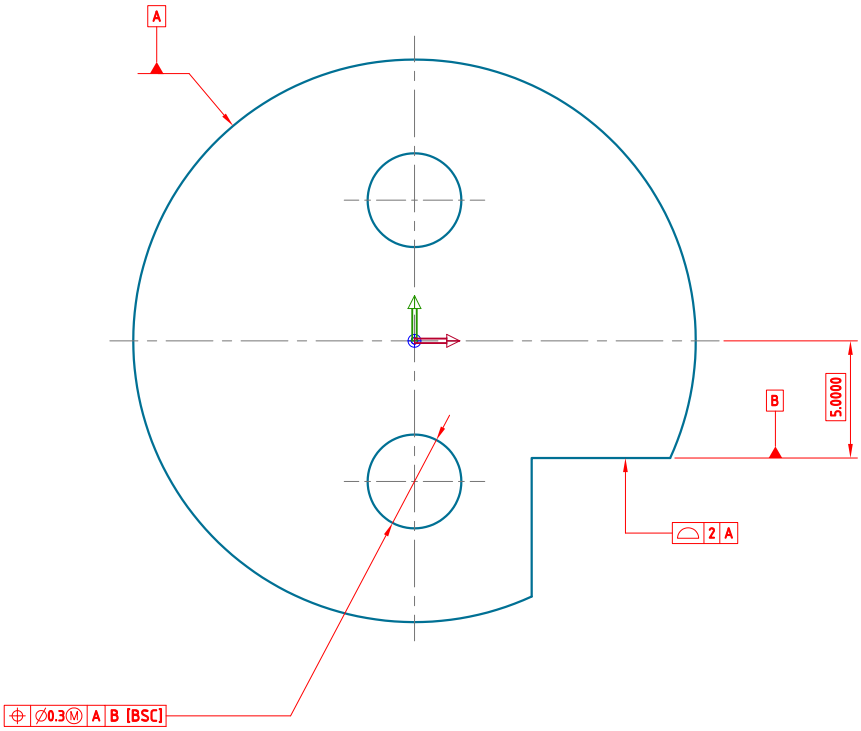
Dimensioning #1

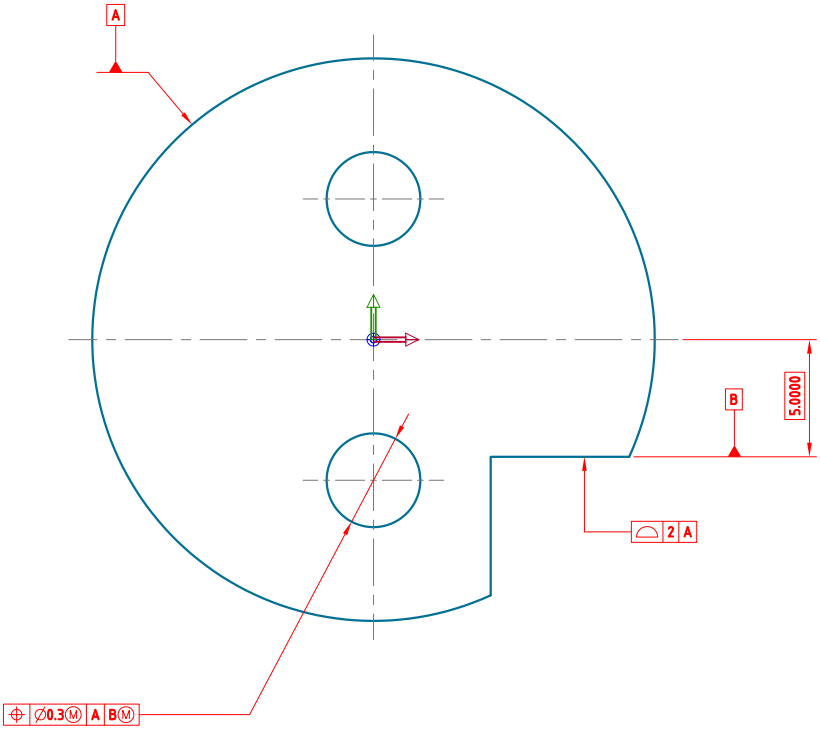
Pic. #1

Basic



Dimensioning #2

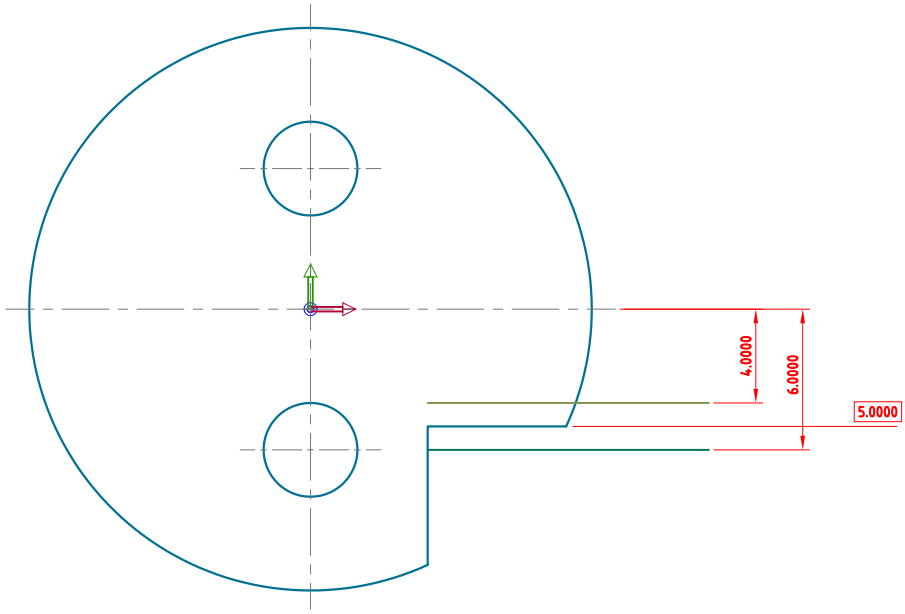
"Maximum Material"



