

British fuzes were originally given names, which soon became cumbersome. A direction was given in 1887 to number all fuzes. Initially some attempt was made to apply order to this system. The numbers 1 to 19 were for percussion fuzes and numbers 20 and 21 were for rocket fuzes. Numbers 22 to 50 were to be for time fuzes and 51 onwards was to be for time and percussion fuzes. They even left spaces for later additions. Unfortunately the planners did not see the huge numbers of fuzes coming. The system (?) fell apart but being British they stuck with it until the 1950s when a new numbering system was introduced. All fuzes were given a number commencing with the letter "L" and a simple sequential number regardless of the type or purpose of the Fuze. Order at last.

For those of you who have the necessary masochistic streak the system (?) in or around 1950 was roughly as follows:

Percussion fuzes numbered from 1 to 19 then jumped to 44.

Combustion time fuzes started at 50 then went back to 25 as some numbers were left over.

Mechanical time fuzes began at 200.

Some combustion time and percussion fuzes were converted to time only. Adding 100 to the original number of the fuze indicated this. But you had to know the original number of the fuze if this was to mean anything to you.

Fractional numbers were introduced to indicate that the original numbered time fuze had had a percussion fuze added underneath as a gain. Eg. 80/44.

Original 500 numbered fuzes were supposed to be for naval service only. The brits ruined this by using many of these fuzes in land systems.

The 600 numbers were allocated to the demolition and booby trap stores.

The 700 series were for the rockets or proximity fuzes.

RAF bomb fuzes were given the same numbers as the Army. Endless confusion here. 1941 the RAF were given the block of numbers from 844 to 999. Unfortunately the Army also used some of these numbers.

Some early fuzes were renumbered to bring the fuze into line with the new block of numbers. eg 46 became 846.

None of the above should be taken to indicate that a fuze number conforms to the rules as spelled out. There are many oddities and black sheep out there. If you have any information, technical drawings, photographs or corrections to the following we would like to hear from you.

BRITISH NAMED FUZES.

NAME	TYPE	DATES	FOR	COMMENTS
Fuze Percussion Base Hotchkiss	Base Perc/graze	1885/1956	6pr. Anti torp Gun	relied on lead plasticity
Fuze Percussion Base Nordenfelt	Base Perc/graze	1885/1901	6pr ditto	Relied on split ring. V/dangerous. All these fuzes were destroyed in 1900.
Fuze Percussion Base 9.45" Howitzer	Base Perc/graze	1904/1920	Austrian Howitzer purchased by UK.	Relied on stirrup spring.

BRITISH NUMBERED FUZES.

TITLE	DATES	FOR	COMMENTS
Fuze Perc Bolt No 1	1885/1919	Armstrong's rifled Breech loaders	Used centrifugal bolt as safety device. Graze
Fz Perc DA w/cap No. 1	1900/1919	Armstrong's BL and early trench Mortar	
Fz. Perc plain No.2	1870/1921	Armstrong's fd service fuze.	Needle disc pattern
Fz Perc DA No 3	1880/1919	RML, siege, train and Mtn guns.	Needle disc pattern (4 mks)
Fz graze No. 4	1899/1901	Lyddite shells for war in SA.	Not V/reliable. Emergency issue in 1914/15 due to war shortages. graze
Fz Perc Pettmans GS No 5	1866/1921	Spherical or elongated shells.	Relied on a ball coated with detonating compound. Allways
Fz Perc Pettmans LS No 6	1861/1921	For common shell	
Fz perc RL No.7	1872/1911		graze
Fz perc No 8	1885/1911		Centrifugal bolt safety. graze
Fz perc base Armstrong No.9	1890/1923		Gas pressure to unlock safety bolts. graze
Fz perc DA delay No. 10	1889/1910		½ second delay by quickmatch Needle disk
Fz base graze No 12 spec	?	QF 18pr AP projectile	
Fz DA impact No 13		HE shell in BL 9.2", 7.5" (India), 6" QF 6", 4.7"	
Fz No 16	?	BL 18" How, 12" How, 9.2" How, 8" How, 6" G, 6" How	
Fz No 18		HE shell in BL 7.5" (India), 6", QF 6", 4.7", 4" 12pr 12cwt.	
Fz time No 25			
Fz time No 26	1909/1913	Anti-torpedo boat shrapnel	Made from gunmetal to resist saltwater corrosion
Fz time No 27	1917/1921	Trench mortar	Originally known as No 05A Trench.
Fz time No 28	1917/1921	Trench howitzers	Used a length of lead covered Bickford fuze that was pierced by an awl prior to firing. Known as the

