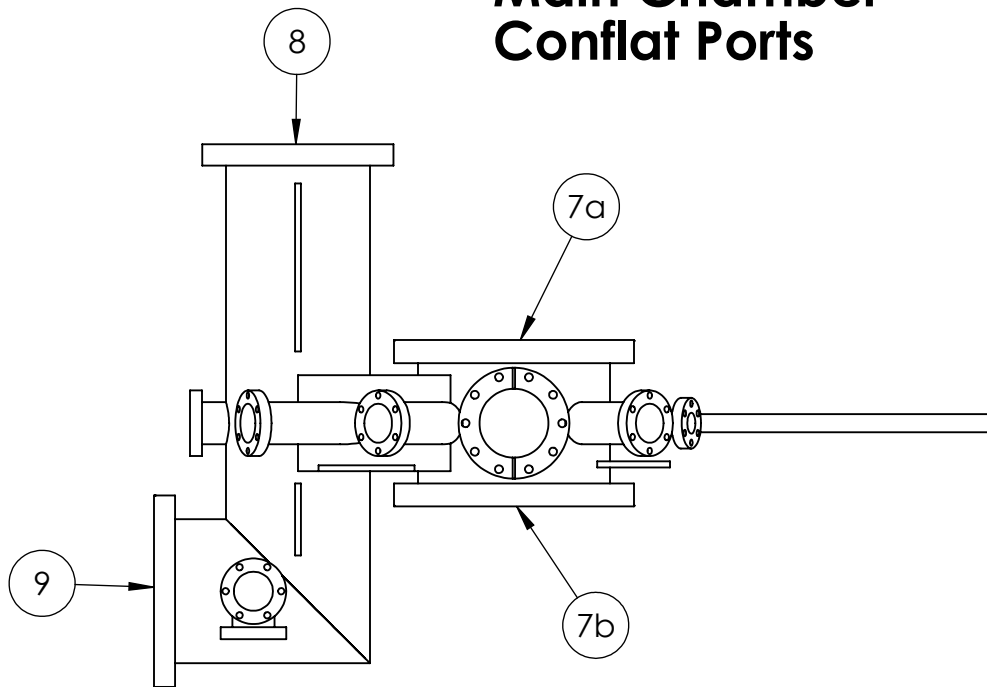


# Main Chamber Overview and Coordinate Reference

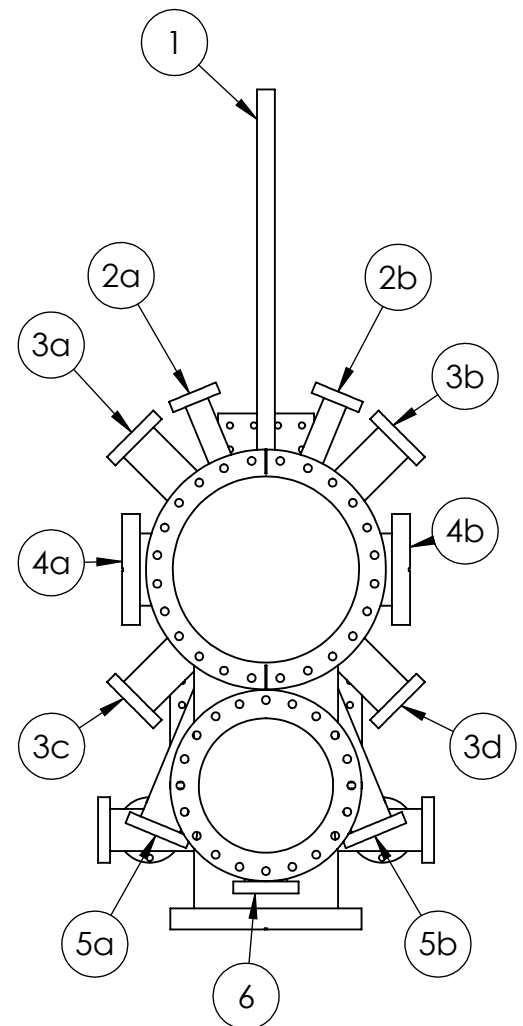


# Main Chamber Conflat Ports



Port Location / Information Table						
Port #	Flange OD	Focal Point	Flange Distance (inches)	theta (deg)	phi (deg)	Special notes
1	1-1/3	P0	20	0	90	Tube and flange knife edge only! Omit Bolt ring. Instead, please supply 2 bolt rings cut in half such that all bolt holes are intact.
2	2-1/8	P0	8	a: -22.5 b: 22.5	90	
3	2-3/4	P0	8	a: -45 b: 45 c: -135 d: 135	90	
4	4-5/8	P0	6	a: -90 b: 90	90	Rotatable flange
5	2-3/4	P0	12	a: 157.5 b: -157.5 (facing ports 2a, 2b)	90	
6	2-3/4	P0	13.5	180	90	
7	10	P0	3.47	n/a	a: 0 b: 180	Sniffer port aligned with y axis

Table continues on next page...



# Main Chamber Conflat Ports ...Continued

Port #	Flange OD	Focal Point	Flange Distance (inches)	theta (deg)	phi (deg)	Special notes
8	8	P1	18.62	n/a	0	
9	8	P1	6	180	90	Sniffer port aligned with z axis
10	2-3/4					a and b should be 2-3/4 conflat T junctions, somewhere convenient on the centerline of the horizontal tube for port 9. Exact location is not important.