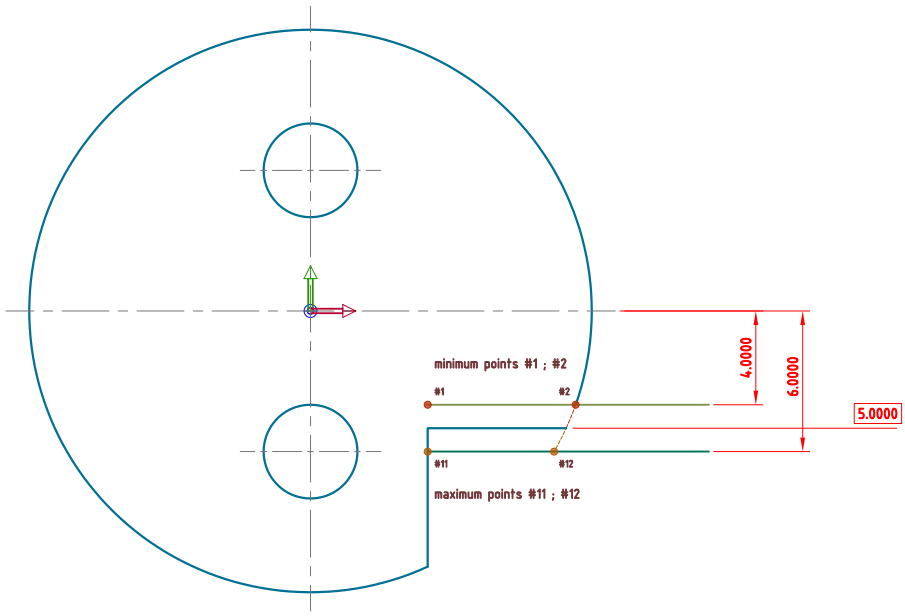
Dimensioning #1

Pic. #2

Actual geometry



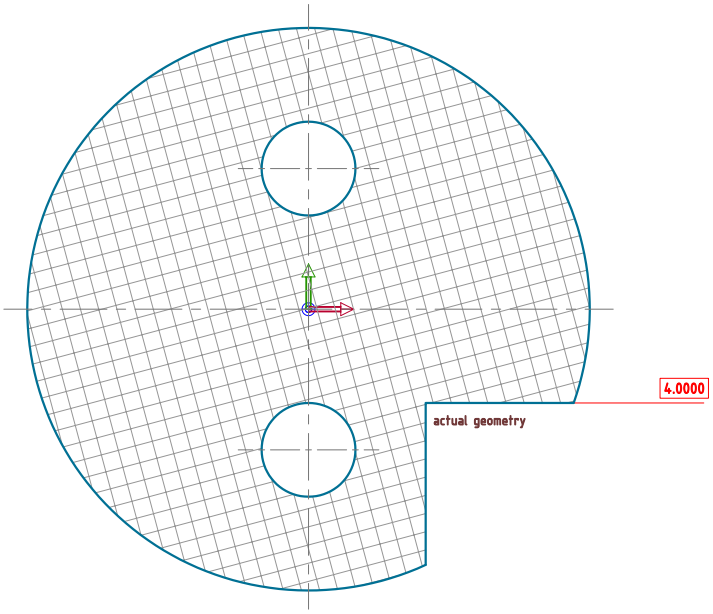
