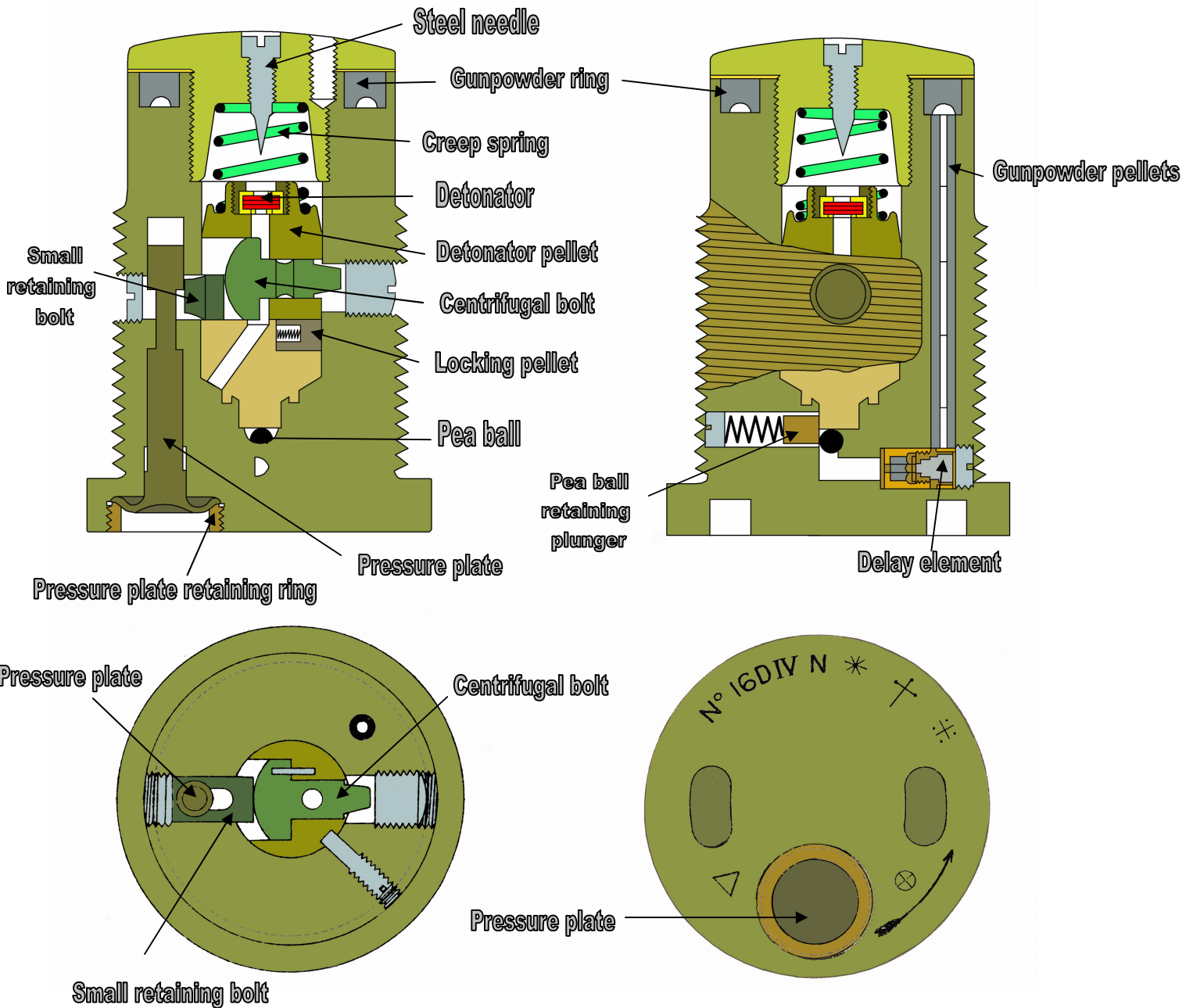


## BASE PERCUSSION LARGE No. 16 DMk IV N

This fuze was used in naval AP shell 5.5 inch and above. The "D" in the nomenclature indicates that the fuze has been fitted with a delay element. This fuze is made from "Lead free" alloys. It also differs in that the pressure plate is retained by a steel protecting ring instead of being covered by a plate.



### ACTION.

On firing the gas pressure generated by the propellant drives the pressure plate into the body of the fuze. This action frees the centrifugal bolt to move outward under the centrifugal forces being applied by the spin of the shell after the acceleration ceases. This action brings the channel in the bolt into the armed position. At the same time as the acceleration ceases the pea ball retaining plunger moves and frees the pea ball which clears the channel to the delay element and the gunpowder ring. On impact the detonator pellet flies forward and drives the detonator onto the needle. The flash from the detonator passes down the channel into the delay element and then into the gunpowder pellets and then into the gunpowder ring. This flash is passed into the filling of the shell, which by this time the projectile has theoretically penetrated the armour into the interior of the ship.