# Main Chamber

## Mounting plates & mounting holes

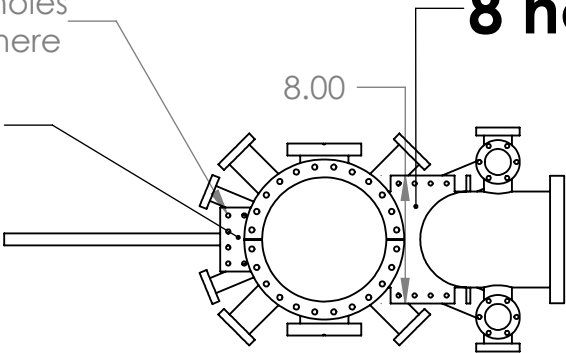
34 mounting holes total

Ø .27 for all mounting holes  
1 inch spacing everywhere

6 holes

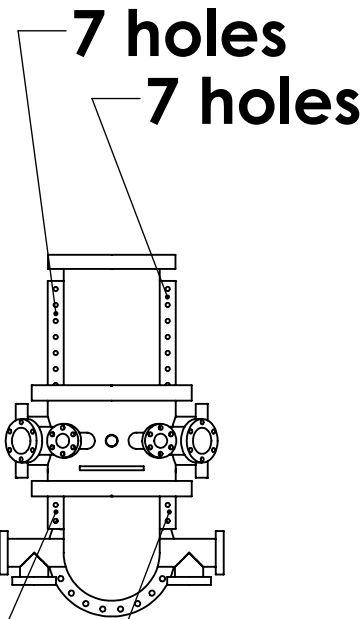
8 holes

8.00



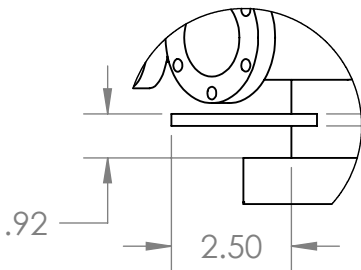
