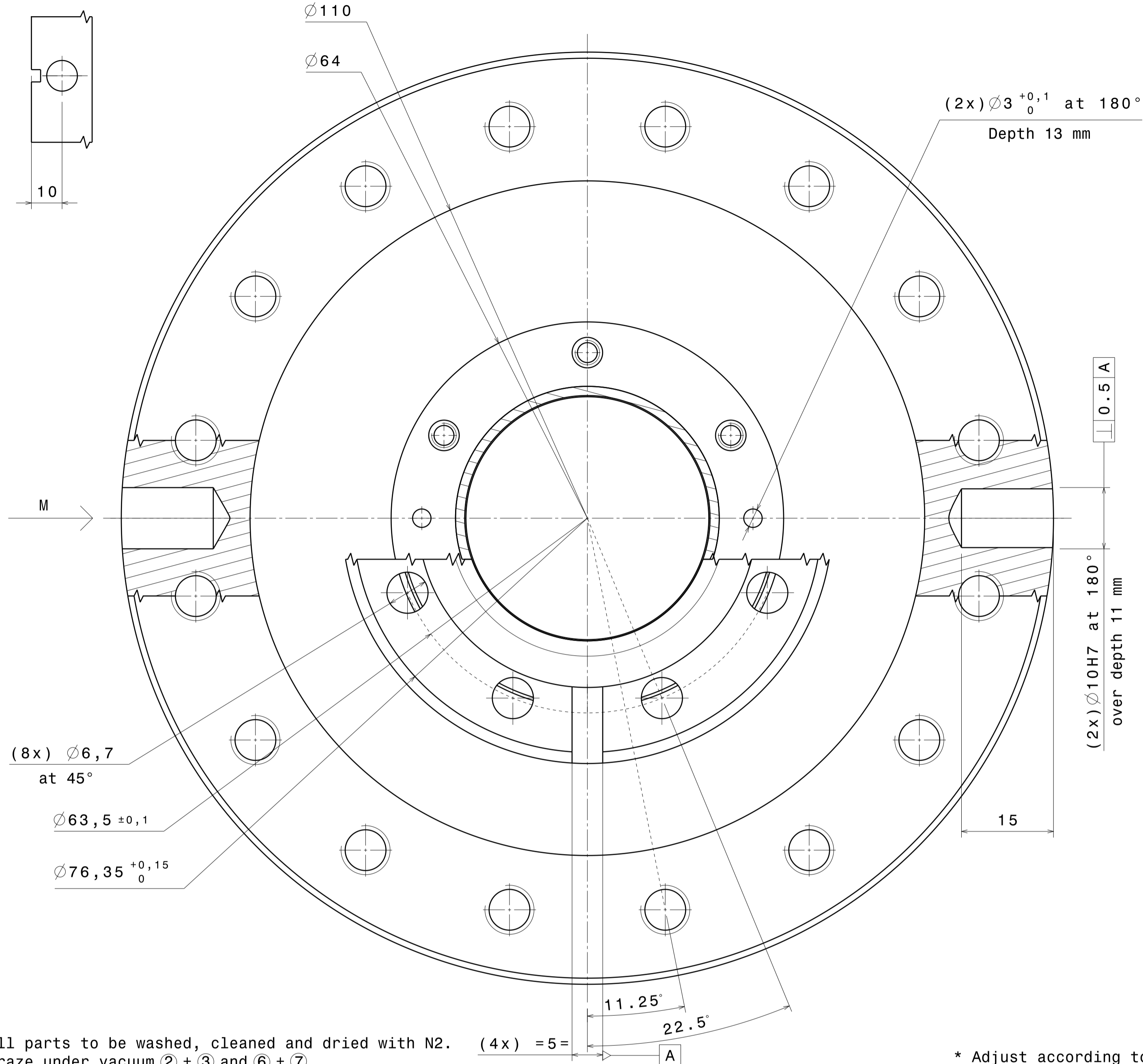
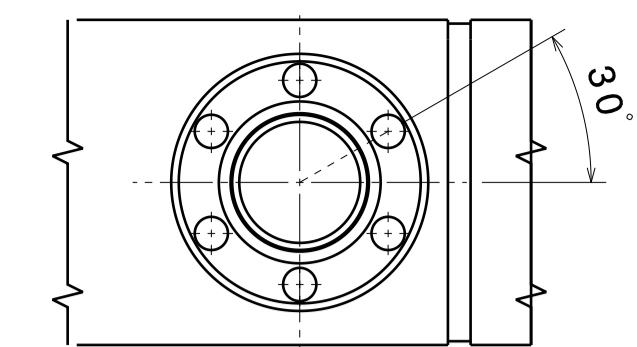


