```
Hysteresis_correctness: THEOREM
  FORALL XIN1, XIN2, EPS, Q:
    HYSTERESIS_st_impl(XIN1, XIN2, EPS, Q) IMPLIES
      HYSTERESIS_tab_req(XIN1, XIN2, EPS, Q)

Hysteresis_consistency: THEOREM
  FORALL XIN1, XIN2, EPS:
    EXISTS Q:
      HYSTERESIS_st_impl(XIN1, XIN2, EPS, Q)
```