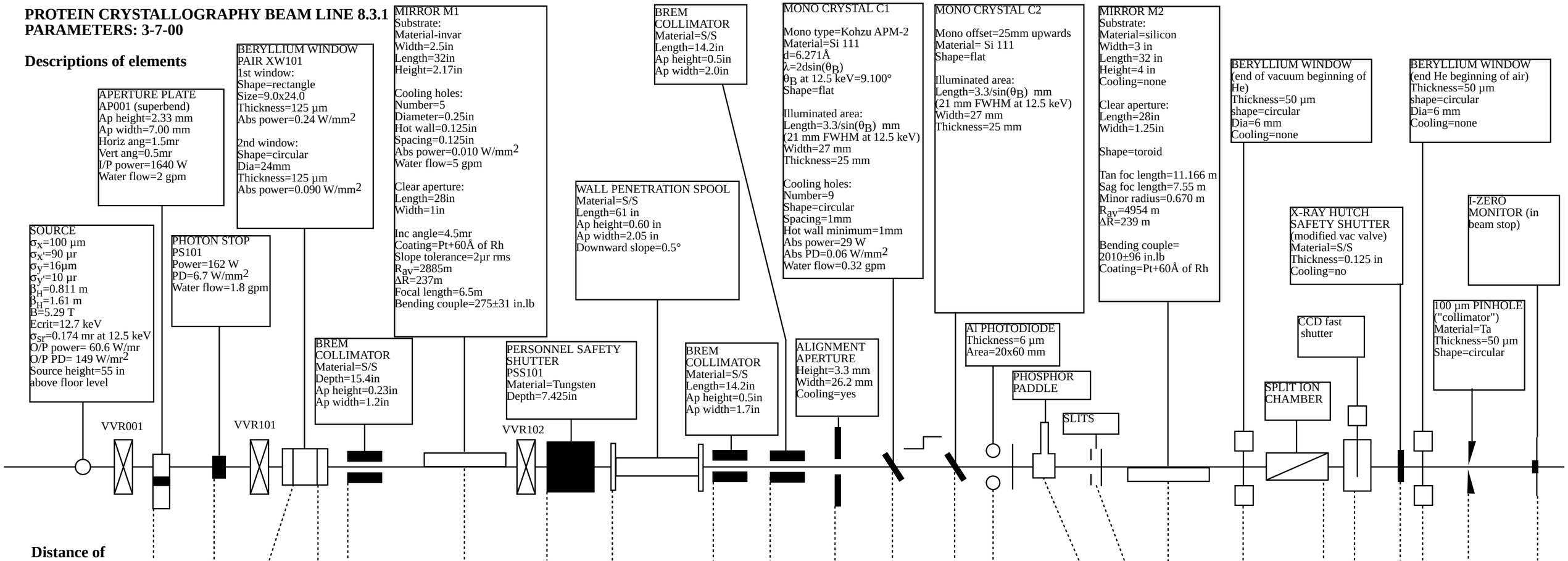
PROTEIN CRYSTALLOGRAPHY BEAM LINE 8.3.1
PARAMETERS: 3-7-00

Descriptions of elements



Distance of entry side from source (m)

04.664 04.687 05.210 05.244 5.931 06.500 07.752 07.975 09.739 12.720 17.371 18.000 18.073 00.000 18.594 00.000 22.333 00.000 00.000 00.000 00.000 00.000 00.000 00.000

Beam size (mm) Height x width

2.33x 7.00 | 2.34x 7.03 | 2.60x 7.82 | 2.62x 7.86 | 2.70x 8.09 | 3.3x 9.75 | 3.3x 11.63 | 3.3x 11.96 | 3.3x 14.60 | 3.3x 19.09 | 3.3x 26.06 | 3.3x 27.00 | 3.3x 27.11 | 3.3x 27.60 | 3.3x 27.89 | 3.3x 32.25 | 3.3x 33.5 | 0.0x 00.0 | 0.0x 00.00 | 0.0x 00.00 | 0.0x 00.0 | 0.0x 0.00 | 0.0x 00.00 | 0.0x 00.00

Actions of elements*

Action=none
Status monitoring:
Of: water flow
By: EPS

Action=Open-close with PSS
Driver=
Indexer=
Controller=EPS
Status monitoring:
Of: water flow
By: EPS

Action=none
Status monitoring:
Of; water flow
By: EPS

None

Action=alignment motions
Pitch:
Driver=st motor
Indexer=visual
Controller=BL
Roll, plunge:
Driver=manual
ndexer=visual
Status monitoring:
Of: water flow
By: EPS

Action=Open-close with photon stop
Driver=
Indexer=
Controller=EPS
Staus monitoring:
Of: open?
By: EPS

None

None

None

Actions:
(All controllers=BL)
Wavelength tune:
Driver=AC servomotor
Indexer=Heidenhain ERO-725-3
Controller=BL
θ_B range= 5-60° (2.3-22.5 keV)
Status monitoring:
Of: water flow
By: EPS

Action=define beam
Status monitoring:
Of: water flow
By: EPS

Actions: (All controllers=BL)
Wavelength tune: as C1
Y_2 - offset adjustment:
Driver=5-phase stepper
Range=±15 mm
indexer=step counting
home=limit switch
θ_2 – change Bragg angle:
driver=manual (±1°)
driver=PZT (15")
Z_2 –Trans parallel to C1 surface:
Range ±50 mm, driven like Y_2
χ_2 - roll:
Range=±8°, driven like Y_2

Action=up-down, measure flux
Driver=manual
Status monitoring:
none

Action=view beam by eye

Action=control beam width and height
Controller=BL
Status monitoring:
Of: positions
By: step count

Action=alignment, bending
Pitch:
Driver=stepping motor
Indexer=feedback syst
Controller=BL
Bend:
Driver=stepping motor
Indexer=step count
Controller=BL

None

Action=block beam
Diver=solenoid
Indexer=none
Limiters=none
Controller=Data aq
Staus monitoring:
Of: open-close
By: Data aq

Action=sense beam position for feedback
Staus monitoring:
Of: beam position
By: BL

None

None

Action=Open-close
Driver=
Indexer=
Controller=EPS
Staus monitoring:
Of: open?
By: EPS

None

Action=measure I-zero
Staus monitoring:
Of: I-zero
By: Data aq

*Controls are from outside the vacuum unless otherwise stated