

Spatial gradient contour maps for Premier systems

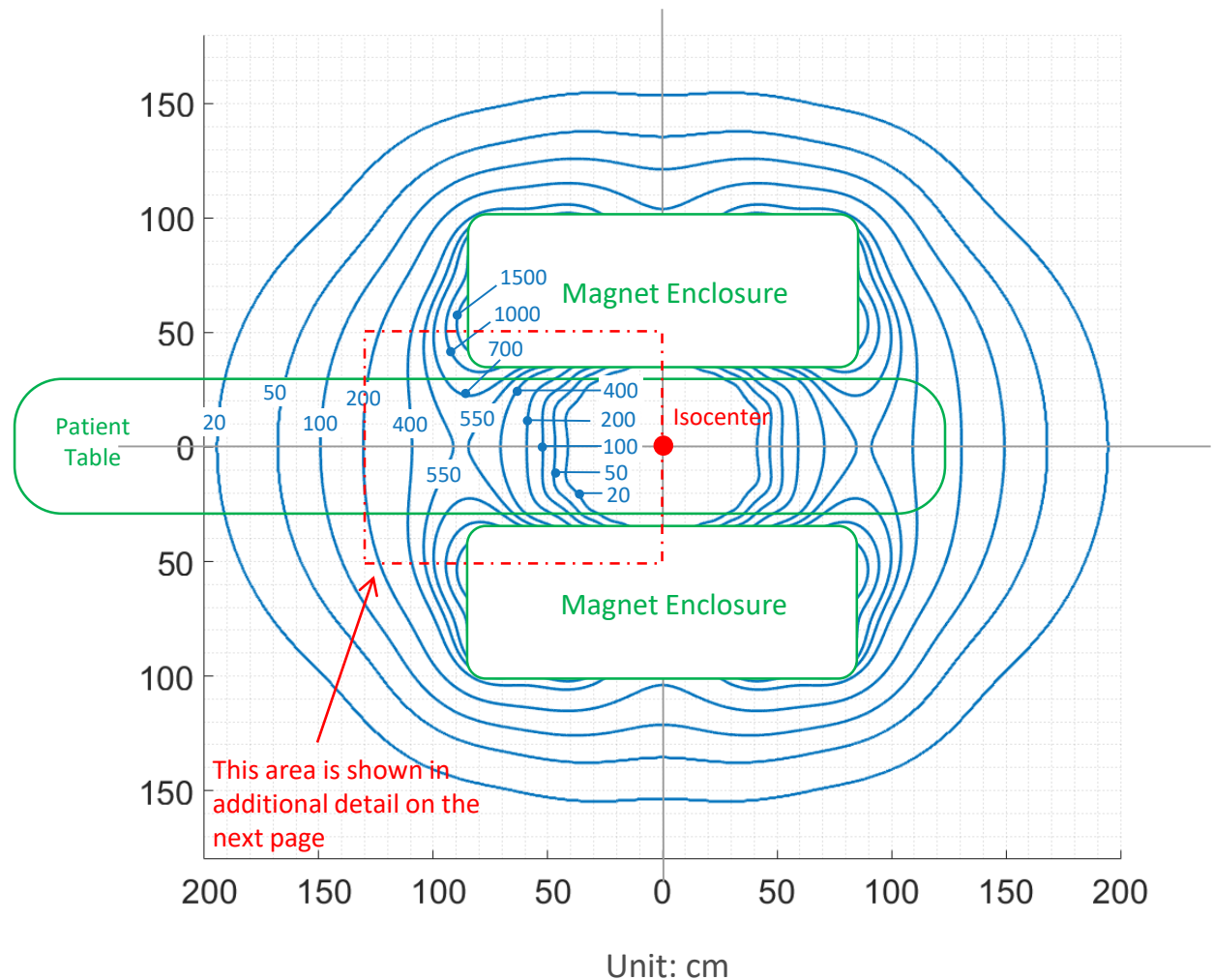
This contour map shows the spatial gradient for **Premier** system (which is a 3T system with 70cm patient bore and **3TLC** magnet.)

The map covers a range of ± 2 meters from isocenter along the magnet's axis, and ± 1.8 meters across the magnet.