Side view M

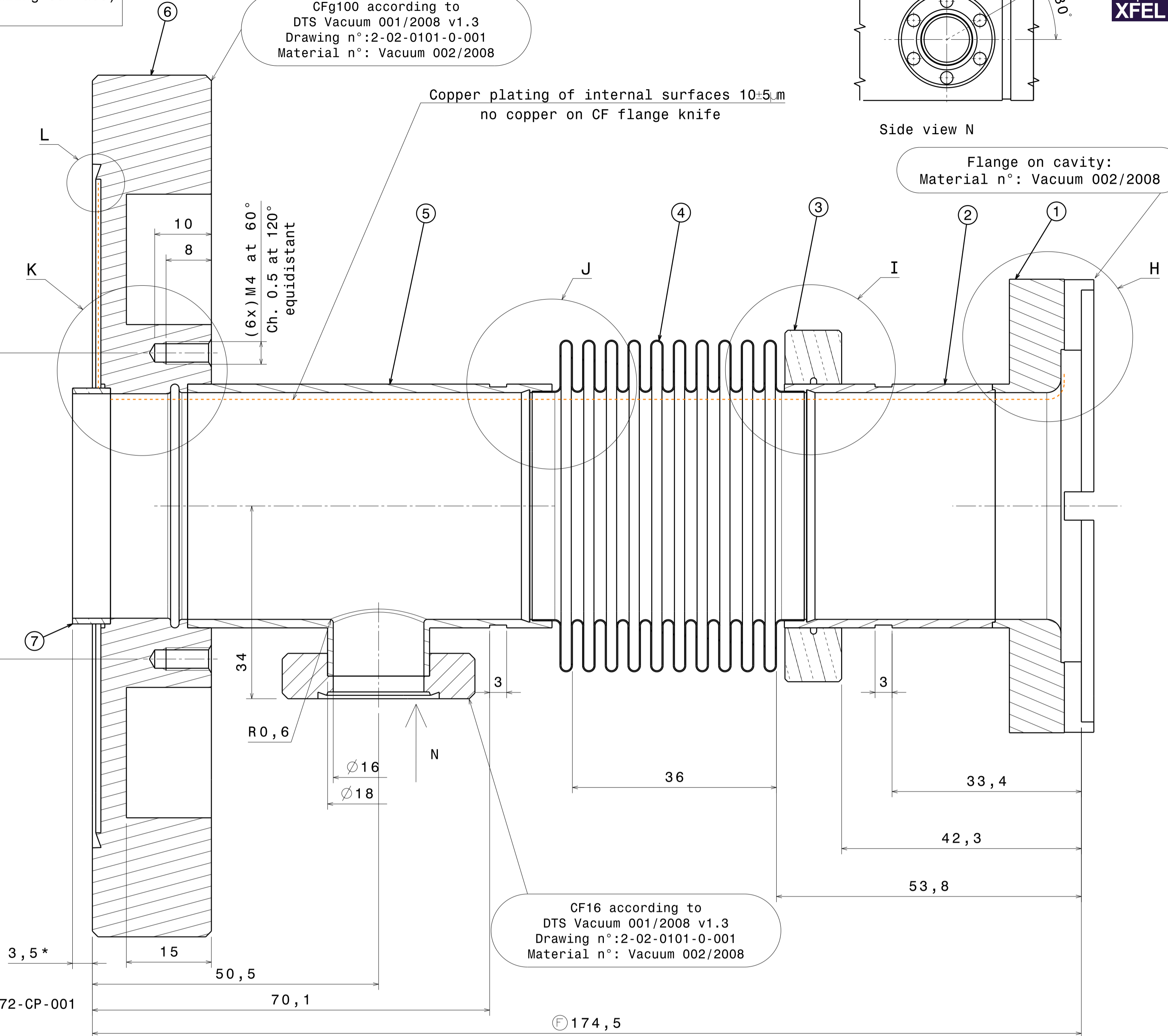


Protect copper ring and flanges (knife or sealing surface) from scratches or any damage.

