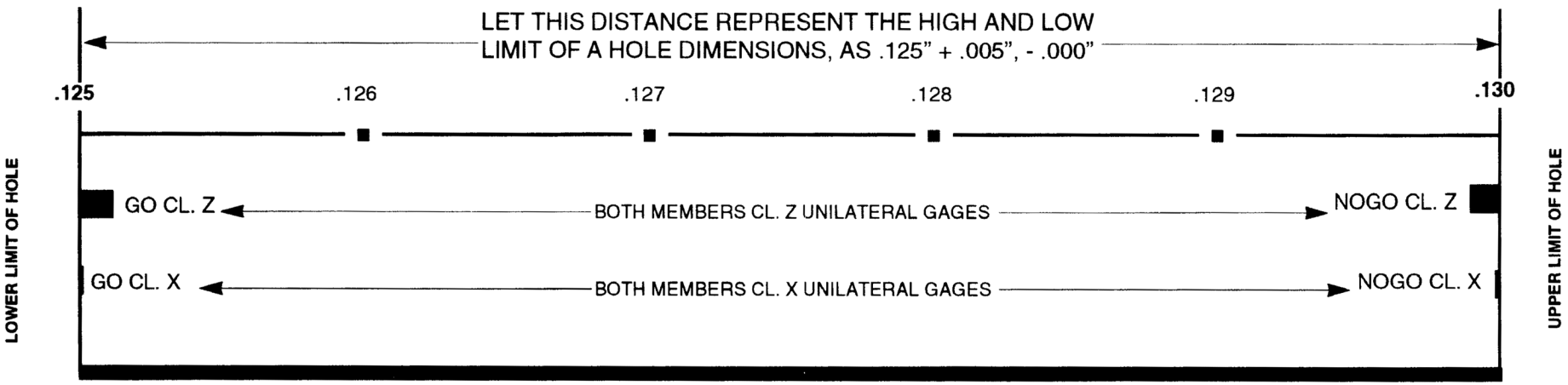
A Comparison of Gage Class to Part Tolerance

Your choice of class should be determined by your part tolerance, i.e. if the part tolerance is in tenths, a Y, X or XX should be ordered. If the part tolerance is in thousandths, a Class Z should be ordered.

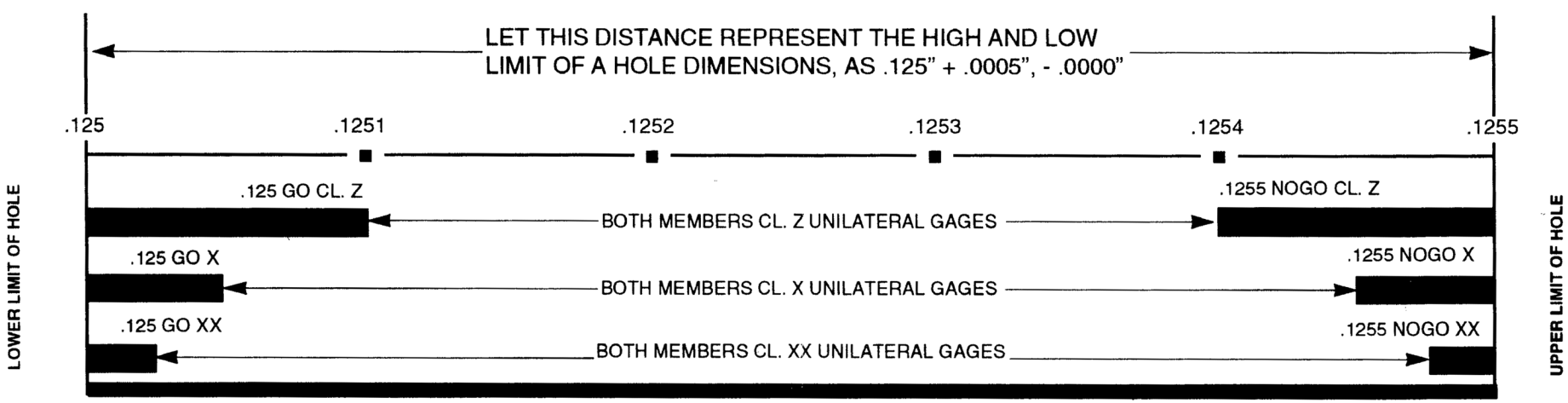
With a large part tolerance as below, a Class Z should be used. Using an X in this case results in a more expensive gage and a go gage that will wear out faster.



THIS AREA TO SCALE FOR .005" PART TOLERANCE

With a tight tolerance as below, a class Z Gage could use up 40 percent of the part tolerance and should not be used. An X or XX should be used so that less part tolerance is used up by the gages.

The blackened areas at the end of the arrows on the charts to the left represent standard gage makers' tolerances for the class indicated.



THIS AREA TO SCALE FOR .0005" PART TOLERANCE