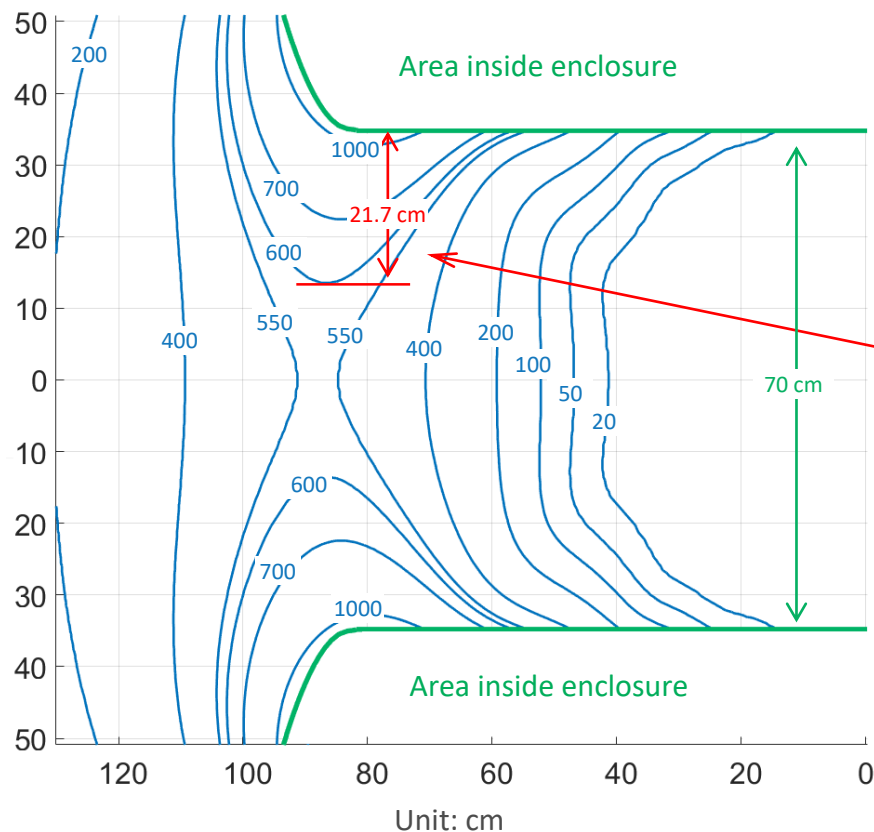
Minimum entry spatial gradient:

To reach the center of the magnet requires passing through at least a SG=556 G/cm.

The contour locations and patient bore dimensions are accurate to isocenter. However, the enclosure's exterior shape is approximate, due to differences between enclosure designs.



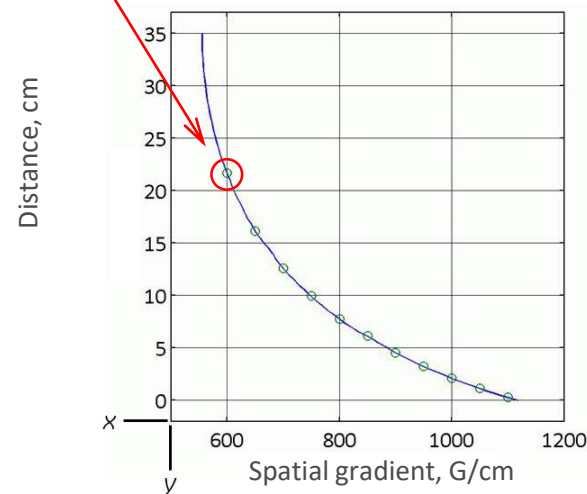
Detail contour maps for Premier systems



D can be read from the map, the table, or the plot. At 600 G/cm, **D** is 21.7 cm.

Spatial Gradient, G/cm	Distance D , cm
<556	35*
600	21.7
650	16.2
700	12.6
750	9.9
800	7.8
850	6.1
900	4.5
950	3.2
1000	2.1
1050	1.1
1100	0.3
≥1130	0

* This is the minimum entry SG, where **D** reaches half of the bore diameter.



This contour map zooms in on the area near the mouth of the magnet. The map shows how far a given contour reaches pasting the bore wall. This is distance **D** – it can be read from the contour map, from the table or from the plot. The enclosure shape is accurate in this plot.

An example – marked in red in the plot, the table, and the graph – shows that for SG of 600 G/cm, distance **D** is 21.7 cm. This leaves an “opening” of 26.6 cm.