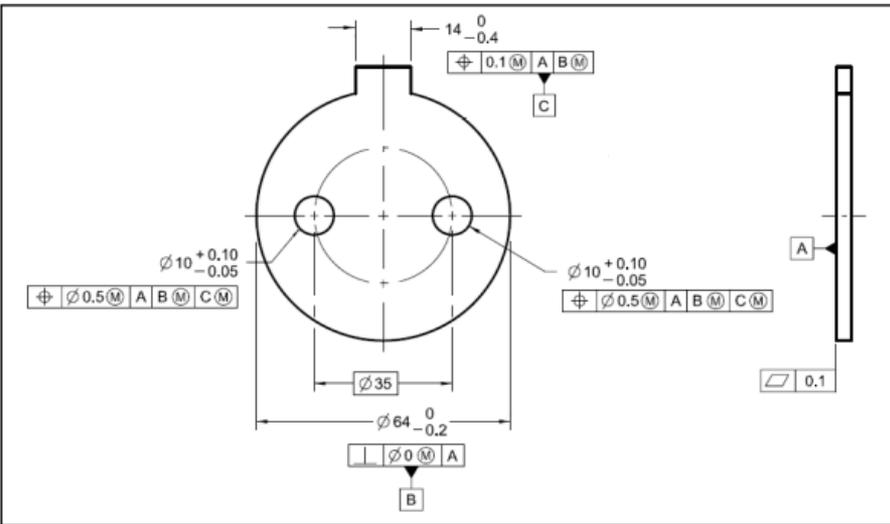
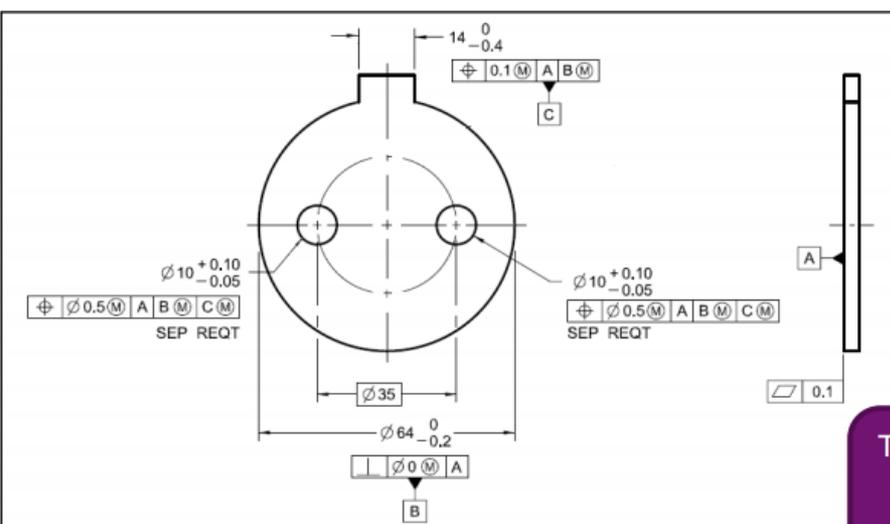


There are two drawings of the same part...