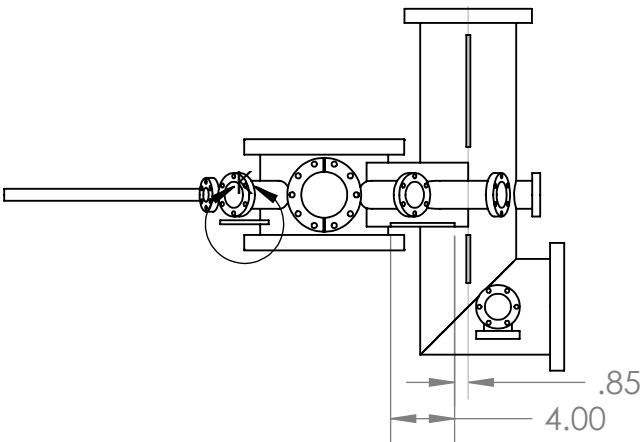
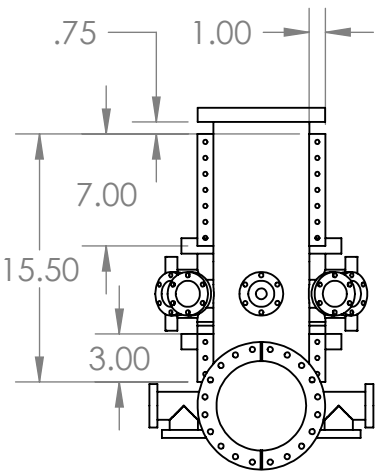
7 holes

7 holes



3 holes

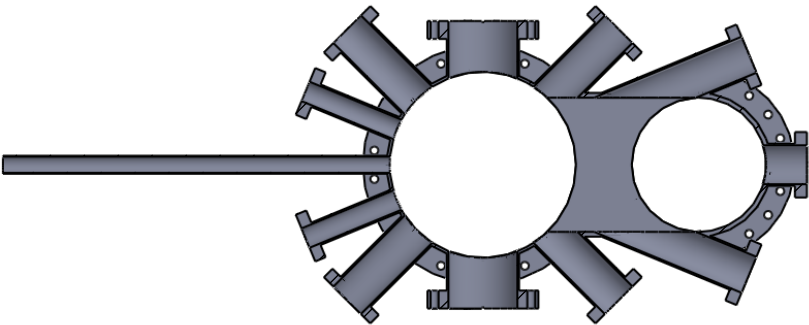
3 holes



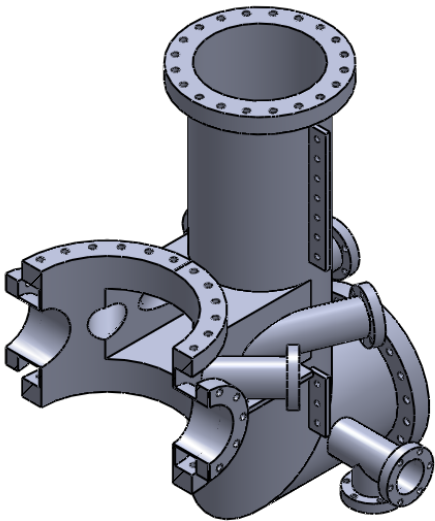
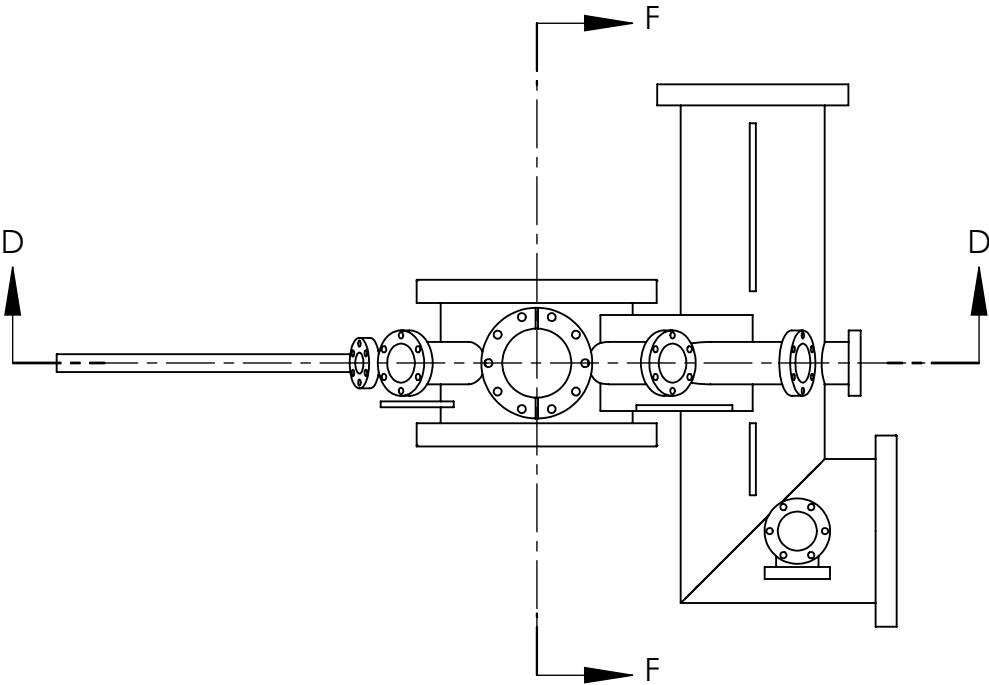
.25 (applies to all mounting plates)

