

Valentine Infantry Tank

Written by Administrator

Wednesday, 31 December 2008 20:14 - Last Updated Sunday, 12 August 2012 13:51

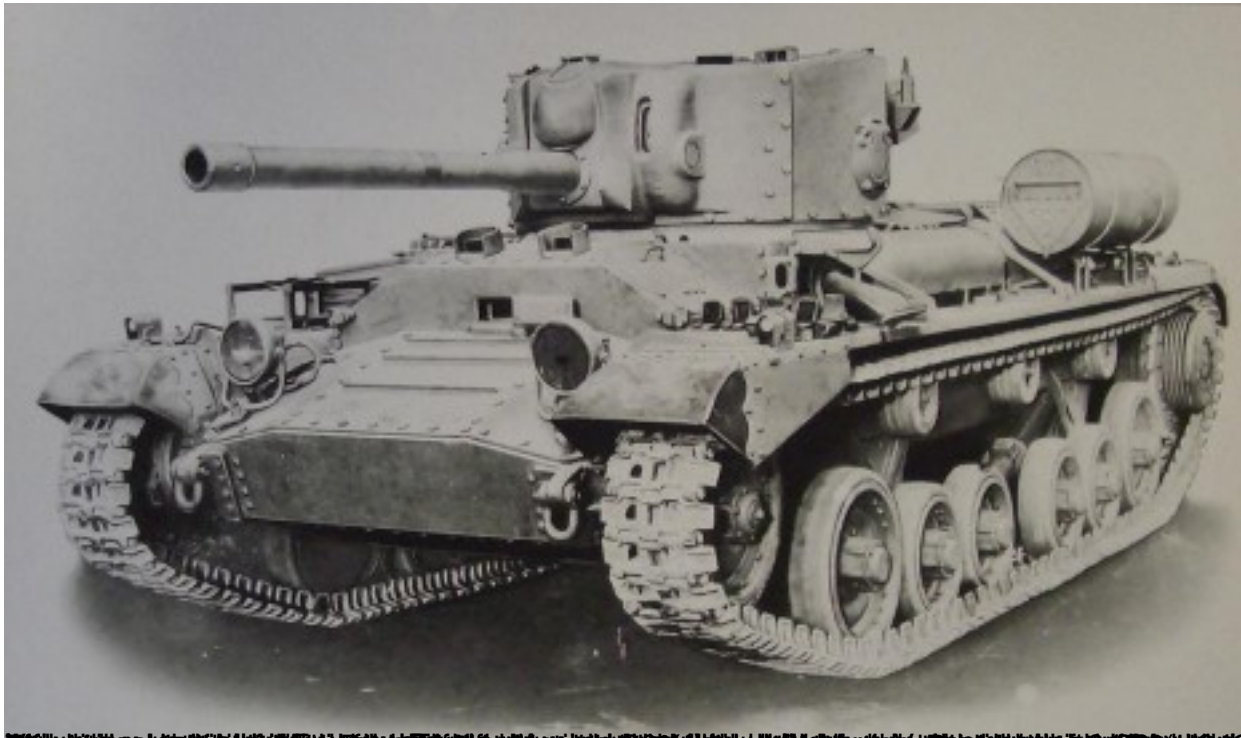
The Valentine



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Name	Valentine I	Valentine II	Valentine III
Type	Infantry	Infantry	Infantry
Production Date	June 1940	1940	
Total Production	309	1590	606
Crew	3	3	4
(In turret)	2	2	3
Length	18'-9.7"	18'-9.7"	18'-9.7"
Width	9'1-1"	9'1-1"	9'1-1"
Height	6'-6.7"	6'-6.7"	6'-6.7"
Weight	17.05	17.05	17.05
Ground pressure	11.15	11.15	11.15
Ground clearance	8"	8"	8"
Track type	Stamped	Stamped	Stamped
No per track	102	102	102
Weight of one Track	1825	1825	1825
Track width	14"	14"	14"

