

"Ghost Register"

C	C#	D	Db	E	F	F#	G
0	1-2-3-4	1-3-4	2-3-4	1-2-4	1-4	2-4	4

9 Notes that can be played with 4th valve only

17 Notes that can be played with 2-4

4th Valve use on Euphonium:

The 4th Valve can be used primarily for 3 main reasons

- 1) More in Tune option for valve combo 1-3 (4) and 1-2-3 (2-4)
- 2) Alternate Fingering for some notes: typically lowers the pitch
- 3) Extends the lower range of the instrument (varies depending on model of instrument)

The above are typical fingerings that can substitute in the 4th valve, and the 2+4 combo

Note: 4th valve can also put a Bb instrument in the key of C and allow for some interesting fingering combinations.

This creates the opportunity for some substitute fingers that would be equal to a fingering one whole step lower with the 4th valve added

Ex: First space on Bass clef A is typically played 2nd valve, but with the addition of the 4th valve, it can be played with 1+2+4

This is very rare, I am just stating that it CAN be done

The above shows fingerings that typically can be done, but can vary depending on instrument model and player ability