Actual geometry



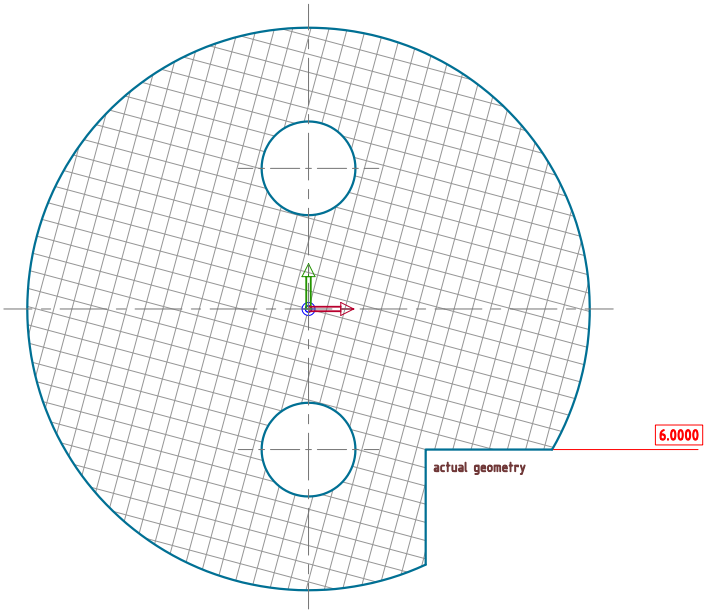
Geometry at the limits

Pic. #3

Actual - minimum



Actual - maximum