TITLE	DATES	FOR	COMMENTS
			"Sutton" after its inventor.
Fz time No 29	1917/1921	Trench howitzers	came in 9, 12 or 15 second fixed timings.
Fz time No 30	1900/1919	Anti torp boat shrapnel	To the new 2inch FHG and made from gunmetal.
Fz time No 31	1917/1935	Trench mortars	Double banked TCF. Originally it would fire at 18" drop but later was made safer.
Fz time common No 32	1854/1921	Spherical shrapnel	Wooden time fuze
Fz time diaphragm shrapnel No 33	1854/1921	Spherical shrapnel	Wooden time fuze.
Fz time hand gren No 34	1830?/1902	Hand grenade	Simple time fuze lit by thrower.
Fz time mortar large No 35	1805?/1921	Mortar shells	A wooden plug with a fixed length of fuze ignited by the flash of discharge.
Fz time mortar small No 36	?	Mortar shells	Same as for No 35 but for the size of plug hence a different burning time.
Fz time para 10" No 37	1866/1921	Boxers parachute light ball	10" referred to the size of the parachute ball that burned for 15 sec.
Fz time para 8" No 38	1866/	ditto	Burning time 13 sec.
Fz time para 5 1/2" No 39	1866/	ditto	Burning time 10 sec
Fz time 30 sec ML No 40	1876/1909	2.5' howitzer?	Wooden fuze with burning time 15 to 30 secs.
Fz time 15 sec ML No 41	1878/1900	ditto	Wooden fuze with burning time 15 secs.
Fz time 15 sec MI special priming	1885/1909	2.5" howitzer	Additional piece of guncotton wick around the head of the fze.
Fz time 15-sec w/detonator No 43.	1830/1900	RML with gas-check shells	Fitted with a hammer and shear wire impinging on a detonator because there is insufficient flash to ignite the fuze.
Fz perc DA w/cap No 44	1913/1950	9.2", 6" and 4.5" How smoke.	First fuze to be fitted with a centrifugal shutter for safety. This fuze went through 32 marks.
Fz perc DA w/cap No 44B	1915/1954	Any TNT filled shell	As for No 44 but with weaker shutter spring to allow operating at lower RPM.
Fz perc DA w/cap No 44P	1936/1954		As for No 44 but with the magazine filled with gunpowder. For naval and coast prac.
Fz perc No 44/80	1914/1927	General AA work	Shutter adjusted to open between 6000 & 8000 RPM. Used as a gain under various time fuzes.
Fz perc No 44/83	1918/	4.5" and 6" how as AA	Shutter adjusted to open between 3500 & 4500 RPM. Used under the 83/44 time fuze
Fz perc DA impact No 45	1914/1955		A No 13 with the addition of a shutter.
Fz perc DA impact No 45P	1920/1955	Ditto	Converted No 45 by filling magazine with powder to introduce a short delay effect.
Fz perc graze No 46	Never formally introduced		Designed in 1914 as a replacement for the No17
Fz perc DA impact No 47	1915/1916	For use against airships	Designed to operate against fabric but not successful.
Fz perc large bronze No 48	1916/1919	For use against warships.	A No16 body with top cap replaced by a gain carrying a powder delay, needle and det and CE pellets
Fz perc w/cap No 49	1917/1920	3" 20cwt AA & Davis RCL anti-zeppelin shell	A No 18 with the hammer protruding beyond the head of the shell to act more rapidly. This was originally GS FHG then changed to 2" It then became the No 100. Very rare.
Fz perc DA w/cap No 50	1918/1921	4.5" How prac shell	This was converted from the No44 by moving the shutter and filling the magazine with powder. Also very rare.
Fz perc DA w/cap No 51	1916/1956	4.5" How shrapnel	A No 44 cut down and mounted over a No 2 Gaine. Also very rare.

TITLE	DATES	FOR	COMMENTS
Fz time & concussion Medium No 52	1881/ 1893	Armstrong pattern	Single banked time fuze
Fz time & concussion small No 53	1886/1893	Ditto	Both the 53 & 52 were declared obsolete because of weak shear wires.
Fz time & percussion No 54 Middle	1887/1921		Single banked combustion.
Fz time & perc short No 55	1882/1914		Single banked combustion.
Fz time & perc No 56	1894/1921		Similar to the 55 but with a different gas escape system? The Mk 4 and 5 were the only mks. Burning time of 13 secs.
Fz time & perc 22 sec No 57	1900/1921	Shrapnel shell	Developed for use in the Sth African war for long range Apers work.
Fz time & perc 17 sec No 59	1902/1909	A Vickers fuze for the 12.5pr Shrapnel only.	A two-part fuze. Part one attached to shell body part two carried separately and assembled at firing point.
Fz time & perc No 58	1901/1909	Erhardt 15pr QF	German designed model was aluminium but the British Mk II was brass.
Fz time & perc No 60	1901/1921		Double banked combustion fuze.
Fz time & perc No 60C	1902/1921		This fuze was made by converting Nos. 57, 57 or 61 with a slower time ring composition.
Fz time & perc No 61			This fuze was the No 56 converted also as above.
Fz time & perc No 62	1903/1922		Introduced to replace the No 54. The Mk I had both time rings moveable the Mk II had only one.
Fz time & perc No 63	1904/1922	10pr & 2.75" mountain guns.	The first tension fuze ever issued. All the others were of the clamped variety. These were converted to No 65 in 1913.
Fz time & perc No 64	1910/1921	For Naval shrapnel.	An early attempt at streamlining the fuze body.
Fz time & perc No 65	1910/1921		This fuze was a converted No 56,57, 60 or 63. This was done by refilling the time rings.
Fz time & perc No 65A	1914/1932		This is a No 65 but of new manufacture not a conversion.
Fz time & perc No 65C	1916/1919		A No 65A with a weakened shear wire for use in Naval service only.
Fz time & perc No 66	1916/1916	6" QF AA guns	Never issued. Time rings filled grained instead of mealed powder.
Fz time & perc No 67	1913/1913	6" BL How Shrapnel	Never issued it was a No 82 modified to fit a GS FHG.
Fz time & perc No 68	1913/1913	10 pr & 2.75" mountain guns	Never issued.
Fz time & perc No 69	1916/1919		Similar to the No 65A but with time rings filled with No 80 composition.
Fz time & perc No 69	1913/1923	For high altitude AA.	A conversion of the No 65A having a pointed cap and nose exhaust.
Fz time No 70	1916/1919	Naval star shell	A conversion of the No 65A by removal of the percussion element and the substitution of a weaker shear wire.
Fz time No 79	1917/1935	Trench mortars	An improved version of the "Sutton" No 28 using a slower burning fuze to give 22 sec of flight.
Fz time & perc No 80	1905/1943	13, 18pr and 3.7 How. Shrapnel BL 2.75"	This fuze introduced the 2" FHG and it was originally a Krupp design made under license by Vickers. The early models were aluminium
Fz time & perc No 80B	1916/1943	ditto	The No 80 had a thin lip on the body that fitted a flange on the shell in order to fit other types the lip was omitted and the number changed to 80B.
Fz time & perc No 80/44	1914/?	ditto	This fuze was a modification of the No 80 with a

