Reflectivity $\beta \subseteq \alpha \implies \alpha \to \beta$
Augmentation $\alpha \to \beta \implies \gamma\alpha \to \gamma\beta$
Transitivity $\alpha \to \beta \wedge \beta \to \gamma \implies \alpha \to \gamma$
Union $\alpha \to \beta \wedge \alpha \to \gamma \implies \alpha \to \gamma\beta$
Decomposition $\alpha \to \beta\gamma \implies \alpha \to \beta \wedge \alpha \to \gamma$
Pseudo-transitivity $\alpha \to \beta \wedge \gamma\beta \to \delta \implies \alpha\gamma \to \delta$
Complementation $\alpha \twoheadrightarrow \beta \implies \alpha \twoheadrightarrow (R - \beta) - \alpha$
Multivalued augmentation $\alpha \twoheadrightarrow \beta \wedge \gamma \subseteq R \wedge \delta \subseteq \gamma \implies \gamma\alpha \twoheadrightarrow \delta\beta$
Multivalued transitivity $\alpha \twoheadrightarrow \beta \wedge \beta \twoheadrightarrow \gamma \implies \alpha \twoheadrightarrow \gamma - \beta$
Replication $\alpha \to \beta \implies \alpha \twoheadrightarrow \beta$
Coalescence $\alpha \twoheadrightarrow \beta \wedge \gamma \subseteq \beta \wedge \exists\delta : \delta \subseteq R \wedge \delta \cap \beta = \emptyset \wedge \delta \to \gamma \implies \alpha \to \gamma$