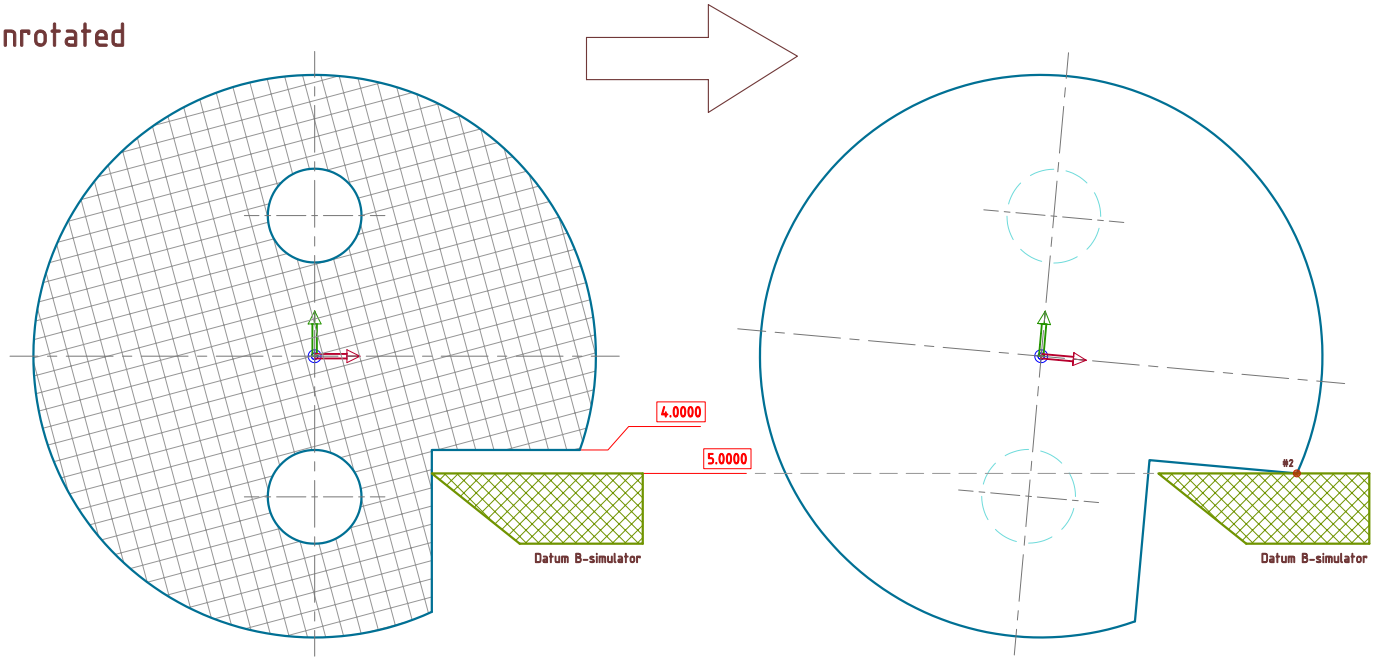


Datum B - simulator at 5.0000

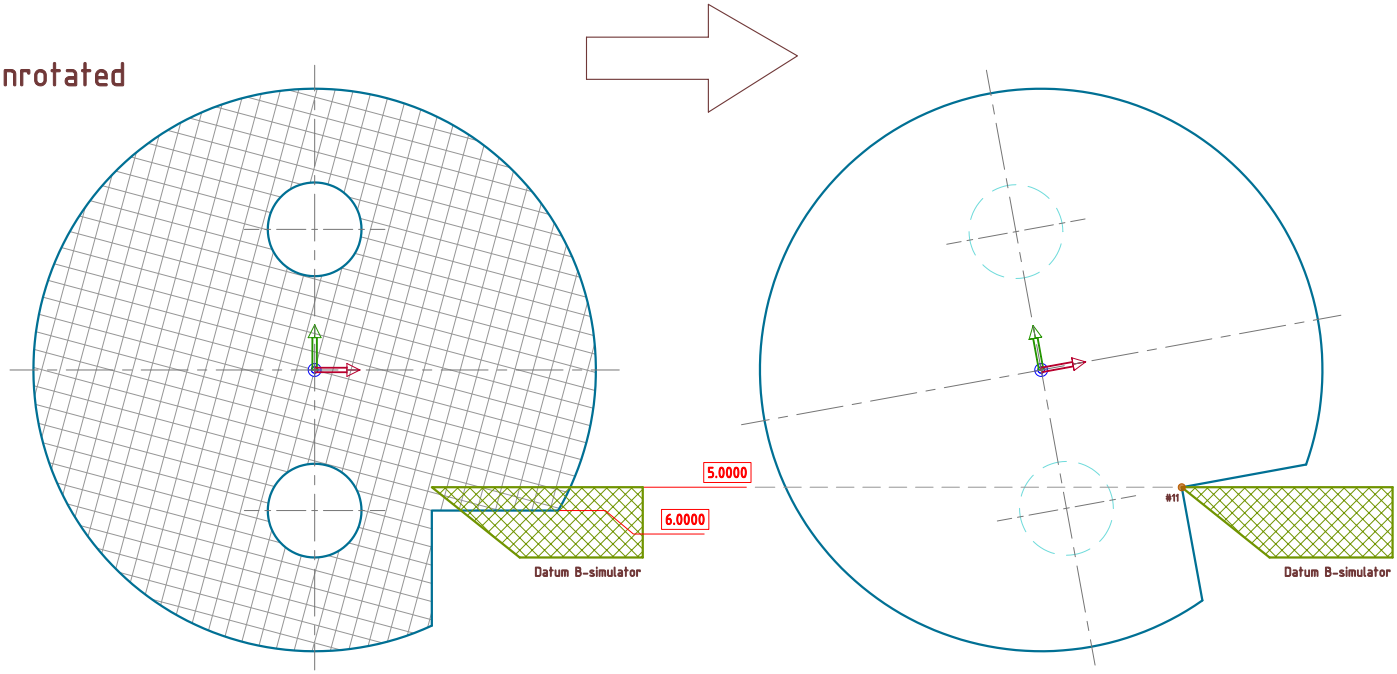
⌖ ∅0.3Ⓜ A B [BSC]