TITLE	DATES	FOR	COMMENTS
			weaker creep spring no numerals below 2 and a stop-pin to prevent setting below 2.
Fz time No 80/44	1917/1944	AA HE shell QF 3" 20cwt. 13pr 9cwt.	This fuze was the No 80/44 with the percussion element removed. The graduations 0 to 2 were blacked out.
Fz time No 80B/44	1917/1944		This fuze was a converted No 80B Some were converted to No 87As.
Fz time & perc No 81	1909/1945	For Naval use in star shell 6" to 12pr.	This fuze was make from gunmetal to resist sea air corrosion. Time rings are filled "30 sec" powder.
Fz time No 81/44	1916/1956		An 81 converted as for 80/44
Fz time & perc No 82	1909/1925	COW 4.5" How	A double banked tension type with an aluminium body and brass time rings.
Fz time & perc No 83	1911/1945		Similar to the No 81 but with a stronger stirrup spring and a body made from "Class C metal"
Fz time & perc No 83M	1913/1913		A No 83 modified by having the powder in the magazine replaced by a pellet. Design dropped.
Fz time & perc No 83R	1917/1925	Howitzer shell	A No 83 modified by having a weaker stirrup spring for firing at low velocity charges.
Fz time No 83/44	1916/1918		Conversion of 83 or 83R design dropped.
Fz time & perc No 84	1913/1920		A No 81 with the substitution of the No 82s percussion element and the ignition element being moved down into the fuze body.
Fz time No 84/44	1916		Design cancelled.
Fz time & perc No 85	1916/1921	AAA	This was an American fuze made to British 2" FHG. Made by the "Semple Coy" of Philadelphia. It was fitted with a nose exhaust.
Fz time & perc No 85G	1916/1921	AAA	
Fz time & perc No 85R	1916/1920	AAA	Different time ring filling.
Fz time No 85/44	1917/1921	AAA	The usual /44 conversion.
Fz time & perc No 86	1916/1916		Gave very poor performance at proof and were declared obsolete there and then.
Fz time & perc No 87	1916/1921	AAA	This is a No 80 converted by substituting a long burning powder in the time rings.
Fz time & perc No 87C	1917/?	AAA	Fitted with a clamping nut instead of being tensioned.
Fz time No 87/44	1916/1919	AAA	Withdrawn in 1916 due to high numbers of malfunctions.
Fz time & perc No 88	1917/1945	BL 9.2" G, 6" G, 60pr.	This was an 83 with the bottom time ring filled with a slower burning powder (RD202)
Fz time & perc No 88R	1917/1921	AAA	This was an 83R converted by filling the bottom time ring with RD202.
Fz time No 89	1917/1934	4.7" and 60pr Shrapnel for AA work. and later up to 12" normal shrapnel.	The only three-ring time combustion fuze in British service with a burning time of 40 secs.
Fz time & perc with cap No 91	1916/1917		This was an attempt to thicken up the head of the No 90.
Fz time & perc No 92	1918/1945	Long range Shrapnel	A converted No 84 with top ring filled No 80 powder and the bottom ring filled RD202 giving a burning time of 44.5secs.
Fz time DA No 90	1916/1916	AAA	Intended to be a sensitive fuze for Anti-Zeppelin work then later for use in chemical shell. Never introduced into service.
Fz time & perc No 93		Shrapnel shell below 13.5" except 3.7" how.	This was an 81 filled as for an 88 giving a burning time of 48 secs.
Fz time & perc No 94	1916/1921	Long range shrapnel	Originally an 80 with time rings filled with "Chilworth