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Engine	AEC Petrol	AEC Diesel	AEC Diesel	G.M.C
B.H.P	7.9	7.7	7.7	8
Max road speed	15	15	15	15
Average road speed	13	13	13	13
Gear box type	22 Clash	22 Clash	22 Clash	Syn
Gears	5 Forward 1 Reverse	5 Forward 1 Reverse	5 Forward 1 Reverse	5 Fo
Fuel consumption (road)	1.16 MPG	3.14	3.14	2.5
Fuel consumption (cross country)	0.62	1.9	1.9	1.5
Petrol/Oil capacity	60.5	36	36	36
Auxiliary capacity	30	30	30	30
Radius of action (road)	102	199	199	158
Radius of action (cross country)	72	121	121	95
Trench Crossing	7'-9"	7'-9"	7'-9"	7'-9"
Vertical obstacle	3'	3'	3'	3'
Fording height	3'	3'	3'	3'
Gradient	32	32	32	32
Main Armament	2 Pounder	2 Pounder	2 Pounder	2 Pounder
Ammunition	60	60	60	60
Secondary Armament	Besa 7.92	Besa 7.92	Besa 7.92	Besa
Ammunition	3150	3150	3150	315
Transverse type	Hand & Electric	Hand & Electric	Hand & Electric	Har
Max elevation	20	20	20	20
Max depression	15	15	15	15
Turret Ring Size	57.5	57.5	57.5	57.5
Optics	No.30	No.30	No.30	No.30
Armour				
Lower Hull Nose	60(I.T.80)	60(I.T.80)	60(I.T.80)	60(I
Upper Hull Nose	30(I.T.80)	30(I.T.80)	30(I.T.80)	30(I
Hull Front	60(I.T.80)	60(I.T.80)	60(I.T.80)	60(I
Hull Sides		60(I.T.80)	50(I.T.80)	60(I

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Hull Rear Lower	60(I.T.80)	60(I.T.80)	60(I.T.80)	60(I.T.80)
Hull Rear Upper	17(I.T.70)	17(I.T.70)	17(I.T.70)	17(I.T.70)
Hull Roof (Front)	20(I.T.80)	20(I.T.80)	20(I.T.80)	20(I.T.80)
Engine Deck	10(I.T.70)	10(I.T.70)	10(I.T.70)	10(I.T.70)
Hull Floor Front (Hull front)	20(I.T.80)	20(I.T.80)	20(I.T.80)	20(I.T.80)
Hull Floor Rear	7(I.T.100)	7(I.T.100)	7(I.T.100)	7(I.T.100)
Turret Front	65(I.T.90)	65(I.T.90)	65(I.T.90)	65(I.T.90)
Turret Roof (Front)	20(I.T.80)	20(I.T.80)	20(I.T.80)	20(I.T.80)
Turret Roof (Middle)	10(I.T.100)	10(I.T.100)	10(I.T.100)	10(I.T.100)
Turret Roof (Rear)	15(I.T.100)	15(I.T.100)	15(I.T.100)	15(I.T.100)
Turret Sides	60(I.T.80)	60(I.T.80)	60(I.T.80)	60(I.T.80)
Turret Rear	65(I.T.90)	65(I.T.90)	65(I.T.90)	65(I.T.90)

Name	Valentine V	Valentine IX	Valentine X	V
Type	Infantry	Infantry	Infantry	Infantry
Production Date				
Total Production	1216	685		
Crew	4	3	3	3
(In turret)	3	2	2	2
Length	18'-9.7"	19'-5", 20'-9" with 6pdr V	19'-5", 20'-9" with 6pdr V	20'-
Width	9'1-1"	9'1-1"	9'1-1"	9'1-
Height	6'-6.7"	6'-11"	6'-11"	6'-1
Weight	17.05	17.2	17.2	17.2
Ground pressure	11.15	11.28	11.28	11.2
Ground clearance	8"	8"	8"	8"
Track type	Stamped	Stamped	Stamped	Star
No per track	102	102	102	102
Weight of one Track	1825	1827	1827	182
Track width	14"	14"	14"	14"

