# Fiducialization data for 33mm undulator

Pin size used for all readings is a 0.249+ Zero is from horizontal plate.

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| --- | --- | --- | --- |
| **Beam** | **Type** | **Location** | **Height** |
| Lower | Pin | US End pin hole | 5.534 |
| Lower | Pin | US outboard pin hole | 5.543 |
| Lower | Pin | DS outboard pin hole | 5.542 |
| Lower | Pin | DS End pin hole | 5.534 |
|  |  |  |  |
| Upper | Pin | US End pin hole | 13.215 |
| Upper | Pin | US outboard pin hole | 13.222 |
| Upper | Pin | DS outboard pin hole | 13.222 |
| Upper | Pin | DS End pin hole | 13.210 |

# Magnetic gaps for first and last poles

Ceramic gage blocks were used to find the magnetic gap at each end. The end poles are reduced height (for entrance steering and offset control). Values were

1. US gap at outboard edge of pole = 10.69mm
2. US gap at inboard edge of pole = 10.67mm
3. DS gap at outboard edge of pole = 10.64mm
4. DS gap at inboard edge of pole = 10.61mm

# Gage pin to Gage pin spacings

Upstream = 7.928”

Downstream = 7.928”