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			composition" giving 42-sec burning time.
Fz time No 95/44	1918/1919		This is a conversion of a fze that didn't exist, as there never was a No 95. They were converted from No 80 or 87s by having the percussion element removed.
Fz time No 95B/44	1918/1926		Similar conversions as for the No 95/44.
Fz time No 96/44			Design cancelled. There was also never a No 96.
Fz Graze No 100	1915/1921		Notable in that it was designed, tested and approved in 10 days. It had a cocked needle that was released on set-forward of the graze pellet.
Fz perc No 101	1916/1921		This fuze had a fixed needle and the pellet fitted into the graze pellet. Early models had the needle press fitted but later used screwed versions.
Fz perc No 101D	1916/1917		A proposed delay version that was cancelled.
Fz perc No 101Q	1919	AAA	A Swiss manufactured 101 made by Zenith and Piccard-Pictet.
Fz perc No 101B	1916/1945	18" How, 12" How, 9.2" How and 8" How and 15" How	Similar to the 101 but with a shutter added and a weaker detent spring. This fz was made only by ROF.
Fz perc No 101E	1916/1943	BL 6" How, 60pr, 2.75" QF 4.5" How, 3.7" How, 18pr, 13pr.	Similar to the 101 but with a shutter.
Fz perc No 101EX	1917/1921		A 101E with a stronger creep spring. There is also a No 101XE (Incorrect stamp by factory)
Fz perc No 102	1916/1921		A 100 with an added delay element.
Fz perc No 103	1918/1921		Mks III was actually a cut-down 101 used by the navy for smoke shell. All other Mks were a conversion from No 100 with an additional gaine.
Fz perc No 104	1916/1921		This was a 101 with the thread intrusion changed to the length of a time fuze.
Fz perc No 105B	1916/1918	Trench mortar	"Beases design" that was originally applied to an Anti-sub mortar by Elswick Ordnance Coy. It became a simple trench mortar in which the detonator was assembled prior to firing.
Fz perc No 105B converted	1917/1918		Nothing is known about this fuze.
Fz perc No 105C	1917/1918		Nothing is known about this fuze.
Fz perc with cap No 106	1917/1934		Originally this fuze was a No 49 to GS FHG but soon changed to 2" FHG.
Fz perc with cap No 106E	1918/1959	BL18" How, 14"G, 12" How, 9.2", 8", 6" G & How, 60pr, QF 4.5" How, 3.7" How & mor, 18pr, 13pr. BL 6" How smoke, 4.5" How smoke, 3.7" smoke, 18pr smoke.	An improved 106 being provided with a shutter for bore safety.
Fz perc No 106P	1922/1922		Design cancelled
Fz perc No 106PE	1926/1959		Design cancelled
Fz perc No 106PD	1929/1949	BL 6" How, 60pr, QF 4.5" How, 3.7" How, 18pr.	As for the 106PE but a different detonator.
Fz perc No 107	1917/1918	Trench mortar	This is the "Newtons" fuze that consisted of a holder, a .303 blank and a striker.
Fz perc graze No 108	1916/1921	60pr double diaphragm gas shell.	Similar to the 100 but without a gaine.

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Fz perc No 109	1916/1921	For gas shells	Similar to the 102 but the gaine was filled with a wooden plug with hole through the centre.
Fz perc No 109E	1916/?	BL 6" How, 60pr QF 4.5" How (For use in India only)	A conversion of the 101 having a shutter added and a powder filled magazine. It was unusual in that the first Mk issued was the Mk III.
Fz perc No 110	1918/1922	Trench mortar	Another simple striker plus .303 blank.
Fz perc No 111	1918/1919		Nothing is known about this fuze.
Fz perc No 111A	1918/1919		It was a No 101 modified by a new creep spring.
Fz perc No 112	1918/1919	Heavy Anti-sub bomb	Never issued.
Fz perc No 113	1917/1921	Naval smoke & oil shell	Nothing is known about this fuze.
Fz perc No 114	1918/1921	Naval smoke & oil shell	Designed for impact at low angles.
Fz perc No 115	1918/1935		Similar to the 106 but having a longer tapered body for better ballistics.
Fz perc No 115E	1918/1935		A No 115 with the addition of a shutter.
Fz perc No 116	1919/1933		Similar to the No 101 but with longer and heavier graze pellet. It was declared obsolete because it was too similar to the No 101.
Fz perc DA No 117	1931/1968	BL 6" How, 60pr, QF 18pr HE and smk.	Original fuze were made in 1920 but declared obsolete in 1931 following a redesign it was re-introduced in 1931.
Fz perc DA No 117C	1940/1954	HE shell BL 9.2" Lyddite filled with Trotyl exploders or Trotyl filled with CE exploders	During WWII there was a shortage of detonators for the 119 fuze so the fuzes were assembled as a DA fuze only.
Fz perc DA No 118	1930/?		This is the naval version of the 117 the difference is the speed at which the shutter opens. The 118 being slower.
Fz perc DA & graze No 119	1938/1957		Selective action was obtained by removing the cap or leaving it on for firing.
Fz perc DA & graze No 119B	1943/1962		A 119 with a weaker detent spring to ensure arming at low charges.
Fz time No 120	1915/1919	1.5pr A/C guns	Single banked tensioned time combustion. designed by Vickers.
Fz time No 121	1916/?	ditto	Similar to the 120 but with two timing rings provided with ratchet teeth to engage a fuze setter.
Fz time No 122 with gaine	1917/1917	1.57" Trench How	Similar to the No 120.
Fz time No 123 with gaine	1917/1917	1.57" Trench How	
Fz time No 124	1919/1930		This was a conversion of the No 121 by filling lower time ring with RD 202 powder. This fuze was also re-introduced in 1938 in the 1.5" FHG.
Fz time No 124M	1919/1921	RAF 1.5pr Incendiary	Similar to the No 124 but with magazine filled with a perforated powder pellet.
Fz time No 125	1938/1949		None ever issued.
Fz perc DA impact No 132	1916/1955		Similar to the No 131 but with the magazine filled FG gunpowder.
Fz time No 127	1946/1949	17pr & 32pr.	Originally designed with the view to use it in timed HE shell. It was decided that no real requirement existed.
Fz perc base small No 130	1915/1949	1pr & 2pr common shell	
Fz perc DA impact No 131	1916/?	1.5pr & 2pr A/C guns	Designed to function against fabric
Fz perc No 133	1917/?	Naval service	Also known as "Fuze group 133" when assembled with special magazine exploder assembly.
Fz perc No 134	1917/1921	Trench mortars	Similar to the No 133

