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Subject: Tapered pipes to horns

Posted by [Don](#) on Thu, 16 Sep 2004 18:38:09 GMT

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There was some talk about response ripple from tapered pipes in the single driver forum. It occurs to me that there is a fuzzy line between tapered quarter wave pipes and horns. A narrow horn can be called a tapered pipe and a widely tapered pipe with large mouth area becomes a horn. All pipes will generate organ pipe resonances at harmonic intervals, so ripple is a part of the deal, seems to me. That is why they have stuffing. Horns spread out the resonances in a way that sort of fills in the gaps between peaks, at least that's this layman's way of viewing it. With the right amount of taper and mouth area, the ripples are reduced and an infinite horn is smooth as can be. Size is a factor though and smaller pipes are just as good for certain things. What are your views about tapered pipes and horns? How much ripple is acceptable, and what can be done to reduce size and reduce ripple too? Sorry for my lengthy drivvel, Don

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