```
ext_axiom  THM

⊢  ∀A,B:Type. A = B ⟺ A ⊆ρ B & B ⊆ρ A  by StrongAuto
|
|\
| 1. A : Type
| 2. B : Type
| 3. A = B
| ⊢  A ⊆ρ B  by SubtypeRelCD
|
|\
| 1. A : Type
| 2. B : Type
| 3. A = B
| ⊢  B ⊆ρ A  by SubtypeRelCD
|
.\
. 1. A : Type
. 2. B : Type
. 3. A ⊆ρ B
. 4. B ⊆ρ A
. ⊢  A = B  by Fiat
END
```