TITLE	DATES	FOR	COMMENTS
Fz perc No 135	1919/1922	Stokes 3" mortar	Design dropped when the 715 cast iron bomb was not adopted.
Fz perc No 136	1918/1926	French Brandt streamlined 3" mortar	Design not adopted
Fz perc DA No 138	1934/1949	3" mortars	Similar to the No 117.
Fz perc DA No 139	1926/1949	3" mortars WP	Needle disc type.
Fz perc DA No 139P	1934/1949	3" practice bombs	As for the No 139 but magazine filled powder.
Fz time No 140	1917?	Mortars	A lead-tube fuze punched for setting. Never accepted.
Fz perc No 145	1916/1918	Stokes trench howitzer	An "allways DA and graze pattern" with tape safety.
Fz perc spigot No 146	1917/1949		An "allways" type made by C.A. Vandervell & Co.
Fz perc spigot No 147	1919/1923	3" vaneless bombs	An "allways" type.
Fz perc spigot No 143	1918/1931	3" mortars	Similar to the No 146 but with a shutter safety.
Fz perc DA No 150	1936/1954	3" mortar HE	
Fz perc DA No 150P	1937/1949	3" mortar practice	
Fz perc DA No 151	1939/1957	3" HE bombs	This was also made in Australia as the Mk 1AD in 1967.
Fz perc DA No 151A	1940/1957	3" HE bombs	As for the 151 but having a steel ball in the detent instead of an aluminium one.
Fz perc DA No 152	1940/1953	3" HE bombs	A longer version of the 151.
Fz perc DA No 152A	1940/1956	3" HE bombs	As for 152 but with steel ball in the detent.
Fz perc DA No 153	1945/1945	For the "Hedgerow"	Design dropped when the weapon was cancelled.
Fz perc DA No 154	1945/?	Naval service Calcium Phosphide sea marker	This was a modified No 162.
Fz perc Base Medium No 155	1919/1923		Never issued.
Fz perc Base medium No 158	1932/1959	For 15" HE shells	This fuze had an optional delay feature as for the No 479A but with a different creep spring.
Fz perc Base large No 158A	1932/1958	For 15" HE shells	Nothing is known about this fuze.
Fz perc base large No 159	1932/1958	15" guns	Similar to the 270, 346 & 480 differing in creep spring strength.
Fz perc DA No 160	1944/1949		Similar to the No 150 but with safety pin to allow air dropping.
Fz perc DA No 161	1944/		Similar to the No 151 but with safety pin to allow air dropping.
Fz perc DA No 162	1944/		Similar to the No 152 but with safety pin to allow air dropping.
Fz perc No 163	1945	20pr BE smk used in naval 4.1" mortar	
Fz time No 165A	1917/1923		A No 65A with the percussion element removed.
Fz time No 171	1917/1917		A conversion from 65A or 69 by having the percussion element removed and the space filled with 70 grns of GP.
Fz time No 180	1916/1945	Target shell filled WP QF 3" 20cwt. shrapnel shell also in Canada	A No 80 converted to AA use by removal of the percussion unit and the space filled with a wood plug.
Fz time No 180B	1916/1943		A No 80B converted as above.
Fz time No 181	1919/?		A No 81 converted as above
Fz time No 183	1919/1946	Star shell, BL 6" How, QF 4.5" How, 3.7" How.	A No 83 converted as above
Fz time No 183M	1918/1918		None were ever issued.
Fz time No 185	1917/1931		A No 85 with the magazine filled with a perforated powder pellet instead of loose powder.