CFg100 according to DTS Vacuum 001/2008 v1.3 Drawing n°:2-02-0101-0-001 Material n°: Vacuum 002/2008



Side view N  
Flange on cavity: Material n°: Vacuum 002/2008

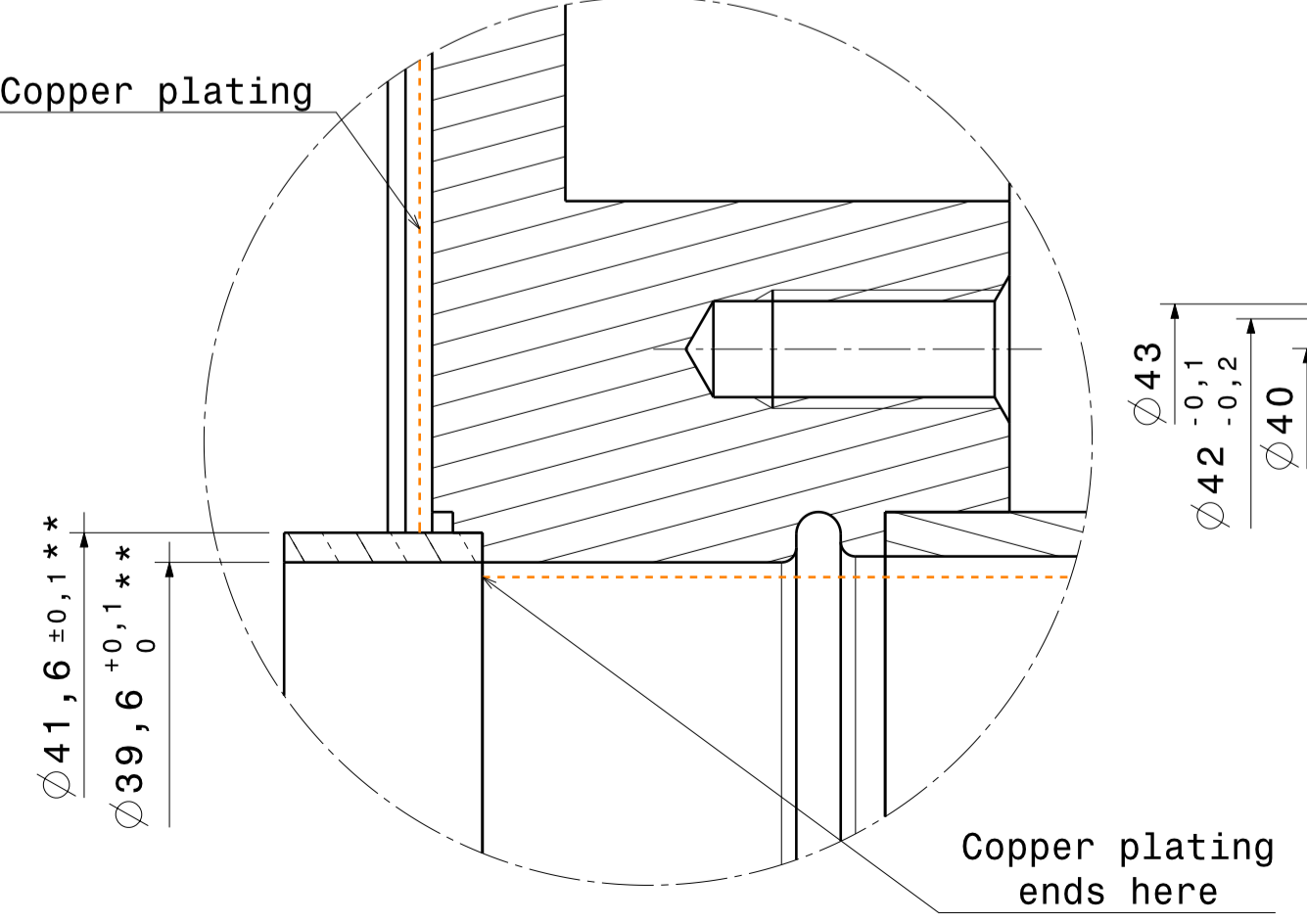


CF16 according to DTS Vacuum 001/2008 v1.3 Drawing n°:2-02-0101-0-001 Material n°: Vacuum 002/2008