Pic. #4

Unrotated



Unrotated

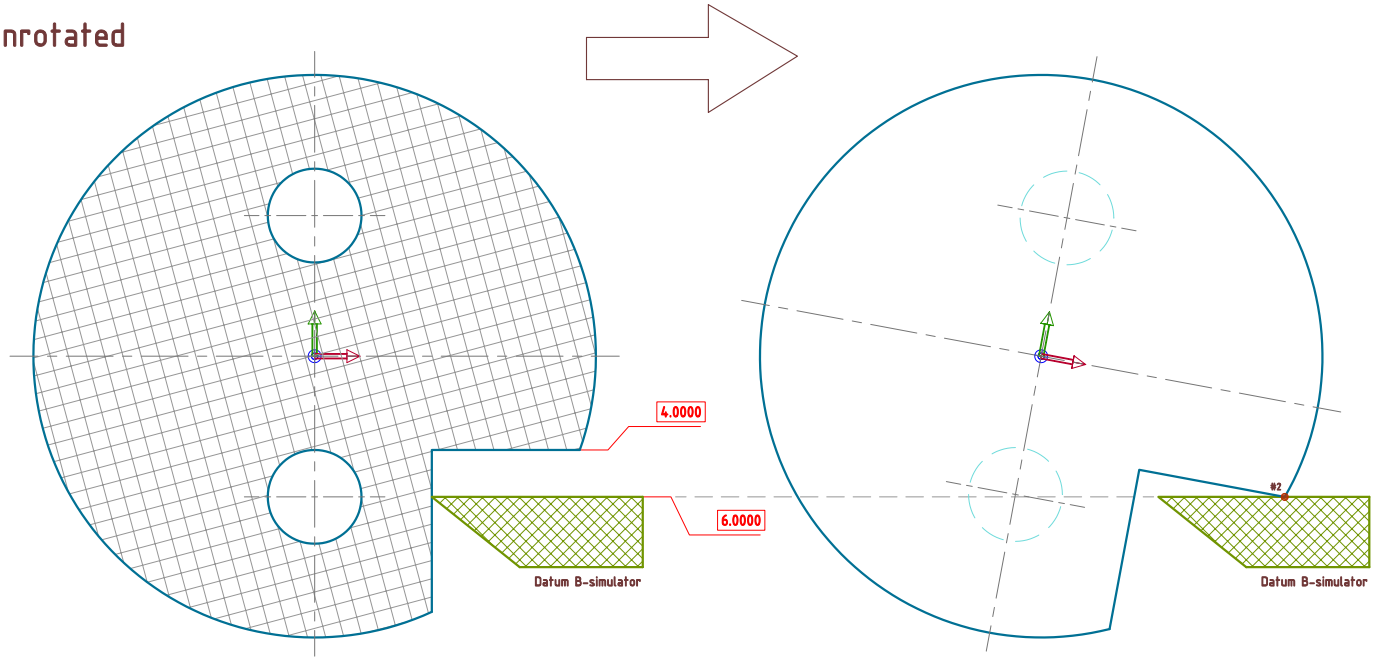


Datum B - simulator at 6.0000

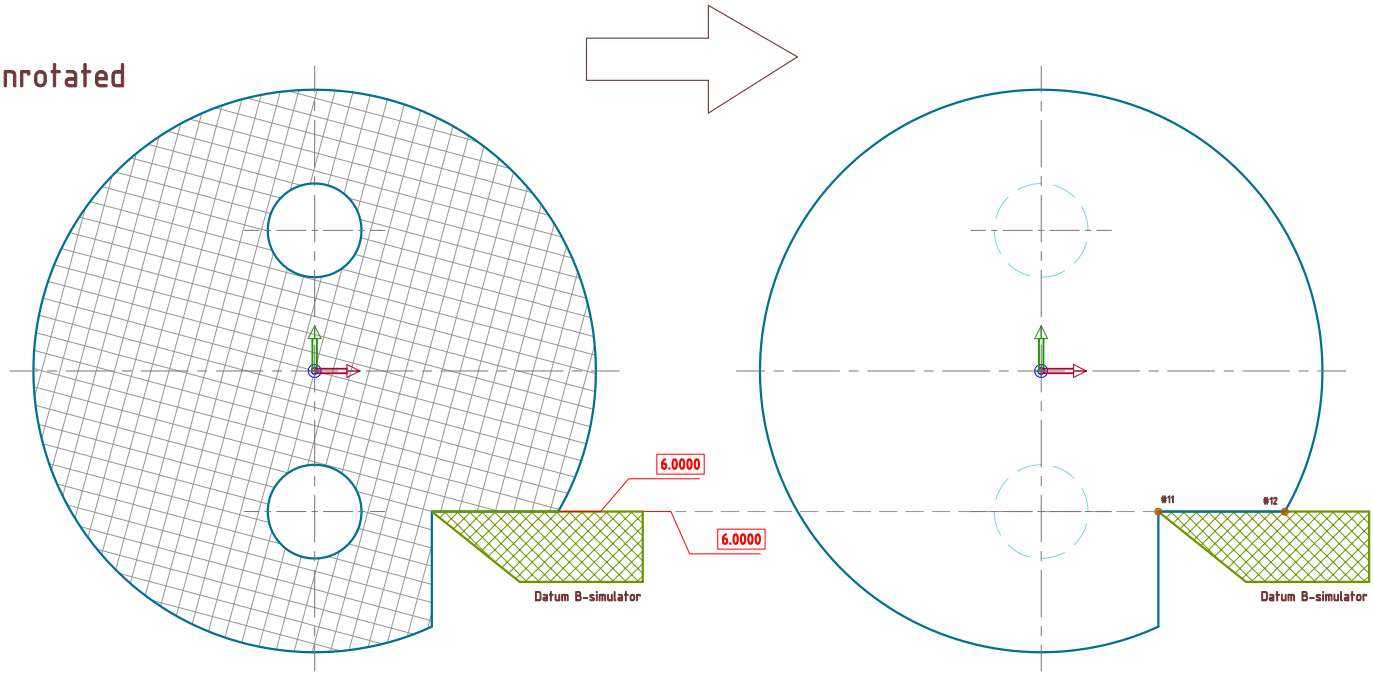
⌖ ∅0.3Ⓜ A BⓂ

Pic. #5

Unrotated