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Fz time No 187	1918/1920		A conversion of a No 87.
Fz time No 188		Star shell BL 6" How, QF 4.5" How, 3.7" How.	A conversion of a No33 or 88 by removal of the percussion element and filling the lower time ring with RD 202.
Fz time No 188M	1918/1933		As for the No 188 but with the magazine filled with a powder pellet instead of loose powder.
Fz time No 189M	1918/1921		A No 89 converted as for No 183M
Fz time No 192	1919/?	4" Naval AA smk shell	A No 92 converted by removal of the percussion element and the addition of a stud to the fuze body to allow the use of a fuze setter.
Fz time No 194M	1918/1921		A converted No 83 or 94 similar to a No 180
Fz time No 195	1918/1919		A conversion of a No 80 or 87 by removing the percussion element and refilling both time rings with a slower burning powder.
Fz time No 195B	1918/1919		As for the No 195 but with 25.5 second composition in the time rings and the magazine filled with powder pellet.
Fz time No 197	1924/1945	HE and shrapnel in QF 3" 20cwt.	A converted No 83, 88 or 80/44 by removal of the percussion element, fitting a lighter time needle and a heavier detonator pellet. The time rings were also filled with 22 second powder and the body modified to receive an adapter ring.
Fz time No 198	1925/?	Naval star shell	The body flange is threaded to receive a fuze cover.
Fz time No 199	1933/1951		This fz was the first long pointed nose type designed for AA use
Fz time No 198C	1928/	QF 3"20cwt. HE, Shrapnel and prac.	Similar to the No 198 but with a shorter intrusion into the shell. The early models had oval gas escape holes and later versions had round ones. Plastic time rings were approved April 1941. Burning time 25 secs.
Fz time mech No 200	1922/1939		The timing mech in this fuze is a copy of a captured German Dopp. Z 16. This was the first successful British clockwork fuze. Running time 60 secs.
Fz time mech No 201	1922/?		Never made.
Fz time mech No 202		For naval AA use.	As for the No 200 but with a longer tapered cap. A Krupp-Thiel mech running 60 seconds.
Fz time No 203	1921/1939	Shrapnel shell BL 9.2" G, 12" G	Exactly the same fuze as the No 202 but given a different number because it was for naval service.
Fz time mech No 204			Never introduced to service. It had a French made time mechanism.
Fz time mech No 205		HE shell in QF 3" 20cwt.	Never introduced to service.
Fz time mech No 206	1930/	Naval AA and 5.25" land service AA.	This fuze had a Krupp-Thiel 45 sec mechanism. It differed from the 202 in having a slightly modified mechanism.
Fz time No 207	1939/	3.7"AA guns	This fz had a 43 sec mechanism. A modified version running for 71 sec was developed for Naval service.
Fz time & perc No 220	1925/33	60pr practice shrapnel, later 25pr smk BE	Double banked time comb with graze action
Fz time & perc No 220B	1942		Similar to the 220 but with a weaker detent spring for firing a low charges.
Fz time & perc No 221	1937		A longer cap to give better ballistics
Fz time No 221T	1942	Chemical shells	These are 221 made before 1,4, 1942 without percussion element detonator.
Fz time & perc No 221B	1941		This is a 221 with a weaker detent spring
Fz time & perc No 222	1940	Airburst HE shells	This is a 221 with a body contoured to 117 & 119

TITLE	DATES	FOR	COMMENTS
Fz time & perc No 222B	1942		As for the 222 but with a weaker detent spring
Fz time & perc No 223	1942	AA shells	A combination of a 199 time and the 250 perc unit.
Fz time & perc No 223A	1944/54		As for the 223 with a different head contour
Fz time & perc DA No 228	1947/58	Long range smk shell	Originally a 213 with magazine filled gunpowder.
Fz perc DA No 230	1930/50	Naval	A shorter fuze for use over a gaine, similar to 117
Fz perc DA No 230P	1938/59	Coast artillery	As the 230 but with magazine filled gunpowder
Fz perc No 231	1938/53	Field artillery	Graze only action with delay for penetration.
Fz perc No 231B	1940/53		As for 231 with a weaker detent spring
Fz perc No 231ND	1940/53		Converted 231 by removing the delay element
Fz perc No 232	1941/47		Originally this was the number given to the 231ND but was changed in July 1941
Fz perc DA No 233	1943/54	95mm and 3.7" hollow charge shell	A brass casing filled with lead Azide and CE arranged in a rearward facing hollow charge to initiate the shell.
Fz perc No 234	?	?	?
Fz perc No 240	1935/47	1.5pr & 2pr AC guns	Needle disc type
Fz perc No 241	1940	"K" devices in Naval shell and 1.75" Hedgehog	
Fz perc DA No 242	1936/53	6pr coast guns	A stronger version of the 240
Fz perc No 242P	1936/57		A 242 but filled gunpowder
Fz perc DA No 243	1938/57	Naval 2pr AA	Hammer and shear wire type
Fz perc No 244	1940/61	6pr coast, 6pr, 17pr & 77mm tank guns	A larger version of the 242 with gunpowder delay unit.
Fz perc No 245	1941/46	3" Home guard Smith gun	Allways pattern made by Tri-ang Toy company.
Fz perc DA No 246	1941/56	2pr AA	As for the 243 but with shorter delay
Fz perc No 247	1947/55	Home guard Smith gun and some grenades	Allways pattern made from bakelite
Fz perc DA No 246	1940/59	Naval "K" devices also some HEAT shell	Originally a 241 with modified shutter detent springs.
Fz perc No 240	1943	40mm class SBM AC guns	
Fz perc No 250	1938	40mm Bofors AA	This is the original fuze for the Bofors
Fz perc DA No 251	1939/60		A shuttered type
Fz perc No 252	1939/?	Hispano/Suiza 20mm Inc	
Fz perc No 253	1943/46		Replaced the 252 in 20mm shells.
Fz perc No 254	1943/56	20mm shell	Strikerless type
Fz perc DA No 255	1943/63	40mm shell	Added delay to allow penetration
Fz perc No 256	?	?	?
Fz perc DA No 257	1943/?	6pr coast and tank guns	A non-delay version of the 244
Fz perc DA No 258	1944/?	Tank guns?	A modified 254
Fz perc No 259	1944/?	Naval	The internals of a 246 in a 261
Fz perc base large No 360	1938/62	Naval also 3" semi-AP in coast artillery	
Fz perc base large No 360A	1932/33	?	?
Fz perc Hotchkiss No 209	?	US and French 75mm	A 106 mechanism in a reduced diameter body
Fz perc base large No 270	1940/55	18" howitzer	Made from a 159 mk 2 mechanism with a new detent and creep spring
Fz perc base Hotchkiss tracer No 280	1930/55	3" tank AP shell	A standard Hotchkiss with a tracer added
Fz perc base Tracer No 281	1935/57	2pr Anti-tank AP	Hotchkiss pattern with separate tracer assembly
Fz perc base No 283	1941/46	29mm Spigot mortar and the "Flying dustbin"	Simple graze action with spring loaded shutter