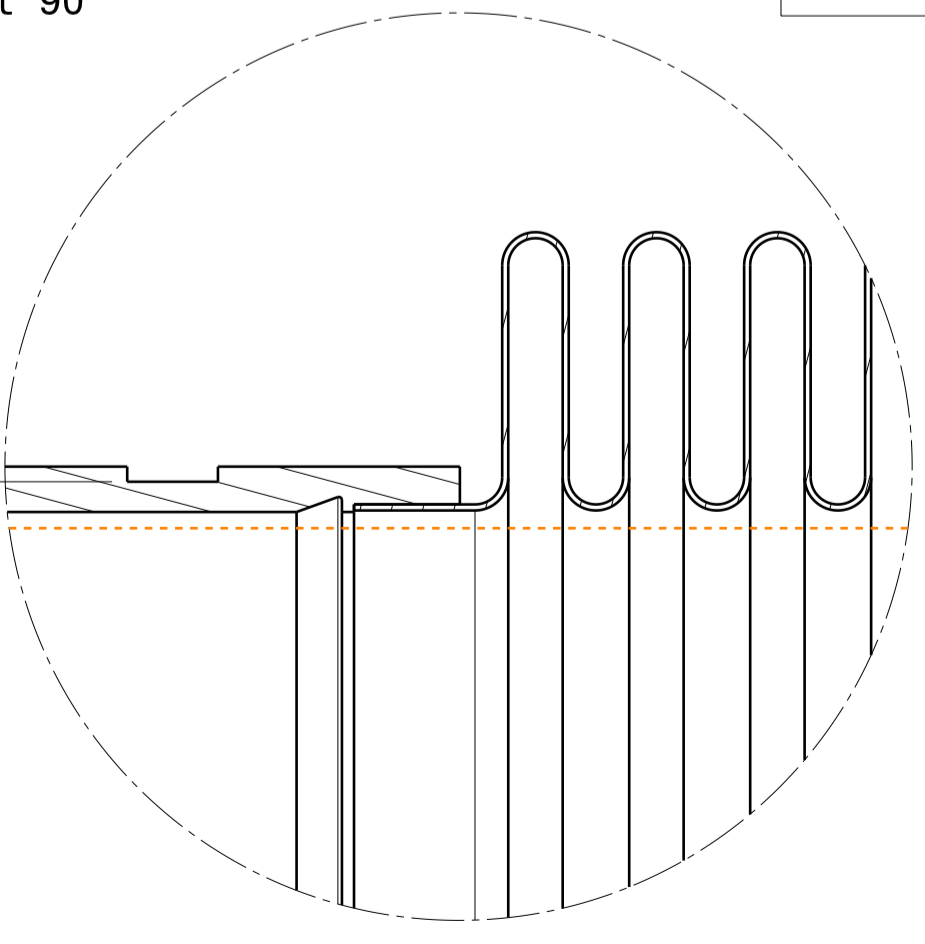
- 1) All parts to be washed, cleaned and dried with N2. (4x) = 5=
- 2) Braze under vacuum ② + ③ and ⑥ + ⑦.
- 3) Weld stainless parts together. Internal welds smoothed out (no peaks nor ridges).
- 4) H2 degas in clean vacuum oven at 950°C for 2 hours.
- 5) Copper plating of internal surfaces 10±5µ without H2:
  - copper plating also on face of big flange.
  - presence of copper plating inside the tubular junction for CF16 flange is acceptable.
- 6) Bake the assembly for 2 hours at 400°C under vacuum. at 90°