Unrotated



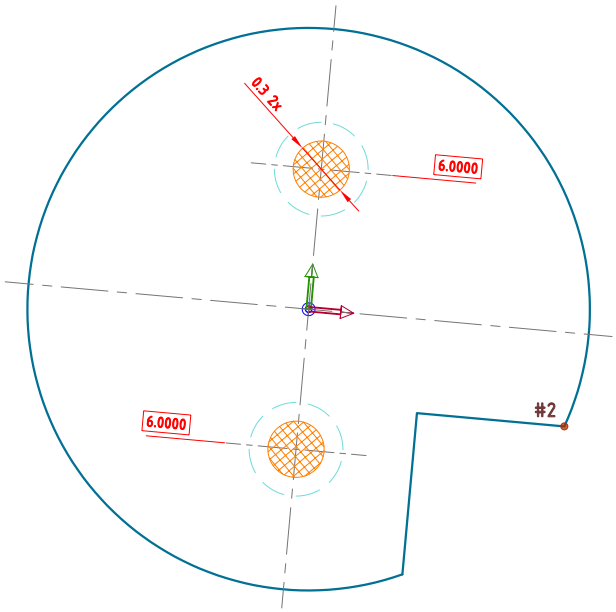
Datum B – tolerance zones

Pic. #6

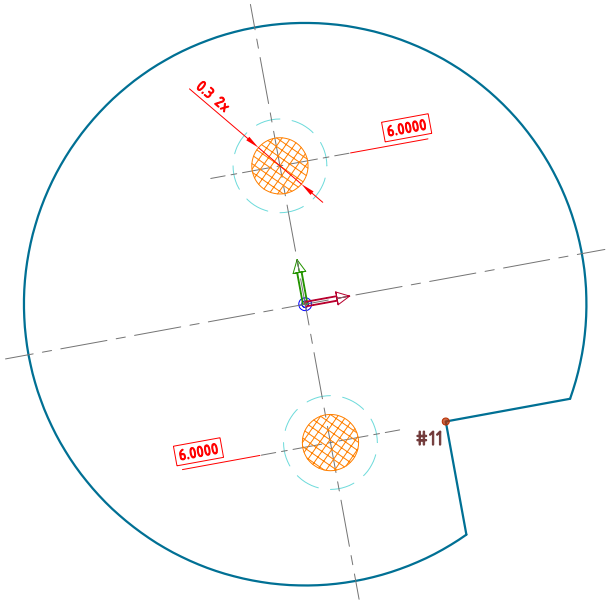
Datum B – simulator at 5.0000

⌖	∅0.3Ⓜ	A	B [BSC]

