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The F -pure threshold, the diagonal F -threshold, and the a -invariant are three important invariants for standard graded rings of positive characteristic. Hirose, Watanabe, and Yoshida conjectured some relations between these numbers for strongly F -regular rings. We prove their conjecture, only assuming that the ring is F -pure. Furthermore, we give an interpretation of the F -pure threshold of a standard graded Gorenstein algebra in terms of the maximal length of a regular sequence that preserves F -purity at each step. (Received September 16, 2015)