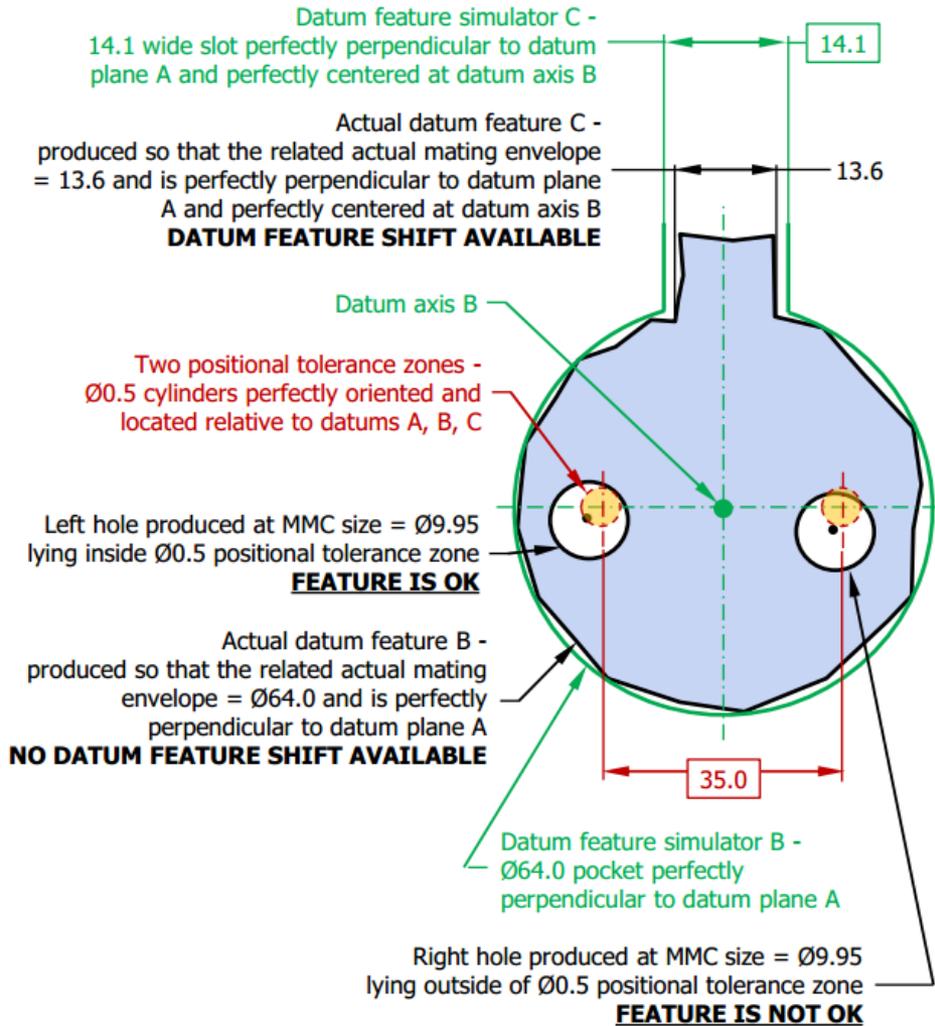
1. Two holes are controlled by simultaneous reqt.



2. Two holes are controlled by separate reqt.

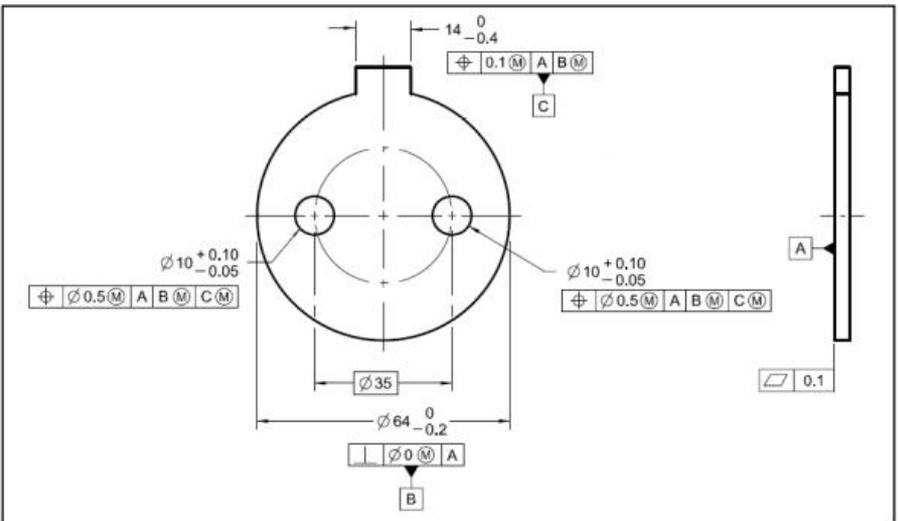


... and one part produced and inspected to see if it meets both prints...

