Lemma. Given $\mathbf{f}_1, \mathbf{f}_2, \mathbf{f}_3, \mathbf{f}_4 \in \operatorname{Hom}_{\mathbf{DP}}(\mathbf{A}; \mathbf{B})$ one has:

 $\mathbf{f}_1 \leq_{\mathbf{DP}} \mathbf{f}_2 \quad \mathbf{f}_3 \leq_{\mathbf{DP}} \mathbf{f}_4$

 $\mathbf{f}_1 \vee \mathbf{f}_3 \leq_{\mathbf{DP}} \mathbf{f}_2 \vee \mathbf{f}_4$