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NGC
CHOKE GUIDE LOCATION

If you harbor any confusion about the NGC and choke guide position relative to rod length, here's all you need to know.

It's often said that a picture is worth a thousand words. And yet, where the New Guide Concept is concerned, the pictures used to depict the system have often created an incorrect notion in the minds of many rod builders.

Perhaps the most common misconception concerning the NGC, in any of it's various forms and implementations, is that there is or should be, a specified distance between the choke guide and the tiptop. This is incorrect.

Spinning Outfits

On a spinning outfit, the line comes off the reel in coils. Those coils must be controlled and straightened before they reach the tiptop. On conventional Cone of Flight spinning outfits, this process takes place between the reel and the tiptop, along what is for the most part, the entire length of the rod.

With the NGC the process is abbreviated. NGC line control takes place along a shorter distance located between the reel and what is known as the "choke" guide. There are several methods for locating the choke guide. These include the 27X factor, reel spool upsweep angle (NGC), and KR Concept methods.

When looking at photos or illustrations depicting the NGC, some amount of rod length extends beyond the choke guide. This amount is not specified for several reasons. First, because it is immaterial in terms of line control. Remember, with the NGC, line control takes place between the reel and the choke guide. Beyond the choke guide there is nothing left to do. Second, rod length plays zero role in line control. The important factors are reel spool size, line type/diameter and guide selection.

The portion of the rod which extends beyond the choke guide is of no concern, other than the normal consideration regarding proper stress distribution by guide number and spacing.

What Really Matters

Take a look at the illustration to the right. Five rods of different lengths have been fitted with the same handle and the same reel. Therefore, under any respective NGC variation, the choke guide location will be the same, regardless of the fact that the rods are each of a different length. Again, with the NGC, line control takes place between the reel and the choke guide. The portion of the rod beyond the choke guide plays no role and is therefore unimportant in this process. Under any variation of the NGC, the choke guide is always located some specified distance from the reel, rather than from the tiptop.

Looking at the illustration once more, note that as rod length increases, more running guides are added beyond the tiptop in order to provide proper stress distribution for that portion of the rod. A shorter rod will require fewer running guides while a longer rod will require more running guides. A very short rod may even utilize the choke guide as the tiptop (similar but not identical to a Cone of Flight System) while a very long rod may sport running guides along more than half its length! But in any case, for the same reel, the distance between that reel and the choke guide should be the same regardless of total rod length.

Correct!

Glancing again at the illustration to the right, all five rods utilize the same reel and therefore the choke guide location relative to the reel, is the same on all three rods. As the rod gets longer, more running guides are added, but the choke guide location does not change. All five set ups are therefore correct, regardless of the amount of rod extending beyond the choke guide. ✍

Spinning Outfits utilizing the same reel on rods of different lengths featuring the New Guide Concept System.

Number and size of transition and running guides is dependent on rod power and length. However, choke guide position is dependent solely on reel spool upsweep (NGC) or reel spool size (27X) and is not affected by rod length.