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Engine	G.M.C G.M.C G.M.C G.M.C			
B.H.P	8	7.56	9.6	9.6
Max road speed	15	15	15	15
Average road speed	13	13	13	13
Gear box type	Synchro Mesh. Clash	Synchro Mesh. Clash	Synchro Mesh. Clash	Syn
Gears	5 Forward 1 Reverse	5 Forward 1 Reverse	5 Forward 1 Reverse	5 Fo
Fuel consumption (road)	2.5MPG	2.5	2.5	2.5
Fuel consumption (cross country)	1.5	1.5	1.5	1.5
Petrol/Oil capacity	36	36	36	36
Auxiliary capacity	30	-	-	-
Radius of action (road)	158	89	89	89
Radius of action (cross country)	95	53	53	53
Trench Crossing	7'-9"	7'-9"	7'-9"	7'-9"
Vertical obstacle	3'	3'	3'	3'
Fording height	3'	3'	3'	3'
Gradient	32	32	32	32
Main Armament	2 Pounder 6 Pounder 6 Pounder 75mm			
Ammunition	60	53	44	44
Secondary Armament	Besa 7.92	-	Besa 7.92	Bes
Ammunition	3150	-	1575	157
Transverse type	Hand & Electric	Hand & Electric	Hand & Electric	Har
Max elevation	20	17	17	17
Max depression	15	8	8	8
Turret Ring Size	57.5	57.5	57.5	57.5
Optics	No.30 No.39 No.39 No.50 x 3			
Armour				
Lower Hull Nose	60(I.T.80)	60(I.T.80)	60(I.T.80)	60(I
Upper Hull Nose	30(I.T.80)	30(I.T.80)	30(I.T.80)	30(I
Hull Front	60(I.T.80)	60(I.T.80)	60(I.T.80)	60(I
Hull Sides		50(I.T.80)	43(I.T.80)	43(I
Hull Rear Lower	60(I.T.80)	60(I.T.80)	60(I.T.80)	60(I
Hull Rear Upper	17(I.T.70)	17(I.T.70)	17(I.T.70)	17(I
Hull Roof (Front)	20(I.T.80)	20(I.T.80)	20(I.T.80)	20(I
Engine Deck	10(I.T.70)	10(I.T.70)	10(I.T.70)	10(I

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Hull Floor Front (Hull front)	20(I.T.80)	20(I.T.80)	20(I.T.80)	20(I.T.80)
Hull Floor Rear	7(I.T.100)	7(I.T.100)	7(I.T.100)	7(I.T.100)
Turret Front	65(I.T.90)	65(I.T.90)	65(I.T.90)	65(I.T.90)
Turret Roof (Front)	20(I.T.80)	20(I.T.90)	20(I.T.90)	20(I.T.90)
Turret Roof (Middle)	10(I.T.100)	20(I.T.80)	20(I.T.80)	20(I.T.80)
Turret Roof (Rear)	15(I.T.100)	10(I.T.100)	10(I.T.100)	10(I.T.100)
Turret Sides	60(I.T.80)	60(I.T.80)	60(I.T.80)	60(I.T.80)
Turret Rear	65(I.T.90)	65(I.T.90)	65(I.T.90)	65(I.T.90)

Production of Valentine Tanks by year (UK Only)

	1941	1942	1943	1944	1945
Valentine (I.T.80)	456	370	-	-	-
Valentine (I.T.100)	60	410	82	96	-
Bishop	-	13	13	-	-
Valentine Scissor	10	10	-	-	-
DD Valentine	-	26	47	-	-

Sources - AVIA 46 188, AVIA 22 456-514, WO 194