Comparison WaStop and Duckbill DN750 head loss

The head loss curve for the tideflex TF does not account for system losses making it difficult to compare it to the head loss diagram for the WaStop 750 which shows the losses for the system.

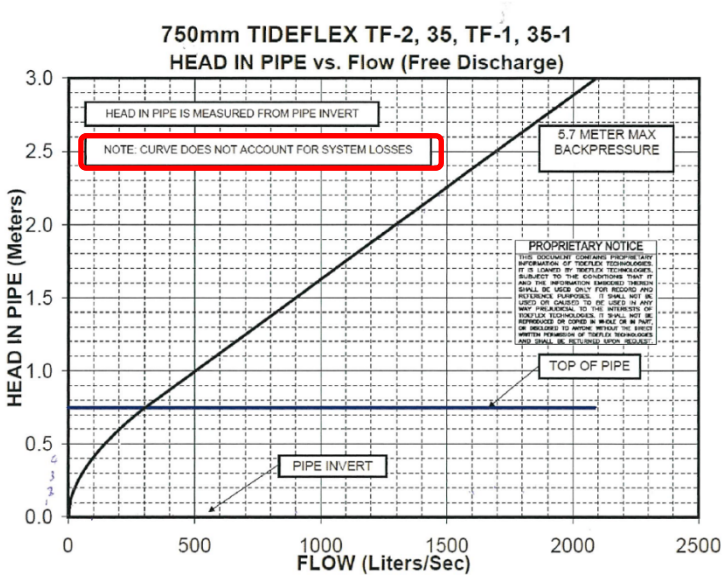

fig. 1 Head Loss of the TIDEFLEX valve DN750, 'NOTE: CURVE DOES NOT ACCOUNT FOR SYSTEM LOSSES'

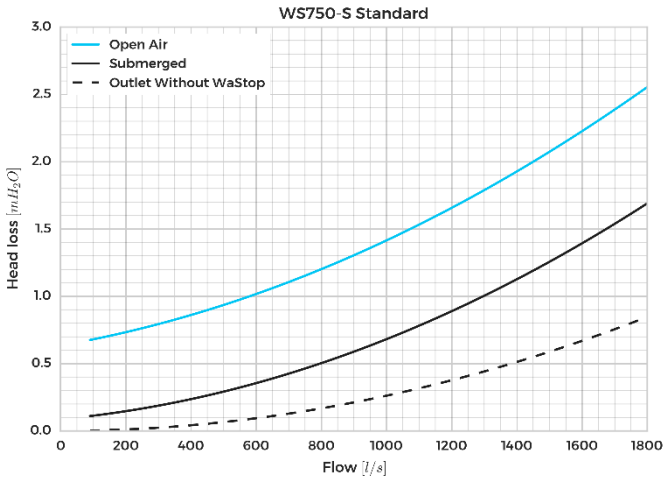

fig. 2 Head loss of the WaStop DN750, which includes the losses of the system.

Since a free discharge outlet will have a loss coefficient K_L = 1, shown in fig. 2 as the dashed line, to enable a comparison between the two head loss graphs we subtract the head loss from an outlet from the wastop graph, to show the added head loss to the system when installing a WaStop. Which would be equivalent to the representation of the Tideflex Duckbill head loss.

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The adjusted head loss graph for the WaStop DN750 for an open air or free discharge outlet is presented in fig 3.

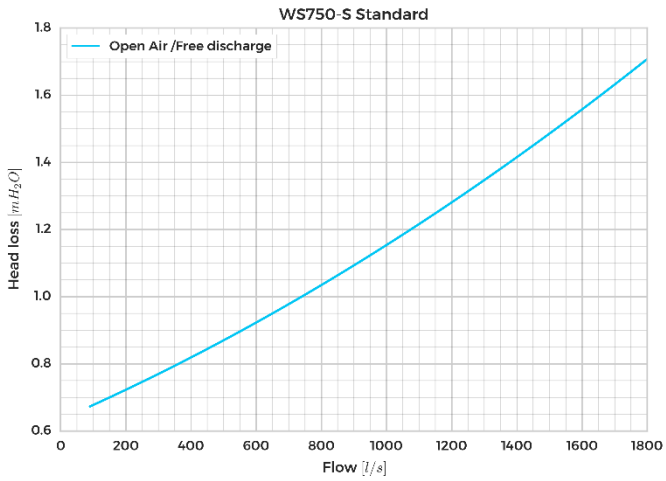
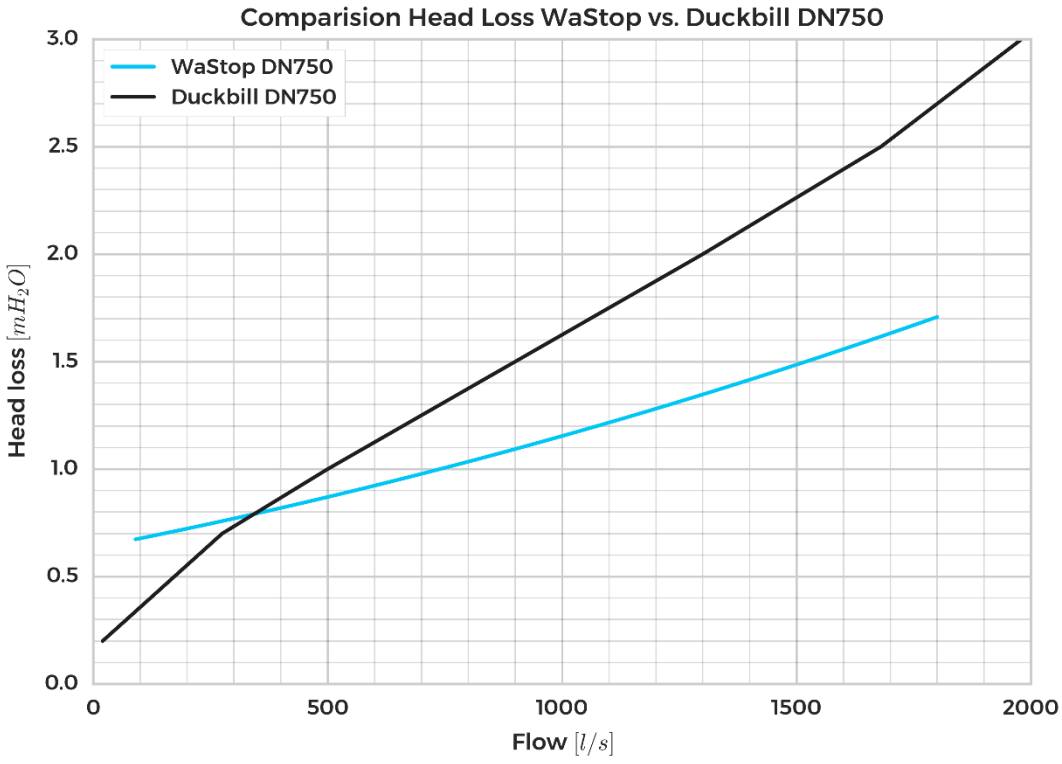


fig. 3 Head loss WaStop DN750 free discharge outlet. Not including system losses.

Putting the two head loss graphs together both showing the head loss for a free discharge outlet not including system losses yields:



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