\* Adjust according to I72-CP-001

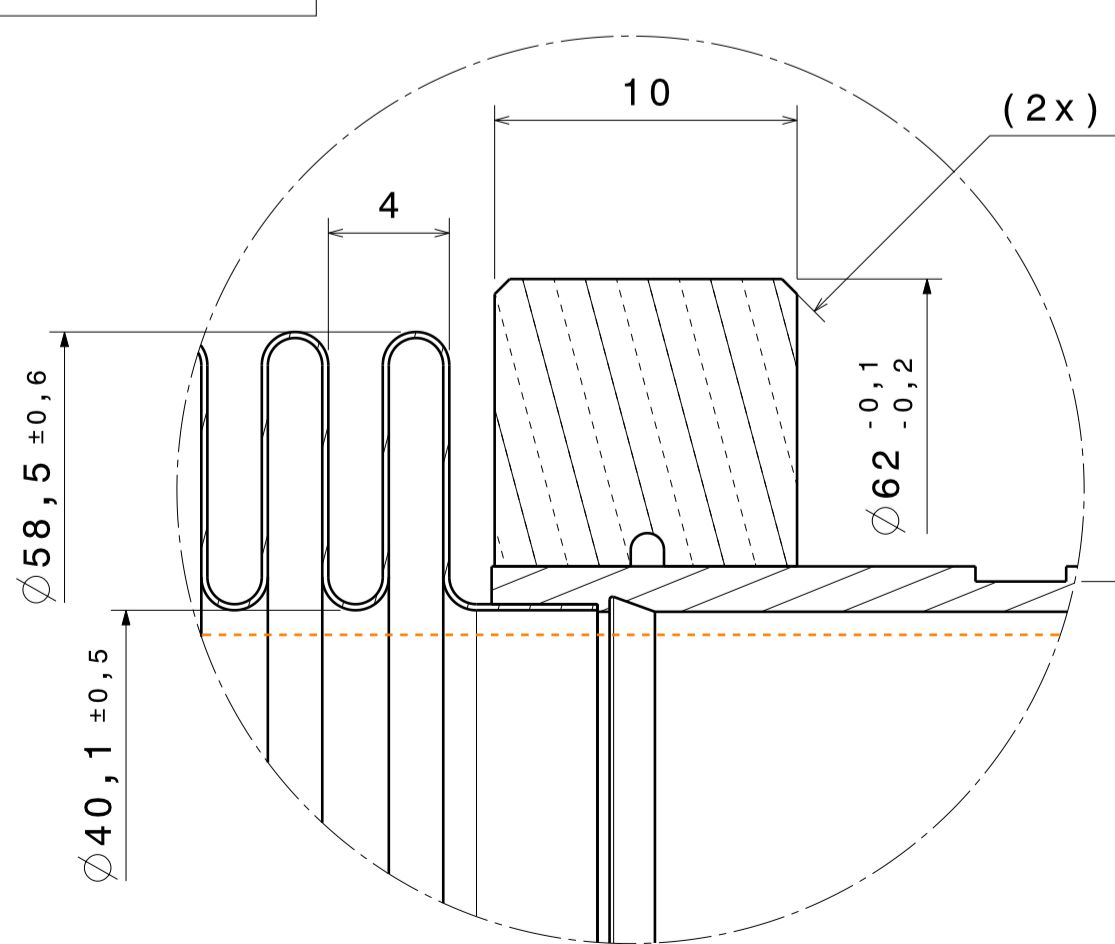
Handle with gloves only.



