

Average* Mis-Alignment Per Manufacturer

(in thousandths of an inch)

Make	1st valve up-stroke	2nd valve up-stroke	3rd valve up-stroke	1st valve down-stroke	2nd valve down-stroke	3rd valve down-stroke
Bach	.015	.022	.014	.013	.015	.013
Benge	.019	.019	.021	.024	.022	.025
B&S	.007	.007	.010	.011	.015	.011
Calicchio	.016	.015	.016	.021	.019	.018
Conn	.017	.016	.015	.019	.017	.018
Courtois	.020	.019	.022	.029	.029	.030
Destino	.015	.017	.009	.016	.025	.035
Eclipse	.020	.010	.032	.035	.022	.016
Edwards	.010	.011	.021	.033	.038	.041
Getzen	.021	.023	.023	.028	.024	.025
Holton	.026	.026	.032	.025	.023	.026
Jupiter	.018	.020	.010	.012	.015	.012
Kanstul	.019	.018	.023	.026	.018	.019
King	.020	.021	.022	.023	.022	.019
Lawler	.020	.017	.021	.038	.026	.027
LeBlanc	.032	.032	.028	.021	.022	.021
Marcinkiewicz	.018	.018	.016	.043	.036	.032
Martin	.023	.024	.021	.015	.013	.011
Monette	.015	.022	.005	.032	.008	.028
Schilke	.013	.017	.014	.015	.017	.016
Selmer	.017	.019	.018	.022	.023	.019
Stomvi	.013	.015	.018	.017	.015	.017
Taylor	.011	.022	.026	.007	.008	.014
Wild Thing	.009	.010	.006	.015	.014	.011
Yamaha	.012	.013	.012	.012	.013	.013

*Averages computed from over 30 years of empirical data

All horns are designed with proper valve alignment in mind. It is through accumulated tolerances, unstable pad material, and speed of manufacture that horns exhibit improper valve alignment.

For reference, the average difference in bore size between medium and large bore trumpets is only .008"