Lemma. Consider $\mathbf{f}, \mathbf{g}, \mathbf{h} \in \operatorname{Hom}_{\mathbf{DP}}(\mathbf{A}; \mathbf{B})$. One has

 $(\mathbf{f} \vee \mathbf{g}) \wedge \mathbf{h} = (\mathbf{f} \wedge \mathbf{h}) \vee (\mathbf{g} \wedge \mathbf{h}).$