Max. rotatory position #1



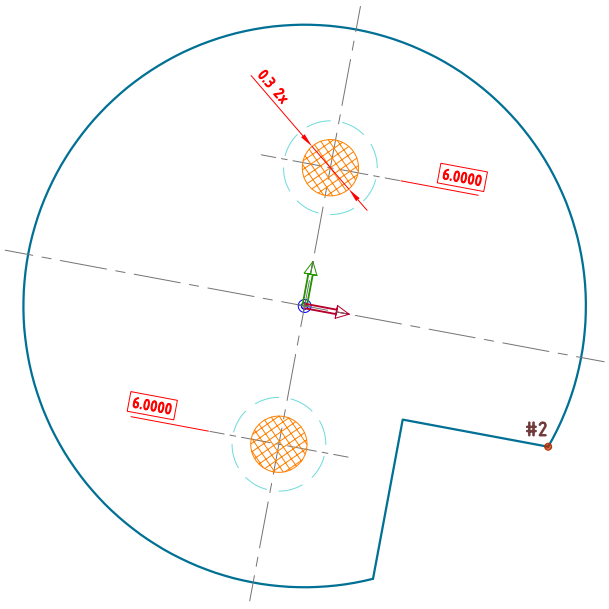
Max. rotatory position #2



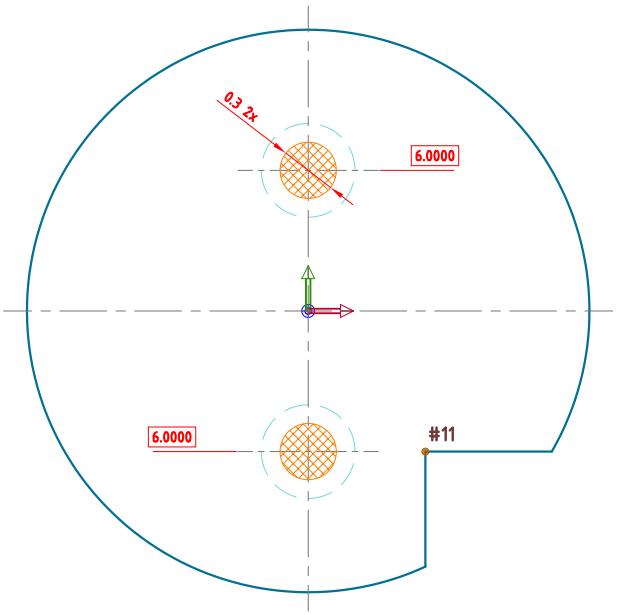
Datum B – simulator at 6.0000

⌖	∅0.3Ⓜ	A	BⓂ

Max. rotatory position #1



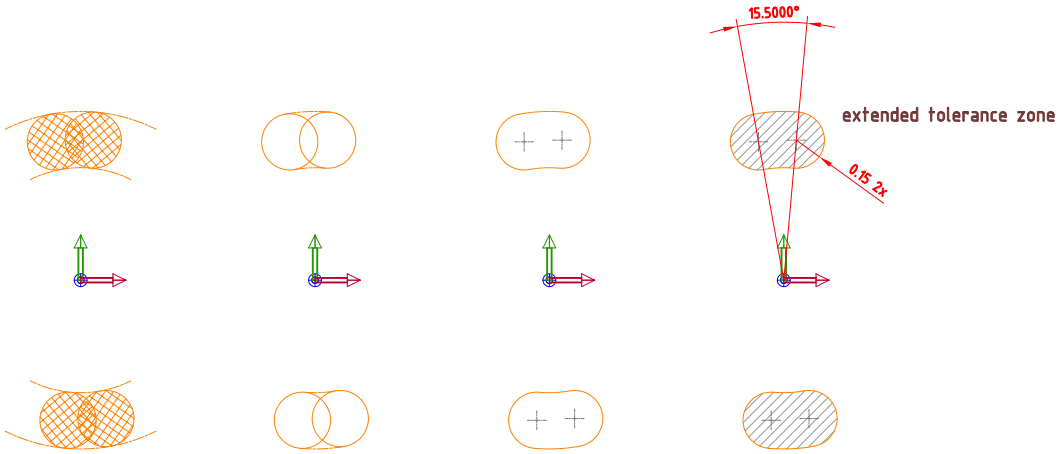
Max. rotatory position #2



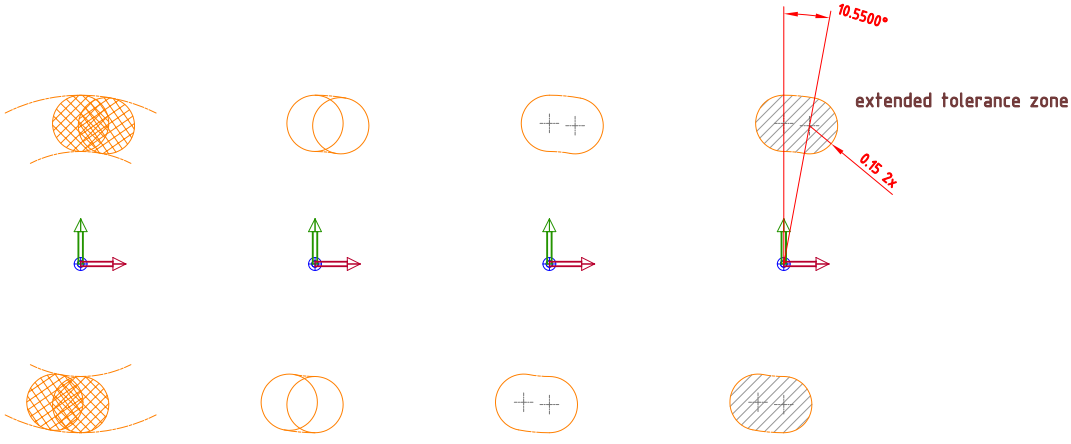
Datum B - tolerance zones

Pic. #7

Datum B - simulator at 5.0000

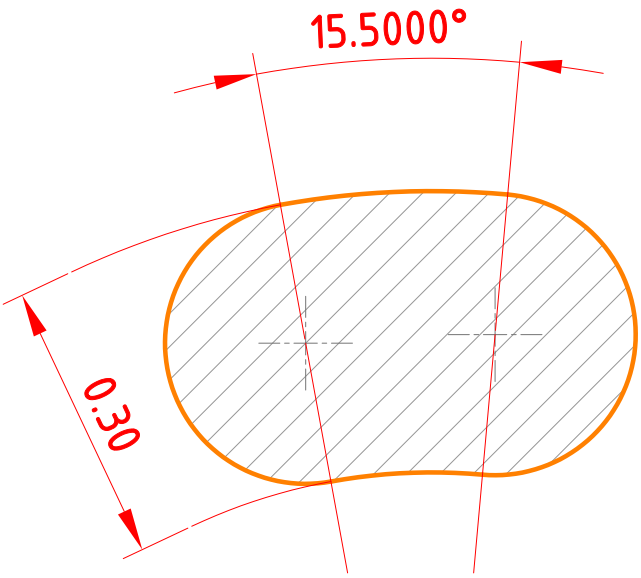


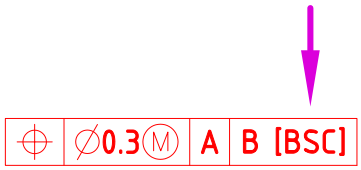
