These drawings are provided for the use in preparation for experiments on HFBS instrument. We invite our users to use these drawings to assist in determining sample volumes and mounting of samples. If you would prefer to construct your own sample cans, sufficient information should be present. If there are any question about dimensions please contact a HFBS instrument scientist.

The sample cans have been tested for non hazardous samples and ambient conditions. Samples involving hazardous materials, explosive materials, increased pressure, acidic solutions, and extreme temperature conditions might not be accommodated by this sample can design. These experiments should be discussed prior to use of this sample can. You are welcome to make changes and modifications to the design, bearing in mind that such modifications might require safety review prior to the experiment being run.

**Item No.** | **Part Number** | **Description** | **QTY.**
--- | --- | --- | ---
1 | HFBS-01 | Sample Can Lid - Aluminum, 6061-T6 | 1
2 | HFBS-02 | Fastening Ring - Stainless Steel, no Cobalt | 1
3 | HFBS-03 | Washer Ring - Stainless Steel, no Cobalt | 1
4 | HFBS-04 | Outer Can - Aluminum, 6061-T6 | 1
5 | HFBS-05 | Insert A (1.5 mm gap) - Aluminum, 6061-T6 | 1
6 | HX-SHCS 0.112-40x0.5x0.5-N | #4-40 x 0.5 in. Socket Head Cap Screws - Steel, no Cobalt | 12
WASHER RING

38.0 bolt circle

12X #4 CLEARANCE HOLE THRU ALL

FASTENING RING

3.0

38.0 bolt circle

12X 4-40 UNC - 2B THRU ALL

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES ARE:

. X  ± 0.2

. XX  ± 0.13

ANGLES  ± 0.5

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL:  AISI 304

FINISH

DRAWN:  TAJ  8/5/2008

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

FOR:  HFBS Annular Sample Can .v1

SIZE:  A

DWG. NO.  HFBS-SC-v01

REV  1

SCALE 1:1

WEIGHT:

SHEET 3 OF 4
### Annular measurements

<table>
<thead>
<tr>
<th>Annular Gap</th>
<th>Measurement A</th>
<th>Measurement B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 mm</td>
<td>26.00</td>
<td>25.25</td>
</tr>
<tr>
<td>1.0 mm</td>
<td>27.00</td>
<td>26.25</td>
</tr>
<tr>
<td>0.5 mm</td>
<td>28.00</td>
<td>27.25</td>
</tr>
<tr>
<td>0.2 mm</td>
<td>28.60</td>
<td>27.85</td>
</tr>
</tbody>
</table>

**Dimensions**

- **PRIOR INSERT VERSION (1.5mm gap)**
  - 53.2
  - 53.5
  - 54.0

- **OLD OUTER CAN**
  - 53.0
  - 50.0
  - 54.0

**Clearance Holes**

- 12X #4 CLEARANCE HOLE THRU ALL
  - Φ 30.0 +0.02
  - Φ 29.0 +0.02
  - Φ 38.0

**Additional Parts**

Title: HFBS-SC-v1

- FOR: HFBS Annular Sample Can .v1
- SIZE A
- DWG. NO. HFBS-SC-v01
- REV 1

**Notes**

- DIMENSIONS ARE IN MM
- TOLERANCES ARE:
  - .X ±0.2
  - .XX ±0.13
  - ANGLES ±0.5
- INTERPRET GEOMETRIC TOLERANCING PER:
  - MATERIAL Per BOM
  - FINISH
- DO NOT SCALE DRAWING

**Scale:** 1:1

**Comments:**

- DO NOT SCALE DRAWING SHEET 4 OF 4