TITLE	DATES	FOR	COMMENTS
Fz perc base No 284	1941/46	3" Smith gun	Graze action
Fz perc base No 285	1942/44	17pr AP	Design cancelled
Fz perc base small No 287	1943/	40mm semi-AP	?
Fz perc base tracer No 288	1943/54	3.7" semi-AP shell coast arty	Same as 285 but with 12 tpi instead of 14 tpi
Fz perc base No 289	1943/54	29mm spigot mortar and "Flying dustbin"	Simple graze fuze
Fz perc base No 290	1944	30lb dustbin	Design cancelled
Fz perc base No 291	1944/56	29mm spigot and dustbin	Same as 289 except 8oz creep spring instead of 34oz
Fz perc base impact with delay No 292	1944	Dustbin shell	An attempt to make a HESH shell design dropped.
Fz perc base small No 293	1941/45	2pr semi-AP also 95mm HESH	Design abandoned
Fz perc base No 294	1943/45	4" "Shark" anti-sub proj	Design dropped
Fz perc base med No 295	1945/54	3.45" & 3.7" RCL HESH	
Fz perc base No 296	1945/48	4.5" 8cwt coastal craft gun	Later used in 3.45" and 6.5" HESH shell. A redesign resulted in the 296 becoming the 305.
Fz perc base No 297	1944/46	60pr HE "Lilo" rkt	Armed by gas from the rocket motor
Fz perc base No 298	1943/45	4" Shark & Sharklet anti-sub proj	
Fz perc base No 298C	?	?	/
Fz perc base med No 299	1946/47	3.45" Wallbuster	Designed by Broadway Trust Coy.
Fz perc base large No.300	1914/?	12" shells for HMS Agincourt	Elswick Ordnance Coy made this fuze and it gave lots of trouble so it was dropped in 1917.
Fz perc base med No 301	1914/?	EOC fz for HMS Erin	
Fz perc base small No 302	1914/?	EOC fz for HMS Agincourt & Humbers?	
Fz perc base med No303	1946/47	6.5" AVRE HESH shell	Designed by Broadway trust coy.
Fz perc base med No 305	1945/46	7.5" AVRE shell	Designed by Jefferies but performed badly.
Fz Rocket No 308	1943		"PYE" fz?
Fz perc nose No 310	1914/20	3"20cwt Naval HE shell	Another EOC design special to HMS ships Erin, Agincourt, Humbers and Faulkner only.
Fz perc base No 320 NT	1917/?	4", 5" and 6" US naval	Made by Bethlehem steel coy. NT = Night tracer
Fz perc base No 321	1917/	6" APC shell filled Exp D US naval	Similar to 320 but with delay
Fz perc base small No 322	1917/19	6pr, 3" 17 & 18 cwt	Similar to the 320 but smaller for use in Bethlehem guns
Fz perc base small No 323	1917/19	Ditto	As for the 322 but with delay
Fz perc base small No 324	1917/19	3pr gun	As for the 322 but smaller
Fz perc base small No 325	1917/19	Ditto	As for the 324 but with delay
Fz perc base small No 330	1917/19	?	Like a Hotchkiss and made from a supply of Japanese left over fuzes.
Fz perc base large No 345	1932/?	8" UK naval shell	Gas pressure armed with optional delay
Fz perc base No 345A	1932/	Ditto	As for 345 but magazine filled picric powder instead of CE.
Fz perc DA No 360C	?	15" UK shell	Conversion of No 117 by removal of striker cover, fitting new steel striker head and redesigning the shutter to open between 1200 and 1400 rpm.
Fz perc DA No 361	1940/?	12" Road How	This is a No 117 with a weakened arming spring and the outside painted white. This in the first 361?
Fz perc DA No 361	1945/?	38cm French guns on Jean Bart & Richelieu.	This is a No 360 with the body having metric threads to the suit the French shells. This is the second 361?
Fz perc DA No 362	1941/?	12" Road How	This is a 110 with weakened springs and striker cover