Datum B - simulator at 6.0000



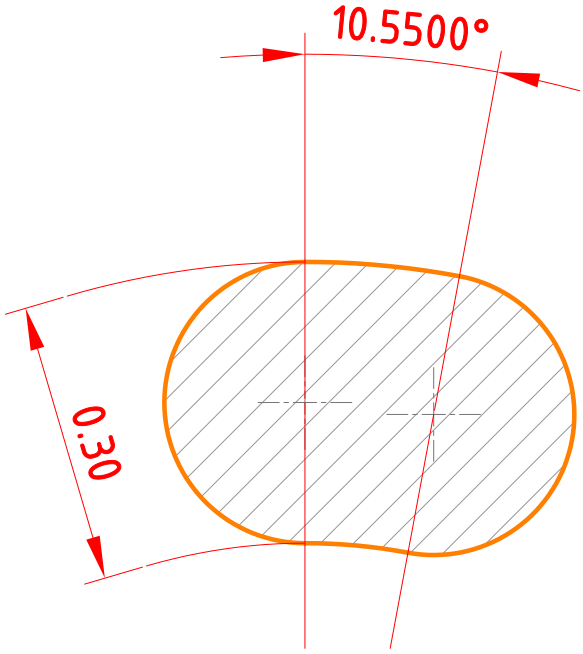
Extended tolerance zones

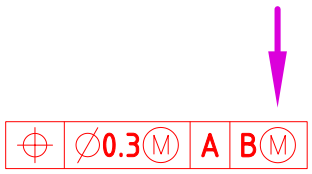
Pic. #8





The radial extended tolerance
has an angle of 15.5 degrees.
In spite of the missing MMC there
is an "immanent" datum B-profit
if the location of the datum
B-feature varies.





The radial extended tolerance
has an angle of 10.55 degrees.
The existing MMC on the datum has
a counterproductive effect.
It reduces the extension of
the tolerance.