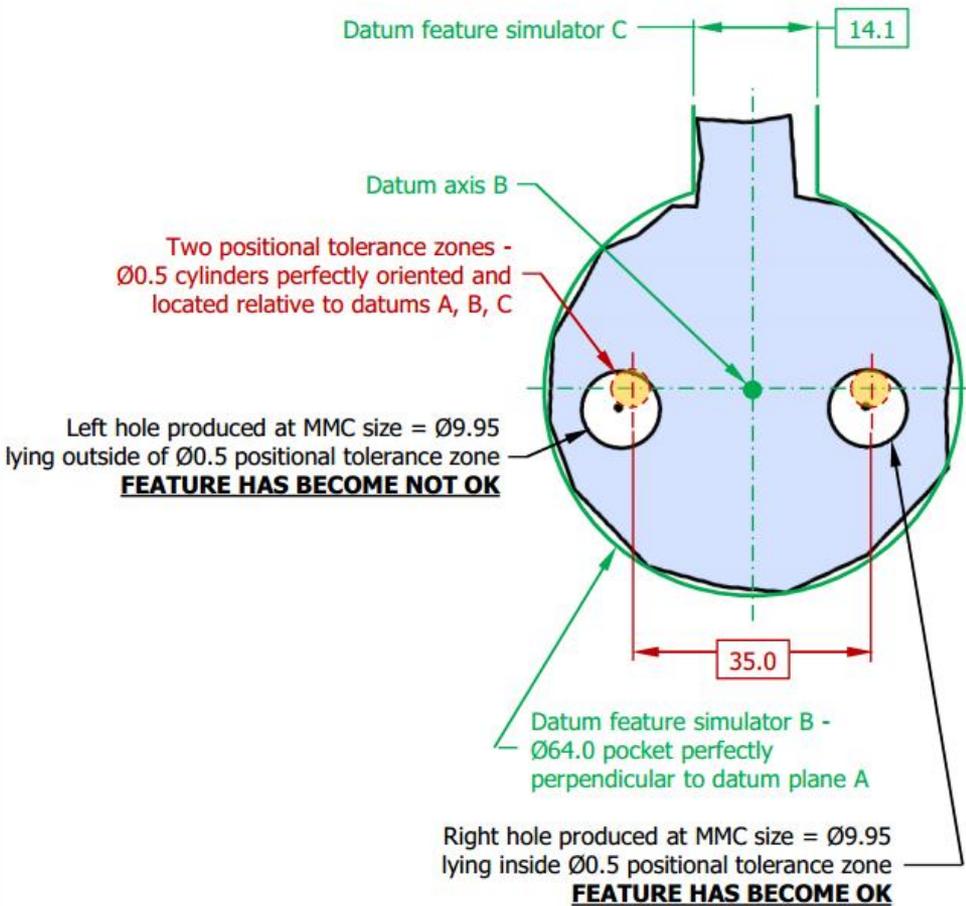


THIS PART WILL NOT PASS INSPECTION if it is placed in the gage in a way shown above because right hole does not meet its positional requirement. However, since datum feature C shift is available, the part can be rotated to bring right hole into its positional tolerance zone (see next pages).

1. Two holes are controlled by simultaneous reqt.

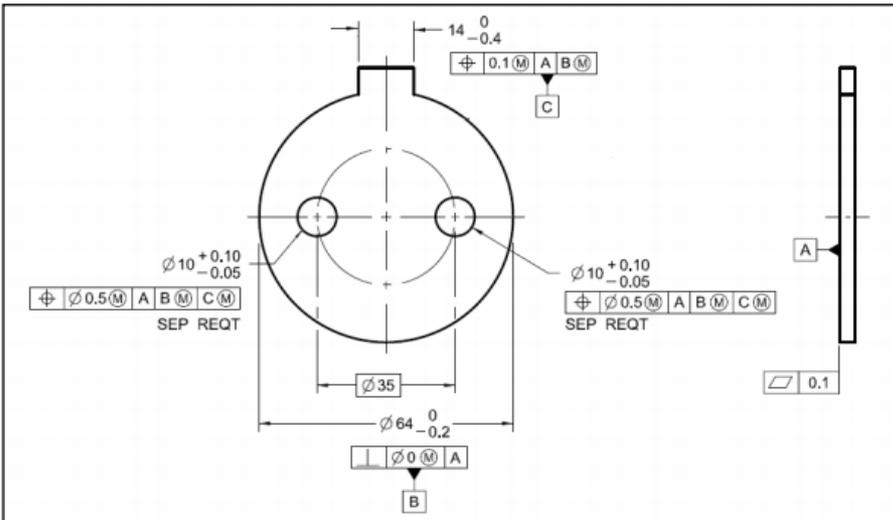


Part is rotated to bring right hole into its positional tolerance...

