

# **TITAN-810 Custom Ball Valve – Blueprint Quiz**

1. What is the title of the part and its part number?
2. What material is this part made from?
3. What are the general tolerances for X, XX, and XXX dimensions?
4. What is the surface finish requirement (Ra value)?
5. What is the scale of the drawing?
6. Who are the drafter, checker, and approver listed in the title block?
7. What is the date this drawing was created?
8. What does the note about removing burrs and breaking edges specify?
9. What is the maximum fillet radius allowed unless otherwise noted?
10. According to the notes, what condition must the part surface be in before acceptance?
11. What is the diameter of the large through-hole feature?
12. How many R.287 fillets are called out, and where are they located?
13. What is the bolt hole circle (BHC) diameter for the 8x holes pattern?
14. What is the hole size and thread specification for the 6x tapped holes?
15. What is the depth of those 12-24 UNC threaded holes?
16. What is the angle shown on the central conical feature?
17. How many total R.500 radii are on the part?
18. What is the overall length of the part, as indicated along the main axis?
19. What is the tolerance range for the 1.050-inch feature (given with  $\pm .005$  limits)?
20. What finish operation or cleaning requirement is noted at the bottom of the print?