TITLE	DATES	FOR	COMMENTS
			painted white.
Fz perc No 363	1940/?	12" Road How	This is a 231 modified as for 361
Fz perc DA No 370	1943/54	6pr 6cwt auto AA gun	Later replaced by 265 with adapter.
Fz time & perc No 380	1914/?	For HMS Agincourt & Erin.	Made by Vickers son & Maxim
Fz time & perc No 381	1914/?	HMS Humbers	Similar to 380
Fz time No 390	1943/?	Tank & mortar smk shells	This is an adaption of the 199.
Fz time No 390C	1946/?	Naval?	Badco firing target shell?
Fz time No 400	?	?	Similar to 198 but filled different composition.
Fz time No 400C	?	Naval	?
Fz time No 401	?	Naval	?
Fz time No 402	1942/45	12pr shrapnel for AA	A fixed-time time shell for barrage work.
Fz perc DA & graze No 410	1951/	Most tank and anti-tank shells	?
Fz perc No 420	1941/?	1.75" hedgehog also 100lb anti-sub bomb	Vane armed fuze.
Fz perc No 421	1943/43		Similar to 420 but hydrostatically armed but susceptible to prematures so dropped
Fz perc No 425	1943/45	PIAT	Simple graze action fuze
Fz DA & perc No 426	1943/56	PIAT	This model superseded the 425
Fz perc No 430	1945/48	Grenade No 85 HEAT	Simple graze action fuze
Fz perc No 431	1945/49	Grenade No 85 mk 2 & 3 and grenade No 87 mk 2	
Fz perc DA No 460	1929/?	Proof only	Mod of No 45 by substitution of 44 s needle disk in place of the 45s hammer. Only Mk IX made.
Fz perc DA No 460P	1926/	?	As for the 460 but magazine filled powder.
Fz perc base large No 479	?	Naval ?	?
Fz perc base large No 479A	?	?	As for 479 but with magazine filled with a picric powder pellet.
Fz perc base large No 480	1932/58	Naval	Similar to 479 but with optional delay.
Fz perc base med No 500	1931/54	Naval	Gas pressure armed non delay
Fz perc base med No501	1931/59	Naval	As for 500 but with a larger magazine.
Fz perc base med No 502	1943/47	Naval	As for 501 but with a very weak creep spring giving some dangerous problems so dropped.
Fz perc base med No 503	1946/?	Naval 9.2" guns?	501 with new creep spring name changed Sep 46 to Fz perc base med N52 Mk1 Introduced into land service as N52 in 53 immediately declared obsolete. Retained in naval service.
Fz perc base No 510	1945/47	95mm HEAT/HE shell	Design dropped 1947
Fz perc base No 551	1942/59	?	Similar to 501
Fz time No 600	1930?/43	Demolition purpose	Similar to the 117/119 but holds a spring loaded striker retained by a celluloid disk. Screwing down the fuze cap breaks a capsule of acetone that dissolves the celluloid disk thus releasing the striker. By varying the thickness of the disk various times could be set. Only 5000 were ever made.
Fz time No 610	?/43	Ditto	Similar to the 600 but slightly different inside.
Fz time No 620	?/43	Ditto	Similar to the 600 but different shape and not designed to screw into the shell but detonate a fuze for delay puposes.
Fz time No 700	1942/45	3" AA rkt	Combustion time fuze ignited by air pressure through holes in cap.
Fz time No 701	1942/47	Ditto	A 700 with the addition of a CE magazine to replace

TITLE	DATES	FOR	COMMENTS
			the No 13 gaine.
Pistol No 710	1940/57	3" AA rkts	A photo-electric proximity relying on a shadow falling on photo electric cells. Worked well on clouds and birds etc. Dropped when the Germans began night attacks.
Fz time continuously adjustable No 711X2	1943/46	AA ammunition	A resistor/condenser set at the muzzle by a trailing wire contacting a charging ring. Eventually overtaken by the standard proximity fuze.
Fz time continuously adjustable No 712X6	1945/?	AA ammunition	An early UK proximity fuze. Entered service later as the N80.
Fz time continuously adjustable No 713	1944/46	AA ammunition	Another condenser/resistor type with the addition of a DA striker.
Fz time continuously adjustable No 717	1941/49	AA ammunition	Another resistor/condenser type designed by Dr. Schonberg of Cambridge.
Fz perc DA No 720	1944/?	2" AA rkts	Point detonation with self destruct. It was wind vane armed. A time ring with 4 seconds of burning time gave the self destruct mode.
Fz perc DA No 721	1941/47	5" chemical rkts and then adopted by Canada for their 3" HE "land mattress.	Simple and very dangerous nose fuze.
Fz perc DA No 722	?	5" rkts for landing craft.	Aerodynamic arming
Fz perc DA No 724	1947/54	Ditto	A 721 given a percussion element. Also used in the Canadian 3" land mattress
Fz perc DA No 725	1946/57	Rkt ammunition	Designed by Mr. Kealey. An escapement armed fuze. The Mk 3 had a Perspex nose so that the state of arming could be ascertained.
Fz time No 730	1943/44	?	Combination time fz armed by air pressure but never accepted into service.
Fz time DA No 731	1943/47	3" AA rkts	Electro/magnetically set clockwork time fuze. The time was set by magnets as it left the launcher. It has the distinction of being the only fuze to have a complete "user handbook" written about it.
From here the fuzes are all	Air service	Types.	
Fz AC bomb No 844	1944/?	Smoke bombs	Previously known as the fuze AC smoke/float No 44 and the name change occurred 1,8,1944.
Fz AC bomb anti-disturbance No 845	1941/	Various bombs	An anti-disturbance fuze to prevent disposal and to create doubt in the minds of clearance parties.
Fz AC bomb No 846	1941/	Incendiary bombs	?
Fz AC bomb No 847	1942/	Smoke floats	?
Fz time AC No 848	1942/	Photoflash and flares	?
Fz flare AC No 849	1943/46	?	Bickford fuze initiated by an electric generator.

It is to be noted that many fuzes were declared obsolete in the mid to late twenties and late fifties, even though the fuzes themselves were long out of use by then. It was a matter of the ordnance system catching up with its house cleaning tasks after the war. It's a bit like the seating arrangements for the Queens coronation being completed in 1962. Just paperwork!