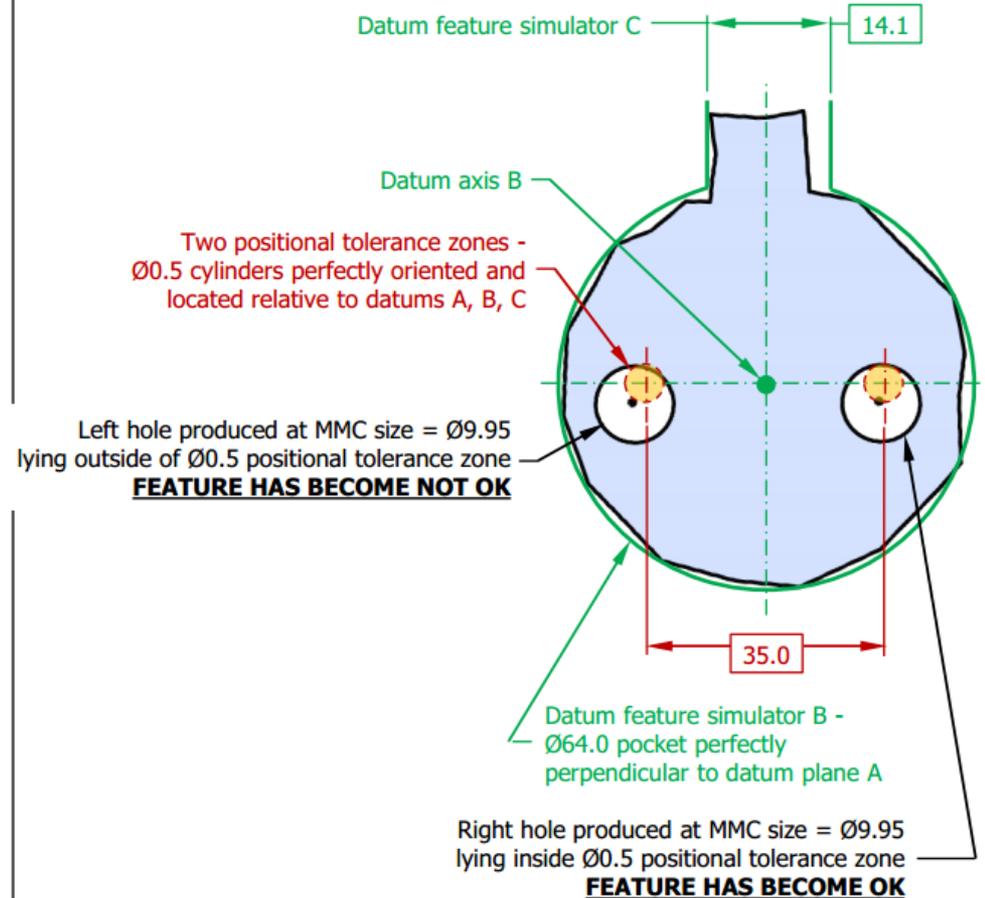


Right hole has been brought into its positional tolerance zone, but in the same time left hole has fallen out of its positional tolerance zone. PART STILL WILL NOT PASS INSPECTION.

2. Two holes are controlled by separate reqt.



Part is rotated to bring right hole into its positional tolerance...



Left hole has become NOT OK, but that is not a problem, because it has been already proven (see page #1) that left hole can fall into its positional tolerance zone when the part is in different orientation relative to datum feature simulator C. THIS DIFFERENT ORIENTATION OF THE PART IS POSSIBLE BECAUSE SEP REQ HAS BEEN SPECIFIED.