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•	This investigation was conducted to show the influence of the tip gap size on the flow through an aggressive ITD close to separation.
•	LDV as well as pressure probes were applied
•	In plane C the upper 20% of the passage height is affected
•	The small changes in the duct inflow are responsible for a different behavior over a large spanwise area further downstream.
•	The comparison with the steady CFD simulation shows that the effects of the tip clearance variation were captured precisely.
•	The project goal was to create a unique database for flows within high diffusing S-shaped ducts to get more insight to their flow physics and for CFD verification.

