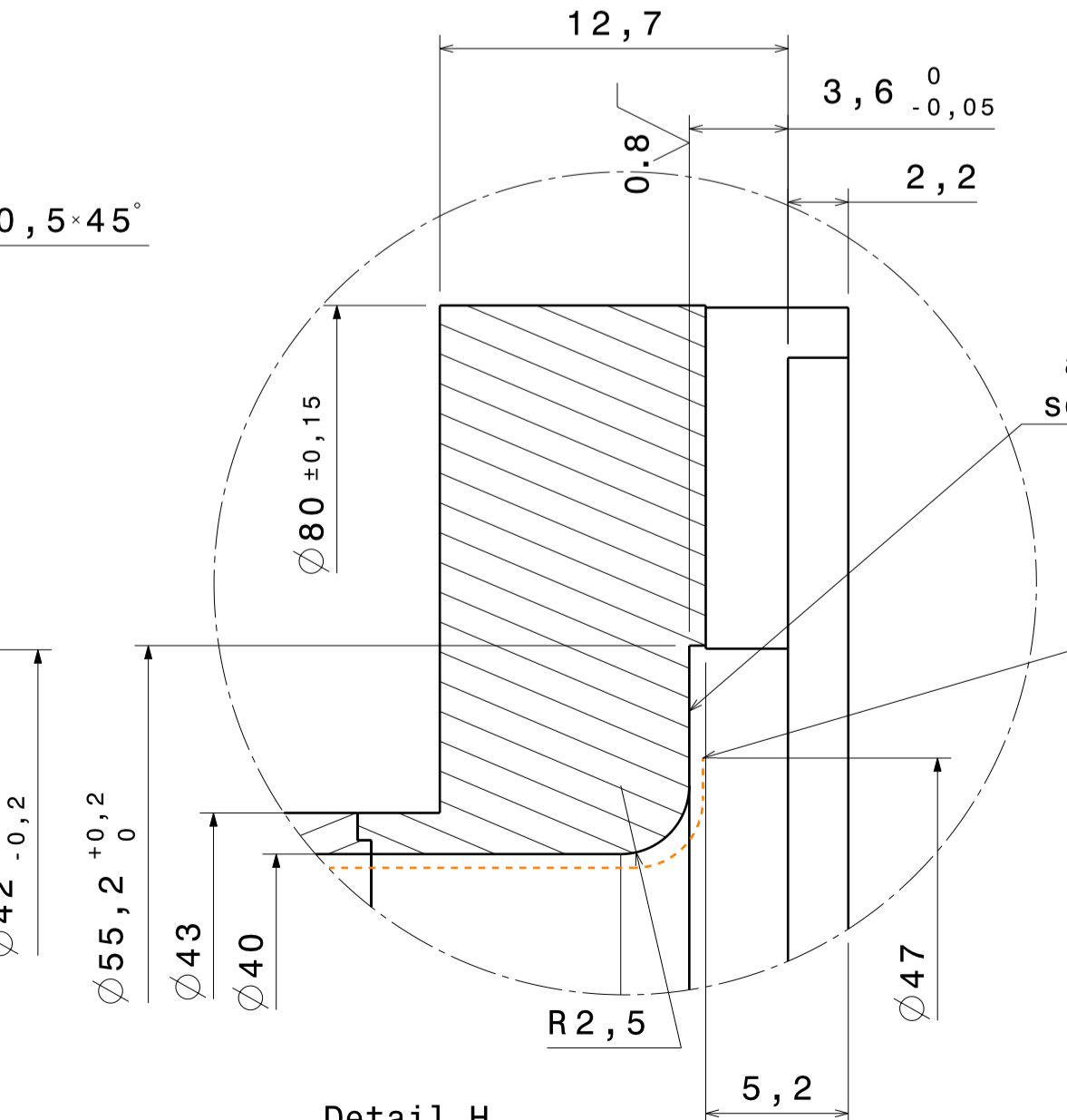
Detail K Scale : 4:1 \*\* Re-machine copper ring after brazing



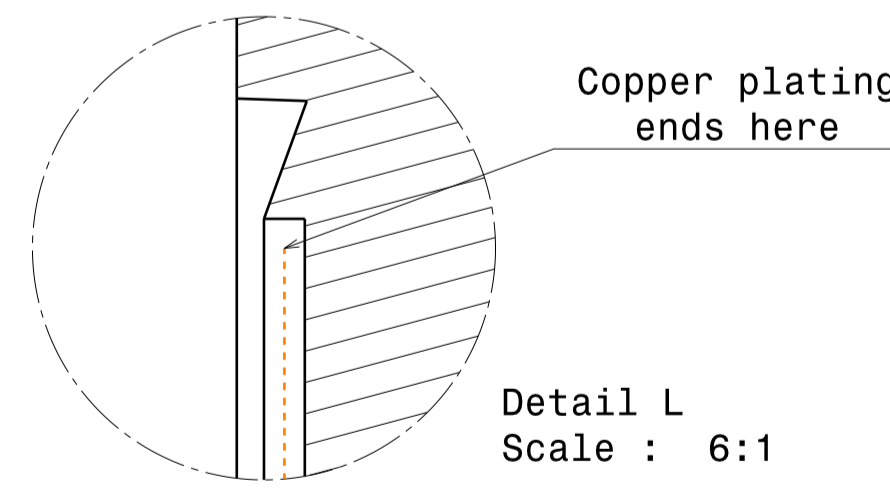
Detail J Scale : 4:1



Detail I Scale : 4:1



Detail H Scale : 4:1



No radial scratches and no copper on the sealing surface admitted

Rep.	Designation	Material
1	Flange on cavity	316LN
2	Tube bellow/flange on cavity	316L
3	Copper ring for 4K interface	Cu OFHC
4	Cold bellow (10 waves)	316L
5	Tube bellow/cold big flange	316L
6	Cold big flange	316 LN
7	Copper ring for cold big flange	Cu OFHC

Ind.	Date	Modification	By
<b>X-FEL Coupler</b>			
<b>Cold Part</b>			
<b>Cold external Conductor</b>			
LABORATOIRE DE L'ACCELERATEUR LINEAIRE Bat. 208, BP 34, 91898 ORSAY CEDEX Tel. +331 64 46 83 00		Scale 2/1	Index A
I72-CP-004			