DETAIL K  
SCALE 1 : 4

# Main Chamber Section Views

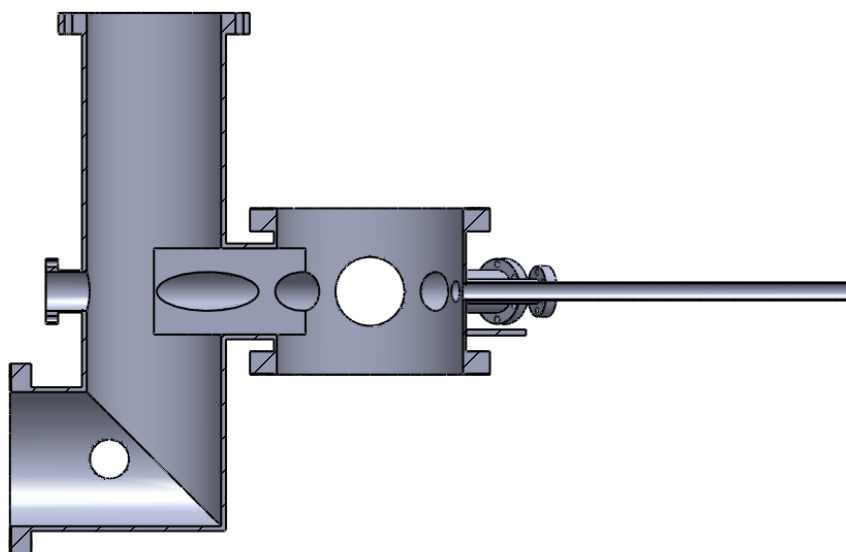
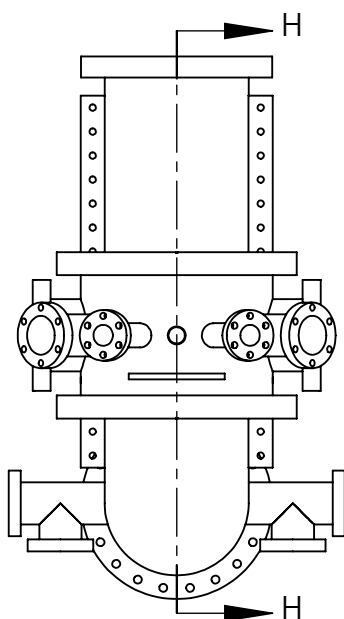


SECTION D-D  
SCALE 1 : 8



SECTION F-F  
SCALE 1 : 8

# Main Chamber Section Views ...Continued



SECTION H-H  
SCALE 1 : 8